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REPORT OF THE DEPARTMENT

OF

MINES AND RESOURCES

INCLUDING

REPORT OF SOLDIER SETTLEMENT OF CANADA

FOR THE

FISCAL YEAR ENDED MARCH 31, 1937



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*To His Excellency the Right Honourable Baron Tweedsmuir of Elsfield,
G.C.M.G., C.H., Governor-General and Commander-in-Chief of the
Dominion of Canada.*

MAY IT PLEASE YOUR EXCELLENCY:

The undersigned has the honour to lay before Your Excellency the Annual Report of the Department of Mines and Resources, including a Report on Soldier and General Land Settlement, for the fiscal year ended March 31, 1937.

Respectfully submitted,

T. A. CRERAR,
Minister of Mines and Resources.

CONTENTS

	PAGE
Report of Deputy Minister.....	9
Mines and Geology Branch.....	12
Bureau of Geology and Topography.....	16
Geological Survey.....	17
.....	19
.....	20
Section.....	22
.....	22
Development Division.....	23
Topographical Survey.....	24
Draughting and Reproducing Division.....	28
National Museum of Canada.....	33
Anthropological Division.....	34
Biological Division.....	34
Bureau of Mines.....	35
Economics Division.....	36
Metallic Minerals Division.....	37
Industrial Minerals Division.....	40
Division of Fuels.....	42
Explosives Division.....	45
Dominion Fuel Board.....	45
Publications.....	47
Lands, Parks, and Forests Branch.....	50
Bureau of Northwest Territories and Yukon Affairs.....	51
Northwest Territories.....	51
Yukon Territory.....	60
Land Registry.....	66
National Parks Bureau.....	70
Publicity and Information.....	76
National Parks of Canada.....	78
Migratory Birds Convention Act.....	95
Historic Sites and Monuments.....	99
Dominion Forest Service.....	108
Forest Economics.....	108
Silvicultural Research.....	115
Forest Protection.....	120
Forest Products Laboratories.....	127
Surveys and Engineering Branch.....	144
Dominion Observatories.....	145
Dominion Observatory, Ottawa.....	145
Dominion Astrophysical Observatory, Victoria.....	148
Dominion Water and Power Bureau.....	150
Water and Power.....	150
Dominion Hydrometric Service.....	152
International Waterway Matters.....	153
Engineering and Construction Service.....	156
Completion of Projects Initiated Under Public Works Construction Act.....	157
Projects Carried on Under Special Supplementary Estimates 1936-37.....	158
Roads.....	158
Maintenance and Development Work.....	160
Unemployment Relief.....	160
Historic Sites and Monuments.....	162
Work on Indian Reserves.....	163
Geodetic Service of Canada.....	165
Triangulation.....	165
Levelling.....	167
Geodetic Astronomy and Isostasy.....	168
Triangulation Adjustments.....	169
Levelling Adjustments.....	170
Geodetic Research.....	170
International Boundary Commission.....	170
Hydrographic and Map Service.....	171
Hydrographic Service.....	172
Map Service.....	181

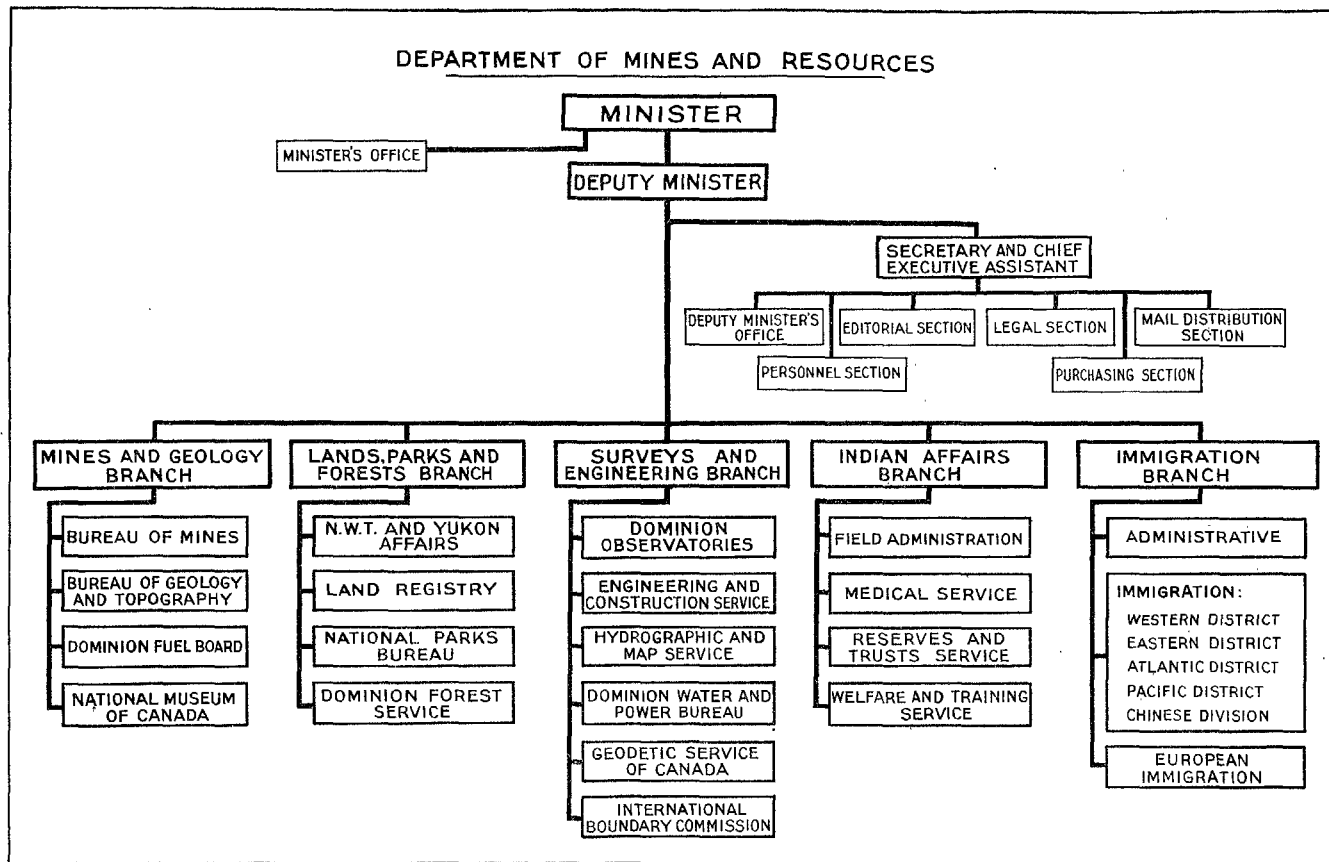
	PART I	PAGE
Indian Affairs Branch.....		188
General Administration.....		189
Problems of the Hunting Indians.....		190
Medical Service.....		191
Welfare and Training Service.....		194
Reserves and Trusts Service.....		197
Financial.....		200
Summary of Indian Affairs by Provinces and Territories.....		201

	PART II	
Tabular Statements—		
Table No. 1—Census of Indians arranged under provinces.....		209
“ 2—Grain, vegetable, and root production.....		210
“ 3—Land: private and public buildings and property.....		214
“ 4—Live stock and poultry; general effects.....		215
“ 5—Value of real and personal property and progress during the year.....		216
“ 6—Sources and value of income.....		217
School statement.....		218
Expenditures by primary allotment and provinces.....		231
Annuities paid and interest on Indian Trust Funds.....		231
Indian Trust Fund.....		233
Immigration Branch.....		234
Director of Immigration.....		234
Chief Controller of Chinese Immigration.....		302
Commissioner of Immigration.....		303
Supervisor of Women's Division.....		306
Supervisor of Juvenile Immigration.....		310
Commissioner of European Emigration for Canada in London, England.....		311

INDEX OF STATISTICAL TABLES

Table No. 1—Immigration from 1900 to 1937.....	238
“ 2—Immigration for the period July 1, 1900, to March 31, 1910.....	239
“ 3—Immigration for the period April 1, 1910, to March 31, 1920.....	240
“ 4—Immigration for the period April 1, 1920, to March 31, 1925.....	241
“ 5—Immigration for the period April 1, 1925, to March 31, 1930.....	242
“ 6—Immigration for the period April 1, 1930, to March 31, 1937.....	243
“ 7—Immigration via ocean ports and from United States, by racial origin, April 1, 1927, to March 31, 1937.....	244
“ 8—Arrivals via ocean ports, by port of entry and class.....	246
“ 9—Immigration showing sex, occupation, and destination.....	246
“ 10—Immigration showing racial origin and sex.....	247
“ 11—Immigration via ocean ports, by months, compared with that of the preceding fiscal year.....	248
“ 12—Immigration from United States, by months, compared with that of the preceding fiscal year.....	248
“ 13—Total immigration, by months, compared with that of the preceding fiscal year.....	249
“ 14—Immigration via ocean ports, showing country of birth, by racial origin.....	250
“ 15—Immigration from United States, showing country of birth, by racial origin.....	252
“ 16—Total immigration, showing country of birth, by racial origin.....	254
“ 17—Immigration via ocean ports, showing destination, by intended occupation and sex.....	256
“ 18—Immigration from United States, showing destination, by intended occupation and sex.....	257
“ 19—Total immigration, showing destination, by intended occupation and sex.....	258
“ 20—Immigration via ocean ports, showing intended occupation (classified), by destination.....	259
“ 21—Immigration from United States, showing intended occupation (classified), by destination.....	260
“ 22—Total immigration, showing intended occupation (classified), by destination.....	261
“ 23—Immigration, showing nationality and sex.....	262
“ 24—Immigration from United States, showing State of last residence, by intended occupation and sex.....	263
“ 25—Immigration via ocean ports, showing age groups, by racial origin, sex, and literacy.....	265
“ 26—Immigration from United States, showing age groups, by racial origin, sex, and literacy.....	266
“ 27—Immigration via ocean ports, showing language of immigrants 10 years and over, by racial origin.....	267
“ 28—Immigration from United States, showing language of immigrants 10 years and over, by racial origin.....	268
“ 29—Immigration via ocean ports, showing conjugal condition, by age groups and sex.....	269
“ 30—Immigration from United States, showing conjugal condition, by age groups and sex.....	269
“ 31—Rejections at ocean ports, showing nationality and sex.....	27

	Page
Table No. 32—Non-immigrants via ocean ports, showing sex and class of travel.....	271
“ 33—Origin, sex, occupation, and destination of immigrant arrivals for Canada, at ocean ports.....	272
“ 34—Origin, sex, occupation, and destination of immigrant arrivals for Canada, from the United States.....	274
“ 35—Origin, sex, occupation, and destination of total immigrant arrivals.....	276
“ 36—Immigration via ocean ports, showing origin by nationality.....	278
“ 37—Immigration from United States, showing origin by nationality.....	280
“ 38—Immigration via ocean ports, showing intended occupation (classified), by racial origin.....	282
“ 39—Immigration from United States, showing intended occupation (classi- fied), by racial origin.....	284
“ 40—Total immigration, showing intended occupation (classified), by racial origin	286
“ 41—Immigration via ocean ports, showing racial origin, sex, and age, 18 years and over and under 18 years, by province of destination.....	288
“ 42—Immigration from United States, showing racial origin, sex, and age, 18 years and over and under 18 years, by province of destination.....	290
“ 43—Immigration via ocean ports, showing origin, to whom destined.....	292
“ 44—Immigration from United States, showing origin, to whom destined.....	293
“ 45—Immigration via ocean ports, showing racial origin, sex, and conjugal condition.....	294
“ 46—Immigration from United States, showing racial origin, sex, and conjugal condition.....	295
“ 47—Admissions and rejections.....	296
“ 48—Rejections at ocean ports, by.....	297
“ 49—Deportations after having..... provinces, from 1902-03 to 1936-37.....	297
“ 50—Deportations (excluding accompanying persons), countries to which deported, by causes.....	298
“ 51—Deportations (excluding accompanying persons), countries to which deported, by provinces.....	300
Soldier Settlement of Canada.....	317



Organization Chart, Department of Mines and Resources.

REPORT
OF THE
DEPARTMENT OF MINES AND RESOURCES
INCLUDING
REPORT OF SOLDIER SETTLEMENT OF CANADA
FOR THE FISCAL YEAR ENDED MARCH 31, 1937

Honourable T. A. CRERAR,
 Minister of Mines and Resources,
 Ottawa.

SIR,—I have the honour to submit herewith the first Annual Report of the Department of Mines and Resources which came into being on December 1, 1936, under the authority of Chapter 33 of the Statutes of Canada, 1936. The report covers the work of the former Departments of Mines, Interior, Indian Affairs, and Immigration up to that date, and of the new Department from then to the end of the fiscal year.

As shown in the accompanying chart, the Department is divided into five branches, namely, the Mines and Geology Branch, the Lands, Parks, and Forests Branch, the Surveys and Engineering Branch, the Indian Affairs Branch, and the Immigration Branch, each in charge of a Director. As well, the services common to each branch have been centralized in one unit in the office of the Deputy Minister. This unit now does the work that was carried out separately in the former Departments by the Editorial, Legal, Personnel, Purchasing, and Mail Distributing Sections.

The functions of the new Department are those of the former Departments and include as well those of the Hydrographic Service Division which previously was part of the old Department of Marine. They may be summarized briefly as follows:

Mines and Geology Branch

The undertaking of scientific, technical, and other investigations designed to further the development of the mining, metallurgical, and related industries in the Dominion; the administration of The Explosives Act, 1934; the investigation of matters relating to a national fuel policy, and the administration of legislation providing assistance to the Canadian coal industry; and the maintenance of the National Museum of Canada.

Lands, Parks, and Forests Branch

The administration of the mineral, fur, and other natural resources of the Yukon and Northwest Territories; the handling of business arising from the local Governments of the two Territories; the administration of the National Parks of Canada, including the marking of historic sites of national importance and the administration of the Migratory Birds Convention Act; the conduct of scientific investigations in regard to the safeguarding, management, and maximum utilization of the Dominion's forest resources, and the maintenance of the Federal Land Registry office.

Surveys and Engineering Branch

The establishment of accurate survey control points throughout Canada; the determination and demarcation of the International Boundary; the compilation and printing of hydrographic charts, maps, and plans; astronomical and geophysical research; the investigation of the water and power resources of Canada as a whole; the furnishing of information and advice to all Branches of the Department on engineering matters, and the design and construction of buildings and engineering works in park areas and in Indian Reserves.

Indian Affairs Branch

The administration of the Indian Act; the maintenance of Indian agencies throughout the Dominion; the provision of medical welfare and training services for the Indians of Canada; and the administration of Indian lands and trust funds.

Immigration Branch

The general administration of all immigration work coming under the Immigration Act, the Chinese Immigration Act, and the Immigration Aid Societies Act. This includes the organization and maintenance of the immigration inspectional services throughout Canada and Overseas.

The establishment of the Department as of December 1, 1936, was 3,905 employees, made up as follows:—

	Permanent	Temporary	Exempt	Total	Vacancies ¹
Administrative Offices.....	64	.....	3	67	2
Mines and Geology Branch.....	339	7	46	392	16
Lands, Parks, and Forests Branch.....	361	67	214	642	7
Surveys and Engineering Branch.....	361	35	271	667	23
Indian Affairs Branch.....	360	55	793	1,208	22
Immigration Branch.....	563	297	69	929	8
Totals.....	2,048	461	1,396	3,905	78

¹ These positions, which come under the Civil Service Act, were provided for in the establishment but were allowed to remain unfilled. They are included in the other totals.

These figures do not include employees engaged under the Special Supplementary Estimates whose numbers change from day to day.

The reorganization made possible certain immediate reductions of staff and to that extent economies were effected. At present, however, the Department is housed in twenty-four buildings in the City of Ottawa and it is, therefore, difficult to attain the full benefit of the joining together of the four Departments until more satisfactory office accommodation is secured. In the meantime the elimination of overlapping services, with the resulting economies and greater efficiency in administration, can only be brought about gradually.

The following is a statement of the revenue and expenditures for the Department for the fiscal year ending March 31, 1937, including the expenditures made under the Special Supplementary Estimates.

STATEMENT SHOWING TOTALS OF REVENUE AND EXPENDITURE FOR DEPARTMENT FOR FISCAL YEAR 1936-37

	Revenue	Expenditure	Total Expenditure
<i>Mines and Geology Branch—</i>	19,653 18		
Civil Government and other regular votes of Branch.. . . . .	.....	1,133,813 68	
Coal subventions.. . . . .	.....	2,222,920 53	
Miscellaneous items provided by Statute .....	.....	54,714 77	
			3,411,448 98
<i>Lands, Parks, and Forests Branch—Surveys and Engineering Branch (Former Interior Department including Hydrographic Service)—</i>	510,982 06		
Civil Government and other regular votes of Branches.. . . . .	.....	2,872,919 54	
Miscellaneous items provided by Statute.. . . . .	.....	14,434 64	
Hydrographic Service—all grants.. . .	5,230 69	432,715 59	
			3,320,069 77

STATEMENT SHOWING TOTALS OF REVENUE AND EXPENDITURE FOR DEPARTMENT FOR FISCAL YEAR 1936-37—*Concluded*

	Revenue	Expenditure	Total Expenditure
<i>Indian Affairs Branch—</i>	1,806 97		
Civil Government and other regular votes of Branch.. .. .	.....	4,642,296 90	
Miscellaneous statutory items.. .. .	.....	261,583 51	
			4,903,880 41
<i>Immigration Branch—</i>	24,681 53		
Civil Government and other regular votes of Branch.. .. .	.....	1,311,086 94	
			1,311,086 94
	\$562,354 43		\$12,946,486 10

SPECIAL SUPPLEMENTARY ESTIMATES

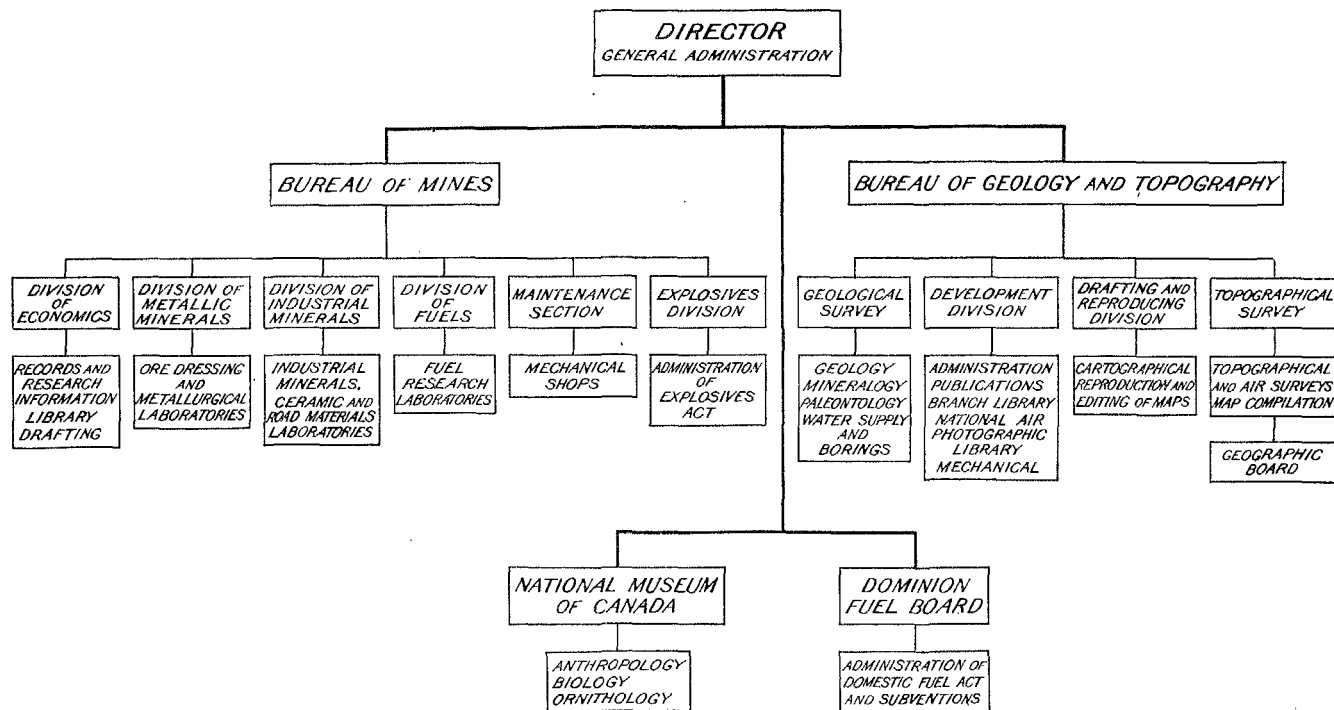
	Expenditure		
<i>Mines and Geology Branch—</i>			
Geological Surveys, etc.. .. .	295,858 16		
Assistance in improving transportation facilities into mining areas..	1,171,149 03		
			1,467,007 19
<i>Lands, Parks, and Forests Branch—Surveys and Engineering Branch (Former Interior Department)—</i>	1,741,881 46	1,741,881 46	
<i>Indian Affairs Branch—</i>	167,126 72	167,126 72	
			3,376,015 37
			\$16,322,501 47

Appended hereto are the reports of the Directors of the five Branches, which briefly summarize the activities of the whole Department during the year.

Your obedient servant,

CHARLES CAMSELL,
Deputy Minister.

ORGANIZATION CHART
MINES AND GEOLOGY BRANCH
DEPARTMENT OF MINES AND RESOURCES



Organization Chart, Mines and Geology Branch.

MINES AND GEOLOGY BRANCH

JOHN McLEISH, DIRECTOR

The Mines and Geology Branch discharges the duties and activities of the former Department of Mines, together with air and topographical surveys—except legal surveys—transferred from the Topographical and Air Survey Bureau of the former Department of the Interior.

In the reorganization of the Department of Mines and Resources there has been a redistribution of units and of functions within the Mines and Geology Branch. As is shown in the organization chart on page 12 the Branch now comprises four main units: the Bureau of Geology and Topography, replacing the former Bureau of Economic Geology; the Bureau of Mines, replacing the former Mines Branch; the National Museum of Canada; and the Dominion Fuel Board.

The mining industry reached a new record in 1936 when the value of the production exceeded \$361,000,000, as compared with the previous high of \$312,000,000 in 1935. Dividends from mining companies reached a total of over \$82,000,000, compared with slightly over \$60,000,000 in 1935.

Gains were recorded in almost all lines of production. Gold, with an average price of \$35.03 an ounce, accounted for more than a third of the total value of mineral production for the year. Records were established by all the principal metals except cobalt, silver, and selenium, and by all of the non-metallics except salt, sulphur, sodium sulphate, and magnesitic dolomite. Canada is the leading producer of nickel, the platinum metals, and asbestos; is second in the output of bismuth, radium, and zinc; third in cobalt, copper, and cadmium; and fourth in gold, silver, and lead. New production areas are showing very promising results under development, and new finds of importance continue to be made in many of the older camps and mines, thus adding to reserves, and extending the mining life of the areas concerned.

Although the industry's growth is encouraging, particularly in the production of gold and the non-ferrous base metals, many mineral products are being drawn from foreign sources of supply, as is evidenced by the large imports of iron and steel, coal, petroleum and its products, clays and clay products, and various industrial minerals. The value of such imports exceeds \$100,000,000 a year.

Minerals, however, are a wasting asset, and the more rapid the increase in production, the greater is the necessity for the application of the scientific knowledge of geology and mineralogy in finding new ore-bodies, and of chemistry, metallurgy, and mineral technology in producing commercial products from otherwise waste material. Thus the growth of mining is resulting in a heavy demand on the services of the Branch. The value of geological information to prospectors and exploration companies in their search for new deposits, and of test work on ores to mine operators and executives in the efficient design of milling plants, is being increasingly recognized.

The Government has continued to encourage and assist the industry wherever possible, with research and investigative work in geology, mineral technology, and mineral economics as a central feature of its services. Much greater attention than in former years was given toward developing among Canadians an appreciation of the economic importance of the industry, and toward widening the interest of local and outside capital in Canadian mineral development. The

Department's mining newsletter service to the High Commissioner's office in London was continued until interrupted near the close of the year by the reorganization.

The Canadian Government Motion Picture Bureau co-operated with the Branch in the production of motion picture films depicting gold mining in the Porcupine, Kirkland Lake, and Noranda gold areas.

Activities of the year are reviewed in some detail in succeeding pages.

In the Bureau of Mines' Ore Dressing and Metallurgical Laboratories, tests on gold ores continued in the lead, although rising base metal prices have increased activity in that field. In the growing field of industrial minerals (including ceramics) the Bureau has co-operated with industry, although ceramic work has been held up to some extent by staff depletion. Laboratory and field work essential to the more extensive and efficient use of Canadian fuels was continued.

The services of Dr. William Henry Collins, Director of the Geological Survey since 1920, and Acting Director of the National Museum of Canada since 1926, were lost by his death on January 14, 1937. Dr. Collins was regarded as an authority on North American Precambrian geology, and made an outstanding contribution to geological literature in his studies of the Sudbury nickel-copper deposits.

ASSISTANCE TOWARD MINING TRANSPORTATION

The Branch administered, in co-operation with the Provincial Governments, and the Department of Labour, a special supplementary vote by Parliament of \$1,500,000 to aid in improving transportation facilities into mining areas. The assistance was undertaken as a means of reducing transportation costs into mining properties throughout Canada where such costs were so high as to retard development. Agreements were made with the provinces concerned, whereby the work was to be carried out under the direction of the provincial governments, with the understanding that two-thirds of the total expenditures in each case would be contributed by the Dominion Government, and one-third by the respective provinces. Projects in Yukon Territory and in the District of Mackenzie in the Northwest Territories, were financed and carried out by the Dominion Government.

Work on the projects extended from July 1936, to March 1937, and in October a peak of 5,000 persons were employed. By the end of the fiscal year approximately 355,000 man-days of work had been provided, which is exclusive of the employment given in the supply of construction and other materials, and in equipping and provisioning the camps; and it is estimated that over \$1,000,000 was paid in salaries and wages. The agreements called for maximum expenditures as shown hereunder:

	Maximum Dominion Contribution	Maximum Provincial Contribution	Total Value of Works Covered by Agreement
	\$	\$	\$
Nova Scotia.....	25,000	12,500	37,500
Quebec.....	350,000	175,000	525,000
Ontario.....	375,000	187,500	562,500
Manitoba.....	270,000	135,000	405,000
Saskatchewan.....	80,000	40,000	120,000
Alberta.....	25,000	12,500	37,500
British Columbia.....	300,000	150,000	450,000
	1,425,000	712,500	2,137,500

Appropriations for work in the Northwest and Yukon Territories were as follows:

Northwest Territories (including some work on navigation aids on Lake Athabaska).....	\$ 37,500
Yukon Territory	20,000
Provision for Dominion-financed works.....	\$ 57,500

Thus provision was made by the Dominion Government and the provinces concerned for expenditures totalling \$2,195,000. As unavoidable delays in organization prevented the completion of several of the projects by the close of the fiscal year, the total amount expended, exclusive of administrative costs, was \$1,882,900, which was apportioned as follows:

	Approximate Value of Works Executed
Nova Scotia	\$ 37,000
Quebec	525,000
Ontario	490,600
Manitoba	322,000
Saskatchewan	80,300
Alberta	nil
British Columbia	375,000
Yukon Territory	20,000
Northwest Territories	33,000
	\$ 1,882,900

MINING TRANSPORTATION PROJECTS, 1936-37

Nova Scotia

Moose River Mines road	Mount Uniacke road
Tangier-Caribou and Moose River Mines road	Oldham road
Manganese Mine road	Goldenville road
Renfrew Mine road	Salmon River road
Montague Mine road	Beaverdam road
Caribou Mine road	Wine Harbour road

Quebec

Latulipe-Guillet Township road	Shawkey-Val d'Or road
Malartic road	Sigma-Louvicourt road
Malartic-Shawkey road	Perron Mine road

Ontario

Pickle Crow road	Calabogie-Black Donald road
Beardmore-Sand River road	Bidgood Mine road
Elk Lake-Matachewan road	Little Long Lac-Bankfield road
Red Lake-Red Lake Gold Shore road	Geraldton-Hardrock road
Raymore-Ross Mine road	Lakefield-Canadian Nepheline road
Delnite Mine road	Gogama-Three Duck Lake road
Michipicoten area roads	Red Lake-Red Lake-Madsen road
Valora-Sturgeon Lake road	Matheson-Garrison Township road
Lochalsh-Goudreau-Algold road	Preston-East Dome road
Goldpines-Woman Lake road	Clark Mine road
Collins-Obonga Lake road	Tip Top Siding-Ardeen Mine road
Gowganda-Tyranite road	Afton Mine road
Tyranite-Houston Lake road	Geraldton-Hutchison Lake road
Wendigo Mine road	Goward-Cuniptau bridges

Manitoba

Mafeking-The Pas highway	Gods Lake road
Gurney Mine road	Manigotagan-Wanipigow (Hole) River road
Herb Lake road	Wanipigow (Hole) River-Caribou Lake road
Flin Flon-Channing road	Manigotagan-Long Lake portage
Ilford-Moose Nose Lake road	Long Lake-Wadhope and Gunnar road
Regina Lake Airport road	Gold Creek dam
Wabowden-Setting Lake road	Pack Sack road
Thicket portage	Manigotagan River and Lake dams
Gold Lake road	
Cranberry portage	

Saskatchewan

Prince Albert Airport dam	Goldfields dock
Flin Flon-Beaver Lake road	Midwest Chemical Company road
Waskesiu-Montreal Lake road	

British Columbia

Manson Creek-Peace River road	Kootenay Lake road and trail
Bridge River road	Kaslo-New Denver road
Nelson-Nelway road	Perry Creek road
Sheep Creek road	Wisconsin Mine trail
Salmo-Ymir road	American Creek-Excelsior trail
Relief Arlington Mine road	Barkerville road No. 38
Big Missouri Mine road	Willow River-Sugar Creek road
Taseko Lake road	Barkerville-Antler Creek road
Dolly Varden railway	Barkerville-Bear Lake road
Hedley Mine road	Bullion Placer Mine road
Vidette Mine road	Williams Lake-Likely Main road
Telegraph Creek-Dease Lake road	Keithley Main road No. 5
McDame Post-Quartz City trail	Dentonia Mine road
Unuk River trail	Takla Landing-Vital Creek road
Leech River trail	Likely-Keithley road
Koksilah River trail	Bayonne Mine road
Cowichan Lake-Chemainus trail	Ashloo Mine road
Arrowsmith-Cowichan Lake trail	Gold Mountain Mine road
Campbell Lake-Buttle Lake trail	Dash Creek trail
Sproat Lake-Wreck Bay trail	Mud Creek Mine road
Zeballos River road	Athelstan Mine road
Hudson Bay Mountain trail	Pacific Eastern Mine road
Telkwa River Coal Mine road	Hixon Creek road

Northwest Territories

Fort Smith bank protection	Resolution, Great Slave Lake aeroplane landing
Fort Franklin wharf	Great Slave Lake navigation aids
Great Bear Lake Navigation lights	Lake Athabaska navigation aids

Yukon Territory

Sulphur Creek road	Silver King road and Minto bridge
Hunker-Dominion road	

BUREAU OF GEOLOGY AND TOPOGRAPHY

The Bureau of Geology and Topography carries out the activities of the former Bureau of Economic Geology, together with all topographical mapping; and administers the National Aerial Photographic Library.

The Bureau's duties are: to promote, by geological and related work, the discovery and development of the mineral resources of Canada; to contribute to the knowledge of the geology and geography of Canada; and to disseminate such knowledge by the issue of reports and maps, and by other means.

The Bureau has four main divisions, namely: the Geological Survey, Development, Topographical Survey, and Draughting and Reproducing Divisions, the duties of which, as well as their activities during the year, are dealt with on subsequent pages.

There were forty-eight geological parties in the field in 1936, ten of which were in British Columbia; four in Alberta; five in Saskatchewan; seven in Manitoba; five in Ontario; six in Quebec; four in New Brunswick; three in Nova Scotia; two in Yukon; and two in the Northwest Territories. These parties were engaged chiefly in examining promising areas for prospecting, and in obtaining information

that will be of aid in the development of mineral deposits. The Bureau continued to issue reports on the results of its geological field work as soon as possible after the completion of the work. During the year thirty-eight preliminary geological reports and forty-four maps were published.

The Topographical Survey had parties working in British Columbia, Quebec, Nova Scotia, and the Northwest Territories. The results of such field work are used largely in compiling maps for publication.

GEOLOGICAL SURVEY

The Geological Survey consists of what was formerly the Geological, Mineralogical, Palæontological, and Pleistocene Geology, Water Supply, and Borings Divisions of the Bureau of Economic Geology. It also administers the British Columbia Office in Vancouver.

The Geological Survey promotes the discovery and development of Canada's mineral resources by means of geological studies, the results of which are presented to the public in the form of geological maps and reports. The field studies are carried out in particular districts to determine areas favourable for prospecting, and to obtain information on mineral deposits that will be of direct value to prospectors and operators. The Geological Survey does not search for mineral deposits, nor does it examine and report upon mineral properties, except when the purpose is to obtain information that is applicable to a district as a whole. The nature and extent of the underground water resources of districts are also determined. Other investigations made serve as a basis for the proper classification of soils for agriculture and forestry. The report of the Draughting and Reproducing Division lists the geological maps published, or in varying stages of progress. The reports published are listed in the section on publications.

Besides the printed reports and maps, brief accounts of the results of various investigations are issued in the form of mimeographed statements, accompanied in many instances by photographic copies of generalized geological maps.

YUKON

H. S. Bostock continued the study and mapping of the geology of Ogilvie map-area (latitudes 63° to 64° , longitudes 138° to 140°).

J. R. Johnston made a detailed study of the lode gold occurrences on Freegold Mountain.

NORTHWEST TERRITORIES

A. W. Jolliffe examined new mineral discoveries, and collected information on the progress in the development of known deposits in the Great Slave-Great Bear Lakes region.

J. F. Henderson studied and mapped the geology of Nonacho Lake map-area (latitudes 61° to 62° , longitudes 110° to 112°).

BRITISH COLUMBIA

E. D. Kindle examined mineral properties north and east of Usk, in an area tributary to the Canadian National Railways.

E. J. Lees studied and mapped the geology of the west half of Smithers map-area (latitudes 54° to 55° , longitudes 127° to 128°).

M. F. Bancroft examined mineral properties in Smithers area.

J. E. Armstrong commenced the study and mapping of the geology of the west half of Fort Fraser map-area (latitudes 54° to 55° , longitudes 125° to 126°).

J. G. Gray commenced the study and mapping of the geology of the east half of Fort Fraser map-area (latitudes 54° to 55° , longitudes 124° to 125°).

A. H. Lang completed the study and mapping of Keithley Creek map-area (latitudes $52^{\circ} 45'$ to 53° , longitudes 121° to $121^{\circ} 30'$).

N. F. G. Davis made a detailed study of the northwestern part of the Barkerville gold belt in the vicinity of Island Mountain.

D. A. McNaughton made a detailed study of mineral properties in Greenwood area.

C. E. Cairnes and C. Tolman studied and mapped the geology of the west half of Kettle River map-area (latitudes 49° to 50° , longitudes 119° to 120°).

H. M. A. Rice studied and mapped the geology of the east half of Nelson map-area (latitudes 49° to 50° , longitudes 116° to 117°).

ALBERTA

R. L. Rutherford completed the study and mapping of the geology of Edmonton and Peace Hills map-areas (latitudes 53° to 54° , longitudes 112° to 114° ; and latitudes 52° to 53° , longitudes 112° to 114°).

G. S. Hume completed the study and mapping of the geology of Vermilion map-area (latitudes 53° to 54° , longitudes 110° to 112°), and commenced the study and mapping of the geology of Pekisko map-area (latitudes $50^{\circ} 15'$ to $50^{\circ} 30'$, longitudes 114° to $114^{\circ} 30'$).

R. T. D. Wickenden commenced the study of the underground water resources of Milk River map-area (latitudes 49° to 50° , longitudes 110° to 112°).

L. S. Russell continued the study and mapping of the geology of Milk River area, and an adjacent map-area (latitudes 49° to 50° , longitudes 110° to 113°).

SASKATCHEWAN

R. C. McMurchy studied and mapped the geology of Foster Lake map-area (latitudes 56° to 57° , longitudes 107° to 108°).

C. O. Hage studied and mapped the geology of Fort Pitt map-area (latitudes 53° to 54° , longitudes 108° to 110°).

R. T. D. Wickenden completed the study of the underground water resources of southwestern Saskatchewan (latitudes 49° to 52° , longitudes 109° to 110°).

R. Graham made a detailed study of the geology of an area near Avonlea.

H. C. Cooke studied the mineral deposits in the neighbourhood of Goldfields.

MANITOBA

D. L. Downie studied and mapped the geology of East Gods Lake map-area (latitudes 54° to 55° , longitudes 92° to 94°).

T. L. Tanton studied the mineral deposits of Echimamish River area.

F. A. Kerr completed the detailed study of the geology of an area near Flinflon.

F. H. McLearn continued the study and mapping of the geology of Swan River map-area (latitudes 52° to 53° , longitudes 100° to 102°).

A. W. Johnston studied and mapped the geology of the west half of Carroll Lake map-area (latitudes 51° to 52° , longitudes 95° to 96°); the east half of Hecla map-area (latitudes 51° to 52° , longitudes 95° to 96°); the west half of Deer Lake map-area (latitudes 52° to 53° , longitudes 95° to 96°); Berens River map-area (latitudes 52° to 53° , longitudes 96° to 98°); and Norway House map-area (latitudes 53° to 54° , longitudes 96° to 98°).

C. H. Stockwell made a detailed study of mineral deposits in an area in the vicinity of Beresford Lake.

ONTARIO

T. L. Tanton studied and mapped the geology of the east half of Quetico map-area (International Boundary to latitude 49° , longitudes 90° to 91°).

J. S. Stewart continued a detailed investigation of the gas and oil fields of southwest Ontario.

J. F. Caley commenced the study of the geology and underground water resources of Hamilton-Toronto map-area (latitudes 43° to 44° , longitudes 79° to 80°).

L. J. Weeks completed the study and mapping of an area bordering the Canadian National Railways, between Kapuskasing and Hearst.

A. E. Wilson studied and mapped the geology of areas east of Ottawa.

QUEBEC

G. W. H. Norman studied and mapped the geology of the east half of Opemisca map-area (latitudes $49^{\circ} 45'$ to 50° , longitudes $74^{\circ} 30'$ to $74^{\circ} 45'$).

G. F. Flaherty studied and mapped the geology of Perron map-area (latitude $49^{\circ} 15'$, longitudes $78^{\circ} 30'$ to 79°).

J. C. Sproule completed the mapping of the geology of the east half of Waswanipi map-area (latitudes 49° to 50° , longitudes 76° to 77°).

B. C. Freeman completed the mapping of the geology of the west half of Waswanipi map-area (latitudes 49° to 50° , longitudes 77° to 78°).

L. J. Weeks studied and mapped the geology of Duvernay map-area (latitudes $48^{\circ} 30'$ to $48^{\circ} 45'$, longitudes $77^{\circ} 30'$ to 78°).

H. C. Gunning and J. W. Ambrose made a detailed study of the mineral deposits of Malartic Township.

NEW BRUNSWICK

B. Rose continued the study and mapping of the geology of Plaster Rock-Nipisiguit Lake district.

S. C. Perry continued the study and mapping of the geology of St. George map-area (latitudes 45° to $45^{\circ} 15'$, longitudes $66^{\circ} 30'$ to 67°).

F. J. Alcock completed the study and mapping of the geology of Loch Lomond map-area (latitudes $45^{\circ} 15'$ to $45^{\circ} 30'$, longitudes $65^{\circ} 30'$ to 66°), and Cape Spencer map-area (latitudes 45° to $45^{\circ} 15'$, longitudes $65^{\circ} 30'$ to 66°).

C. S. Evans studied and mapped the geology of Petitcodiac map-area (latitudes $45^{\circ} 45'$ to 46° , longitudes 65° to $65^{\circ} 30'$).

NOVA SCOTIA

J. T. Wilson completed the study and mapping of the geology of Liverpool map-area (latitudes 44° to $44^{\circ} 15'$, longitudes $64^{\circ} 30'$ to 65°); Malaga Lake map-area (latitudes $44^{\circ} 15'$ to $44^{\circ} 30'$, longitudes $64^{\circ} 30'$ to 65°); Kejimkujik map-area (latitudes $44^{\circ} 15'$ to $44^{\circ} 30'$, longitudes 65° to $65^{\circ} 30'$); and Sherbrooke Lake map-area (latitudes $44^{\circ} 30'$ to $44^{\circ} 45'$, longitudes $64^{\circ} 30'$ to 65°).

P. Armstrong continued a detailed study of gold-bearing deposits.

W. A. Bell made detailed studies of various sections of Carboniferous strata.

PALÆONTOLOGICAL SECTION

E. M. Kindle made field studies of various Palæozoic sections in Gaspé Peninsula, P.Q.

C. M. Sternberg carried on palæontological work in Steveville area, Red Deer Valley, Alta.

A. LaRocque made collections of Pleistocene fossils from areas bordering the lower St. Lawrence River Valley, P.Q.

The following specimens were presented to the Geological Survey, and have been added to the palæontological, and other, collections:

Vertebrate Fossils

Fenley Hunter, Flushing, N.Y.: skull of Bison aff. *B. occidentalis* from near Las Vegas, Nevada; also a large collection of Oligocene mammals from Cypress Hills, Sask., by Mr. and Mrs. Hunter in 1936.

Calgary Zoological Society: skeleton of small hadrosaur; by exchange.

Invertebrate Fossils

Arthur English, Newfoundland; borings of marine organisms in wood from seashore near mouth of Little God River, west coast of Newfoundland; collected by donor in 1935; Recent.

Carroll Lane Fenton, West Liberty, Iowa: metatype of *Cruziana irregularis* F. and F. from Lake Louise shale, Banff National Park, Alta.; metatype of *Archaeonassa fossulata* F. and F. from Mount Whyte formation near top of No. 4, Walcott's section, Ross Lake, Yoho National Park, B.C.; Cambrian.

P. J. Jennings, Superintendent, Banff National Park, Banff, Alberta: holotype of *Cruziana jenningsi* Fenton and Fenton (Trilobite nest), from moraine, eastern slope of Mount Assiniboine, west of Lake Gloria, Alta., collected 1933; Cambrian.

I. W. Jones, Quebec Bureau of Mines, Quebec: a collection of fossils from St. John River Basin, Gaspé County, P.Q.; Devonian and Silurian.

G. Marshall Kay: 11 slides of ostracodes from Healy Falls, Northumberland County, Ont.; Ordovician, Mohawkian, Rockland formation.

Arthur Keith, Washington, D.C.: 36 lots of fossils from Rimouski, Matane, and Amqui districts, P.Q.; Silurian mainly.

Homer P. Little, Clark University, Worcester, Mass.: a small lot of Utica shale fossils from the southeast tip of Grenfell Tickle, Cape Chidley, 1934, said to be from talus; collected by W. B. Brierly; Ordovician.

G. Stewart and M. A. Fritz: a collection of fossils from the bank of Rideau River, opposite Strathcona Park, Ottawa, Ont.; collected by the donors; Collingwood (Ordovician).

F. B. Whiteside, 1961 East First Avenue, Vancouver, B.C.: specimens from upper pit of former Matthias Gold Mining Company, on Wolverine Creek, tributary to north fork of Quesnel River, Cariboo District, B.C.; dug out of clay bank, 40 feet above bedrock, 150 feet of overburden above; Pleistocene?

Concretions and Sediments

Grant S. Peart: pebble with calcite deposit from high gravel bar north of Burlington, Ont. (old high-level bar of Lake Ontario); Pleistocene.

Victor Sinclair: a concretion containing *Mallotus villosus* from Greens Creek, near Ottawa, Ont.; Pleistocene.

B. L. Bowling, Iowa State Highway Commission, Mason City, Iowa: a specimen of rills and mud-cracks from Devonian limestone, east edge of the city of Iowa Falls, Hardin County, Iowa.

MINERALOGICAL SECTION

Some 5,800 specimens were received and reported upon, which is more than in any past year, but there was a slight decline in the number of specimens distributed for educational purposes.

Many verbal reports were also furnished to visitors seeking information on minerals and their commercial applications.

Two and a half months were spent by one of the staff in Ontario and Quebec collecting the minerals and rocks necessary for the preparation of educational collections.

Mineralogical exhibits were prepared for the following: Central Canada Exhibition, Ottawa, Ont.; Board of Trade, Prince Albert, Sask.; Department of Trade and Commerce, to be displayed at Cleveland, Ohio; Canadian National Railways, to be displayed in New York; Leeds Modern School, Leeds, England; International Exposition at Paris.

In connection with the work on silicosis and asbestosis close co-operation was maintained with officials of the Ontario and Quebec Departments of Health, and with officials of McIntyre Porcupine Mines, Limited.

Chemical analyses were made of the following rocks and minerals: rhyolite, Abitibi County, P.Q.; granite, Témiscamingue County, P.Q.; soda granite, Malartic Township, P.Q.; dyke rock, Malartic Township, P.Q.; syenite porphyry, Fournière Township, P.Q.; tube mill dust, and dust from cleaner, McIntyre Mines, also dust from cleaner (vacuum) from Pullman cars, in connection with work on silicosis; aplite, Thetford Mines, P.Q., for Asbestos Corporation; knebellite (?) from H. P. H. Group, Nahwatei Lake, B.C.

Educational Collections

A total of 38,280 specimens, or 1,073 collections, were issued, 12,670 of which were sent to prospectors.

Educational collections were distributed as follows:

Province	Standard	Grade 2	Grade 3	Grade 4	Miscel- laneous	Prospector's	
						Min- erals	Rocks
Yukon.....	0	0	0	0	0	0	0
British Columbia.....	1	0	0	0	8	30	17
Alberta.....	0	0	0	0	1	14	3
Saskatchewan.....	0	0	0	0	4	15	10
Manitoba.....	0	0	1	0	7	6	5
Ontario.....	2	0	17	0	29	105	80
Quebec.....	0	0	25	600	11	38	25
Maritime Provinces.....	0	0	0	0	0	5	5
Foreign.....	0	0	0	0	5	3	1
	3	0	43	600	65	216	146
Number of specimens.....	432	0	1,720	20,000	3,458	7,560	5,110

The following specimens were received:

Laumontite crystals from Osakayama Noka, Minaminakayamamura, Imatate-gun, Fukui-ken, Japan.

One quartz ball, diameter 6.5 cm., from Shimmatsu Ichikawa, Kitashinjo-mura, Imatate-gun, Fukui-ken, Japan.

Covellite from Kozak mine, South Goudreau, Ont., from E. M. Burwash, Department of Mines, Toronto, Ont.

Gold ore, donated by W. Hosking, Manager, McWatters Gold Mines, Limited, Rouyn, P.Q.

Nickel coins: six from various countries; three Chinese 5, 10, and 20 fen; one 5-franc nickel coin bearing a portrait of King Leopold III, recently issued by the Belgian Government; presented by International Nickel Company, through A. J. Wadhams, Vice President.

Gold ore: rich, polished specimen, from John Knox, General Manager, Hollinger Mines, Limited, Timmins, Ont.

Two gold specimens presented by J. H. Stovel, General Manager, Dome Mines, Limited.

Two specimens "Sigma ore" showing free gold; presented by J. H. Stovel, General Manager, Dome Mines, Limited.

Two specimens of native copper "found in rock cut about 15 feet below the surface, about 58 miles west of Sault Ste. Marie, Ontario, on the section of the Trans-Canada Highway between Carp River and Mamainse, about a mile west of Coppermine Point"; presented by D. J. McCarthy, 58 Kendal Avenue, Toronto, Ont.

Nontronite (chloropal); three specimens from Nickel Plate mine (Hedley Mascot); presented by V. Dolmage, Vancouver, B. C.

Lead-zinc-copper ore from the Chimney group, 13½ miles down stream from Smithers, B.C.; presented by G. H. Ballard, Smithers, B.C.

Disseminated molybdenite ore, 800 pounds, and 1,000 pounds of mica schist, from Phoenix Molybdenite mine, Renfrew, Ont.; presented by Mr. Clayton.

Corundum in feldspar, 1,750 pounds, from Burgess mine, New Carlow, Ont.; presented by H. Armstrong.

Microcline feldspar, 800 pounds, from MacDonald feldspar mine, Monteagle Township, Ont.; presented by P. MacDonald.

Sodalite, 700 pounds; presented by T. Morrisson, Bancroft, Ont.

Pyroxene in calcite, 1,700 pounds; presented by W. Robinson, Bancroft, Ont.

Granular talc, 1,000 pounds; from Henderson mine, Madoc, Ont.

Niccolite, 750 pounds; presented by J. C. Dean, Cobalt, Ont.

Graphite ore, 1,000 pounds; from Black Donald graphite mine.

WATER SUPPLY AND BORINGS SECTION

Samples from a number of wells in Saskatchewan, drilled for oil and gas, were examined in co-operation with the Department of Natural Resources of the province, and samples from wells in Ontario were examined in co-operation with the Natural Gas Commissioner of the province. Partial mineral analyses were made of 942 samples of underground water. Of these analyses 652 were made in connection with ground water surveys in Saskatchewan, and 273 in connection with the ground water survey in Ontario, the remainder being on water samples from oil, gas, or water wells. Sixteen reports were prepared on mineral samples sent to the Department for identification; and a partial analysis was made of a marl sample from British Columbia. Information was supplied to inquirers as to the possibilities of ground water supplies at various places, and logs of a number of old wells were supplied to operators and prospectors searching for oil and gas.

R. T. D. Wickenden acted as ground water expert with the Water Development Committees under the Prairie Farm Rehabilitation Act. He examined well samples from the Prairie Provinces. Samples from Alberta, examined by the Department of Lands and Mines of that province, were re-studied in part by geologists of this Department.

Gas, oil, and water well samples received numbered 27,193, of which 13,261 were sent in through the courtesy of the Petroleum and Natural Gas Division, Department of Lands and Mines, Alberta; 959 through the courtesy of E. Swain, Supervisor of Mines, Department of Natural Resources, Saskatchewan; 11,814 through the courtesy of R. B. Harkness, Natural Gas Commissioner, Department of Mines, Ontario; 55 from Quebec; and 1,104 from New Brunswick, the latter through the courtesy of A. Creighton, Manager, New Brunswick Gas and Oilfields, Limited, Moncton.

BRITISH COLUMBIA OFFICE

Increased use made by the public of the services offered by the British Columbia Office is indicative of the interest in the mining industry of the province. A total of 4,260 visitors seeking information registered at the office, and a large number of inquiries were handled by mail and by telephone. A total of 3,650 reports, and 947 separate maps, were distributed.

DEVELOPMENT DIVISION

The duties of the Development Division include: the maintenance of an inventory of economic geological areas, and studies arising therefrom; the maintenance of an aerial photographic library, and studies arising therefrom; assistance in the development of the mineral, and other natural resources; and administering the general services of the Bureau of Geology and Topography.

NATIONAL AIR PHOTOGRAPHIC LIBRARY

Excellent progress was made in developing the National Air Photographic Library in its application to the investigation and development of the natural resources. About 24,600 photographs were added during the year, bringing the total of original photographs to 692,000. These photographs are chiefly of mining areas, and were taken in almost every province, and in the Northwest Territories, and cover a total area of some 42,000 square miles.

The use made of the photographs is significantly shown by the fact that during the year 33,000 prints were purchased through the Library; approximately 50,000 were loaned to other departments; 30,000 were used for plotting maps; and more than 30,000 were examined by engineers, prospectors, and other visitors to the Library, making a total of over 140,000.

Use made of the photographs by the Library aerial survey engineers in choosing suitable locations for roads into mining areas resulted in large savings in the cost of construction, and in the subsequent maintenance of the roads. In Manitoba, for instance, a road was shortened by 13 miles through the use of the photographs.

Studies were made of potential muskrat areas, drought areas in Western Canada, timber areas in Saskatchewan, and water power and water storage areas in various parts of Canada.

The technical assistance of the Library engineers was of particular value in the interpretation to visiting prospectors and mining engineers of photographs of areas difficult of access, but having interesting possibilities.

Some 200 lantern slides of aerial photographs were added to the Library collection, bringing the total collection to over 1,000. The slides are widely used by various departments and other organizations for lecture purposes.

Following is a list of the main areas photographed during the year, photographs of which were added to the Library:

Area	Square miles
Mistawak Lake	2,500
Kipawa (Earthquake area).....	900
Cape Breton National Park.....	1,000
Northwest Territories	24,000
Road areas in Manitoba and Ontario.....	400
Prince Edward Island (for hydrographic work).....	500

PHOTOGRAPHIC SECTION

Following is the work done during the year:

Contact prints	4 by 5 to 36 by 48	16,335
Bromide enlargements	4 by 5 to 40 by 72	1,907
Exposures developed	1 by 1½ to 5 by 7	4,996
Dry plate negatives.....	4 by 5 to 20 by 24	1,150
Wet plate negatives.....	8 by 10 to 24 by 30	157
Zinc plates etched.....	11 by 14 to 24 by 30	4
Lantern slides	3¼ by 4	1,085
Photos and maps mounted.....		1,108
	Total.....	<hr/> 26,742

LIBRARY

Accessions to the library include:

Books (by purchase).....	175
Books (by gift).....	347
Books (complete unbound volumes by purchase).....	195
Books (complete unbound volumes by gift or exchange)	519
Pamphlets.....	543
Maps.....	278
Canadian Government documents.....	830
British and Foreign Government documents.....	1,186
Scientific societies' bulletins, proceedings, and trans- actions (by exchange).....	1,783
Periodicals and continuations subscribed for.....	347
Volumes bound	283

There were 6,447 recorded loans, an increase of 747 over the previous year. Inter-library loans amounted to 319 volumes, and 124 volumes were borrowed from other libraries. Cards added to the catalogue numbered 5,899, of which 102 were bibliographical entries and 60 biographical. The analysing of important monographs and other material in periodicals added 1,143 new titles to the catalogue. Pamphlets catalogued amounted to 184, maps to 104, and lantern slides to 156. A total of 871 cards were filed in the corresponding indexes.

Seventy-two new exchanges were established, 10 of which represented geological societies, 5 new geological survey series, 7 biological, 9 anthropological, 6 zoological, 5 botanical, 4 mineralogical, 10 in the field of geography and meteorology, and 16 in general science.

Gifts included 18 volumes from the late Dr. Malte's library; 12 volumes of *Bulletins of the Geological Society of China*; 8 volumes of *Memoirs from the University of Vytäutas le Grand*; 3 volumes of *Florentino Ameghino's Obras Completas*; 13 volumes of *Anales de l'Institut du physique de Globe de l'Université de Paris*; books and pamphlets from the late Dr. W. H. Collins' collection; and books presented by W. Perkins-Bull, H. C. Cooke, and Eugene Poitevin.

GEOLOGICAL INFORMATION AND DISTRIBUTION

During the year 96,760 publications of the Geological Survey and National Museum, exclusive of French editions, were distributed. Of these 11,840 were sent to addresses on the regular mailing lists, and 84,920 were distributed in compliance with written and personal requests for named publications, or requests for general or specific information. A total of 9,809 French publications were distributed in reply to written and verbal requests.

TOPOGRAPHICAL SURVEY

The Topographical Survey has three main sections: Topographical Mapping, Map Compilation, and Air Mapping. The Topographical Mapping Section carries out all topographical mapping from ground surveys. The Map Compilation Section prepares all manuscripts for submission to the Draughting and Reproducing Division. The Aerial Surveys Section carries out control surveys for, and plots all maps made from, aerial photographs.

TOPOGRAPHICAL MAPPING

British Columbia

W. H. Miller supervised field parties working in Manson Creek and Hazelton areas. The sheets were:

Manson Creek (East half)	Latitude 55° to 56°; longitude 124° to 125°. R. J. Parlee in charge.
Manson Creek (West half)	Latitude 55° to 56°; longitude 125° to 126°. H. A. S. West in charge.
Hazelton (West half)	Latitude 55° to 56°; longitude 127° to 128°. C. H. Smith in charge.
Hazelton (East half)	Latitude 55° to 56°; longitude 126° to 127°. F. P. Duvernet in charge.

This work is for publication on a scale of 1 inch to 4 miles, with 500-foot contours. Field work was by photo-topographical methods, supplemented by reconnaissance traverse and vertical sketching. Horizontal control was based on existing triangulation connected with the Geodetic Survey net along the Canadian National Railways. Triangulation previously carried out by the British Columbia Department of Lands was incorporated. Elevations were based on the Geodetic Survey datum.

R. C. McDonald mapped an area in the vicinity of Tyaughton Lake for publication on a scale of 1 inch to 1 mile, with contour interval 100 feet. The area was mapped by photo-topography, supplemented by plane-table traverse. Horizontal control was extended from previous work in the area by the Geological Survey. Vertical control was extended from the same triangulation, and the Cadwallader Creek levels of the B.C. Power Company were included.

A. C. Tuttle topographically mapped the east half of the Nelson sheet, latitudes 49° 00' to 50° 00', longitudes 116° 00' to 117° 00'. Publication scale will be 1 inch to 4 miles, with contour interval 500 feet. Field work was by photo-topographical reconnaissance methods, supplemented by traverse and vertical sketching. Horizontal and vertical control was extended from Geodetic Survey triangulation along the International Boundary, and was connected with previous work by the British Columbia Department of Lands, and the Slocan triangulation of the Geological Survey.

Quebec

H. N. Spence carried out transit stadia control for vertical aerial photography in Mistawak area, latitudes 49° to 50°, longitudes 78° to 79° 30'. This work is connected to previous traverses on Harricanaw River, and to land lines of the Quebec Government.

J. W. Spence completed the detailed mapping of a series of sheets in the vicinity of Noranda. The maps are on a scale of 1 inch to 800 feet, with contour interval 10 feet, and provide a base for detailed geological study of the area. The five sheets in the series are Noranda, Waite, Amulet, Newbec, and Lake Dufault. They were done by plane-table, with horizontal and vertical control connected to work of the Geodetic Survey.

Nova Scotia

J. A. Macdonald continued the mapping of a series of five-minute sheets covering the Sydney-Glace Bay coalfield. Control for these sheets is by transit and tape, or transit and stadia, and detail is taken from vertical air photographs. The map will be on a scale of 1 inch to 1,000 feet. No contours will be shown, although levels were run for the determination of essential data on problems of the coalfield.

Northwest Territories

D. A. Nichols again accompanied the Eastern Arctic Expedition. He continued investigations on the uplifted marine beaches of the eastern Arctic regions, and made a contoured map of Eric Cove, Wolstenholme, P.Q., on a scale of 2,000 feet to the inch, contour interval 100 feet, with the location of important beaches marked. He re-visited the northern ports and obtained further information on the raised strand-lines; found new marine fossils in the beaches; and collected rock types from the various localities visited. He obtained a complete set of anchor samples showing the character of the bottom sedimentation at the various anchorages, and took views and motion pictures of geographical and ethnological interest.

FIELD WORK BY THE FORMER TOPOGRAPHICAL AND AIR SURVEYS BUREAU

British Columbia

C. H. Taggart completed the topographical mapping of the Sumas sheet, latitudes $49^{\circ} 00'$ to $49^{\circ} 15'$, longitudes $122^{\circ} 00'$ to $122^{\circ} 30'$, and carried on work for the Chilliwack sheet, latitudes $49^{\circ} 00'$ to $49^{\circ} 15'$, longitudes $121^{\circ} 30'$ to $122^{\circ} 00'$. Both sheets are for publication on a scale of 1 inch to 1 mile.

Ontario

The plotting that had been done from vertical air photographs for the Port Arthur-Fort William sheet, latitudes $48^{\circ} 00'$ to $48^{\circ} 30'$, and longitudes $89^{\circ} 00'$ to $90^{\circ} 00'$; and the Kaministikwia sheet, latitudes $48^{\circ} 30'$ to $49^{\circ} 00'$, and longitudes $89^{\circ} 00'$ to $90^{\circ} 00'$, was checked in the field and the roads classified. The Geodetic Service of Canada co-operated in obtaining this information. Both sheets are for publication on a scale of 1 inch to 2 miles.

C. B. C. Donnelly ran 89 miles of chain traverse and 376 miles of stadia traverse for control of the Capreol sheet, latitudes $46^{\circ} 30'$ to $47^{\circ} 00'$, and longitudes $80^{\circ} 00'$ to $81^{\circ} 00'$; and the Evelyn sheet, latitudes $47^{\circ} 00'$ to $47^{\circ} 30'$, and longitudes $80^{\circ} 00'$ to $81^{\circ} 00'$. The work was perpetuated by 81 permanent monuments. Both sheets are for publication on a scale of 1 inch to 2 miles.

E. S. Fry made astronomical observations at two points in Spirit Lake map-sheets, latitudes $50^{\circ} 00'$ to $53^{\circ} 00'$, longitudes $92^{\circ} 00'$ to $94^{\circ} 00'$; and at one point near the northerly limit of Sandy Lake map-sheet, latitudes $53^{\circ} 00'$ to $54^{\circ} 00'$, and longitudes $92^{\circ} 00'$ to $94^{\circ} 00'$, to supplement existing control. The maps are for publication on a scale of 1 inch to 4 miles.

Quebec

P. E. Palmer obtained information in the field for contouring on vertical air photographs, with the aid of the stereoscope, the northern half of the Grand-Mère sheet, latitudes $46^{\circ} 45'$ to $47^{\circ} 00'$, longitudes $72^{\circ} 00'$ to $73^{\circ} 00'$. This sheet will be published on a scale of 1 inch to 2 miles.

A. O. Gorman ran traverse surveys to provide control, and obtained information in the field for contouring on vertical air photographs, with the aid of the stereoscope, over three-fourths of the Joliette sheet, latitudes $46^{\circ} 00'$ to $46^{\circ} 30'$, and longitudes $73^{\circ} 00'$ to $74^{\circ} 00'$. This sheet will be published on a scale of 1 inch to 2 miles.

A. O. Gorman ran traverse surveys to provide control for the St. Michel map-sheet, latitudes $46^{\circ} 30'$ to $47^{\circ} 00'$, and longitudes $73^{\circ} 00'$ to $74^{\circ} 00'$. He ran and levelled 200 miles of chain traverse, and established 69 permanent monuments.

A. M. Perry obtained ten astronomical observations on the Lac Opataca map-sheet, latitudes $50^{\circ} 00'$ to $51^{\circ} 00'$, longitudes $74^{\circ} 00'$ to $75^{\circ} 00'$; and Lac Evans map-sheet, latitudes $50^{\circ} 00'$ to $51^{\circ} 00'$, longitudes $76^{\circ} 00'$ to $78^{\circ} 00'$, to supplement and tie in existing control. These sheets are for publication on a scale of 1 inch to 4 miles.

Nova Scotia

W. A. Fletcher ran 126 miles of chained traverse with trigonometric and barometric levelling for mapping the area covered by the new National Park in Cape Breton. This area is to be contoured from vertical air photographs and the map is to be published on a scale of 1 inch to 2 miles.

Northwest Territories

J. Carroll and E. S. Fry made thirty astronomical observations in an area north of Great Slave Lake, extending easterly from Yellowknife River to Thelon River. The area is included in seven map-sheets for publication on a scale of 1 inch to 4 miles.

MAP COMPILATION

The regular office work comprises the compilation of maps resulting from topographical surveys in the field, and from air surveys, and the preparation of base maps for the Draughting and Reproducing Division. Besides this work 21 preliminary maps and diagrams and 126 maps and diagrams for water supply papers were prepared.

GEOGRAPHIC BOARD OF CANADA

The Chief Topographical Engineer is also Chairman of the Geographic Board. The following report, prepared by the Secretary, outlines the functions, personnel, and activities of the Board:

The duties of the Geographic Board of Canada, created by Order in Council December 18, 1897, are: to advise and rule on all questions concerning geographic names in the Dominion that arise in the departments of the public service. All departments are to accept and use in their publications the names and orthography adopted by the Board.

W. H. Boyd and J. H. Corry, Department of Mines and Resources, are, respectively, Chairman and Secretary of the Board, the other members being F. C. C. Lynch, G. A. Young, F. H. Peters, A. M. Narraway, A. Dickison, F. Anderson, N. J. Ogilvie, Department of Mines and Resources; J. E. Lyon, Department of National Defence, and E. E. Gagnon, Department of Transport.

The Executive Committee comprises F. H. Peters and A. Dickison.

During the past year the Board passed upon thousands of names for some fifty map-sheets. Inquiries, and reports for information on the correct designation, meaning, location, and history of geographical names have been received from other departments, and from local and foreign sources.

DRAUGHTING AND REPRODUCING DIVISION

Maps Published April 1, 1936, to March 31, 1937

Publication Number	Title	Remarks
NORTHWEST TERRITORIES		
377A	Eastern portion of Great Slave Lake (West half), District of Mackenzie; scale, 1 inch to 4 miles.	Geology. For separate distribution.
378A	Eastern portion of Great Slave Lake (East half), District of Mackenzie; scale, 1 inch to 4 miles.	Geology. For separate distribution.
YUKON		
340A	Carmacks sheet; scale, 1 inch to 4 miles.....	Geology. For memoir by H. S. Bostock, and separate distribution.
	Tantalus Butte-Tatchun Lake area, illustrating probable chief structural features; scale, 1 inch to 2 miles.....	Geology. For memoir by H. S. Bostock.
350A	Teslin-Quiet Lake area; scale, 1 inch to 4 miles...	Geology. For memoir by E. J. Lees, and separate distribution.
372A	Laberge sheet; scale, 1 inch to 4 miles.....	Geology. For memoir by H. S. Bostock, and separate distribution.
373A	Ogilvie sheet; scale, 1 inch to 4 miles.....	Topography. For separate distribution.
394A	Pelly River area; scale, 1 inch to 8 miles.....	Geology. For memoir by J. R. Johnston, and separate distribution.
BRITISH COLUMBIA		
348A	Gun Lake area (Bridge River), Lillooet District; scale, 1 inch to $\frac{1}{2}$ mile.....	Topography. For separate distribution.
349A	Cadwallader Creek area (Bridge River), Lillooet District; scale, 1 inch to $\frac{1}{2}$ mile.....	Topography. For separate distribution.
367A	Tahtsa-Morice area, Coast District; scale, 1 inch to 4 miles.....	Geology. For separate distribution.
368A	Smithers sheet (West half), Coast District; scale, 1 inch to 4 miles.....	Topography. For separate distribution.
369A	Smithers sheet (East half), Coast District; scale, 1 inch to 4 miles.....	Topography. For separate distribution.
370A	Fort Fraser sheet (West half), Coast District; scale, 1 inch to 4 miles.....	Topography. For separate distribution.
	Claims in the vicinity of the mine of B.C. Nickel Mines, Limited, Yale District; scale, 1 inch to 800 feet.....	Geology. For memoir by H. C. Horwood.
	Geology of mineral claims, Second Relief mine, Kootenay District; scale, 1 inch to 500 feet..	Geology. For memoir by W. E. Cockfield.

Maps Published April 1, 1936, to March 31, 1937—Continued

Publication Number	Title	Remarks
SASKATCHEWAN		
339A	Goldfields area; scale, 1 inch to 1 mile.....	Geology. For memoir by F. J. Alcock, and separate distribution.
363A	Tazin Lake sheet; scale, 1 inch to 4 miles.....	Geology. For memoir by F. J. Alcock, and separate distribution.
364A	Fond-du-Lac sheet; scale, 1 inch to 4 miles.....	Geology. For memoir by F. J. Alcock, and separate distribution.
365A	Stony Rapids sheet (West half); scale, 1 inch to 4 miles.....	Geology. For memoir by F. J. Alcock, and separate distribution.
357A	Lac-la-Ronge sheet (West half); scale, 1 inch to 4 miles.....	Geology. For separate distribution.
358A	Lac-la-Ronge sheet (East half); scale, 1 inch to 4 miles.....	Geology. For separate distribution.
MANITOBA		
343A	Granville Lake sheet (West half); scale, 1 inch to 4 miles.....	Geology. For separate distribution.
344A	Granville Lake sheet (East half); scale, 1 inch to 4 miles.....	Geology. For separate distribution.
345A	Portion of Seal River; scale, 1 inch to 4 miles.....	Geology. For separate distribution.
346A	Seal River area; scale, 1 inch to 12 miles.....	Geology. For separate distribution.
374A	Herb Lake area (North sheet); scale, 1 inch to 1,000 feet.....	Geology. For memoir by C. H. Stockwell, and separate distribution.
375A	Herb Lake area (Centre sheet); scale, 1 inch to 1,000 feet.....	Geology. For memoir by C. H. Stockwell, and separate distribution.
376A	Herb Lake area (South sheet); scale, 1 inch to 1,000 feet.....	Geology. For memoir by C. H. Stockwell, and separate distribution.
ONTARIO		
347A	Papaonga area, Kenora District (Patricia portion); scale, 1 inch to 2 miles.....	Geology. For separate distribution.
354A	Pigeon River area (Sheet I), Thunder Bay District; scale, 1 inch to 1 mile.....	Geology. For memoir by T. L. Tanton, and separate distribution.
355A	Pigeon River area (Sheet II), Thunder Bay District; scale 1 inch to 1 mile.....	Geology. For memoir by T. L. Tanton, and separate distribution.

Maps Published April 1, 1936, to March 31, 1937—Concluded

Publication Number	Title	Remarks
ONTARIO—Concluded		
356A	Pigeon River area (Sheet III), Thunder Bay District; scale 1 inch to 1 mile.....	Geology. For memoir by T. L. Tanton, and separate distribution.
366A	Cow River area, Sudbury and Algoma Districts; scale, 1 inch to 2 miles.....	Geology. For separate distribution.
	Index map showing relative positions of thirty-two gold-bearing areas of Ontario east of Lake Superior; approximate scale, 1 inch to 75 miles	For memoir by E. D. Kindle.
QUEBEC		
286A	Escuminac sheet, Bonaventure County; scale, 1 inch to 1 mile.....	Geology. For separate distribution.
383A	Ville-Marie Sheet (West half), Témiscamingue County; scale, 1 inch to 1 mile.....	Topography. For separate distribution.
384A	Ville-Marie sheet (East half), Témiscamingue County; scale, 1 inch to 1 mile.....	Topography. For separate distribution.
385A	Guillet Lake sheet (West half), Témiscamingue County; scale, 1 inch to 1 mile.....	Topography. For separate distribution.
386A	Guillet Lake sheet (East half), Témiscamingue County; scale, 1 inch to 1 mile.....	Topography. For separate distribution.
NEW BRUNSWICK		
342A	Serpentine Lake sheet, Victoria and Northumberland Counties; scale, 1 inch to 1 mile.....	Topography. For separate distribution.
391A	Plaster Rock sheet (East half), Victoria County; scale, 1 inch to 1 mile.....	Topography. For separate distribution.
392A	Plaster Rock sheet (West half), Victoria County; scale, 1 inch to 1 mile.....	Topography. For separate distribution.
393A	Tuadook Lake sheet (West half), Victoria and York Counties; scale, 1 inch to 1 mile.....	Topography. For separate distribution.

Other Map-Work in Varying Stages of Progress

—	Title	Remarks
BRITISH COLUMBIA		
1	Cranbrook sheet, Kootenay District; scale, 1 inch to 1 mile.	Geology.
2	Willow River sheet (East half), Cariboo District; scale, 1 inch to 1 mile.	Geology.
3	Willow River sheet (West half), Cariboo District; scale, 1 inch to 1 mile.	Geology.
4	Eagle-McDame area, Cassiar District; scale, 1 inch to 4 miles.	Geology.
5	Ashcroft sheet (East half), Kamloops District; scale, 1 inch to 4 miles.	Topography.
6	Ashcroft sheet (West half), Kamloops, Lillooet, and Yale Districts; scale, 1 inch to 4 miles.	Topography.
7	Kettle Valley sheet (West half), Similkameen and Osoyoos Districts; scale, 1 inch to 4 miles.	Topography.
8	Hope sheet (East half), Yale District; scale, 1 inch to 4 miles.	Topography.
9	Hope sheet (West half), Yale District; scale, 1 inch to 4 miles.	Topography.
10	Keremeos sheet, Similkameen District; scale, 1 inch to 1 mile.	Geology.
ALBERTA		
11	Fallentimber sheet (East half), west of Fifth meridian; scale, 1 inch to 1 mile.	Topography.
12	Fallentimber sheet (West half), west of Fifth meridian; scale, 1 inch to 1 mile.	Topography.
13	Bearberry sheet (West half), west of Fifth meridian; scale, 1 inch to 1 mile.	Topography.
14	Wainwright-Sullivan sheet (East half); scale, 1 inch to 4 miles.	Geology.
15	Wainwright-Sullivan sheet (West half); scale, 1 inch to 4 miles.	Geology.
SASKATCHEWAN		
16	Battleford-Tramping Lake sheet (East half); scale, 1 inch to 4 miles.	Geology.
17	Battleford-Tramping Lake sheet (West half); scale, 1 inch to 4 miles.	Geology.
MANITOBA		
18	Elizabeth-Dauphin claims, Herb Lake area; scale, 1 inch to 75 feet.	Geology.
19	Part of Rex group of claims, Herb Lake area; scale, 1 inch to 175 feet.	Geology.
ONTARIO		
20	Manitoulin Island, Manitoulin District; scale, 1 inch to 4 miles.	Geology.
21	Espanola sheet, Sudbury District; scale, 1 inch to 1 mile.	Geology.
22	Copper Cliff sheet, Sudbury District; scale, 1 inch to 1 mile.	Geology.
23	Hearst-Kapuskasing area (East sheet), Cochrane and Algoma Districts; scale, 1 inch to 4 miles.	Geology.
24	Hearst-Kapuskasing area (East sheet), Cochrane and Algoma Districts; scale, 1 inch to 4 miles.	Geology.
25	Shebandowan sheet, Thunder Bay District; scale, 1 inch to 1 mile.	Geology.

Other Map-work in Varying Stages of Progress—Continued

—	Title	Remarks
ONTARIO AND QUEBEC		
26	Ottawa sheet (East half), Carleton and Hull Counties; scale, 1 inch to 1 mile.....	Geology.
27	Ottawa sheet (West half), Carleton and Hull Counties; scale, 1 inch to 1 mile.....	Geology.
QUEBEC		
28	Chibougamau sheet (East half), Abitibi Territory; scale, 1 inch to 4 miles.....	Geology.
29	Chibougamau sheet (West half), Abitibi Territory; scale, 1 inch to 4 miles.....	Geology.
30	Opemisca sheet (East half), Abitibi Territory; scale, 1 inch to 1 mile.....	Geology.
31	Megantic sheet (West half), Frontenac County; scale, 1 inch to 1 mile.....	Geology.
32	Ville-Marie sheet (East half), Témiscamingue County; scale, 1 inch to 1 mile.....	Geology.
33	Ville-Marie sheet (West half), Témiscamingue County; scale, 1 inch to 1 mile.....	Geology.
34	Guillet Lake sheet (East half), Témiscamingue County; scale, 1 inch to 1 mile.....	Geology.
35	Guillet Lake sheet (West half), Témiscamingue County; scale, 1 inch to 1 mile.....	Geology.
36	Cadillac area, Cadillac Township; scale, 1 inch to 1,500 feet.....	Geology.
37	Part of Cadillac belt, Cadillac Township; scale, 1 inch to 600 feet.....	Geology.
38	Vertical section, O'Brien Gold Mines, Limited, Cadillac Township; scale, 1 inch to 60 feet.....	Geology.
39	Plan of third level, O'Brien Gold Mines, Limited, Cadillac Township; scale, 1 inch to 60 feet.....	Geology.
40	Canadian Pandora Gold Mines, Limited, Cadillac Township; scale, 1 inch to 200 feet.....	Geology.
41	Isometric diagram of the underground workings, Canadian Pandora Gold Mines, Limited, Cadillac Township; scale, 1 inch to 60 feet.....	Geology.
42	Lake Etchemin area, Dorchester and Beauce Counties; scale, 1 inch to 1 mile.....	Geology.
43	Desboues sheet (East half), Abitibi County; scale, 1 inch to 1 mile.....	Geology.
44	Desboues sheet (West half), Abitibi County; scale, 1 inch to 1 mile.....	Geology.
45	Thetford sheet (East half), Megantic, Beauce, and Frontenac Counties; scale, 1 inch to 1 mile.....	Geology.
46	Thetford sheet (West half), Megantic, Beauce, and Frontenac Counties; scale, 1 inch to 1 mile.....	Geology.
47	Disraeli sheet (East half), Wolfe, Frontenac, and Megantic Counties; scale, 1 inch to 1 mile.....	Geology.
48	Disraeli sheet (West half), Wolfe, Frontenac, and Megantic Counties; scale, 1 inch to 1 mile.....	Geology.
49	Warwick sheet (East half), Wolfe and Arthabaska Counties; scale, 1 inch to 1 mile.....	Geology.
50	Index to cadastral subdivisions of Thetford areas; scale, 1 inch to 2 miles.....	
NEW BRUNSWICK		
51	Sevogle Rivers area, Northumberland County; scale, 1 inch to 2 miles.....	Geology.
52	Woodstock area, Carleton and York Counties; scale, 1 inch to 2 miles.....	Geology.
53	Petitcodiac sheet (East half), Kings, Westmorland, and Albert Counties; scale, 1 inch to 1 mile.....	Topography.
54	Petitcodiac sheet (West half), Kings and Westmorland Counties; scale, 1 inch to 1 mile.....	Topography.

Other Map-work in Varying Stages of Progress—Concluded

—	Title	Remarks
NOVA SCOTIA		
55	Bras d'Or sheet, Cape Breton and Victoria Counties; scale, 1 inch to 1 mile.....	Geology.
56	Sydney sheet (East half), Cape Breton County; scale, 1 inch to 1 mile.....	Geology.
57	Sydney sheet (West half), Cape Breton County; scale, 1 inch to 1 mile.....	Geology.
58	Glace Bay sheet, Cape Breton County; scale, 1 inch to 1 mile.....	Geology.
59	Oxford sheet (East half), Cumberland and Colchester Counties; scale, 1 inch to 1 mile.....	Geology.
60	Oxford sheet (West half), Cumberland and Colchester Counties; scale, 1 inch to 1 mile.....	Geology.
61	Springhill sheet, Cumberland and Colchester Counties; scale, 1 inch to 1 mile.....	Geology.
62	Kejimikujik sheet (East half), Digby, Annapolis, and Queens Counties; scale, 1 inch to 1 mile.....	Geology.
63	Kejimikujik sheet (West half), Digby, Annapolis, and Queens Counties; scale, 1 inch to 1 mile.....	Geology.
64	Malaga sheet (East half), Queens and Lunenburg Counties; scale, 1 inch to 1 mile.....	Geology.
65	Malaga sheet (West half), Queens and Lunenburg Counties; scale, 1 inch to 1 mile.....	Geology.
66	Liverpool sheet (East half), Queens and Lunenburg Counties; scale, 1 inch to 1 mile.....	Geology.
67	Liverpool sheet (West half), Queens and Lunenburg Counties; scale, 1 inch to 1 mile.....	Geology.

In addition to the foregoing, eighty-six map and other figure drawings were prepared for reproduction by zinc-cut process, for illustrating reports, papers, and memoirs. Other draughting and related work necessary for staff and public use amounted to one hundred and thirty-two items.

NATIONAL MUSEUM OF CANADA

Field work, which was suspended during the depression years, has been actively resumed. During 1936 field parties were engaged in: biological work on the Pacific Coast; ornithological investigations in northern Manitoba; a special biological survey of Thelon Game Sanctuary; a botanical survey in the vicinity of Port Arthur, Ontario, for a beaver habitat group; archæological excavations in Windsor, Ontario, and in the Arctic regions; a study of early French-Canadian art and handicrafts; and an investigation of the effect of contact with the white man upon Indian culture.

The reports issued are listed in the section on publications.

The rearrangement of cases and regrouping of exhibits were commenced by the Anthropological Division, and similar rearrangement will be effected in other halls of the Museum. The lecture hall was restored to its former size through the removal of offices; and was modernized by the installation of the best available equipment for the projection of sound and silent motion pictures, the introduction of the latest improvements in acoustics, and by up-to-date ventilation, lighting, and decoration.

A renewed interest in the welfare of the Museum is being manifested by the public. In May 1936, Harry Snyder made a formal presentation of a large wood buffalo habitat group. Other outstanding gifts made to the Museum

were: a fine mounted specimen of bighorn sheep, donated by Alexander Fraser, Pittsburgh, U.S.A.; an excellent ceinture fléchée, donated by Mrs. George Major, Ottawa; and the head of a Pleistocene bison by Fenley Hunter, Flushing, Long Island, U.S.A. Mr. and Mrs. Fenley Hunter spent several weeks during the summer, with the assistance of the noted collector, Albert C. Silberling, collecting mammalian fossil remains in southern Saskatchewan, and generously turned over the complete collection to the National Museum of Canada.

EDUCATIONAL WORK

Educational work is one of the most important activities of the National Museum, and it is through the extension services of this work that the Museum is able to reach out to all sections of the country, and to assist in the diffusion of accurate and specialized knowledge on natural history and related subjects.

Additions were made to the motion picture library by the purchase of a number of films on biological subjects, and sets of lantern slides, mostly coloured, are being added regularly. These films and slides are lent to schools, scientific societies, and other organizations, and catalogues may be had on application. The Museum is able to supply photographs to teachers, scientists, and authors at about the cost of printing, and collections and separate specimens of minerals and rocks can be had from the Bureau of Geology and Topography at moderate prices.

More detailed information on the educational work, and particularly on the series of lectures given in Ottawa during the winter months, will be found in the Annual Report of the National Museum.

ANTHROPOLOGICAL DIVISION

D. Jenness assembled and arranged the field notes he gathered in British Columbia during the winter of 1935-36, and completed a report on the Sarcee Indians of Alberta.

W. J. Wintemberg completed the excavation of the Indian burial ground near Windsor, Ontario. He completed two reports on earlier explorations, one at Tadoussac, Quebec, and the other along the northwest coast of Newfoundland, and is engaged on a third report, describing the Sidey-Mackay Indian site in Simcoe County, Ontario.

Harlan I. Smith, archæologist, was retired on superannuation in February 1937.

Douglas Leechman partly excavated an old Eskimo village site near Cape Wolstenholme, at the southwest entrance to Hudson Strait. Afterwards he proceeded north on the R.M.S. *Nascopie* and examined two other Eskimo sites, one at Dundas Harbour, Devon Island, and the other in Arctic Bay, Baffin Island.

C. M. Barbeau spent from June to December in a field study of the early arts and handicrafts of Quebec. The Macmillan Company published two of his books on this subject, *Quebec Where Ancient France Lingers* and *The Kingdom of Saguenay*.

BIOLOGICAL DIVISION

C. H. Douglas Clarke, University of Toronto, made a preliminary biological survey of the Thelon Game Sanctuary, Northwest Territories. The principal object was to obtain detailed information as to the number and distribution of, and other pertinent data on, the musk-oxen, caribou, and other game and fur-bearing mammals. Small collections of mammals, birds, animal parasites, and plants were made in connection with the immediate purposes of the survey.

Thomas M. C. Taylor, University of Toronto, established a base camp at Silver Islet, Ontario, and made extensive and important botanical and zoological collections.

Hamilton M. Laing, Comox, B.C., collected mammals, birds, amphibians, and reptiles on the west coast of British Columbia, starting at Powell River, working inland to Horseshoe Lake and Gordon Pasha Lake, and then proceeding northward into Bute, Loughborough, and Kingcome Inlets. These collections are from a region in which very little systematic work has been done on the land vertebrate fauna, and form a desirable connecting link with work previously done for the National Museum on Vancouver Island.

C. L. Patch, with the co-operation and permission of the Ontario Government, collected several specimens of beaver from Algonquin Park, together with a large quantity of beaver cuttings and other accessory material, for the construction of a beaver habitat group, including a beaver house and part of a beaver dam.

R. M. Anderson continued work on the Mammals of Canada, and on revising "Check-list of Canadian Mammals." He also completed shorter papers on wild life and faunal resources, including an illustrated chapter on "Faunas of Canada" for the Canada Year Book, 1937, and a chapter on "Mammals and Birds of Mackenzie District, Northwest Territories, Canada", for "Canada's Western Northland". On March 31, 1937, the catalogued specimens of mammals in the National Museum of Canada numbered 14,287, and amphibians and reptiles 4,734.

A. E. Porsild, National Herbarium, was engaged chiefly on the extensive collection of Arctic and sub-Arctic plants that he made during his work in the north for the former Department of the Interior, and in preparing a scientific report on the flora of the western Arctic region. During the year, 6,534 sheets were labelled and mounted and 741 sheets of plants were named; 9,773 sheets were received as donations and on account of exchange, and 9,558 sheets were distributed. Sheets officially registered and numbered in the National Herbarium totalled 138,634 on March 31, 1937.

P. A. Taverner conducted researches along the Hudson Bay railway in northern Manitoba, where he collected 484 birds, 50 sets of eggs, 191 mammal specimens, a few amphibians, material for several life-history groups, and moving and still wild-life and flower photographs.

BUREAU OF MINES

The Bureau of Mines comprises the former Mines Branch with the regrouping of its functions and the addition of the former Explosives Division. This Bureau now comprises five divisions, namely, the Metallic Minerals, Industrial Minerals, Fuels, Economics, and Explosives. The former Mineral Resources Division contributed to the formation of the three last-named; and the former Chemistry Division has been distributed among the first three. The Draughting Division and the Library now form part of the Economics Division.

The Metallic Minerals Division comprises the former Ore Dressing and Metallurgical Division, without the Non-Metallics laboratory, and most of the former Chemical Division. The Industrial Minerals Division comprises that part of the former Mineral Resources Division concerned with industrial minerals, their resources, recovery, marketing, and uses; the Industrial Waters Investigation Section of the former Chemical Division; the Non-Metallics laboratory, and the former Ceramics Division. The Fuels Division comprises the old Fuels and Fuel Testing Division, and handles the work on bituminous sand and mine gases, formerly carried out by the Mineral Resources and

Chemical Divisions. The Economics Division comprises the Records and Research Information Section of the former Mineral Resources Division, the Library, and the Draughting Division.

The facilities of the Ore Dressing and Metallurgical laboratories were pressed to the limit to meet requests from the industry for assistance.

The Industrial Minerals Division continued to assist the development of Canada's industrial minerals, through the publication of reports, the preparation of many memoranda in reply to inquiries, and by personal conferences with engineers and representatives of capital seeking opportunities for investment.

The Fuels Division continued its laboratory studies and researches on Canadian coals and cokes, and natural gas and petroleum products, as a means of assistance in extending the home market for Canadian fuels.

DISTRIBUTION OF PUBLICATIONS

During the fiscal year, 35,607 copies of the Bureau of Mines' reports, memorandum series, lists of mines, metallurgical works, etc., were distributed; 60,330 pages were mimeographed, and 22,000 notification cards were sent out.

ECONOMICS DIVISION

Brief reviews for 1935 of some sixty-one mineral products were compiled and printed for distribution, both as separates, and in book form. The following reports and lists were also published: Petroleum Fuels in Canada (Deliveries for Consumption Calendar Year 1934); L'Or au Canada, 1935; List of Milling Plants in Canada: Part I, Metallic Ores; List of Metallurgical Works in Canada: Part I, Iron and Steel; and List of Metallurgical Works in Canada: Part II, Non-Ferrous and Precious Metals. Manuscripts for a number of newsletters and articles were prepared for publication in the technical press of Canada, Mexico, and Great Britain.

During the latter part of the year, in particular, there was a notable increase in requests for information on specific mining companies and mining properties, many of them being from the United States.

A. H. A. Robinson was occupied mostly in the preparation of articles, and memoranda, and in answering correspondence. He held a number of conferences with officers of the Income Tax Branch of the Department of National Revenue, and assisted in draughting regulations for an amendment to the Income War Tax Act which provides for the exemption of certain metalliferous mines from the operation of the Act. He spent about two months in an inspection of gold developments in British Columbia.

John Casey continued the annual survey of fuel oil used for all purposes in Canada. He made a similar survey of bunker fuels used in Quebec, Ontario, and Manitoba, and prepared a tabular statement for 1935. He visited all peat and moss bogs being worked in Ontario and Quebec, and newly erected oil refineries in the Prairie Provinces. He revised the "List of Coal Mines in Canada," and prepared a number of analytical tables for special purposes. Tabulations and charts dealing with the Trade of Canada from 1920 to 1936 are being prepared for the coming Economic Conference.

A. Buisson was engaged chiefly in office work in the Records Section, which included the preparing of reviews for the press; the compiling of lists of milling plants and metallurgical works; and the preparing of special memoranda and tabulations on various mining subjects. He made an inspection of mineral developments in western Ontario and southeastern Manitoba.

E. H. Wait was engaged in compiling records of mining companies, and in answering inquiries. Along with G. S. Hume, of the Geological Survey, and P. V. Rosewarne, of the Division of Fuels, he prepared a paper on "Petroleum and Natural Gas in Canada, 1933 to 1936", to be presented at the World's Petroleum Congress in Paris in 1937.

The Draughting Section completed the following work:

Fourteen maps for reproduction, and 131 charts, graphs, and drawings. Thirty-six special type headings were drawn in colour for new departmental stationery.

Prepared twelve charts, including 85 hand-coloured copies, and brought up to date 20 other charts for the Dominion Fuel Board.

Made 2,380 prints on the Rectigraph machine.

Made 328 negatives, black and white, and blueprints on the blueprint machine.

Filed 215 halftone blocks and zinc cuts.

Accessions to the Library

Books (by purchase)	248
Books (by gift)	58
Books and bulletins added to the circulating division	68
Canadian Government documents (by exchange and gift)	1,615
British and Foreign Government documents (by exchange and gift)	1,027
Scientific societies' bulletins, proceedings, and transactions (by exchange and gift)	1,560
Trade catalogues (by gift)	298
Periodicals and continuations subscribed for	233
Annuals, continuations, and periodicals (by gift)	517
Volumes bound	217
Recorded loans	3,311

METALLIC MINERALS DIVISION

The rise in the prices of base metals resulted in renewed interest in the re-opening of several base metal properties throughout the Dominion that have been idle for years. Many requests were received from the owners of promising base metal properties for test work on their ores.

Ninety-nine investigations were completed in the Ore Dressing and Metallurgical laboratories, 66 of them being on gold ores or their products, 18 on problems in ferrous metallurgy, and the remainder on silver, gold, copper, nickel, lead, zinc, titanium, barium, uranium, molybdenum, and other metals.

Ninety-nine reports of investigations were issued, 39 of which were prepared for publication, and the remainder were submitted to those interested. Tests were made on ores and minerals from every mining province in the Dominion.

Members of the staff visited mining areas in Quebec, Ontario, and British Columbia, where they investigated various problems of plant operation.

LABORATORY INVESTIGATIONS

Metallic Ores.—Investigations were carried out on the concentration and recovery of metals from the following ores:

- Gold ore from Bankfield Gold Mines, Limited, Geraldton, Ont. (665).
- Gold ore from Sturgeon River Gold Mines, Limited, Thunder Bay District, Ont. (666).
- Gold ore from Leitch Gold Mines, Limited, Thunder Bay District, Ont. (667).
- Gold ore from Darwin Gold Mines, Limited, Michipicoten, Ont. (668).
- Gold ore from the A-X Syndicate, Yellowknife River, N.W.T. (669).
- Gold-silver-bearing lead-zinc ore from Ymir Dundee Gold Mining Company, Limited, Ymir, B.C. (670).
- Arsenical-gold ore from the Whitewater mine, Taku River District, Atlin Mining Division, B.C. (671).

- Gold ore from Eric Canadian Mines, Limited, Hedlund property, Matachewan, Ont. (672).
 Barite tailing from Kamloops Homestake Mines, Limited, Jamieson Creek, Kamloops Mining Division, B.C. (673).
 Lead ore from Consolidated Lead Mines, Limited, Summerville Township, Victoria County, Ont. (674).
 Arsenical-gold ore from Flin Flon Mining Syndicate, Flinflon, Man. (675).
 Gold ore from Granada Gold Mines, Limited, Rouyn, P.Q. (676).
 Gold ore from Bidgood Kirkland Gold Mines, Limited, Lebel Township, Kirkland Lake, Ont. (677).
 Gold ore from Delnite Mines, Limited, Deloro Township, Porcupine, Ont. (678).
 Gold ore from Morris Kirkland Gold Mines, Lebel Township, Kirkland Lake, Ont. (679).
 Gold ore from Jowsley Island Gold Mines, Limited, Gods Lake area, Man. (680).
 Gold tailing from Lebel Oro Mines, Limited, Long Lake, Sudbury area, Ont. (681).
 Gold ore from Bilmac Gold Mines, Limited, MacMurchy Township, West Shiningtree, Ont. (682).
 Silver mill tailing and concentrate from Eldorado Gold Mines, Limited, Echo Bay, N.W.T. (683).
 Gold ore from Knee Lake Gold Mines, Limited, Gods Lake area, Man. (684).
 Gold ore from Michipicoten Gold Mines, Limited, Michipicoten area, District of Algoma, Ont. (685).
 Gold ore from Granite Poorman gold mine (Livingstone Mining Company, Inc.), Taghum, B.C. (686).
 Gold ore from the Pugsley mine (Surf Inlet Consolidated Gold Mines, Limited), Princess Royal Island, B.C. (687).
 Copper-nickel ore from B.C. Nickel Mines, Limited, Choate, B.C. (688).
 Arsenical-gold ore from Spirit Lake Gold Mines, Limited, Spirit Lake, Patricia District, Ont. (689).
 Gold-bearing mill tailing, Bralorne Mines, Limited, Bridge River District, Bralorne, B.C. (690).
 Gold ore from Dwyer Elbow Lake Mining Syndicate, Limited, Elbow Lake, Man. (691).
 Gold-silver ore from Berens River Mines, Limited, Favourable Lake, Patricia District, Ont. (692).
 Gold ore from Leitch Gold Mines, Limited, Sturgeon River area, Thunder Bay District, Ont. (693).
 Gold ore from Sigma Mines, Limited, Bourlamaque Township, Abitibi County, P.Q. (694).
 Flotation concentrate from Beattie Gold Mines, Limited, Duparquet, P.Q. (695).
 Flotation concentrate from Beattie Gold Mines, Limited, Duparquet, P.Q. (696).
 Gold ore from the Sunbeam property, near West Hawk Lake, southeast Man. (697).
 Gold ore from Madsen-Red Lake Gold Mines, Limited, Red Lake area, Ont. (698).
 Gold ore from Gold Eagle Gold Mines, Limited, Red Lake area, Patricia District, Ont. (699).
 Gold ore from Elora Gold Mines, Limited, Goldrock, Kenora Mining Division, Ont. (700).
 Gold ore from Nugold Mining Corporation, Limited, Blockhouse, N.S. (701).
 Gold ore from Young-Shannon Gold Mines, Limited, Gogama, Ont. (702).
 Gold ore from Federal Gold Mines, Limited, Bridge River, B.C. (703).

Experimental tests were made also on the following, and reports were issued to those directly interested:

- Gold ore from the Dominion mine (Lake Thomas Syndicate, Limited), Waverley, N.S.
 Silver-bearing lead-zinc ore from Invermay Annex Mining Company, Limited, Skagit River area, near Hope, B.C.
 Gold-bearing concentrate from Gillies Lake Porcupine Gold Mines, Limited, Tisdale Township, Porcupine, Ont.
 Gold ore from mining claim E-237, Little Turtle Lake, Fort Francis Mining District, Ont.
 Zinc ore from the Enterprise mine, Lennox-Addington County, Ont.
 Placer gold from Winfield Placers, Kelowna, B.C.
 Gold ore from Babine Gold Mines, Limited, Dome Mountain, Smithers, B.C.
 Gold pulp from Macassa Mines, Limited, Kirkland Lake, Ont.
 Uranium product, Eldorado Gold Mines, Limited, Port Hope, Ont.
 Gold ore from Sachigo River Exploration Company, Limited, Sachigo River area, Patricia District, Ont.
 Gold ore from Neswaba Gold Syndicate, Walls Township, Oba District, Ont.
 Gold concentrate from Wendigo Gold Mines, Limited, Lake of the Woods District, Ont.
 Gold ore from Salmon River District, Halifax County, N.S.
 Gold ore from Diana Gold Mines, Limited, Rice Lake District, Man.
 Titaniferous iron sand from Thunder Bay District, Fort William, Ont.
 Gold ore from Darwin Gold Mines, Limited, Michipicoten District, Ont.
 Arsenical-gold ore from the Wisconsin claims, Hennessey Mountain, Nelson Mining Division, B.C.

Gold concentrate from Perron Gold Mines, Limited, Abitibi County, P.Q.
 Tungsten gold-bearing ore from Indian Path Mines, Limited, Lunenburg County, N.S.
 Gold ore from claim No. 2230, south shore Vermilion Lake, Kenora District, Ont.
 Gold-silver tailing from Kamloops District, B.C.
 Gold ore from Bayonne Consolidated Mines, Limited, Bayonne, B.C.
 Gold ore from Holdsworth Mining Company, Limited, Township 28, Range 24, Algoma West, Ont.
 Gold-bearing flotation concentrate from Minto Gold Mines, Limited, Bridge River District, B.C.
 Arsenical-gold ore from the Cameron Island mine (Duport Mining Company, Limited), Lake of the Woods District, Ont. (Shoal Lake).
 Gold-silver-lead-zinc ore from Welldun Mining, Milling, and Power Company, Limited, Stewart, B.C.
 Gold ore from McLeod-Cockshutt Gold Mines, Limited, Little Long Lac area, Thunder Bay District, Ont.
 Gold ore from Old Diamond Syndicate, Madoc Township, Hastings County, Ont.
 Gold ore from Craig Gold Mines, Limited, Tudor Township, Hastings County, Ont.
 Gold ore from Argosy Gold Mines, Limited, Casummit Lake, Patricia District, Ont.
 Arsenical-gold ore from the "Wisconsin Group" mineral claims, Hennessey Mountain, Nelson Mining Division, B.C.
 Gold ore from Amca Mines, Limited, Matheson, Garrison Township, Timiskaming County, Ont.
 Copper-nickel ore from Coniagas Mines, Limited, Empire Lake, Lake of the Woods District, Ont.
 Molybdenite-bearing rock from Meach Lake, Hull County, P.Q.
 Gold ore from Proprietary Mines, Limited, Larder Lake, Ont.
 Gold ore from B. P. Exploration Company, Limited, Thurlow Island, B.C.
 Lead ore from Delhi Temagami Gold Mines, Limited, Timagami, Ont.
 Mill tailing from Ensign Gold Mines, Limited, Webbwood, Ont.
 Flotation tailing from Hedley Mascot mine, Hedley, B.C.
 Silver ore from Eldorado Gold Mines, Limited, Port Hope, Ont.
 Gold ore from Central Patricia Gold Mines, Limited, Pickle Crow, Ont.
 Gold ore from the old Bathurst mine, Red Lake District, Ont.

A report was issued on the Harrison Chemical process for the extraction and recovery of gold from ores, and another on the Vandercook Metal Separation process for the regeneration of cyanide solutions.

Ferrous Metallurgy.—This work included the following investigations:

- The examination and testing of steel bars from the Naval Service, Department of National Defence, Ottawa, Ont.
- The low-temperature reduction of the nickel-chrome magnetite contained in the asbestos ore of Canadian Johns-Manville Company, Limited, Asbestos, P.Q.
- The low-temperature reduction of nickel-chrome magnetite containing the asbestos tailing from Canadian Johns-Manville Company, Limited, Asbestos, P.Q.
- The composition and microstructure of a manganese steel ball mill liner.
- An examination of a broken eye bar head in the anchorage link of leaf No. 4, Lock No. 1, Welland ship canal.
- An examination of some galvanized bolts for the Canadian Broadcasting Corporation, Ottawa, Ont.

Tests or metallographic studies were made also on screens from a Foudrinier machine, on an automotive thrust bearing, on several types of galvanized sheeting, and on tool, and other steels.

The officer in charge acted in an advisory capacity for the Department of National Defence, and much of his time was given to special works for that Department.

Research Chemical Laboratory.—Special investigations were made on the treatment of refractory ores and concentrates, and further work was carried out on the treatment of the plant residue, containing refractory silver, from Eldorado Gold Mines' radium extraction plant, Port Hope, Ont.

A number of ores from Great Bear Lake area, Northwest Territories, and samples from many other parts of Canada were measured for radioactivity.

In the mineragraphic laboratory, 915 polished sections of ores and mill products, and 14 thin sections of non-metallic minerals were prepared for microscopic examination.

Work was completed and reports were made on 71 investigations on the microscopic examination of ores and mill products, 67 of which were in connection with the test treatment. The results were included in the reports of investigations. Four special studies of ores and mill products submitted for microscopic examination were completed and reported on, along with 46 spectrographic analyses, 3 of which had reference to the work of the Department.

Chemical Laboratories.—The Booth Street chemical laboratories received 5,700 samples, on which 25,859 separate determinations were made, an increase of 76.5 per cent over the previous year. The Sussex Street chemical laboratories received 1,720 samples, including 395 mine air samples.

INDUSTRIAL MINERALS DIVISION

The Division has three sections, one dealing with industrial, or non-metallic, minerals, their economic characteristics, mining, marketing, and uses; another with the crushing, grinding, and purification (milling) of the minerals; and the third with problems of processing in the manufacture of mineral products, particularly ceramic products.

Many tests were carried out on mineral products, particularly on refractories, as a service to Government departments in the purchase of supplies. It may be noted that other Government departments and commissions have been seeking advice on minerals and mineral products to an increasing extent.

H. S. Spence investigated various industrial and rare-element minerals. He made a field study of mica, feldspar, beryl, talc and soapstone, fluor spar, phosphate, graphite, nepheline, and radioactive mineral developments in Ontario and Quebec. He visited talc mines and mills in New York and Vermont, to obtain information on current mining and milling practice; and made a trade survey of industries using bentonite and similar clays for bleaching, bonding, and emulsifying, to obtain data on the use of such clays by Canadian plants.

L. H. Cole continued his work on granites and related crystalline rocks as used in structural work, or for monuments. He made a survey of current developments in industries producing granite, gypsum, salt, and silica in Nova Scotia, New Brunswick, and parts of Quebec.

R. H. Picher prepared for publication a detailed report on road materials of the Maritime Provinces. He consulted highway officials in Quebec, Ontario, and three states of the United States on the stabilization of road sub-grades, base courses, and surfaces, and noted methods employed and examined results obtained, with particular reference to the use of sodium or calcium chloride for stabilizing road surfaces in Canada. He supervised the mechanical testing of building brick, and assembled the test results for a report.

H. A. Leverin was employed chiefly on the Industrial Waters investigation. His field work covered the Maritime Provinces, the area east of Rivière du Loup in Quebec, and between Georgian Bay and Sault Ste. Marie in Ontario. He collected and analysed 77 samples of municipal waters and 26 samples of surface waters of industrial importance, and obtained information from industrial plants as to the quality of water in its relation to manufacturing processes; and also analysed a number of waters and brines sent to the Department.

M. F. Goudge continued his work on limestone, lime, marble, magnesite, rock wool, and whiting substitute. He made a field survey of recent developments in the limestone industries in southern and eastern Ontario, the results of which are included in the report on the limestones of Ontario. He made laboratory investigations on rock and slag wool, to obtain technical information for the use of Canadian manufacturers of these products. Subsequent to his participation in the Vimy Pilgrimage, he spent four weeks studying the lime, marble, whiting, slag wool, and glass wool industries in Great Britain, France, Belgium, and Germany.

V. L. Eardley-Wilmot continued his investigations of roofing granules and slate, sand-blasting materials and other abrasives, mineral fillers, and diatomite and molybdenite, which included tests on the sand-blasting qualities of garnet and quartz sand samples, and crushing tests on Canadian slates for roofing granule use. He also supervised the production of a series of motion picture films.

C. H. Freeman tested samples of moulding sands submitted by the public; studied the possibility of producing synthetic moulding sands with the use of domestic clays; and made a survey of the industrial mineral resources of the Ottawa area.

INDUSTRIAL MINERALS MILLING LABORATORIES

R. K. Carnochan and R. A. Rogers were engaged on the following investigations:

- Grindability of samples from Consolidated Sand and Gravel, Limited, Toronto, Ont.
- Crushing tests of slate from Kingsbury, and Ste. Hénédine, P.Q., for making roofing granules.
- Concentration tests on asbestos tailing from Canadian Johns-Manville Company, Limited, Asbestos, P.Q.
- Gypsum from Island Point, Boularderie Island, Cape Breton, N.S.
- Gypsum from White Elephant quarry of Gypsum, Lime, and Alabastine, Canada, Limited, Gypsumville, Man.

They also carried out minor tests on sandstone, quartz, silica sand, blasting sand, clay, graphite, mica, talc, garnet, spodumene, nepheline, syenite, beryl, calcite, diatomite, shale, andalusite, gypsum, etc., and prepared several lots of silica sand from sandstone for experiments at the Central Experimental Farm, and special blasting sand for the Weights and Measures Branch, Department of Trade and Commerce.

CERAMICS LABORATORIES

Physical Properties of Canadian Bricks.—Determinations of the dimensional variations, volumes, absorption properties, transverse and compressive strengths, hardness and toughness, change in strength due to ten cycles of freezing and thawing, and freezing tests to destruction, have been completed on all bricks collected prior to 1936, and two interim reports were issued to the manufacturers concerned. Samples from the remaining plants in western Ontario and from the western provinces were collected.

Sodium Uranate.—Samples of sodium uranate were tested for Eldorado Gold Mines, Limited, to assist the company in standardizing this product to yield uniformly acceptable material for ceramic glazes.

Other Investigations.—The laboratory work on clay as a plasticizer in masonry mortars was completed.

Thirty samples of plastic refractories and high-temperature cements were tested; and the testing of commercial firebricks was continued. This work was intended primarily as an aid to other departments, and as a guide in framing purchasing specifications.

Means of improving the quality of firebrick for a large Canadian producer were investigated.

The preparation of a report "Altering the Properties of Clays and Shales," which will include, also, data obtained from previous allied investigations, was completed.

Petrographic work for the National Research Council was carried out on a phase of the investigation of magnesian products. Other petrographic examinations and determinations of various ceramic materials were made also.

Experiments and trial-runs were made for three brick and tile manufacturers with the large de-airing auger machine, to determine the advantages that might be expected by the adoption of the de-airing process.

Pilot tests on the production of dry-press brick for one manufacturer resulted in the installation of this process by the manufacturer.

Tests were made on a large number of samples of clay, shale, mineral pigments, various ceramic raw materials, and finished ceramic products.

DIVISION OF FUELS

B. F. Haanel visited Western Canada, Montreal, the Bureau of Mines in Washington, and other places to discuss problems under investigation by the Department in the treatment and utilization of Canadian coal. He presented a paper to the World Power Conference in Washington, and prepared another, in co-operation with R. E. Gilmore, for the 1937 meeting of the Engineering Institute of Canada.

R. E. Gilmore supervised and correlated the work of the different sections. He represented the division at meetings of the Coal Classification committees of both Canada and United States. He acted as chairman of the sub-committee of the American Society for Testing Materials dealing with the development of standard laboratory methods for testing the friability of coal, and also participated in the work of the "Grindability" committee, which is interested in the comparative pulverizing characteristics of coal.

COAL CLASSIFICATION AND SPECIFICATIONS

Specifications submitted by the American Sectional Committee on Classification of Coal, for the boundary lines between the common banded and canneloid types of coals were found to be generally acceptable for Canadian coals. Tentative specifications for "Drop shatter" and "Tumbler" test methods for testing the friability of coals, developed in the Fuel Research laboratories, were submitted to the American Society for Testing Materials for tentative adoption. Proposed specifications of the A.S.T.M. sub-committee on coal sampling were examined, and suggestions for revision were offered.

COAL ANALYSES AND CHEMICAL INVESTIGATIONS

Chemical and physical analyses were made of 1,400 samples of solid fuels, comprising principally coals, cokes, peats, oil-shales, and gases; and low-temperature carbonization tests, and determinations were made of the caking, or agglomerating properties of coals.

Laboratory investigations on coals were carried out on: changes in composition, and size of coal and coke samples stored in the open; changes of moisture in stove, and chestnut size anthracite during storage under cover; the respective friabilities of Welsh and German anthracites; agglomerating properties of Welsh semi-anthracite, in co-operation with the Department of National Revenue; variations in the small jar tumbler friability test; accuracy of apparatus used for riffing coal samples; "capacity" moisture of certain Canadian and American coals; moisture changes in powdered, low-rank coal under different storage conditions; determination of volatile matter in coal at temperatures above or below the usual 950°C.; and effects of acids formed in a bomb calorimeter upon the accuracy of determinations.

PURCHASE OF COAL BY SPECIFICATION

Samples submitted by the Department of Pensions and National Health were analysed, and the results were used by that Department in its purchase of coal.

COMBUSTION ENGINEERING INVESTIGATIONS

Three series of domestic furnace tests on Canadian and imported fuels used in Canada were under way. The first, a continuation of work from the previous year, consisted of twenty-seven tests on various fuels and fuel mixtures in a domestic hot-water boiler installation fitted with automatic "blower" equipment; and the second of four tests specially made on Nova Scotia bituminous coals in the same installation, fitted with automatic underfeed stoker equipment. The third, which is still in progress, has so far comprised ten tests on various coal and coke samples, hand-fired in the hot-water boiler installation. Reports on the first and second series of tests have been completed. The collecting of data in respect to the degree-day heating load for Ottawa, and the gas consumption for the heating of five residences was continued. A survey was made also of peat activities in Canada.

COAL BENEFICIATION, CARBONIZATION, AND BRIQUETTING

In the Carbonization Section, tests were made on the washing, carbonizing, and briquetting characteristics of coals, the physical and chemical survey of screened sizes of coal from eight operating collieries, including two in the United States, owned and operated by the Canadian National Railways.

The two small coke oven units were used in determining the coking characteristics of Canadian coals. This work included tests at mid-temperature on certain coals not readily acceptable to the high-temperature industry, to determine the possibility of the production of an acceptable domestic coke. The results indicated that certain coals from New Brunswick were highly suitable. During the operation of these ovens the Lehmann mill was used to determine the possibility of its being used to separate coals into their petrographic constituents. A large-scale test made at the plant of the Hamilton By-Product Coke Ovens, Limited, to determine the possibility of using Canadian coal as a blend with the imported coals used at the plant, indicated that Canadian coal can be employed to an extent of about 35 per cent.

An investigation was started early in 1937 of difficulties experienced by the Winnipeg Electric Company in the coking of Michel (British Columbia) coal. Large-scale tests were made at the plant, conditions at the Michel collieries were studied, and representative samples from the collieries were collected for laboratory investigation.

Briquetting studies on briquetting coal by impact were continued; and an investigation on the changing of the fusion temperature of the ash of certain low fusion ash coals by the addition of molybdenum sulphide, was made. Thirteen reports, and a bulletin on briquetting, were issued.

PETROLEUM OILS, BITUMEN, NATURAL GAS, AND EXPLOSIVES

Petroleum and natural gas developments in Alberta were studied; and thirty samples of natural gas were obtained from southwestern Ontario, in continuation of a survey of natural gas in Canada. An improved apparatus was designed for the determination of helium, and another for estimating the oxidation of lubricating oils was tested. A report was published on the analyses of some fuel oils sold in Canada; the annual gasoline survey for Canada was made; and progress in the commercial development of bituminous sand deposits in northern Alberta was investigated. Two technical papers were prepared on petroleum in Canada, one for the Third World Power Conference, and the other for the Second World Petroleum Congress. The United States Bureau of Mines'

experiment station at Pittsburgh, Pa., was visited, with special reference to the work of its explosives division. Particular mention may be made of the contribution of the section to the work of the Canadian Government Purchasing Standards Committee, and to the National Conference on the Regulation and Control of Flammable Petroleum Products. Information was supplied a special committee appointed to investigate the claims put forward for a certain explosive. The chief of the section acted as referee in the matter of the sulphur content of natural gas after purification. Routine analyses were made as required on natural and manufactured gases, motor fuel oils, lubricating oils, crude petroleum, bitumen, hydrogenation oils, and explosives.

Oxidation tests were made on lubricating oils in continuation of a study of the reclamation of used motor oils. Flotation tests were made on oil-shale.

HYDROGENATION

The experimental investigation of hydrogenation as applied to Canadian raw materials was continued, the results of which, using the semi-continuous apparatus, indicate that coals closely associated in rank may yield widely differing results under the same conditions of hydrogenation. The investigation in which the large laboratory-scale continuous apparatus was used to determine the effect of changing conditions of operation was completed. A series of tests was made later in the same apparatus on a coal from Crowsnest Pass area, British Columbia.

ROUTINE CHEMICAL LABORATORY WORK

As is shown below, 1,937 samples of solid, liquid, and gaseous fuels, and explosives were examined.

		Number of Samples	Per Cent of Total
1	Samples pertaining to: Fuel testing investigations		
	Solid fuels.....	1,200	62.0
	Coals.....	1,020	
	Cokes, chars, and other solid fuels.....	180	
	Liquid fuels.....	234	12.1
	Gasolines, and other motor fuels.....	192	
	Lubricating oils.....	18	
	Crude and miscellaneous oils.....	24	
	Gases resulting from investigations.....	57	2.9
	Natural gas.....	30	1.5
2	Samples from other divisions of the Department:		
	Explosives Division.....	153	7.9
	Other Bureau of Mines' divisions.....	15	0.8
	Bureau of Geology and Topography.....	5	0.2
3	Samples from outside the Department:		
	Department of Pensions and National Health—coals.....	67	3.5
	Departments of National Defence and Marine—coals, fuel oils, and lubricating oils.....	37	1.9
	Other Government departments—coals and oils.....	38	2.0
	Provincial Governments—coals and oils.....	5	0.2
	Commercial firms—coals, cokes, gasolines, oils, and natural gas.....	65	3.4
	Private individuals—coals, peats, and oils.....	31	1.6
	Total.....	1,937	100.0

EXPLOSIVES DIVISION

FACTORIES

Nine licensed explosive factories are in operation, the same as in 1935. The manufacturers of fireworks and explosives have continued to co-operate with the Division. No accidents occurred in the factories that involved injury to personnel, or material damage to property.

The management of the high explosives factories has decided to install a new, and efficient ventilating system in all buildings where nitroglycerine is made, or is combined with other materials.

Output of high explosives showed an increase of 15 per cent over the previous year, but a decrease was reported in the quantity of gunpowder manufactured. Output of fireworks, and goods of a similar nature showed a slight increase. Twenty visits of inspection were made by the Division.

MAGAZINES

Regulations covering the storage of ammunition and small quantities of explosives have been well observed.

IMPORTATIONS

Imports of explosives, particularly of nitro cotton, used in the manufacture of lacquers, and of nitro compounds used in making explosives, showed an increase over the previous year, but there was a further decline in the imports of liquid nitro compounds used in the oil fields. Importation permits totalled 475, and special importation permits 34, or a total increase of 34 over the previous year.

ACCIDENTS

The Explosives Act does not cover the use of explosives, but statistics of the accidents arising from their use are collected. Investigations are made of the causes of accidents, and the results are published, with the object of preventing their recurrence.

A total of 129 accidents occurred in the handling of explosives in mines, quarries, and elsewhere, resulting in the death of 29 persons and in injuries to 133 others. No accidents occurred in the manufacture, storage, and conveyance of explosives.

Playing with detonators and other explosives resulted in 2 deaths, and injuries to 44, nearly all children of school age. Further details of these accidents, and an analysis of their probable causes, appear in the Annual Report of the Division.

DOMINION FUEL BOARD

The Dominion Fuel Board is a division of the Mines and Geology Branch. The changes that have taken place in the work of the Board since its inception are indicated in the brief review that follows.

As originally constituted by Order in Council in 1922, the Board consisted of six officers, from various Government departments, having a knowledge of Canada's fuel problems. The Board's duties were to investigate the fuel supply problems of the country, and to advise the Government thereon; and particularly to extend and correlate the various investigations then in progress so that effective solutions might be arrived at quickly.

The introduction of coal subventions marked an important change in the functions of the Board. Prior to the adoption of this policy, which has been extended by subsequent Governments to include all coal-producing provinces, the work of the Board had been mainly of an investigative and advisory nature. With the administration of the subventions added to its duties it became immediately necessary for the Board to increase its permanent staff. The effect of the coal subvention policy upon employment is shown in the following table:

Fiscal years	Net Tons of Coal Moved under Assisted Rates	Cost of Assistance		Man-days Work Represented by Assisted Tonnages
		Total	Per Ton	
		\$	\$	
1928-29.....	251,072	463,664	1.85	111,200
1929-30.....	347,947	382,342	1.10	161,600
1930-31.....	560,939	510,308	0.91	249,800
1931-32.....	795,302	631,169	0.80	331,000
1932-33.....	1,155,042	994,854	0.86	493,000
1933-34.....	2,101,124	2,330,435	1.11	860,000
1934-35.....	2,255,428	2,008,359	0.89	925,000
1935-36.....	2,241,865	2,005,084	0.89	967,000
1936-37.....	2,356,679	2,214,408	0.96	971,000

The amount of assistance payable is authorized by Order in Council, and changes are made from time to time to meet changing competitive conditions. In general, it may be assumed that the coal moved under assistance has largely displaced equivalent tonnages of coal formerly imported.

In addition to subvention administration, the Board is responsible for the supervision and inspection of coke plants operating under the Domestic Fuel Act, which assistance is designed to encourage the use of Canadian coal for the manufacture of coke. By-product recovery coke plants in Halifax, Quebec, and Vancouver, which operate under the Act, were inspected as required.

The annual survey of operating costs and revenues of Canadian coal mines was continued, and the results were published in a chart showing, in comparative form, the data collected during the past five years. These surveys have proved of steadily increasing value to the Government in its consideration of assistance policies, and to operators in maintaining a check on their operating costs.

Surveys were made of the fuel consumption of the pulp and paper industry, and also of the coke and gas industry. The summaries now available clearly indicate the changing fuel requirements of these large coal consumers.

Many tabulations and reports were prepared for the use of the Royal Commission appointed on June 3, 1936, to investigate conditions relating to the importation and distribution of anthracite coal in Canada. A survey was made of the domestic fuel consumption in Eastern Canada, the results of which were reported to the Commission. With the co-operation of the anthracite producers in the United States, much information was obtained on sources of supply and regional distribution.

As in previous years, a close study was maintained of the general situation in the Canadian coal industry; and it may be noted that the proportion of the total coal consumption of Canada supplied by our own mines has increased from 42 per cent in 1925 to 52 per cent in 1936. This diversity of supply in the domestic fuel market has reduced our dependence upon any one fuel, and at the same time gives assurance of a fair price and a stable market. Anthracite is now imported in quantity from Wales, Scotland, Germany, Belgium, Netherlands, China, and Indo-China, as well as from the United States.

PUBLICATIONS

MINES AND GEOLOGY BRANCH

English Publications

Report No.

- 2423 *The Future of Canadian Mining.*
Annual Report for the Fiscal Year ending March 31, 1936.

French Translations

- 2431 *L'Avenir de l'industrie minière au Canada.*
Rapport annuel pour l'année financière se terminant le 31 mars 1936.
List des françaises publications de la Commission géologique et du Musée national du Canada.

BUREAU OF GEOLOGY AND TOPOGRAPHY

English Publications

- 2410 Memoir 187. *Rae to Great Bear Lake, Mackenzie District, N.W.T.*—by D. F. Kidd.
2413 Memoir 189. *Carmacks District, Yukon*—by H. S. Bostock.
2414 Memoir 190. *Geology and Mineral Deposits at the Mine of B.C. Nickel Mines, Limited, Yale District, B.C.*—by H. C. Horwood.
2415 Memoir 191. *Lode Gold Deposits of Ymir, Nelson Area, B.C.*—by W. E. Cockfield.
2416 Memoir 192. *Gold Occurrences of Ontario East of Lake Superior*—by E. D. Kindle.
2417 Memoir 193. *Mining Industry of Yukon, 1935*—by H. S. Bostock.
2418 Memoir 194. *Eagle-McDame Area, Cassiar District, B.C.*—by G. Hanson and D. A. McNaughton.
2419 Memoir 195. *Mineral Deposits in Renfrew County and Vicinity*—by B. C. Freeman.
2420 Memoir 196. *Geology of Lake Athabaska Region, Sask.*—by F. J. Alcock.
2421 Memoir 197. *Little Southwest Miramichi-Sevogle Rivers Area, N.B.*—by E. W. Shaw.
2422 Memoir 198. *Geology of Woodstock Area, Carleton and York Counties, N.B.*—by J. F. Caley.
2424 Memoir 199. *Lake Etchemin Map-Area, Que.*—by Carl Tolman.
2425 Memoir 200. *A Reconnaissance of Pelly River Between McMillan River and Hoole Canyon, Yukon*—by J. R. Johnston.
2426 Memoir 201. *Geology and Mineral Deposits of Ville Marie and Guillet (Mud) Lake Map-Areas, Que.*—by J. F. Henderson.
2427 Memoir 202. *Contributions to the Study of the Ordovician of Ontario and Quebec*—by A. E. Wilson, J. F. Caley, J. C. Sproule, V. J. Okulich.
2429 Memoir 203. *Geology of Teslin-Quiet Lake Area, Yukon*—by E. J. Lees.
2432 Memoir 204. *Gold-bearing Deposits on the West Coast of Vancouver Island Between Esperanza Inlet and Alberni Canal*—by M. F. Bancroft.
2433 Memoir 205. *Mineral Resources of Terrace Area, Coast District, B.C.*—by E. D. Kindle.
2435 Memoir 207. *Cranbrook Map-Area, B.C.*—by H. M. A. Rice.
List of Publications of the Geological Survey and National Museum of Canada.
List of Published Maps (1917-1935 inclusive).

French Translations

- 2411 Mémoire 185. *L'étendue de la carte du lac Chibougamau, Qué.*—par J. B. Mawdsley et G. W. H. Norman.

Mimeographed Reports

- 36-11 *Guillet (Mud) Lake Area, Témiscamingue County, Que.*—by J. F. Henderson.
36-12 *Oil and Gas Possibilities Along Milk River, Southeastern Alberta*—by L. S. Russell.
36-14 *Ogilvie Sheet, Yukon*—by Topographical Division.
36-15 *Keithley Creek Map-area, Cariboo District, B.C.*—by A. H. Lang.
36-16 *Geological Map of Great Slave Lake, East Arm (East and West sheets), N.W.T.*—by C. H. Stockwell.
36-17 *Mineral Resources of Terrace Area, Coast District, B.C.*—by E. D. Kindle.
36-18 *Stevenville Sheet, Alberta*—by Topographical Division.
36-19 *Plaster Rock Area, N.B.*—by Bruce Rose.

PUBLICATIONS—Continued

Report No.

- 36-20 *Mineral Resources Along the Canadian National Railway, between Prince Rupert and Prince George, B.C.*—by F. A. Kerr.
 36-21 *Manitoulin Island, Manitoulin District, Ont.*—by M. Y. Williams.
 36-22 *Some Gravels and Sands in the Edmonton District, Alta.*—by R. L. Rutherford.
 37-1 *Pekisko Hills Area*—by G. S. Hume.
 37-3 *Goldfields Area, Sask.*—by H. C. Cooke.
 37-4 *Malartic Area, Abitibi County, Que.*—by H. C. Gunning and J. W. Ambrose.

French Translations

- 36-3 *L'étendue de la carte de Waswanipi (Qué.)*—par G. W. H. Norman.
 36-6 *L'étendue de la carte d'Opawica-Chibougamau (Qué.)*—par G. W. H. Norman.
 36-9 *Zone de Cadillac, de Pandora à Pan-Canadian (Qué.)*—par H. C. Gunning et J. W. Ambrose.
 36-11 *Etendue du lac Guillet (Mud) comté de Témiscamingue (Qué.)*—par J. F. Henderson.

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 767 *Natural Bonded Moulding Sands of Canada*—by C. H. Freeman.
 773 *Canadian Mineral Industry, 1935.*
 775 *Fuel Briquetting*—by R. A. Strong, E. Swartzman, and E. J. Burrough.

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- 770 *L'Or au Canada*—by A. H. A. Robinson.
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 768 *Les sables naturels de moulage au Canada*—by C. H. Freeman.

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65 *The Analyses of Some Fuel Oils Sold in Canada*—by P. V. Rosewarne and H. McD. Chantler.

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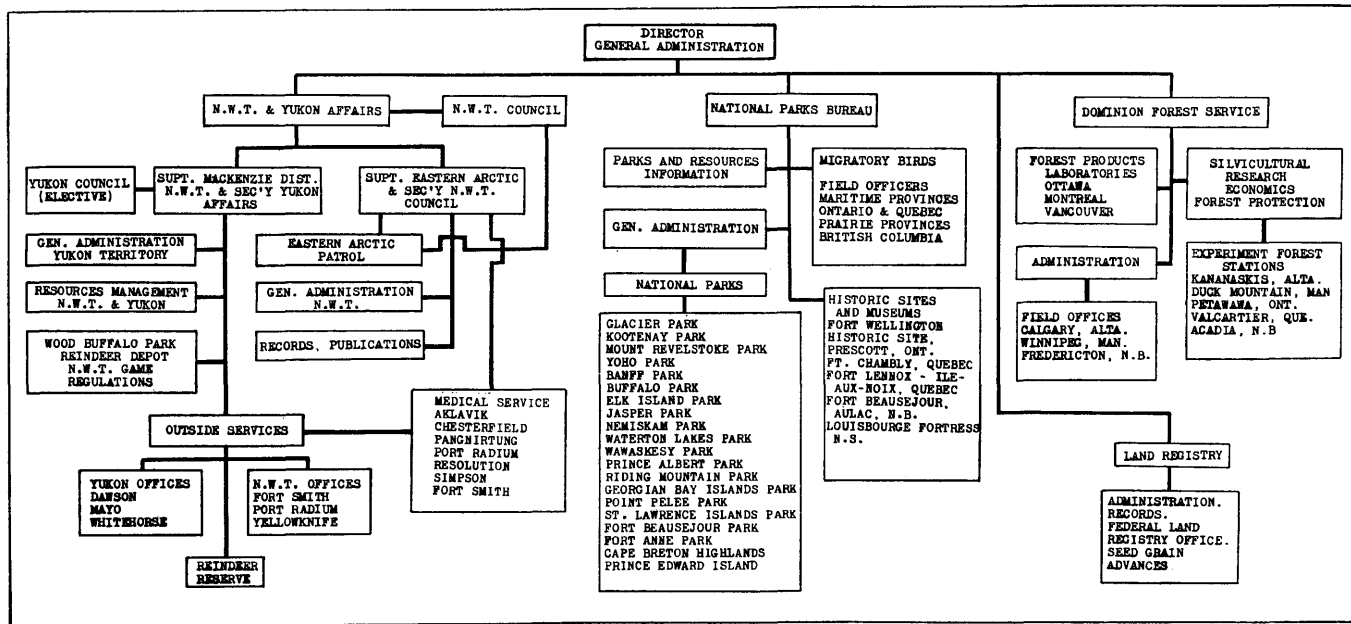
- 39 *Annual Report for the Calendar Year, 1935.*

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- 40 *Rapport annuel de la Division des Explosifs pour l'année civile, 1935.*

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Organization Chart, Lands, Parks, and Forests Branch.

LANDS, PARKS, AND FORESTS BRANCH

ROY A. GIBSON, DIRECTOR

The Lands, Parks, and Forests Branch administers the mineral, fur, and other natural resources of the Northwest and Yukon Territories, which Territories comprise approximately 40 per cent of the total area of the Dominion. The Branch deals also with any business arising from the local government of the two Territories. It administers the National Parks of Canada, gives a lead in the conservation of wild life, marks historic sites of national importance, and assists in the encouragement of tourist travel. It conducts scientific investigations relating to the safeguarding, management, and maximum utilization of the Dominion's forest resources, for which work it maintains forest experimental stations and forest products laboratories. The Branch also maintains a Federal Land Registry Office.

As is shown on the accompanying chart the Branch consists of four main divisions, viz.: Bureau of Northwest Territories and Yukon Affairs, Bureau of National Parks, Dominion Forest Service, and Federal Land Registry.

BUREAU OF NORTHWEST TERRITORIES AND YUKON AFFAIRS

NORTHWEST TERRITORIES

The Northwest Territories may be concisely defined as that portion of the mainland of Canada lying north of the Provinces of Manitoba, Saskatchewan, and Alberta, and east of Yukon Territory, all of the islands in Hudson and James Bays and in Hudson Strait, including Ungava Bay, and the vast Arctic Archipelago. The estimated total of land and freshwater areas of the Northwest Territories is 1,309,682 square miles. According to the official census of 1931 the population of the Northwest Territories totalled 9,723, classified as follows: Indians, 4,046; Eskimos, 4,670; and white inhabitants, 1,007.

The Northwest Territories Act (Chapter 142 R.S.C. 1927) provides for a Territorial Government composed of the Commissioner of the Northwest Territories, the Deputy Commissioner, and five Councillors, all appointed by the Governor General in Council. The Commissioner in Council has power to make ordinances for the Government of the Territories under instructions from the Governor General in Council or the Minister of Mines and Resources, respecting direct taxation within the Territories in order to raise revenue, etc., establishment and tenure of territorial offices and the appointment and payment of officers, maintenance of prisons, municipal institutions, licences, solemnization of marriages, property and civil rights, administration of justice, and generally all matters of a local or private nature in the Territories. The seat of Government is at Ottawa.

Council

Commissioner—Charles Camsell, C.M.G.

Deputy Commissioner—Roy Alexander Gibson.

Members of Council—Sir James MacBrien, K.C.B., C.M.G.; Austin Louis Cumming; Kenneth Robinson Daly; Dr. Harold Wigmore McGill, M.C.

Secretary—David Livingstone McKeand, M.C.

WORK OF COUNCIL

Five regular sessions of Council were held during the year and the more important matters dealt with were the following:

The Companies Repeal Ordinance and The Foreign Companies Repeal Ordinance were enacted to repeal The Companies Ordinance and The Foreign Companies Ordinance passed prior to 1898 and not workable under present-day conditions. The Small Debts Ordinance was enacted to provide legal means for the collection of a small debt at a reasonable cost. The Miners' Lien Ordinance was enacted so that persons performing work or supplying material in connection with a mineral claim or mine might be enabled to place a lien for the price of such work or material upon the product of the claim or mine and the interest of the owner.

The composition and itinerary of the annual Eastern Arctic Patrol were arranged.

Several applications for permits to make exploratory and scientific investigations in the Northwest Territories under the terms of the Scientists and Explorers Ordinance were considered.

In connection with medical services, Council recommended that a grant be made towards the rebuilding of a hospital at Aklavik which was destroyed by fire, also that a fixed revenue be granted the hospital at Chesterfield for one year.

Consideration was given to changes in the Northwest Territories Game Regulations, Council recommending the restoration of the bounty on wolves at a reduced rate; an amendment to the regulations to restrict the use of aircraft in connection with hunting and trapping; and the restriction of the use of snares for taking fur-bearing animals.

The following matters also received the consideration of Council and recommendations were made:

Improvements to Mackenzie River-Great Bear Lake transportation route; public welfare; education; old age pensions; waterpower development; the reindeer project.

A Public Administrator and a Stipendiary Magistrate were appointed for Keewatin and Mackenzie Districts, respectively; and appointments made from time to time of Notaries Public, Justices of the Peace, and Issuers of Marriage Licences were confirmed.

The Council adopted the following resolution:

"Resolved that a Humble Address be presented to His Majesty King George VI and to Her Majesty Queen Elizabeth to express the loyalty and devotion of the people of the Northwest Territories on the accession of Their Majesties to the Throne."

ADMINISTRATION

The administration of the various Acts, Ordinances, and Regulations pertaining to the Northwest Territories is supervised by the Director of Lands, Parks, and Forests Branch, who is also Deputy Commissioner. For purposes of departmental administration a Superintendent has been appointed for the Eastern Arctic and one for Mackenzie District. A Departmental Agent is stationed at Fort Smith, the first settlement reached by those entering the Mackenzie District from the south. This officer is also Superintendent of Wood Buffalo National Park, Dominion Lands Agent, and Mining Recorder, as well as Stipendiary Magistrate. A member of the Royal Canadian Mounted Police at Cameron Bay is Dominion Lands Agent, Mining Recorder, and Crown Timber Agent.

Medical Officers employed by the Department are stationed at Fort Smith, Resolution, Simpson, Good Hope, Aklavik, Cameron Bay (part time), Chesterfield, and Pangnirtung (Baffin Island). The Medical Officers make extensive patrols from time to time in their respective districts. The Medical Officer at Aklavik acts as Departmental Agent for the Lower Mackenzie and Western Arctic and also supervises the reindeer industry in Mackenzie River Delta.

HOSPITALS

Hospitals are maintained at principal centres throughout the Territories by the Anglican and Roman Catholic Missions with the assistance of the Dominion Government. During the year payments to these hospitals amounted to \$16,275 representing the maintenance and treatment of indigent whites, Eskimos, and half-breeds for a total of 6,510 days at the rate of \$2.50 per diem. In addition payment was made of the sum of \$1,889.50 for the maintenance of mental and other patients at points outside the Territories.

SCHOOLS

The Anglican and Roman Catholic Missions, assisted by grants from the Dominion Government, maintain day and boarding schools for native and white children in connection with their general mission work. Schools are conducted at all the principal mission centres in the Mackenzie Valley, and at all points where there are branches of the missions provision is made for the education of children of the district. The number of indigent children in the residential schools was 132, and 314 pupils attended the day schools. The sum of \$21,484.22 was expended for the assistance of schools during the year.

TRANSPORTATION

Access to the Northwest Territories may now be had by ocean steamer, by inland water navigation, and by aircraft. Flying is, of course, restricted during the break-up season in the spring, and the freeze-up in the autumn. The utilization of air transportation has been varied and widespread, and to its influence may be attributed a speeding-up of the administrative, industrial, and social activities of the Territories. Regular air-mail services to many northern points are maintained, wide areas have been explored for minerals, and lines of rapid transport of passengers and freight into many parts of the Territories established. By arrangement with the aerial transportation companies, practically any point in the Territories may be reached.

In view of the increase in the use of aircraft in the Territories in recent years the development of suitable landing facilities has received considerable attention. During the past year winter landing fields were improved at Resolution, Norman, Fort Smith, and Simpson, and seaplane bases at Fort Smith and Rae.

COMMUNICATION

The Northwest Territories and Yukon radio system is operated by the Department of National Defence through the Royal Canadian Corps of Signals (Permanent Force). The stations on this system are Edmonton, McMurray, and Chipewyan in Alberta; Fort Smith, Resolution, Outpost Island, Rae, Simpson, Norman, Cameron Bay, and Aklavik in the Northwest Territories; and Herschel Island, Dawson, Mayo, Whitehorse, and Burwash Landing in Yukon Territory. The Department of Transport operates wireless stations at Coppermine on Coronation Gulf; Chesterfield on Hudson Bay; and at Nottingham Island, Cape Hopes Advance, and Resolution Island in the Eastern Arctic.

Formerly mail was conveyed from Edmonton to Waterways, at the end of steel in Alberta, thence to nearby McMurray, and northerly from there by water during the season of navigation. Since November 1929, however, air mail service has been in operation during summer and winter. Illustrative of the extent of this service is the schedule which calls for eighty trips to serve Fort Smith; forty trips to Resolution; twelve trips to Hay River, Providence, Simpson, Wrigley, and Norman; six trips to Good Hope, Arctic Red River, McPherson, and Aklavik; and a regular monthly trip to Cameron Bay and Rae. Mail goes in more frequently than this, as additional commercial flights are utilized as well as police patrols. The latter serve, particularly, out-of-the-way points. Mail for most points in the Eastern Arctic is delivered once a year, by the vessel that carries the Eastern Arctic Patrol of the Department.

LAW AND ORDER

The enforcement of law and order in the Territories is the responsibility of the Royal Canadian Mounted Police and detachments have been established at strategic points throughout the Territories. By means of extensive patrols a reasonably close check is kept on this vast region by a comparatively small body of men. As might be expected their duties are multifarious. The Commissioner of the Royal Canadian Mounted Police is Sheriff of the Northwest Territories.

VITAL STATISTICS

The Director of the Branch is Registrar-General for the Northwest Territories and the method of recording vital statistics of whites, Eskimos, Indians, and half-breeds is in accordance with that adopted by the provinces. The information obtained is supplied to the Dominion Bureau of Statistics for inclusion in the vital statistics of the Dominion.

LIQUOR PERMITS

Under the Northwest Territories Act, Chapter 142, R.S., 1927, the importation of intoxicating liquor for medicinal purposes is authorized under permit to eligible persons. During the past year six hundred and thirty-nine such permits were issued.

LANDS AND TIMBER

Lots are disposed of by sale in the various settlements in the Northwest Territories to transportation companies, mining companies, traders, and missions, in connection with their several undertakings, and to settlers for residential purposes. There are no regulations for the acquiring of homesteads, but small parcels of land suitable for agricultural and fur-farming purposes are leased under the provisions of Chapter 113, R.S.C., 1927. Two lots were sold and patented; one lease for agricultural and fur-farming purposes was issued, and two were cancelled, leaving twenty such leases in force. Three grazing leases and thirty-three surface leases covering lots in Cameron Bay Settlement are in good standing. Six hay permits were issued under which 60 tons of hay was cut.

The number of timber permits issued, exclusive of those granted in connection with timber berths, was 101, authorizing the cutting of 66,940 linear feet of timber, 130,800 feet board measure of saw-timber, 493 fence posts, roof poles, and fence rails, and 5,282 cords of wood. Fifty of these permits were issued free of due to educational, religious, and charitable institutions, to settlers for domestic use, and to Government departments. Three timber permit berths were granted and two were cancelled, leaving five in operation. The revenue derived from land, timber, hay, and grazing was \$4,653.99, a slight increase over the previous year.

MINING

Mining developments continued during the year at Echo Bay, Great Bear Lake, where pitchblende and native silver were discovered in 1930. From this area concentrates are shipped to a refinery at Port Hope, Ontario, for treatment. Radium, silver, and uranium by-products result from such treatment. Since the discovery some years ago of lead-zinc near Pine Point, and the finding of gold-bearing quartz on Wilson Island, Great Slave Lake, prospecting in these areas continued until 1935, when gold discoveries were made on Outpost Islands and at Yellowknife Bay. In August 1936, an important gold discovery was made at Gordon Lake, about 50 miles northeast of Yellowknife Bay, and this area has been the scene of much activity, resulting in the staking of hundreds of mineral claims. Active development is proceeding on several properties.

Miner's licences issued during the year numbered 440, and 418 such licences were renewed. Entries were granted for 1,364 quartz mining claims and a large number of claims were renewed by the owners obtaining certificates of work. Final leases have been issued comprising an area of 3,840.25 acres. The total revenue obtained from fees payable under the Quartz Mining Regulations amounted to \$21,117.95, including \$7,173.45 collected as licence fees.

Placer Mining.—There was only slight activity in placer mining, a few claims in the South Nahanni and Liard River districts being staked and recorded. Approximately 300 claims have been staked in these areas since 1934 when placer gold was reported to have been discovered in the South Nahanni River region, 26 of which have been renewed to October 1, 1937. The suspension of the representation requirements of the Placer Mining Regulations authorized by Orders in Council dated August 30, 1934, and September 26, 1935, terminated October 1, 1936. Placer mining fees amounted to \$296.

Coal.—Six coal mining leases are in force, comprising an area of 687.66 acres. The total revenue derived from fees, rentals, and royalties in connection with coal mining rights during the year amounted to \$619.68.

Petroleum and Natural Gas.—Petroleum and natural gas leases affecting lands in the Northwest Territories comprise a total area of 4,293.33 acres. Petroleum produced from the wells of Northwest Company, Limited, below Norman on Mackenzie River, amounted to 5,399 barrels during the year. Most of the oil was shipped to the Great Bear Lake mining field. Rental from petroleum and natural gas leases totalled \$1,733.33 and the sum of \$1,343 was collected on account of royalty.

Dredging.—One dredging lease is in force in the Northwest Territories, comprising a stretch of an unnamed river lying about 70 miles west of the point where Gossage River joins Mackenzie River.

NORTHWEST GAME ACT

The fur industry of the Northwest Territories is of great importance, but as the native population depends to a large extent on the game and fur-bearing animals for a livelihood, conservation measures are most necessary. Game preserves totalling 514,000 square miles have been set aside in which only natives may hunt and trap. The Wood Buffalo Park containing 17,300 square miles and the Thelon Game Sanctuary comprising some 15,000 square miles have also been established for the preservation of wild life. Licences for hunting and trapping are issued only to British subjects who have completed four years' residence in the Territory or who have carried on the business of trading and trafficking in game for a period of four years.

Due to difficulties of communication it is not possible to furnish a complete report upon the fur yield of the Northwest Territories for the fiscal year ended March 31, 1937. The following statement has been prepared from the returns that have reached the Department covering trapping operations during the licence year ended June 30, 1936:

Preliminary statement of pelts of fur-bearing animals taken during the licence year ended June 30, 1936:

Bear, black.....	36	Fox, red.....	9,556
Bear, brown.....	11	Fox, silver.....	510
Bear, grizzly.....	9	Fox, white.....	25,897
Bear, white.....	44	Lynx.....	4,391
Beaver.....	13,288	Marten.....	5,692
Coyote.....	165	Mink.....	5,466
Ermine.....	4,467	Muskrat.....	136,257
Fisher.....	2	Otter.....	322
Fox, blue.....	167	Skunk.....	31
Fox, black.....	18	Wolverine.....	138
Fox, cross.....	4,074	Wolf.....	1,010

Preliminary statement of big game mammals and birds taken during the licence year ended June 30, 1936.

Caribou.....	10,512	Prairie chicken.....	680
Moose.....	2,634	Ptarmigan.....	6,471
Sheep.....	81	Wild duck.....	6,846
Partridge.....	656	Wild goose.....	892

Buffalo.—Conditions were favourable for the buffalo in the Wood Buffalo Park during the past winter and no reports of losses to the herds on account of climatic conditions were received. Twenty-one surplus buffalo were slaughtered and the meat was distributed to missions and hospitals and to needy native families in districts adjacent to the park. The measures for the control of wolves that harass the buffalo were continued.

Caribou.—There was considerable variation in the migrational routes of the barren ground caribou as compared with previous years. They were reported to be scarce in the easterly portion of the Mackenzie District and a large part of the Keewatin District, but quite plentiful in the Great Slave Lake area and farther south.

Musk-ox.—An extensive aerial reconnaissance of the Thelon Game Sanctuary combined with a general biological ground survey was carried out in 1936 by C. H. D. Clarke, assisted by W. H. B. Hoare, who did considerable field work in that district a few years ago. Mr. Clarke's estimate of the number of musk-oxen in the Thelon area is as follows:

Thelon Game Sanctuary.....	200
Just outside sanctuary.....	40
Aylmer Lake and Musk-ox Lake.....	15
Total.....	255

During the course of an aerial survey made in 1935, 171 musk-oxen were observed in this district. These animals are fully protected under the Northwest Game Regulations.

Moose.—No scarcity of these animals was reported in 1935-36 when 2,634 were taken as compared with 1,174 in 1934-35.

Beaver.—The current regulation allowing each male resident over the age of eighteen years to take a limit of fifteen beaver during the open season appears to serve the needs of the natives, and in a number of areas there is no indication that the beaver supply is being depleted. An increase in the number of beaver is reported in one or two areas, but the animals are comparatively scarce in the northern part of their range. Investigations made during the past winter indicate that it may be advisable to revise the dates of open season for this animal in the interests of conservation.

Fox.—The normal cyclic decline in the yield of fox pelts was apparent in 1935-36. The returns for the past five years were:

Year ended June 30	White Fox	Red Fox	Cross Fox
1932..	27,770	2,743	1,291
1933..	25,687	6,256	2,586
1934..	52,467	3,763	3,668
1935..	52,615	11,789	4,875
1936 (preliminary report)..	25,897	9,556	4,074

In addition, the returns for 1935-36 showed 18 black, 167 blue, and 510 silver foxes. Reports upon conditions during the past winter indicate a low yield of fox pelts for 1936-37.

Marten.—The yield of marten pelts has declined each year since 1924-25 when 13,314 pelts were taken. For the past four years the average annual take has been about 6,000 pelts. The marten is one of the principal fur-bearers in the territory between Simpson and Good Hope where the natives are to a large extent dependent upon the sale of these furs for their livelihood. As a conservation measure the open season for this animal was reduced from five to four months in August 1936.

Mink.—A total of 5,466 mink pelts was secured as compared with 11,134 for the previous year. Apparently a scarcity of mink may be expected for a few years. These animals are subject to periods of abundance and of scarcity and the present cycle reached its maximum in 1932-33 when 18,750 pelts were taken.

Muskrat.—The yield of muskrat pelts was 136,257 compared with 101,044 pelts during the previous year. These animals seem to be plentiful when other fur-bearers are scarce.

Wolf.—Reports were received from many districts indicating that wolves were more numerous than in previous years. The number of these animals fluctuates greatly and this is reflected in the returns which show 1,010 wolves were taken during the year ended June 30, 1936, compared with 701 for the previous year.

Fur Export Ordinance.—The revenue under this ordinance for the year ended March 31, 1937, was \$69,810.02, compared with \$103,859.54 for the previous year. The decline in the yield of fox and mink pelts was largely responsible for the decrease in revenue.

Licences.—Licences were issued during the fiscal year 1936-37 as follows:

Hunting—

Resident.	446
Non-resident British	19
Non-resident non-British.	4
Non-resident bird licence.	1

Trading—

Resident	131
Non-resident British.	5

Infractions of Game Laws.—There were eight prosecutions and six convictions for infractions of game laws.

Permits.—Permits were issued or dealt with as indicated below:

To establish trading posts.....	35
To take mammals for propagation purposes.....	2
To hunt and trap in Wood Buffalo Park.....	395
To render Migratory Birds permits operative in the N.W.T. (Countersigned).....	19
To take specimens of mammals and non-migratory birds for scientific purposes.....	12
To take fifteen beaver.....	1,628
To export caribou skins.....	3

Revenue.—The revenue collected under the Northwest Game Act and the Fur Export Ordinance for the fiscal year 1936-37 was as follows:

Hunting licences.....	\$2,006 77
Trading licences.....	2,070 00
Bird licences.....	5 00
Fur-farm licences.....	16 00
Trading post permits.....	53 00
Sale of furs.....	228 17
Fur export tax.....	69,810 02
Fines and forfeitures.....	113 25
	<hr/>
	\$74,302 21

General.—Reports of scarcity of the more important fur-bearing animals were received from many points during the winter of 1936-37. The residents of the eastern part of Mackenzie District and northern Keewatin District have reported a shortage of caribou as compared with former years.

REINDEER

The herd of reindeer brought from Alaska and placed in 1935 on the reservation lying east of the Mackenzie Delta has continued to thrive. Prior to the fawning season, April-June 1936, the deer were herded across the ice to Richards Island, a short distance off the coast, where, notwithstanding two severe storms in April, the surviving fawn increase was 936 head. Grazing conditions on the island proved very satisfactory. The deer were not molested to any extent by predatory animals; the winds from the Arctic Ocean afforded protection from insect pests; and the frequent changes of grazing areas under the guidance of the Lapp and native herders maintained the herd in excellent condition and also preserved the range.

A new corral, with lead fences and holding pens, which was constructed during this period, was used at the annual round-up in August. The returns showed the herd to number 3,750 head, a substantial increase over the 2,370 animals delivered in March 1935. Following the round-up the deer were moved gradually toward the southern tip of the island where the early slaughtering of surplus animals took place at the end of September, the meat being transported to Aklavik by water. About 100 aged females and surplus steers were slaughtered at that time. The deer were held in this locality until December when the crossing on the ice to the winter range was made. This range is some 60 miles inland on the east branch of Mackenzie River.

While the herders were taking care of the deer during the autumn period, the remaining members of the staff at the Reindeer Station were occupied in transporting some 65 tons of freight from Aklavik; catching and storing 8,000 fish for dog-feed; building and stocking a cabin at the fawning grounds; hauling up boats; and commencing the construction of a new residence for the officer in charge.

During the winter season, the herders, working in shifts, kept the deer under control and warded off to a large extent the attacks of wolves. The losses caused by these predatory animals were reported to have been very light.

The total number of deer slaughtered for food purposes was 268 head, and, as in the previous winter, a large proportion of the meat was distributed to religious organizations operating schools and hospitals in the district. The remainder was used for relief purposes, sale, or to meet the requirements of the reindeer staff. The proceeds from meat sold to residents (other than natives) amounted to \$895.20.

During the last week in March the herd, which was reported to be in good condition, was moved again to Richards Island for the fawning season and summer grazing.

As the reindeer herd becomes larger, increasing opportunities are afforded to the natives to take part in the enterprise, the training of young Eskimos in the handling of the deer being recognized as an important feature of the experiment.

The progress of reindeer affairs was reviewed by the Interdepartmental Reindeer Committee at meetings held on April 8, and July 29, 1936, and February 23, 1937, and reports with regard to the herd were placed before the Northwest Territories Council.

EASTERN ARCTIC PATROL

As in former years, the 1936 Eastern Arctic Patrol was made in the R.M.S. *Nascopie*, owned by the Hudson's Bay Company. The vessel sailed from Montreal on July 14, and after a voyage of over 10,000 miles returned to Halifax on October 1. The itinerary was practically the same as that of the previous year with the addition of a call to Arctic Bay on the northerly end of Baffin Island.

The officer in charge and Government representative in the northern archipelago was D. L. McKeand, Superintendent of the Eastern Arctic. The Government party consisted of the following: G. H. Lawrence, Post Office Department; Douglas Leechman, Division of Anthropology, National Museum; D. A. Nichols, Bureau of Mines and Geology; C. H. Ney and Joseph Courtright, Geodetic Service of Canada; Lloyd Roberts and Thomas Wayling, members of the Parliamentary Press Gallery, historians; Dr. Nicholas Polunin and Reverend Father Arthème Dutilly, botanists; Inspector Keith Duncan, officer in charge, Royal Canadian Mounted Police party; and Dr. N. A. MacArthur, Ottawa, medical officer and ship's doctor.

Dr. MacArthur left the vessel at Churchill and the duties of medical officer and ship's doctor were taken over by Dr. T. J. Orford, who embarked at this point with his wife and two children. Later, at Pangnirtung, Dr. Orford relieved Dr. A. G. MacKinnon, who had completed two years' service at that post. Dr. R. G. M. Keeling, who spent some time with the British-Canadian Arctic Expedition, was taken on board at Southampton Island and acted as assistant medical officer and ship's doctor. While these physicians were with the expedition they made examinations of the natives at the various ports of call and the consensus was that the general health of the Eskimos was good, the vigour of the children being

particularly noticeable. This encouraging condition was ascribed to the work of the resident medical officers and the mission hospitals at Chesterfield and Pangnirtung.

During the call at Pangnirtung the Medical Officer's residence was wired and equipped for electric light. The successful experiments in wireless telephony conducted by the ship's wireless operators were a novel feature of the voyage. Opportunities were afforded members of the Government party to carry on conversations with officials and others at widely separated points.

The Officer in Charge made inspections at each port of call to determine the economic condition of the native population. It was found that a slight increase had been necessary in the amount of food and clothing issued as relief during the past year, owing to the decrease in the number of certain species of animals caused by cyclic fluctuations. However, conditions were generally satisfactory and indications of an increase in the Eskimo population of the northern islands were observed.

The members of the party were afforded every opportunity to pursue their respective lines of scientific investigation, with the result that a large collection of botanical, archæological, and other specimens, and much scientific data were obtained.

G. H. Lawrence, of the Post Office Department, handled 19,000 pieces of philatelic mail in addition to a large volume of other postal matter. Certain of the natives made use of the postal facilities afforded to send communications to their friends and relatives at various points.

D. A. Nichols, of the Geological Survey, disembarked at Wolstenholme, on Hudson Strait, and later rejoined the expedition on its return from Churchill. He continued the study of the physiography of the Eastern Arctic with special reference to the nature of the uplift as shown by ancient strand lines and raised beaches. Mr. Nichols made a large collection of post-glacial fossils, rock types, and minerals, for the National Museum.

Douglas Leechman of the National Museum also disembarked at Wolstenholme and spent three weeks on archæological work in that area and on Mansel Island. Later he continued his investigations at points farther north. The ruins of many Eskimo villages were excavated and examined, with the result that a number of specimens and additional information were obtained which will assist in tracing the early history of Eskimo migrations.

C. H. Ney of the Geodetic Service of Canada, and his assistant Joseph Courtright, continued the work of establishing astronomical stations at various points of call. Mr. Ney left the ship at Port Burwell to carry on a survey along the coast of Ungava Bay. The information secured will be of value in the correction of maps and charts of this area.

Dr. Nicholas Polunin and Reverend Father Arthème Dutilly collected botanical specimens and will make contributions in this connection to the National Museum.

YUKON TERRITORY

Yukon Territory has an area of 207,076 square miles. It is bounded on the south by British Columbia and Alaska; on the west by Alaska (longitude 141 degrees west); on the north by the Arctic Ocean; and on the east by the North-west Territories. Most of the Yukon's present population is found in three areas, the northern or Dawson District, the southern or Whitehorse District, and the Upper Stewart River or Mayo District. According to the census of 1931 the total population was 4,230 (2,593 whites, 1,543 Indians, 85 Eskimos, and 9 unspecified).

The Yukon was created a separate Territory in June 1898. Provision is made for a local Government composed of a Chief Executive, called the Controller, also an Elective Legislative Council of three members, with a 3-year

tenure of office. The Controller administers the Government under instructions from the Governor General in Council or the Minister of Mines and Resources. The Controller in Council has power to make ordinances dealing with the imposition of local taxes, sale of liquor, preservation of game, establishment of territorial offices, maintenance of prisons and municipal institutions, issue of licences, incorporation of companies, solemnization of marriages, property and civil rights, administration of justice, and generally all matters of a local and private nature in the Territory.

Present Territorial Council

Controller, Yukon Territory—G. A. Jeckell, Dawson.

Councillors Elected 1934

Dawson District—Andrew T. Taddie, Granville.

Whitehorse District—Charles T. Atherton, Whitehorse.

Mayo District—Ernest J. Corp, Keno.

Seat of Government, Dawson, Y.T.

WORK OF COUNCIL

The Yukon Council met on April 23, 1936, and continued in session until April 29. Ordinances were passed amending the Companies Ordinance, an Ordinance respecting the Office of the Public Administrator, and the Government Liquor Ordinance.

ADMINISTRATION

The Lands, Parks, and Forests Branch is responsible for business arising from the general administration of the Territory under the Yukon Act and ordinances passed by the Territorial Council; for the disposal of lands under the Dominion Lands Act; the administration of the Yukon Placer and Quartz Mining Acts; and for the collection of revenue.

The activities of Dominion Government Departments in the Territory involved an expenditure of \$576,458.13 during the past fiscal year and the revenue collected in the Yukon amounted to \$240,365.72. For local purposes the Territorial Government raised \$127,795.38, of which amount \$70,000 represented the profit on the operation of Government liquor stores.

LANDS AND TIMBER

Lands.—Two sales were made, three homestead entries were granted, and six hay permits were issued. There are now in force twenty-seven homestead entries, eight agricultural leases, twenty-four waterfront leases, two miscellaneous leases, and fourteen permits to occupy. The revenue derived from lands amounted to \$5,948.07.

Timber.—There was a marked increase this year in the quantity of lumber and fuelwood cut under permit. One hundred and forty-seven permits were issued authorizing the cutting of 4,000 linear feet of timber, 483,760 feet board measure of saw-timber, and 16,401 cords of wood. Six permits to cut wood for mining purposes were issued free of dues. Eight licence timber berths were cancelled leaving thirty-nine in force. Nine timber seizures were made. The total revenue collected from timber was \$7,203.73.

MINING

Mining is the principal activity and a marked increase in both placer and lode silver-lead mining was noticeable during the past year. Placer mining operations produced 62,635.75 ounces of gold and the total value of the gold production for the year is estimated at \$1,252,715. For this purpose placer gold was valued at \$20 an ounce. The value of lead-silver production was \$489,271. The total revenue derived from mining rights in Yukon Territory, including the export tax on gold, amounted to \$61,286.68.

Entries were granted for 145 placer and 139 quartz mining claims staked and applied for during the year, and 3,325 such claims were renewed for another year. Five leases of quartz mining claims were granted, comprising an area of 177.27 acres, making a total of 4,927.37 acres held under lease.

Gold Royalty.—The total amount collected for royalty on gold obtained from placer deposits up to March 31, 1937, was \$5,100,699.87, of which amount \$23,488.53 was collected during the fiscal year. For the purpose of estimating royalty, the gold was valued at \$15 an ounce.

Dredging.—Five leases to dredge for minerals in the beds of rivers in the Territory are now in force, comprising a total river stretch of about 46½ miles. The total revenue that has been derived from this source up to March 31, 1937, amounts to \$209,914.56. These leases comprise portions of the beds of the Klondike, Finlayson, and Fortymile Rivers. For the purpose of gold recovery there are eight dredges engaged in mining in Yukon Territory, all but one of which are being operated by hydroelectric power.

Hydraulic Mining.—The regulations for the disposal of hydraulic mining locations were withdrawn by Order in Council dated February 4, 1904, but the leases then in force were not affected by such withdrawal. There are still seven hydraulic mining locations held under lease, comprising a total area of approximately 18 square miles. Rentals amounting to \$198,419.93 have been collected on account of such locations, the amount received during the fiscal year being \$2,765.

Water Rights.—There are now in force 41 grants to divert water for mining purposes, under the provisions of the Yukon Placer Mining Act, which grants aggregate a total of 19,300 miners' inches.

Coal.—One coal mining lease is in force comprising an area of forty acres on the south fork of Coal Creek.

ROADS AND BRIDGES

There are 467 miles of wagon and secondary roads and 835 miles of sled roads and trails in the Territory. Practically the whole of the mining areas can be reached by motor transport. Expenditures on the road system out of Territorial funds amounted to \$62,496.20, an increase of \$22,295.42 over the previous year. Operations were confined to general repairs and the maintenance of the roads most used. Owing to damage by spring floods, an emergency expenditure was incurred in reconstructing portions of the Overland road, including the renewal and repair of bridges. With the special grants received from the Dominion, work was continued on the extension of the road from Dawson westward to the Alaska boundary; the construction of a new route around the Swede Creek Dome; improvements to the roads on Sulphur Creek and on Hunker and Dominion Creeks; continuation of the construction to summer standard of the Silver King road in the Mayo District; and the completion of the Mayo River bridge. All these roads are of importance to mining for the transportation of equipment, supplies, and concentrates.

DEVELOPMENT OF AIRCRAFT LANDING FACILITIES

Two emergency landing fields were constructed, one at Carmacks on Yukon River, on the Whitehorse-Dawson-Mayo air route, and the other at McQuesten on Stewart River, midway between Mayo and Dawson. The field at Mayo was lengthened and cleared to a uniform width of about 600 feet. The runway on the Carcross field was improved and the field lengthened.

Some clearing was done with a view to making a cross-runway at the Whitehorse field to permit safer landings in the cross winds that sometimes prevail. Permission was obtained from the White Pass and Yukon Route, which operates the railway from Skagway, Alaska, to Whitehorse, to use their property adjoining the airport for this additional runway. There is a considerable amount of international traffic through this airport.

A site for a hangar and office building on the Whitehorse landing field was leased to the Pacific Alaska Airways, and this company moved their office building to the new site. The White Pass and Yukon Route built a hangar on their property, adjoining the field to the east of the main runway. There was a very marked increase in aeroplane travel in the Territory over that of previous years.

GENERAL

Agriculture.—The summer season was long and warm. Floods at Mayo and Dawson in June caused damage to vegetables planted on the lower lying lands at a time when it was too late to replant crops. Otherwise the season was very favourable, and good crops of hay, grain for fodder, and vegetables were secured.

Fur and Game.—The collections made under the Fur Export Tax Ordinance were slightly lower than for the previous year. The record of fur-bearers taken showed a decrease in bear, beaver, red and white fox, weasel, and otter. There was an increase in cross and silver fox, lynx, marten, mink, and muskrat. A total of 865 coyote and 513 wolf pelts were presented for payment of export tax, being an increase over the previous year.

Public Welfare.—The hospitals at Whitehorse, Mayo, and Dawson were operated throughout the year, and grants were provided by the Yukon Council towards their maintenance. The number of hospital days of patients for the year were: Dawson 11,561, Mayo 3,612, and Whitehorse 2,675. The number of hospital days for indigents were: Dawson 7,678, Mayo 957, and Whitehorse 652. The indigents treated were practically all aged people. Health conditions throughout the Territory were generally good.

Education.—The same schools were maintained in the Territory as during the previous year, namely, high schools at Dawson and Whitehorse, and elementary schools at Dawson, Whitehorse, Mayo, and Carcross. The enrolment of pupils was slightly less than for the previous year.

Law and Order.—Law and order were maintained throughout the Territory by the Royal Canadian Mounted Police, and the local administration received the co-operation of the force at all times.

REPORT OF G. A. JEKELL, CONTROLLER, REGARDING MINING

The total revenue collected at Dawson on account of mining lands was \$55,094.94; at Mayo, \$4,345.64; and at Whitehorse \$1,846.10; making a total of \$61,286.68. This is a decrease of \$912.81 in the total revenue as compared with the previous year.

Placer Gold Mining

The amount of placer gold mined during the year in the Territory, on which royalty export tax was paid, was 62,635·75 ounces, produced as follows: Dawson District 61,342·39 ounces; Mayo District 799·39 ounces; and Whitehorse District 493·97 ounces. The royalty collected was \$23,488.53. The gold production showed an increase of 18,071·56 ounces over that of the previous year. In the Dawson District 48 new placer location grants, 51 relocation grants, and 2,220 renewal grants were issued. Four dredging leases were renewed covering 31¼ miles. Six hydraulic leases were renewed.

Yukon Consolidated Gold Corporation, Limited.—The following is a review of the operations of this company during the year:

Property.—At the end of the year 1,668 placer mining claims, 4 hydraulic leases, 4 dredging leases, 9 water grants, and 2 timber berths were renewed and in good standing.

Power Generation and Transmission.—The hydroelectric power plant on the North Fork of the Klondike River generated a total of 22,015,740 k.w.h., an increase of 66 per cent over the preceding year. Of the total output 83 per cent was used in connection with placer mining operations. The remaining 17 per cent was sold to the Dawson Utility Companies which provide Dawson with light, water, and telephone service.

A total of \$80,500 was expended in additions and repairs to the ditch system which conducts water to the power plant. This work will approximately double the capacity of the ditch.

Prospect Drilling.—Two gasoline driven caterpillar drills were operated continuously from March 12 to November 7, for examination of various areas. An estimated total of 11,452,431 cubic yards of dredging ground was added to the company's proved reserves. Data concerning these operations are tabulated below:

Location	Holes Drilled	Total Feet Drilled
Black Hills Creek.	327	6,855·0
Middle Dominion Creek.	497	12,540·5
Upper Sulphur Creek.	226	6,572·0
Gold Run Creek.	18	1,013·0
Upper Dominion Creek.	32	9,380·0
Total.	1,100	36,360·5

Hydraulic Stripping.—Frozen muck overburden was removed by hydraulic stripping at various locations as follows:

	Cubic Yards
Arlington.	335,910
Granville.	666,770
Middle Sulphur Creek.	104,840
Quartz Creek.	182,700
Total.	1,290,220

In addition, hydraulic stripping was carried out for 152 days on Upper Dominion Creek, but no record was kept of the yardage removed.

Cold Water Thawing.—A large cold-water thawing plant was operated at Granville throughout the season and smaller plants were operated at other locations. A total of 2,046,748 cubic yards of frozen muck was thawed in the Granville area.

Dredging.—Reconstruction of No. 6 was completed in June at a location in the Granville area. The other Granville Dredge No. 5 was operated for

a full season. At the end of the season dismantling of this latter dredge was begun and work started on the new hull and framing. Part of the old machinery will be reconditioned and used again. A summary of dredging operations is tabulated below:

Dredge No.	Location	Size Buckets Cu. ft.	Starting Time	Shutdown Date	Cu. Yds. Dredged
1	Upper Dominion Creek.....	7½	May 10	Nov. 7	414,606
2	Middle Klondike River.....	16	May 9	Dec. 2	2,032,326
3	Lower Klondike River.....	16	May 4	Nov. 25	1,864,471
4	Upper Klondike River.....	16	April 24	Nov. 18	1,891,243
5	Granville.....	7½	May 13	Nov. 5	584,113
6	Granville.....	7½	June 22	Nov. 5	682,124
7	Quartz.....	5	May 8	Nov. 24	488,225
Total.....					7,957,108

Production.—Dredging operations resulted in an output of 41,596.61 fine ounces of gold and 9,146.01 fine ounces of silver during the year; and 56,725 ounces of bullion were sold to the Dominion Mint on which an export tax of \$20,864 was paid.

Construction.—A camp to accommodate 90 men was constructed on Claim No. 57 Below on Sulphur Creek. Two-story combined mess and bunk houses with hot-water heating plants were constructed at the camps on Arlington and Bear Creeks. Excavation was commenced on a 16-mile ditch to convey water from Australia Creek to a point on the right limit of Sulphur Creek, the sum of \$56,550 being expended on this work. The construction of a system consisting of a 300-horsepower pumping plant and a ditch approximately 7,000 feet long to supply water from Indian River to the operations on Upper Quartz Creek was practically completed. A number of other buildings were constructed at various camps, including a large storage warehouse at Bear Creek. The total expenditure for buildings and camp construction was over \$86,000.

Employment.—The average number of men employed during the seven months of the operating season was 418, and for the full year, 298. A total of \$819,000 was expended for salaries, wages, and board.

General.—Development work was carried on at Laforma mine in the Mount Freegold District during the first four months of the year, but the project was abandoned early in May.

Road conditions in the Dawson Mining District are much better than in former years, due to the improvements carried on by the Government. In addition to the Government's expenditures on roads the company expended \$11,300 on main highways, for relocation of roads, opening of roads in the spring, and maintenance work.

Other Placer Operations.—Owing to the failure to thaw the ground in advance, Holbrook Dredging Company did not commence operating their dredge on the Sixtymile River until August 1. It was run intermittently until November 11, a total of 54,276 cubic yards of material being handled. A total of 1,417.64 crude ounces of gold was recovered, the value being \$39,682.04 for gold and \$97.48 for silver recovered with the gold. The largest number of men employed was 30. It is the intention of the company to replace the steam power on the dredge with Diesel units during 1937.

Prospecting for placer gold continued generally throughout the Territory with very encouraging results. The whole of one old placer creek, namely Clear Creek, has been optioned by Fairbanks Exploration Company, with a

view to ascertaining by drilling whether it will prove to be a dredging area. Aeroplanes are now used in the late winter months to freight summer outfits to miners located on remote creeks.

Prospecting Leases.—Prospecting leases representing a total of sixty-nine miles were issued during the year on the following watercourses: Bullion, Barlow, Moose (Little Atlin Lake), Clear, Famous, Geary, Livingstone, Silver, Moose (Fortymile River), Kirkman, Discovery Pup, All Gold, Duncan, Lapie, Zinc, Jacks, Sixtymile, Anderson, and Canadian Creeks, Green and Dublin Gulches, and McQuesten River.

Lode Mining

Dawson District.—Sixty-four quartz grants were issued in the Dawson District during the year, and 406 claims were renewed. An option has been taken on the Brown-Fairclough group of claims on Mount Freegold by a new company, Mount Free Gold Yukon Mines, Limited. Equipment for a mill is now on the property. Considerable interest is shown in this district, very few claims have been allowed to lapse, and much exploratory work has been done by individual claim owners.

Mayo District.—There are 742 quartz mining claims in good standing in this district. Mining operations were renewed this year on a larger and more important scale than at any time previously.

Treadwell Yukon Company, Limited.—This company owns fifty claims, covering 1,320 acres on Keno Hill and Galena Hill, and holds a lease on seventeen claims on Keno Hill covering 557 acres. The Elsa, Silver King, and Hector groups of claims on Galena Hill were operated during the year. The output for the season was approximately 12,000 tons of high-grade silver or lead ores and mill concentrates, the latter amounting to approximately 10,000 tons. Owing to lack of river transportation the shipment of ore and concentrates was limited to 2,064 tons, consisting of 1,481 tons of concentrates and 583 tons of crude ore. The shipment contained 621,718 ounces of silver and 1,889,916 pounds of lead, having a gross market value of \$375,233.86. The average number of men employed was 150.

Other Operations.—Individual claim owners in the district were active in prospecting and developing their ground, some very rich discoveries being made. Individual miners shipped 683 tons of crude ore, the gross value being \$114,037.

Assay Office

The Assay Office was maintained as usual at Keno by the Territorial Government. A total of 1,316 samples of rock for assay was received from all parts of the Territory, and 2,098 assays or quantitative analyses were made. In addition, numerous qualitative determinations and chemical tests were made in connection with the identification and classification of various rocks and minerals of which no record was kept.

The assays made were, gold and silver 1,316; lead 772; copper 5; platinum 2; tungsten 1; molybdenum 1; and antimony 1.

LAND REGISTRY

In the Land Registry Division a record is kept of such Public lands as are being held for Federal Government purposes. Lands no longer required for the purpose for which they were reserved or acquired are placed on a revenue-producing basis as circumstances permit, usually by the issue of leases at an annual rental based on 6 per cent of the valuation of the properties.

Miscellaneous duties relating to the previous administration by the Dominion of the natural resources of the western provinces are performed by the staff of the Land Registry, which also deals with inquiries relating to any land business for which the Dominion accepts responsibility.

As a measure of economy, the Soldier Settlement of Canada undertakes field inspection work and its supervising officers at Winnipeg, Regina, and Edmonton act on the joint boards which report on all applications for apportionment or adjustment of seed grain, fodder, and relief indebtedness.

ORDNANCE, ADMIRALTY, AND PUBLIC LANDS

Ordnance and Admiralty lands are those areas in the Maritime Provinces, Quebec, Ontario, and British Columbia which, because of their strategic situation or their suitability at some time for naval or military purposes, were reserved or acquired by the Crown. When these are no longer required for such purposes they are transferred to the Department for administration. Lands acquired for other purposes by any Dominion Government department and later not required are also transferred under the classification of Public lands. The work of administration comprises investigations, appraisals, preliminary and subdivision surveys, the searching of titles, the preparation of plans, leases, and reports, and the collection of rentals.

Investigations.—Investigations were made during the year of properties at Digby, Guysborough, and Halifax Harbour, Nova Scotia; St. Andrews and St. John, New Brunswick; Rapides des Joachims, Blairfindie, Dorval, Farnham, Sorel, and Longueuil, Quebec; London, Point Edward, Owen Sound, Paisley, and the Rideau Canal, Ontario.

Surveys.—Preliminary and boundary surveys were made of properties at Shelburne and Halifax Harbour, N.S.; St. Andrews, N.B.; Rapides des Joachims, Longueuil, St. Joseph de Sorel, P.Q.; Lyons Creek and Point Edward, Ont.

Leases, Sales, and Rentals.—During the year fifty-one leases and licences of occupation were issued and three sales were completed. Cancellations amounted to ten. Two parcels of land at Levis and Rapides des Joachims were placed under the jurisdiction of this Department. The net revenue from Ordnance lands for the year was \$15,451.27.

For Public lands during the year six leases were issued and one sale completed. The net revenue from Public lands amounted to \$3,550.13.

CENTRAL OFFICE OF RECORD

The Central Office of Record for all lands owned or otherwise controlled by the Dominion of Canada, operated by the Land Registry, is proving to be a useful service to the different departments, as well as to the general public. An inventory of federally owned properties affords a convenient index when a site in some locality is required for a government building or other undertaking. To date some 3,400 titles have been entered in the record. The several departments are continuing their co-operation in supplying information, and data are recorded as received.

SOLDIER SETTLEMENT LANDS

The unpatented lands in the four western provinces against which charges are registered under the Soldier Settlement Act remain vested in the Dominion. There are 360 quarter-sections comprising approximately 57,600 acres thus administered. They are divided among the four western provinces as follows: Manitoba, 61; Saskatchewan, 161; Alberta, 110; British Columbia, 28.

Letters patent for such lands are issued by this Department to those entrants who have completed the duties in connection with their entries in accordance with the terms of the Dominion Lands Act, and who have repaid in full their indebtedness to the Soldier Settlement of Canada. In other cases where the entrants have completed the duties referred to but have not repaid their indebtedness to the Soldier Settlement of Canada, patents are issued in the name of the Director of Soldier Settlement of Canada under the authority of the provisions of Section 27 of the Soldier Settlement Act, and the Order in Council of June 4, 1921. During the fiscal year 32 applications for patent were received, of which 17 were approved.

ROADS AND RAILWAY RIGHTS OF WAY

Surveyed roads were reserved out of seven grants of lands. Two new plans of survey of roads were received and reservations for these roads noted in the records in order that they may be vested in the provinces. A number of old road matters have been investigated.

Information was furnished the provinces on request concerning a number of right of way matters pertaining to various railway lines.

LAND TRANSFERS TO PROVINCES

The interest of the Dominion in certain areas of lands which did not pass to the western provinces by the transfer of the natural resources and are not now required for Federal Government purposes has been transferred to the western provinces subject to any trusts existing in respect of such lands and to any interest other than that of the Dominion in the same by the following Orders in Council:

Date	P.C. No.	Area	Rights	Province
20th April, 1936.....	950	{9254.51 ac. 9254.51 ac.	surface } mineral }	Alberta
23rd July, 1936.....	1,847	1.25 ac.	surface	Alberta
11th May, 1936.....	1,112	640.00 ac.	surface	Alberta
11th May, 1936.....	1,115	213.40 ac.	surface	Alberta
30th March, 1937.....	647	20.00 ac.	minerals only	Alberta
9th April, 1936.....	887	615.60 ac.	surface	Saskatchewan
29th Jan., 1937.....	189	32.00 ac.	surface	Saskatchewan
6th June, 1936.....	1,340	1-886 ac.	surface	Br. Columbia

LETTERS PATENT

From the time of the establishment of the Department in May, 1873, there have been issued 496,787 Letters Patent, covering in the aggregate an area of 107,725,646 acres. Those issued up to July 5, 1883, are of record in the Department of the Secretary of State. Since that date the patents issued, numbering 481,690, are of record in the Land Registry of this Department.

During the fiscal year ended March 31, 1937, there were 45 Letters Patent issued, covering a total area of 5,699 acres, divided, according to provinces, as follows:

Province	Patents	Acres
Manitoba.....	5	421
Saskatchewan.....	16	2,379
Alberta.....	17	2,482
British Columbia.....	2	189
Northwest Territories.....	2	14
Yukon Territory.....	3	214
Totals.....	45	5,699

The various kinds of grants are dealt with in the following table:

—	*Special		†Homestead		‡Soldier		Sale		Railway	
	Patent	Acres	Patent	Acres	Patent	Acres	Patent	Acres	Patent	Acres
Manitoba.....	3	326	1	15	1	80				
Saskatchewan....	14	2,066	1	154	1	159				
Alberta.....	16	2,368	1	114						
British Columbia	1	160							1	29
Northwest Terri-							2	14		
ories.....							2	54		
Yukon.....			1	160						

* Under this heading are included lands entered for by returned soldiers, affected by loans from the Director of Soldier Settlement of Canada, which lands were patented to the said Director either at the request of the entrant or pursuant to salvage proceedings under the Soldier Settlement Act.

† Under this heading are included lands entered for by returned soldiers, affected by loans from the Director of Soldier Settlements of Canada, said loans having been repaid in full. Patents were issued direct to the settler.

There were 470 certified copies of Letters Patent issued during the fiscal year ended March 31, 1937.

SEED GRAIN, FODDER, AND RELIEF INDEBTEDNESS

During the fiscal year the Alberta, Saskatchewan, and Manitoba Adjustment Boards submitted recommendations relating to the adjustment or apportionment of outstanding seed grain, fodder, or relief indebtedness in 571 cases. Their recommendations were ratified by Orders in Council and 427 discharges and releases of liens were issued, resulting in writing off the amount of \$100,488.94. There were 2,230 inquiries received from the provinces for statements of indebtedness outstanding relative to the issue of land grants, and 191 certificates of indebtedness were issued to be attached to title. Gross collections for the fiscal year amounted to \$11,219.70.

The following summary shows the financial operations of the year ending March 31, 1937:—

	Principal	Interest	Total
<i>Debits</i>			
Balance outstanding March 31, 1936.. . . .	\$2,915,915 91	\$2,527,964 74	\$5,443,880 65
Accrued interest April 1, 1936, to March 31, 1937.. . . .	....	155,343 02	155,343 02
Total debits.. . . .	\$2,915,915 91	\$2,683,307 76	\$5,599,223 67
<i>Credits</i>			
Net collections, April 1, 1936, to March 31, 1937.. . . .	\$ 8,417 22	\$ 2,655 21	\$ 11,072 43
Amount written off as loss by Orders in Council.. . . .	44,423 73	56,065 21	100,488 94
Amount collected and retained by Province of Saskatchewan as commission*. . . .	2 00	33 36	35 36
Total credits.. . . .	\$ 52,842 95	\$ 58,753 78	\$ 111,596 73
Amount outstanding March 31, 1937.. . .	\$2,863,072 96	\$2,624,553 98	\$5,487,626 94

* Clause 18, Natural Resources Agreement with the Province of Saskatchewan.

TIMBER AND GRAZING

Grazing.—There was a considerable demand for annual grazing permits on Quarantine Reserves along the southern boundary of Saskatchewan and Alberta. There were 36 permits granted covering a total area of 46,055.9 acres, and

during the summer grazing season of 1936 there were 1,201 cattle, 430 horses, and 300 sheep grazed on these pasture lands. The revenue, consisting of rent, amounted to \$921.12.

On the Old Military Reserve at Farnham in the Province of Quebec, there were four grazing leases in force from which the sum of \$97.50 was collected as rent. These leases expired on February 20, 1937.

Timber.—Within the boundaries of National Parks there were 14 licence timber berths and, during the year, 3 of these in Mount Revelstoke National Park, British Columbia, were cancelled. The remaining berths are located, as follows: 2 in Manitoba and 9 in British Columbia, covering a total area of 65·90 square miles. Operations were conducted on Licence Timber Berth No. 117 within Glacier National Park, B.C., and 248,256 feet B.M. of sawn lumber was cut. The revenue from these berths amounted to \$1,265.46, and during the year licences, in duplicate, were prepared for the 11 berths. On the Dominion Lands Coal Block near Hosmer, B.C., there are two timber berth permits in force.

During the year 101 accounts, covering timber permits issued to homesteaders by the Dominion before the transfer of the natural resources, were verified for the western provinces.

NATIONAL PARKS BUREAU

The functions of the National Parks Bureau involve the administration of the National Parks Act and regulations made thereunder by the Governor in Council, the supervision of all activities within the National Parks, the establishment of National Parks, the preparation and distribution of information of all types respecting National Parks and wild life, and the conservation, marking, and care of historic and pre-historic sites of national importance. The Bureau also administers the Migratory Birds Convention Act. In the maintenance of law and order within the National Parks, the Bureau has the assistance of the Royal Canadian Mounted Police, who also act as wardens under the Migratory Birds Convention Act. Highways and other public works in the National Parks are constructed by the Surveys and Engineering Branch of the Department.

The National Parks system now includes twenty separate units, having a combined area of 12,525 square miles. During the past year the National Parks system was extended to include selected areas in Nova Scotia and Prince Edward Island. The Cape Breton Highlands Park in Nova Scotia contains an area of approximately 458 square miles in the northern part of Cape Breton Island. The Prince Edward Island Park, containing an area of approximately 7·6 square miles, consists of a coastline strip over 20 miles in length along the north shore.

NATIONAL PARKS VISITORS

An all-time record in the volume of tourist travel was established during the year under review, when 908,161 visitors entered the National Parks. This figure represents an increase of 136,367, or 17 per cent, over the total for the fiscal year 1935-36, which was 771,794. The greater part of this movement to the parks is made up of motor tourist traffic, which constituted approximately 96 per cent of the total and comprised 226,847 motor vehicles and 873,391 passengers. Estimated passenger rail traffic to the National Parks was 34,770.

It is interesting to note that since the fiscal year 1926-27, when the movement totalled 391,371, the number of visitors has increased by more than 130 per cent.

Tourist figures by parks for the fiscal year ended March 31, 1937, compared with returns for the preceding year, are given in the following table:

Visitors to National Parks

National Park	1936-37	1935-36
Banff.....	178,940	143,162
Buffalo.....	10,557	11,133
Elk Island.....	46,295	44,767
Fort Anne.....	16,364	13,229
Fort Beauséjour.....	20,000*	3,848
Georgian Bay Islands.....	4,878	5,521
Glacier.....	1,200*	1,000*
Jasper.....	14,659	10,981
Kootenay.....	53,004	40,447
Mount Revelstoke.....	7,188*	6,024*
Nemiskam.....	29	15
Point Pelee.....	287,900	250,040
Prince Albert.....	25,327	21,292
Riding Mountain.....	101,013	93,895
St. Lawrence Islands.....	16,800*	12,700*
Waterton Lakes.....	59,546	47,777
Yoho.....	64,461	56,963
	908,161	771,794

* Estimated.

RECREATION

The National Parks of Canada offer remarkable opportunities for outdoor life and recreation. Motoring, riding, hiking, climbing, fishing, canoeing, swimming, golf, and tennis are among the many sports which may be enjoyed in summer under ideal conditions. Motor camp-grounds, which have been established along the highways and in the townsites of the parks, offer excellent facilities for camping, and hundreds of miles of trails have been constructed which lead to points of interest and beauty not accessible by motor road. Supervised outings conducted by trail-riding, hiking, and alpine climbing organizations are annual features of the mountain parks.

Golf courses maintained by the Department in Riding Mountain, Prince Albert, Elk Island, and Waterton Lakes Parks are available to visitors on payment of a reasonable fee, and courses operated by private enterprise at Banff and Jasper are widely known for their sporting features. During the year a new clubhouse was constructed at Elk Island Park, and the courses at Waterton Lakes and Riding Mountain Parks were improved by the installation of watering systems. Tennis courts, also, are available for the use of visitors in a number of parks, and tournaments, which attracted a large entry, were held at Prince Albert and Riding Mountain Parks. The outdoor swimming pools at the Banff Hot Mineral Springs and at the Radium Hot Springs in Kootenay Park were extensively patronized during the year, and supervised bathing beaches in other parks, where bath-houses have been erected, were also very popular.

Fishing ranks as one of the favoured sports in the western parks, and conditions have been greatly improved in recent years by extensive re-stocking of lakes and streams, some of which were once barren of fish. During the year steps were taken to improve the fishing in Riding Mountain Park and Prince Albert Park, and a new fishing area was available to anglers by the opening of Crypt Lake in Waterton Lakes Park.

The annual "ride" of the Trail Riders of the Canadian Rockies was held during the early part of August in Banff Park, commencing at Banff and taking in territory east and west of the Sawback Range. The outing conducted by the Sky Line Trail Hikers took place in Yoho Park, with a central headquarters established at Lake O'Hara. A large number of climbing enthusiasts attended the annual camp of the Alpine Club of Canada, which was held in Fryatt Creek Valley, Jasper National Park, during the latter part of July and early part of August.

Banff National Park during recent years has developed into a winter sports centre of note, and the annual winter carnival held in February attracted many visitors. The outstanding event of the winter season, the Dominion Ski Championship meet, was staged on the slopes of Mount Norquay, within sight of the town of Banff, early in March, and was well attended by competitors and spectators from foreign countries as well as Canada.

WILD LIFE CONSERVATION

The sanctuary conditions provided by the National Parks during the past quarter of a century have been responsible for a gratifying increase in the numbers of big game animals, particularly in the mountain parks of Alberta and British Columbia. Regular patrols by the Park warden service ensure the protection of game and also afford a means of determining increases or decreases in the numbers of species and their health conditions.

Observations during the year indicate increases among many species of animals, particularly elk and moose, which are abundant in Jasper and Banff Parks, with elk spreading from the latter area into Yoho Park in considerable numbers. Rocky Mountain sheep were reported to be more numerous than usual in Banff Park, particularly in the vicinity of the town of Banff. Increases of animals were also reported in Waterton Lakes, Prince Albert, and Riding Mountain Parks.

To conserve and perpetuate animal species native to the plains of Western Canada, the Dominion Government some years ago set aside four wild animal parks in Alberta, three of which are fenced. The areas include the Buffalo and Elk Island Parks, which contain large herds of buffalo as well as deer, elk, and moose, and the Nemiskam and Wawaskesy Parks, which are sanctuaries for pronghorned antelope. Natural increases in practically all species were registered during the year in these parks. A reduction in the number of buffalo at Buffalo Park was made by supervised slaughter.

Three Rocky Mountain sheep from Banff Park were donated during the year to the Zoological Gardens at Charlesbourg, near Quebec City, Quebec, as well as one male elk from Buffalo National Park at Wainwright. A donation of twenty-five elk was made to the Government of Saskatchewan, and a zoo at San Simeon, California, was furnished with eight buffalo from Elk Island Park.

Small exhibition herds of wild animals have been maintained in paddocks at Banff and Riding Mountain Parks for several years. Five buffalo were shipped from Elk Island Park to Prince Albert Park and these have been placed in an enclosure near the main park highway.

A census of wild animals in fenced enclosures in the National Parks as at March 31, 1937, follows:

Animals in Fenced Areas

Animal	Banff Park Paddock	Buffalo Park	Elk Island Park	Nemiskam Park	Prince Albert Park Paddock	Riding Mountain Park Paddock	Total
Antelope.....				375			375
Buffalo.....	31	4,476	2,039		5	65	6,616
Elk.....	28	1,541	1,997			52	3,618
Four-horned sheep.....	6						6
Hybrids (cattalo).....		33					33
Moose.....		121	774			5	900
Mule deer.....		1,242	261			4	1,507
Rocky Mountain goat.....	3						3
Rocky Mountain (bighorn) sheep.....	7						7
White-tailed deer.....						4	4
Yak.....	5	32					37
	80	7,445	5,071	375	5	130	13,106

The conservation of wild life is a responsibility of the Dominion and Provincial Governments and, to promote unity of action, a conference of officials was called in January 1937 to consider mutual problems. This conference was attended by representatives of every province as well as by the District Migratory Birds Officers, the Superintendents of National Parks, and delegates from other Dominion Departments concerned. The conference passed twenty-one resolutions, which sum up its conclusions on the many problems placed before it. The attendance at the conference of the Chief of the United States Bureau of Biological Survey was most helpful in promoting an understanding of related problems in the United States.

The National Parks continue to serve as important wild life reservoirs, the overflow from which replenishes the wild life supply in adjacent territory. Increases in many species of big game were reported by Parks officials. Continued attention has been paid to improving the fishing in the parks and expert guidance governs fish-stocking activities.

FOREST FIRE CONTROL

The fire hazard in the National Parks, owing to the hot, dry weather, was extremely high during the year. Many forest fires occurred, particularly in Banff, Jasper, Mount Revelstoke, and Prince Albert Parks. Although one hundred and seven fires occurred, a total area of only 38,335 acres was burned. An indication of the conditions faced by the protective service in Prince Albert Park may be gained from the fact that sixty-five distinct flares or blazes were counted in the district surrounding the park at one time in July by an aeroplane patrol.

Regular patrols were carried out by the Royal Canadian Air Force in Prince Albert and Riding Mountain National Parks during the spring and late summer seasons when the fire hazard was greatest. These patrols were of great assistance in helping to locate and combat fires in their early stages.

A summary of fires in the fiscal year 1936-37, indicating the number, area burned over, and the cost of extinguishing, follows:

General Fires

Region	Fires	Area Burned	Cost of Ex-
	Number	Acres	tinguishing \$
Banff National Park.....	15	7,647-50	20,584 14
Georgian Bay Islands Park.....	2	1-25	33 20
Glacier National Park.....	4	1-50	105 90
Jasper National Park.....	16	1,045-50	5,616 37
Kootenay National Park.....	1	0-25	38 85
Mount Revelstoke National Park.....	4	1,202-00	1,778 41
Prince Albert National Park.....	22	25,492-17	11,928 52
Point Pelee National Park.....	2	200-00	699 00
Riding Mountain National Park.....	21	2,737-25	972 38
Waterton Lakes National Park.....	3	3-50	73 50
Yoho National Park.....	7	.....	14 26
Total.....	97	38,330-92	41,844 53

Railway Fires

Banff National Park.....	1	2-00	1 90
Glacier National Park.....	1	.....	0 50
Jasper National Park.....	2	.....	289 40
Yoho National Park.....	6	2-00	45 19
	10	4-00	336 99
Grand Total.....	107	38,334-92	42,181 52

PARK ROADS, TRAILS, AND TELEPHONE LINES

The policy of constructing all-weather motor highways in the National Parks was continued during the year. The new Chief Mountain International Highway, which provides direct communication between Waterton Lakes National Park in Alberta and Glacier National Park in Montana, was opened during the year, and was travelled by a large number of visitors to Canada.

Approximately 16 miles of new road were constructed to grade on the Banff-Jasper Highway with funds provided under special supplementary estimates, exclusive of 30 miles on the Golden-Revelstoke Highway, which does not traverse territory lying within the National Parks system. In Prince Albert National Park 7.5 miles of highway were constructed to grade from Waskesiu townsite to the Heart Lakes Portage.

At the present time a total of 592 miles of all-weather highway and 213 miles of secondary roads are maintained in the parks, in addition to 2,582 miles of trails and 1,165 miles of telephone lines. Revisions and improvements were also carried out on existing roads, including gravelling, oiling, and widening operations. A number of park trails and telephone lines were also improved or extended.

The mileage of roads, trails, and telephone lines within the National Parks of Canada on March 31, 1937, is detailed in the following table:

Means of Travel and Communication

Region	Roads			Trails Miles	Telephone Lines Miles
	Motor	Secondary	Total		
	Miles	Miles	Miles		
Banff National Park (including Lake Louise end, Banff-Jasper Highway)...	136.50	19.00	155.50	750.00	225.00
Buffalo National Park.....	2.00	30.00	32.00	55.00	36.00
Cape Breton Highlands National Park.....		55.00	55.00		
Elk Island National Park.....	16.00	2.00	18.00	3.75	
Glacier National Park.....		10.00	10.00	108.50	2.50
Jasper National Park (including Jasper end, Banff-Jasper highway).....	140.00	33.00	173.00	519.00	408.50
Kootenay National Park.....	63.00	13.00	76.00	117.00	62.00
Mount Revelstoke National Park.....	19.00		19.00	35.50	17.00
Point Pelee National Park.....	7.00		7.00		
Prince Albert National Park.....	66.50	8.00	74.50	478.00	162.00
Riding Mountain National Park.....	50.25	34.50	84.75	100.00	150.00
Waterton Lakes National Park.....	44.50	3.00	47.50	236.00	58.00
Yoho National Park.....	47.25	6.00	53.25	180.00	44.00
Total.....	592.00	213.50	805.50	2,582.75	1,165.00

ENGINEERING

Engineering work carried out in the National Parks during the year included the maintenance and operation of public services such as electric lighting, telephone, water supply, and sewer systems; the construction and maintenance of motor highways and secondary roads, bridges, trails, and buildings in the parks, and the maintenance of streets and walks in park townsites.

Construction of the Banff-Jasper Highway continued; 8.27 miles being completed to grade at the Banff end, and 7.76 miles at the Jasper end. The uncompleted portions of this highway include 42.8 miles of road in Banff Park and 4.9 miles in Jasper Park.

The construction of a motor road, in Prince Albert National Park, from Waskesiu townsite around the eastern end of Lake Waskesiu to the Heart Lakes Portage, a distance of approximately 7.5 miles, was continued.

Additional engineering work was carried out on the construction of a bath-house and swimming pool at Miette Hot Springs in Jasper Park; installation of a sewer system at Lake Louise townsite; extension of the water supply at Waterton Lakes Park; and improvement of golf courses at Riding Mountain, Prince Albert, and Waterton Lakes National Parks.

A complete summary of engineering work carried out in the National Parks and Historic Sites during the year is contained in the report of the Director of Surveys and Engineering Branch.

BUILDING CONSTRUCTION AND LANDSCAPE

Extension and maintenance of park buildings, streets, highways, and public utilities were carried on during the year with funds provided under regular Parks appropriations as well as under special supplementary estimates. Plans and specifications for all projects were either prepared, revised, or checked by the Architectural Division. A detailed summary of the work done appears in the report of the Chief Engineer, Engineering and Construction Service.

Following are some of the more important items of construction that were completed in the fiscal year 1936-37:

Banff National Park—Administration, Post Office, and Customs building; registration building and staff quarters at eastern entrance; extension to Cave and Basin bath-house.

Buffalo National Park—Abattoir.

Elk Island National Park—Golf club-house.

Georgian Bay Islands National Park—Two shelters; combination store-house and stable.

Glacier National Park—Warden's cabin and storehouse.

Jasper National Park—Superintendent's residence and garage; fire-hall; warden's shelter; gateway registration building; toilet buildings at Cottonwood Creek camp-ground.

Point Pelee Park—Comfort station.

Prince Albert National Park—Addition to Administration building; addition to community building; three warehouses; 100-man camp (including two bunk-houses, laundry, office, and combined dining hall and kitchen).

Riding Mountain National Park—Gateway registration building; fire-hall; incinerator.

Waterton Lakes National Park—Community buildings at Waterton Park and Cameron Lake; stores building, extension to Administration building; addition to men's bath-house.

Yoho National Park—Camp caretaker's lodge; workshop.

Fort Chambly Historic Site—Museum building.

Landscaping—Landscape work carried out during the year included additional development work on the grounds surrounding the Administration building at Banff, and rock garden project. The grounds surrounding the buildings at the eastern entrance to Banff Park were also landscaped, as were the grounds enclosing the Administration building at Wasquesiu in Prince Albert Park.

UNEMPLOYMENT RELIEF

Unemployment relief work, which has been carried on in the National Parks since 1930, was continued on a smaller scale during the year under review. Permanent park residents with domestic responsibilities who were in need were provided with work on a quota basis in Banff, Jasper, Waterton Lakes, and Yoho National Parks in April, May, and June, 1936. A total of 225 individuals

were given employment during this period and were provided with 4,963 man-days of work. Dependants of individuals employed numbered 530, making a total of 755 permanent park residents assisted. Relief for permanent park residents was also provided in Banff and Jasper Parks between December 1936, and March 1937, during which a total of 207 individuals were provided with 7,168 man-days of work. Dependants of these individuals numbered 329, making a total of 536 park residents assisted.

A relief camp for single homeless men was operated in Prince Albert National Park during April and May, 1936, to care for 407 individuals transferred from relief camps operated by the Department of National Defence at Dundurn, Saskatchewan.

Activities carried out for the relief of unemployment included townsite improvement; highway and trail construction and maintenance; cutting firewood for camp-grounds; snow removal; brushing and clearing.

PUBLICITY AND INFORMATION

Development of tourist travel to the National Parks is stimulated by the work of the Publicity and Information Division. By means of lectures, the loan of motion picture films, the preparation and distribution of press articles, descriptive literature, maps, and photographs, and also by correspondence, the Bureau maintains close contact with individuals and organizations interested in the promotion of tourist travel. Particular attention was devoted to the attraction of visitors from the United States. Close co-operation was extended during the year to the Canadian Travel Bureau, which was furnished with many press articles, photographs, and other material.

The motion picture library of the Division now contains 121 film subjects comprising a total of 1,285 prints, descriptive of the scenery, wild life, and recreational opportunities of the National Parks. These films (of the silent type) are all in 35 millimetre size, and many are also available in 16 millimetre size.

During the year 18,570 feet of new negative film and 108,780 feet of positive film were added. The above included 31 prints of film subjects in 35 millimetre size and 222 prints in 16 millimetre size. Six new film stories or subjects were produced and released for showing under the following titles: *Warriors of the Deep, Saskatchewan's Scenic Lakeland, Wild Life Ways, The Highlands of Cape Breton, In the Shadow of Assiniboine, Snowtime in the Rockies.*

The following comparative statement of distribution of films descriptive of Canada's National Parks during the past three fiscal years indicates the growing demand: 1935, 1,721 films; 1936, 3,293 films; 1937, 3,884 films.

Prints are now in circulation in the United States, Great Britain, Holland, France, Australia, Argentine Republic, Austria, Poland, New Zealand, Norway, Czecho-Slovakia, Hawaii, and India, as well as in various parts of Canada. All films are edited and titled in the Division laboratory. During the past year approximately 1,500 reels were screened in the Division's projection room, and 457 were shown in Ottawa and vicinity.

The lantern slide library, which contains several thousand subjects depicting the scenery, fauna, and flora of the National Parks, also experienced an increased demand for this type of material. During the year the library stock was augmented by 1,914 slides. A total of 8,229 slides, accompanied by lecture notes, were lent for varying periods.

Approximately 165 halftone cuts, line cuts, and matrices were loaned to editors, publishers, and writers during the year.

A total distribution of 10,342 photographic prints of various sizes descriptive of National Parks subjects was made during the year to newspaper services, publishers, writers, and others. The photographic library was augmented by 241 new negatives and 14,622 prints and enlargements.

A distinctive feature of the work of the Division is the preparation of press articles descriptive of the scenic, wild life and recreational attractions of the National Parks. As a result of numerous requests for information of a general nature on National Parks, 25,000 copies of a new pamphlet, *The National Parks of Canada*, were printed. This publication contains, in its fifty-six pages, brief descriptions and numerous illustrations of the scenic and recreational attractions of the National Parks. A first edition of 10,000 copies of a catalogue of exhibits in the new historical museum at Fort Beauséjour National Park, prepared by the honorary curator, Dr. J. C. Webster, C.M.G., was also issued during the year. Three thousand copies of the Annual Report of the Commissioner for 1935-36 were printed in illustrated form. A revised edition of the descriptive pamphlet *Waterton Lakes National Park* was also prepared for publication during the year, as well as a map folder *Points of Interest in Banff and Vicinity*.

During the year 96,113 copies of official Parks publications and approximately 6,500 copies of maps and literature published by private enterprise were distributed.

An exhibit was arranged at the Canadian National Exhibition in Toronto in August 1936. The exhibit occupied approximately 3,000 square feet of floor space and included mounted specimens of wild life native to the National Parks, and photographs, oil paintings, and coloured photographic transparencies arranged in electrically lighted cases. Exhibits of National Parks publicity material were also staged at the "Produced in Canada" Exhibition in Montreal, and at the Great Lakes Exposition at Cleveland, Ohio.

A group of fifty art photographs was exhibited in England through the courtesy of Mr. Harper Cory, lecturer and author. A group of 100 photographs, on special mounts, was forwarded to the Art Exhibition Bureau of London, England, for exhibition in Great Britain. A number of framed art photographs were also loaned to the Danforth Branch Public Library of Toronto.

REVENUE

Receipts from public utilities and other sources of direct revenue in the National Parks of Canada, including administration of the Migratory Birds Convention Act, amounted to \$272,415.09 for the fiscal year 1936-37, compared with \$218,167.55 for the preceding twelve months, an increase of \$54,247.54.

A statement of revenue by parks, etc., follows:

Park	Revenue
Banff..	\$ 128,879 94
Buffalo..	26,530 52
Elk Island..	3,063 38
Fort Anne..	1 15
Georgian Bay Islands..	81 00
Glacier..	124 19
Jasper..	41,067 54
Kootenay..	15,450 73
Point Pelee..	1,577 00
Prince Albert..	7,419 81
Riding Mountain..	33,890 81
Waterton Lakes..	8,896 95
Wawaskesy..	216 00
Yoho..	3,992 06
Historic Sites..	4 00
Migratory Birds (taxidermist licences)..	58 00
Fines and forfeitures:—	
National Parks Regulations..	\$ 653 31
Magistrates fees..	53 00
Migratory Birds Convention Act..	455 70
	1,162 01
Total..	\$ 272,415 09

NATIONAL PARKS OF CANADA

The extension of Canada's National Park system to include seashore areas in the Provinces of Nova Scotia and Prince Edward Island was an outstanding feature in the work of the National Parks Bureau for the fiscal year 1936-37. During this period the Cape Breton Highlands National Park, comprising an area of approximately 458 square miles in the northern part of Cape Breton Island, Nova Scotia, and a park comprising an area of approximately 7.6 square miles along the northern coast of Prince Edward Island, were established under the provisions of the Nova Scotia and Prince Edward Island National Parks Act of 1936.

An event of interest that occurred in Waterton Lakes National Park during the year was the ceremony attending the re-dedication of the Waterton-Glacier International Peace Park, which complemented a similar ceremony held in Glacier National Park in 1932.

As the term "National Park" in Canada is used to cover a variety of reservations the National Parks may be divided, for purposes of comparison, into three main classes. These include: (a) the scenic and recreational parks, situated in British Columbia, Alberta, Saskatchewan, Manitoba, Ontario, Nova Scotia, and Prince Edward Island; (b) the wild animal parks or preserves, situated in Alberta; and (c) the national historic parks situated in Nova Scotia and New Brunswick.

Scenic and Recreational Parks

BANFF NATIONAL PARK

This mountain playground, with its many ice-fields and glaciers, is typical of the central Rockies. The park has an area of 2,585 square miles and located therein are the world famous resorts of Banff, with its hot mineral springs, and Lake Louise. Motor highways in the park have a total length of 136.5 miles, in addition to which there are 750 miles of trails and numerous motor campgrounds. The park is a big game sanctuary and a year-round sports centre, recreations including motoring, riding, climbing, hiking, golf, tennis, boating, swimming, ski-ing, skating, and curling. Visitors during 1936-37 totalled 178,940.

Tourist travel to Banff Park during the fiscal year 1936-37 showed an increase of more than 25 per cent over 1935-36. Banff Park is linked with the adjacent areas, Yoho and Kootenay Parks, by standard highways, and in the compilation of tourist travel figures due consideration is given to traffic originating in these areas.

The total number of visitors entering Banff Park during the past year compared with figures for the previous season is given in the following table:

Visitors to Banff National Park

Route	Motor Vehicles		Passengers	
	1936-37	1935-36	1936-37	1935-36
<i>Westbound—</i>				
Via Banff Park (Eastern Gateway entrance).....	40,872	33,038	135,839	109,098
<i>Eastbound—</i>				
Via Kootenay Park (Radium Hot Springs entrance).....	5,707	4,254	17,788	13,659
Via Yoho Park (Leancoil entrance).....	1,825	1,565	5,313	4,405
Tourists for Banff Park by rail—east and west (estimated).....			20,000	16,000
Totals.....	48,404	38,857	178,940	143,162

The Information Bureau was opened on May 20 and closed September 30, during which period 34,414 inquiries of all descriptions were dealt with, an increase of 14,459 over the season 1935-36.

With the advent of equipped bungalow camps, which are operated at various points in Banff Park by private enterprise, the popularity of the public motor camp-grounds generally has decreased. Registration at the Tunnel Mountain camp-ground at Banff, however, showed an increase during the 1936 season, when 4,889 motor vehicles and 18,410 campers were accommodated. The number of person days spent in camp was 46,438, representing an average stay of 2.52 days a person.

The new Park Administration, Post Office, and Customs building was occupied during the early summer. Well situated at the head of Banff Avenue the building overlooks the town, and its landscapped gardens at the rear formed a popular point of interest for visitors. New registration buildings at the eastern end of the park were also completed, and the surrounding grounds modestly landscaped.

A close check was kept on all matters relating to sanitation, and health ordinances were strictly enforced. Samples of water and milk were periodically subjected to biological examination; and tuberculin tests made of dairy cattle found the latter free of disease.

A total of 18,906 licences and permits were issued during the fiscal year 1936-37, compared with 14,848 for the previous year. In addition, 39 building permits were issued for an estimated property value of \$28,225.

Extensive improvements were carried out on the large pool at the Cave and Basin bath-house, and a small wading pool for children was constructed. A new office building constructed during 1935-36 was occupied by the staff. A total of 36,249 persons passed through the turnstile at the Cave and Basin Springs, an increase of 12,997 over the corresponding period for 1935-36. The total number of persons making use of the Upper Hot Springs bath-house during the year was 56,083, an increase of 2,078 over 1935-36.

In the vicinity of Banff mosquito control was resumed and during the spring and early summer a total of 2,957 gallons of oil was distributed in potential breeding places.

All main highways were repaired and maintained during the year. Two miles of the road forming a section of the Trans-Canada Highway was improved by re-alignment, widening, and re-grading. The park highways and streets in the town of Banff were treated with 154,191 gallons of dust-layer oil. Good progress was made in the construction of the Banff-Jasper Highway, a total of 8.27 miles having been constructed to grade within Banff Park during the year.

Improvements were made to the Cascade, Healy Creek, and Bow River trails, and to the trail around the canyon on Howse River. Other park trails were maintained.

A new forest telephone line approximately 3 miles in length was constructed from the Banff-Castle motor road to the Mount Norquay ski-ing area. The balance of the system, consisting of approximately 225 miles of line, was kept up to standard.

The fire hazard was high owing to the dry summer, and in spite of precautions exercised fifteen fires and one railway fire were reported, a total area of 7,649 acres being burned over. Three of these fires, located in the Cascade River, Mistaya River, and Howse Pass regions, respectively, assumed serious proportions, and were extinguished with some difficulty. The other fires were quickly suppressed.

The park museum, situated in the former Administration building, continued to attract many visitors.

Observations by park officials indicate that big game is increasing, particularly in the case of Rocky Mountain sheep and deer, which were very numerous in the vicinity of Banff. Elk and moose appear to have increased and black bear were plentiful.

The stocking of lakes and streams in the park has resulted in greatly improved conditions, notably in Redearth, Fortymile, Corral, and Cascade Creeks; and Taylor and Larch Lakes, and Lehman Lake, once barren of fish, now contain some of the largest cut-throat trout in the park waters. During the year the waters along the route of the Banff-Jasper Highway, including Bow, Peyto, Hector, Mistaya, and Waterfowl Lakes, were stocked with suitable species.

Distribution of eggs, fry, and fingerlings from the Banff fish hatchery during the past year were made as follows: in park waters—cut-throat trout, 535,000; rainbow trout, 91,000; salmon trout, 96,000; speckled trout, 256,000; total, 978,000. In provincial waters—brown trout, 456,000; cut-throat trout, 487,000; rainbow trout, 559,000; Kamloops trout, 95,000; total, 1,597,000. The grand total distributed was 2,575,000.

The Dominion Ski Championships held on the slopes of Mount Norquay from March 5 to 8, 1937, attracted competitors and spectators from the United States and other foreign countries, as well as from different parts of Canada. It is estimated that 5,000 persons were in attendance on Sunday, March 7. Extensive improvements carried out by the Parks Bureau resulted in the completion of a fine downhill course $1\frac{1}{2}$ miles long, and a championship ski jump.

The annual winter carnival was held at Banff from February 10 to 13. The annual bonspiel of the Banff Curling Club took place during the week of February 8. The annual Indian Days Celebration was staged in Banff for a 3-day period in July, providing an interesting spectacle for visiting tourists.

CAPE BRETON HIGHLANDS NATIONAL PARK

Established in 1936, Cape Breton Highlands Park is a typical example of the rugged coastline of Cape Breton Island. Its mountain background and remarkable seascape are visible from the motor road that crosses the park. The park has an area of 458 square miles, contains 55 miles of motor highways, and recreations include fishing, boating, bathing, and hiking.

The establishment of the Cape Breton Highlands National Park in Nova Scotia added a new type of scenic and recreational unit to Canada's system of national playgrounds—a seashore park. The new park is situated in the counties of Victoria and Inverness, in the northern part of Cape Breton Island. Its western boundary is formed by the Gulf of St. Lawrence and on the north and east the park is bounded roughly by the Atlantic Ocean.

The park is reached by a motor road known as the Cabot Trail, which connects with the main provincial highway system of the province. Entrance may also be made over an eastern route leading through the famous Bras d'Or Lake region to Ingonish, and over a western route by way of the well known Margaree Valley to Cheticamp.

The park embraces some of the finest maritime scenery on the Atlantic seaboard. Steep, well-timbered hills rise sharply from the sea to a height of 1,200 to 1,700 feet, and picturesque headlands and capes jut out into the water to form delightful bays and sandy coves. From the Cabot Trail, which follows the shoreline of the Gulf of St. Lawrence and traverses the height of land eastward to Cape North settlement, the road passes through a region of well-wooded, rolling hills, which in appearance greatly resemble the Highlands of Scotland. From Cape North the highway runs in a southeasterly direction, and after touching Neil Harbour on the Atlantic Ocean continues south to the villages of North Ingonish and South Ingonish, which are located near the southern boundary of the park. The interior of the park is a rolling plateau or moorland, dotted with many little lakes. The region, according to historic records, was once the home of great herds of caribou.

A resident superintendent is located at North Ingonish and a park warden service, responsible for fire and game protection, has been organized. Development work was commenced on a small scale toward the end of the season, and for the most part was confined to the reconstruction and revision of portions of the Cabot Trail, which links together the main settlements in the region of the park, including North Ingonish and South Ingonish and the Cape North Settlement on the eastern watershed, and Pleasant Bay and Cheticamp across the height of land on the west.

The region surrounding the park already is very popular with motor tourists, and although no attempt was made during the year to tabulate registrations, it is estimated that several hundred automobiles travelled over the Cabot Trail between Cheticamp and Ingonish. Many were from the United States. The picturesque villages and fishing ports of the vicinity are popular centres of attraction for artists, and the nearby waters present fine opportunities for deep-sea angling. The fishing ports situated along the eastern coast of Cape Breton Island provide access to the finest sword-fishing grounds on the Atlantic Coast.

GEORGIAN BAY ISLANDS NATIONAL PARK

The park includes thirty islands in the Georgian Bay Archipelago, many of which provide recreational opportunities for camping, fishing, boating, and bathing. Unique limestone formations give Flowerpot Island its picturesque name. The park was established in 1929 and has an area of 5.37 square miles. Beausoleil Island, north of Midland and Penetanguishene, is the largest of the island group, and on it are located the park headquarters, camp-sites, and other tourist attractions.

During the past year 4,878 persons visited Beausoleil and Flowerpot Islands, a decrease of 643 from last year's attendance. Improvements carried out for the convenience of visitors on Beausoleil Island included the construction of large docks at Rockview Beach and Frying Pan Bay, and the main dock at headquarters was extended. A small lighthouse, which provides a beacon light visible for a distance of 6 miles, was erected on the main headquarters dock. Shelters were erected at Godette's Grove and at Champlain Point.

Improvements carried out on Flowerpot Island included the construction of a pavilion equipped with rustic tables, seats, and a flagstone floor. Trails were cleared and extended, and entrances constructed to two caves. The entrance to the small harbour on the south side of the island was deepened.

An increase in the number of deer inhabiting Beausoleil Island was noted, and red fox were reported to be quite numerous. Partridge, black squirrel, and many species of bird life were also more numerous.

GLACIER NATIONAL PARK

This park, with its snow-capped peaks, and immense ice-fields, luxuriant forests, alpine flora, and subterranean caves, is typical of the Selkirk Mountains region. It is the centre for alpine climbing, and in 1936-37 attracted an estimated total of 1,200 visitors. The park was established in 1886 and has an area of 521 square miles. Glacier National Park is not accessible to the visitor by motor highway, and, lacking facilities for accommodation, is visited by only a limited number of tourists.

Throughout the year the trails were maintained. Three bridges on the Beaver River trail were reconstructed. A new warden's cabin was completed at Stony Creek, and buildings at Glacier were re-conditioned and painted.

Five small fires were reported in the park during the year.

Wild animal life is abundant, due to the ideal sanctuary conditions prevailing, and increases in many species were reported. Large herds of caribou were observed in the vicinity of Bostock Creek and Baloo Pass, and mule deer

and Rocky Mountain goat were common. A gratifying feature was the increase in moose and elk species, which some years ago were practically unknown in the park area. Grizzly and black bear, as well as beaver and marten also were plentiful. Predators, including coyote and wolverine, were scarce.

Among the predominant species of bird life were ptarmigan and blue grouse.

JASPER NATIONAL PARK

This mountain wilderness, on the eastern slopes of the Rockies, is rich in historical associations and contains many majestic peaks, alpine valleys, glaciers, canyons, and beautifully coloured lakes. Outstanding points of interest include Mount Edith Cavell, Maligne Lake, Tonquin Valley, and Miette Hot Springs. The park is a big game sanctuary and alpine playground, and recreations include motoring, riding, hiking, climbing, fishing, bathing, tennis, golf, and ski-ing. Motor highways extend for 140 miles through the park and trails cover 519 miles. The park was established in 1907 and has an area of 4,200 square miles.

A gratifying increase in the volume of tourist travel to Jasper National Park was registered during the fiscal year 1936-37. A total of 14,659 visitors entered the park during this period, an increase of 3,678, or 33 per cent, over the figure for 1935-36. Improved conditions on the Edmonton-Jasper Highway were mainly responsible for an increase in motor travel, as 1,175 motor vehicles and 3,589 passengers were registered at the park entrance. Rail traffic also showed a substantial gain, 11,070 persons entering the park in this manner, compared with 8,721 in 1935-36.

The main streets in Jasper townsite were maintained in good condition, and treated with two applications of dust-laying oil. Tree planting was carried out on the boulevards. Owing to the light snowfall during the winter of 1935-36, the water in Cabin Lake, from which the townsite supply is drawn, was much lower than usual during the summer. This condition was overcome by constructing a ditch from High Lake, 2 miles up the valley to an old watercourse, and the subsequent flow restored the waters of Cabin Lake to normal level.

Licences and permits to the number of 3,096 were issued during the year, an increase of 1,472 over the corresponding period for 1935-36.

All park roads were maintained in good condition. Work was carried out on the Maligne Canyon and Pyramid Lake roads, both of which were oiled. The Mount Edith Cavell Highway was widened between miles 15½ and 17½, and also gravelled where required. Construction on the Jasper end of the Banff-Jasper Highway was advanced to mile 55·8, approximately 7·8 miles having been completed to grade during the year. The bridge over Snake Indian River was repaired, and one of the scenic bridges at Maligne Canyon was rebuilt, and repairs carried out on two others.

Only two of the park motor camp-grounds—those situated at Patricia Lake and Medicine Lake—were open to the public last year, but registrations at both these points were greater this year. Figures for these areas follow: Patricia Lake, 158 cars and 581 campers; Medicine Lake, 40 cars and 119 campers.

The camp-ground at Cottonwood Creek, although closed for the season, was improved by the installation of water services and sanitary conveniences and the levelling of the grounds. Improvement to the camp-grounds at Patricia Lake was also undertaken.

A new auto bungalow camp, consisting of 25 cabins, with electric light and running water, was constructed by private enterprise on the banks of Athabaska River, adjoining the park camp-ground at Cottonwood Creek.

A new residence in Jasper townsite for the Park Superintendent was completed in July, together with a garage and storehouse, and a new fire-hall was erected. A permanent water supply system was installed in the cottage of the caretaker at the Eastern Park gateway. Progress was made in the construction of a bath-house and pool at the Miette Hot Springs. A concrete pool, 30 feet by

75 feet, and from 3 to 8½ feet deep, was completed during the year. Dressing rooms, shower rooms, steam room, and a hot plunge also were in course of construction. A small shelter cabin was erected at Wolverine Creek, in Smoky River area, to accommodate park wardens on winter patrols.

Nine miles of secondary trail was constructed from Athabaska Falls to Fryatt Creek, and was used by members of the Alpine Club of Canada in reaching the camp-site in Fryatt Creek Valley. A standard trail also was constructed between Jasper and Pyramid Lake, which provides, along the way, fine views of Lac Beauvert and Lakes Edith and Annette. The forest telephone system in the park was extended a distance of 2 miles by the construction of a line from Jasper to the Patricia Lake automobile camp-ground.

A total of sixteen fires was reported, three of which reached serious proportions before they were extinguished. The most serious outbreaks occurred on the Medicine Lake-Maligne Lake trail and at Caledonia Lake. Two small railway fires were reported.

No serious losses were noted among the game animals during the year. Elk, moose, mule deer, Rocky Mountain sheep and goat, and caribou are apparently thriving. Grizzly bear were more numerous, and fine specimens of black and brown bear were observed in the vicinity of Jasper Park Lodge. Of the fur-bearing animals, beaver, otter, and lynx were the most plentiful. Coyote, wolverine, and cougar were less common.

Fishing conditions in Jasper Park waters were good. The Medicine-Maligne Lakes system was popular with fishermen, and 973 free permits for this area were issued, an increase of 23 over the corresponding period in 1935. Many of the large lakes in the vicinity of the town of Jasper were stocked with rainbow trout fry, as a result of investigations carried out in 1935 by Dr. C. M. Mottley of the Biological Board of Canada. Rainbow trout fry hatched in the Jasper Fish Hatchery were distributed as follows: in park waters, 428,000; in provincial waters, 175,000; total distribution, 603,000.

The annual camp of the Alpine Club of Canada was held in Fryatt Creek Valley, about 9 miles south of Athabaska River Falls, from July 18 to August 4, and was attended by visitors from many countries.

Jasper Park offers opportunities for many varied forms of recreation, including riding, hiking, golf, tennis, motoring, fishing, and climbing in summer and ski-ing in winter.

Ski-ing was very popular in Jasper Park during the past winter, and seven parties registered out to the Tonquin Valley and Shovel Pass areas. A rest cabin has been erected in Little Shovel Pass by the Maligne Lake Ski Club, a local organization.

KOOTENAY NATIONAL PARK

This mountain park is on the west slope of the Rockies and encloses the Vermilion-Sinclair section of the Banff-Windermere Highway. It has many deep canyons, beautiful valleys, and hot mineral springs. Motor camp-grounds are provided and recreations include bathing, riding, hiking, and motoring. There are within the park 63 miles of motor highways and 117 miles of trails. The park was established in 1920 and has an area of 587 square miles.

In common with the adjoining areas of Banff and Yoho Parks, Kootenay National Park in British Columbia enjoyed a gratifying increase in tourist travel during the fiscal year 1936-37. A total of 16,668 motor vehicles and 53,004 persons entered the park, an increase of 4,099 motor vehicles and 12,557 persons over the year 1935-36. These figures are made up as follows: east-bound traffic, 7,609 motor vehicles and 23,717 passengers; west-bound traffic, 9,059 motor vehicles and 29,287 passengers. In view of the fact that many visitors enter Kootenay Park by highway at Vermilion Pass and return eastward to Banff Park without registering at Radium Hot Springs, 5 per cent of Banff Park's west-bound traffic, namely 2,044 motor vehicles and 6,792 passengers, has been included in the above figures.

During the past year, the Province of British Columbia, with Federal Government aid, commenced the hard-surfacing and improvement of the Provincial Highway, which forms the main avenue of travel from Kingsgate on the International Boundary to Radium Hot Springs, the park headquarters.

The park motor camp-grounds received good patronage during the year. At the Sinclair Canyon (Red Rock) camp-ground, records show that 1,336 motor vehicles and 4,794 persons were accommodated. The time spent in camp was 7,801 person days, or an average stay of 1.7 days a person.

The Government buildings in the townsite of Radium Hot Springs were painted and a stone retaining wall was constructed in terraces between the bath-house and the Park Gateway building. The installation of a complete sewer system for the townsite and camp-ground was also completed. The bath-house and swimming pool at Radium Hot Springs were improved by the installation of new showers.

The Banff-Windermere Highway, which traverses the park from north to south, was maintained in good condition. Park trails were widened and re-located where necessary. Only one fire was reported during the year. This blaze, which was confined to an area of less than half an acre, was extinguished without damage to timber.

Big game in the park appears to be thriving. Rocky Mountain sheep and moose were common along the Banff-Windermere Highway, and elk are increasing in numbers. Black and grizzly bear were also plentiful.

MOUNT REVELSTOKE NATIONAL PARK

This park is situated on the alpine plateau that forms the summit of Mount Revelstoke on the western slope of Selkirk Mountains. It is accessible by a spectacular motor highway. A camping area has been laid out and the chief recreations are fishing and hiking. Motor highways total 19 miles, and trails, 35.5 miles. The park was established in 1914 and contains an area of 100 square miles.

The most westerly unit in Canada's system of National Parks, Mount Revelstoke Park, is a popular point of interest to tourists from the Pacific Coast and western United States. As there is no resident superintendent in the park, a supervised record of visitors is not maintained, but on the basis of registrations at the lookout station, situated on the summit of Mount Revelstoke, it is estimated that 7,188 persons entered the park during the year.

The park is reached from Revelstoke by a motor road, 19 miles in length, which winds up the side of the mountain and provides spectacular views along the way. Maintenance of this road, including widening, was carried on during the year. Rock retaining walls were built and park trail improvement included the 2-mile trail overlooking Columbia River.

A number of serious fires occurred in the districts surrounding the park. One, which had its origin on the Big Bend Highway near Sixmile Falls, crossed the park boundary and burned over an area of approximately 1,200 acres before it was extinguished.

Owing to the elevation of the park area, practically all big game moves down to the lower altitudes during the winter. During the summer months, however, caribou and deer were numerous, and increases were noted in grizzly and black bear. The former, for the most part, are confined to the Clachnacudainn Range. Smaller fur-bearing animals and grouse were very plentiful.

No re-stocking of park waters with fish was undertaken during the year. Fishing was opened in Lakes Eva and Miller, into which cut-throat trout had been introduced during the three previous seasons. Good catches were reported.

Mount Revelstoke Park possesses ideal facilities for ski-ing, and the annual carnival held under the auspices of the Revelstoke Ski Club in February was well attended. The public camp-ground situated on Balsam Lake was well patronized during the summer and 1,797 campers were accommodated, an increase of 291 over the previous year.

POINT PELEE NATIONAL PARK

This park occupies the most southerly mainland point in Canada. It is a recreational area noted for its unique flora and fine bathing beaches, and is the resting place for migratory birds during their seasonal flights. There is a motor camp-ground in the park and 7 miles of motor roads. The park was established in 1918 and has an area of 6.04 square miles.

Tourist travel to Point Pelee National Park, Ontario, during the year exceeded all previous records. A total of 71,975 motor vehicles carrying 287,900 passengers entered the park, an increase of approximately 11 per cent over the previous year when 64,760 motor vehicles and 259,040 passengers were recorded. The figures for motor tourist travel to the park were made up of the following: Canadian motor vehicles, 29,445, carrying 117,780 passengers; United States motor vehicles, 42,530, carrying 170,120 passengers.

Point Pelee Park forms one of the most important bird sanctuaries in Eastern Canada, and the large marshes in the central part of the park offer a resting place and feeding ground for waterfowl during migrations to and from their nesting grounds in Northern Canada. Owing to shortage of water in the marshes, fewer ducks, geese, and swans were observed during the past year. Pheasants, which inhabit the park, were observed in large numbers, and black squirrels and rabbits were numerous. A serious fire broke out in August in the marshland area bordering the park, which was extinguished only after much difficulty.

A total of 1,046 camping permits were issued during the year, compared with 998 for the corresponding period in 1935-36. Duck shooting permits issued totalled 186.

PRINCE ALBERT NATIONAL PARK

Prince Albert National Park embraces 1,869 square miles of lake and forest land and contains a remarkable system of waterways and many interesting forms of wild life. The townsite of Waskesiu is used by residents of Saskatchewan as a summer resort and it is equipped with an up-to-date camp-ground. Recreations are golf, tennis, fishing, bathing, canoeing, and boating. There are over 74 miles of motor highways in the park and 478 miles of trails. The park was established in 1927.

The growing popularity of Prince Albert National Park, Saskatchewan, was shown by a substantial increase in the volume of tourist travel during the year. A total of 6,799 motor vehicles and 25,327 persons entered the park, as against 6,056 motor vehicles and 21,292 persons during 1935-36. Although the greater number of these visitors were residents of Saskatchewan, tourists from five other Canadian provinces and twenty-four of the States of the Union also registered at the park gateway.

An extension to the Administration building at Waskesiu was made, which not only improved its appearance but provided additional accommodation. An extension was built to the Community hall situated in the park motor camp-ground, and the construction of a camp for the accommodation of seasonal employees at Waskesiu Lake, comprising several buildings, was completed. Improvements in the vicinity of the park breakwater resulted in better anchorage facilities for watercraft. Two streets in the townsite of Waskesiu were graded

and gravelled. The recreation field was improved by the construction of a drainage ditch which keeps this area quite dry. Four new tennis courts were laid out and surfaced with clay.

The number of visitors making use of the park camp-grounds showed an increase during the year. Accommodation was provided for 4,894, as compared with 4,216 for 1935-36. Registrations at the various camp-grounds follow: Wasquesiu, 4,652; Kingsmere Lake, 87; Crean Lake, 155. Motor vehicles numbered 1,264, an increase of 327 over the corresponding period last year.

All thoroughfares were kept in good condition. A new scenic drive for park motorists was made available when the road to Wasquesiu Narrows, 10 miles in length, was completed. The new road from Wasquesiu to the Heart Lakes Portage was graded for its entire length of 7.5 miles, and, when gravelling is completed, will provide another delightful scenic drive along Wasquesiu Lake. All existing trails were brushed and kept in condition.

The abnormally dry weather prevailing throughout northern Saskatchewan was responsible for a number of serious fires in Prince Albert Park. A total of twenty-two fires was reported within park boundaries. Aerial patrols carried out by units of the Royal Canadian Air Force were of great assistance in helping to locate and combat the fires.

Biological surveys of lakes and streams in the park were carried on by Dr. D. S. Rawson of the University of Saskatchewan. As an experiment, a number of black bass were released, before spawning, in Wasquesiu and the Heart Lakes. Excellent catches of lake trout in Kingsmere and Crean Lakes were reported.

Big game animals in the park appear to be increasing, particularly moose, elk, and caribou. The deer population remains about the same. Smaller animals including beaver, fox, snowshoe rabbit, and weasel have increased. A decrease in the number of sharp-tail grouse and Hungarian partridge was noted. Wolves in the northern part of the park are above normal in numbers. In August 1936 five buffalo from Elk Island National Park, Alberta, were released in an enclosure of about 40 acres near the park gateway.

The second nine holes of the park golf course were opened for play in August, and the course was well patronized during the season. A total of 2,233 single-round tickets were issued, in addition to 106 daily, 61 weekly, 1 monthly, and 11 seasonal tickets. The annual park golf tournament, which is now known as the Lobstick Golf Tournament, was held in August, in which leading provincial players competed.

The eight tennis courts at Wasquesiu, which are among the finest in Saskatchewan, were well patronized.

PRINCE EDWARD ISLAND NATIONAL PARK

Prince Edward Island National Park was established in 1936, with an area of 7.6 square miles. It embraces a coastline strip, over 20 miles in length, on the north shore of Prince Edward Island and includes some of the finest sand beaches in Eastern Canada. It is being developed as a recreational area in keeping with National Parks standards.

RIDING MOUNTAIN NATIONAL PARK

This park is a rolling woodland, dotted with many sparkling lakes, on the summit of the Manitoba escarpment. It is a big game sanctuary, summer resort, and recreational area. Motor camp-grounds are provided and recreations include swimming, golf, tennis, bathing, and riding. A wild animal enclosure contains herds of buffalo and elk. The total length of motor highways is 84 miles and there are 100 miles of trails. The park was established in 1929, with an area of 1,148 square miles.

Registrations at the park gateways numbered 26,498 motor vehicles and 101,013 persons, compared with 24,148 motor vehicles and 93,895 persons for the fiscal year 1935-36. The previous record for a season's attendance was set in 1934-35 when 26,418 motor vehicles and 100,035 persons were registered. It is worthy of special note that the number of visitors from the United States and other countries showed an increase over the previous year. A total of 639 motor vehicles and 2,268 persons from foreign countries was recorded.

The popularity of the park as a meeting ground for conventions was maintained. Organizations that met in Riding Mountain Park during the season were the Manitoba Bar Association, Manitoba Pharmaceutical Association, Manitoba Dental Association, and many other groups, which included individuals prominent in the professional and social life of the province.

The tourist camp-ground at Wasagaming was well patronized during the past year, 5,378 persons being accommodated. A total of 91,593 person days were spent in camp, averaging 17 days a person. An increase in the number of motor trailers making use of the camp-ground resulted in a demand for electrical distribution lines with which to service these travelling caravans. Extension and maintenance of the camp-ground were carried out. The completion of the water and electrical distribution systems in the camp-ground added greatly to the convenience of those in camps. Water is on tap in all kitchen shelters. Development work at the Lake Katherine camp and picnic ground was completed. This area, which is situated about 4 miles east of Wasagaming, was popular as a picnic resort, although camping during the year was limited. Temporary camping accommodation was also arranged at Moon Lake, along the new Clear Lake-Dauphin Road.

Improvement of the park townsite and the extension of municipal services were carried out during the past year. The fire-hall and staff quarters were completed, and good progress was made on the construction of an incinerator. Streets and walks were graded and surfaced and grounds improved in the vicinity of the Government work shops. The electrical distribution system for the townsite was completed, service connections made, and ornamental lighting fixtures placed on the breakwater and central park areas. Other improvements carried out included the completion of a water system that supplies water at all points in the townsite and camp-grounds. A sewage disposal system was constructed for the business section of Wasagaming, and sewers laid to serve a part of the section. General operation of municipal services and maintenance of streets, walks, Government buildings, and grounds was also carried on. Development work carried out by private enterprise included the construction of a motion picture theatre.

There are at present 179 privately owned cottages and 20 business establishments in Wasagaming, and 20 additional cottages on the north shore of Clear Lake. Government buildings total 86.

During the year 5,271 licences and permits were issued.

A total of 32 miles of newly constructed highway was opened during the year. The Clear Lake-Dauphin Highway between Clear Lake and a point on the northern boundary of the park, and the North Shore Road revision, which connects the former with the Norgate Road, were the most important avenues of travel made available for use. The popularity of the Dauphin-Clear Lake Road as an entrance to the park was evident, as 7,088 cars with 24,250 passengers were registered at the northern gateway. Roads were maintained during the year and the busiest sections of the highways were treated with oil. A new entrance gateway, of standard design, was constructed at the park boundary on the Clear Lake-Dauphin Road.

Although no extensions to the park telephone lines were made, maintenance of the 150 miles of existing line was carried out; also approximately 100 miles of trails in the park.

Twenty-one fires were detected and extinguished on park lands, and one fire adjacent to the park was also controlled. Fires in the park area covered 2,542 acres and that adjoining the park 195 acres. Several of these fires were of incendiary origin, and although costly to control, were confined to meadows and previously burnt areas. Air patrols were carried out by the Royal Canadian Air Force and proved of the utmost value in locating fires.

Conditions in the park were favourable for wild animal life. Moose, deer, and elk were reported by the warden staff to be in excellent condition, and observations indicate an increase in these species. During the late winter racks were kept filled with feed for elk and deer. Coyotes were present in the park. Rabbits were on the decline. Bird life in the park was normal, and ducks, geese, swans, cormorants, and pelicans were represented in migratory waterfowl passing through the park. The exhibition herd of buffalo placed in the enclosure at Audy Lake in 1931 have increased, and on March 31, 1937, numbered 65 head. A number of elk have been removed, leaving 52. Other species enclosed include 4 mule deer, 4 white-tailed deer, and 5 moose. Over 3,600 people visited the enclosures.

Fish rearing ponds were constructed in a small creek on the north shore of Clear Lake, and arrangements have been completed for the placing of rainbow trout fry in these ponds. They will eventually be liberated in Clear Lake.

The broad sandy beach at Wasagaming provided ideal swimming under the supervision of a lifeguard. The park tennis courts at Wasagaming were well patronized, the fourth annual tennis tournament sponsored by the Wasagaming Board of Trade attracting an entry of 150 competitors.

The park golf course, situated at the eastern end of Clear Lake, was used extensively both by local players and visitors. A total of 5,612 single-round tickets were sold, in addition to 128 daily, 48 weekly, 5 monthly, and 8 seasonal tickets. Improvements to the course included re-location of a part of the fourth fairway and green. Fairways were top dressed and approaches smoothed out. The piping for the water system was re-laid and a distribution line constructed between the golf course and the power plant at Wasagaming. The Manitoba Amateur Golf Championship Tournament was held on the park course in July, marking the first occasion on which this event has been staged elsewhere than in Winnipeg. The tournament attracted a large entry, including leading players of the province. The annual tournament of the Wasagaming Golf Club was held in September, which also drew a representative entry.

ST. LAWRENCE ISLANDS NATIONAL PARK

St. Lawrence Islands National Park is composed of thirteen islands among the "Thousand Islands" of St. Lawrence River, together with a mainland reservation at Mallorytown Landing, Ontario. These island parks form delightful recreational areas for campers and picnickers; and several of the larger islands, notably Beau Rivage, are used extensively for the summer camps of Girl Guides and similar organizations. Each island or group of islands is in charge of a caretaker, who is responsible for the care and maintenance of the docks, shelters, campstoves, and other conveniences that have been provided for visitors. The park was established in 1914, and contains 185.6 acres.

During the past year it is estimated that 16,800 visitors made use of the island parks, an increase of more than 4,000 over the season of 1935. In addition to the usual maintenance work carried out, new pavilions were erected on Aubrey and Grenadier Islands during the year.

WATERTON LAKES NATIONAL PARK

(Canadian Section, Waterton-Glacier International Peace Park)

Waterton Lakes Park is a mountain playground of unusual charm, on the east slope of the Rockies. Its varied flora and fauna, and the opportunities for such forms of recreation as swimming, boating, climbing, hiking, riding, golf, and tennis make it extremely popular. There are 44.5 miles of motor highways in the park and 236 miles of trails. It was established in 1895 and has an area of 220 square miles.

For the third successive season a gratifying increase was registered in the number of persons visiting Waterton Lakes National Park, Alberta. A total of 59,546 persons, which is a new high record, entered the park during the fiscal year 1936-37, an increase of 11,769, or almost 25 per cent, over the year previous. Motor vehicles to the number of 14,032 passed into the park, of which 9,104 were Canadian, and 4,928 were from the United States and other countries.

The new Chief Mountain International Highway, which directly connects Waterton Lakes Park with Glacier National Park, Montana, was opened in June 1936. The Canadian Customs port of Chief Mountain, situated on the International Boundary, was opened by the Department of National Revenue on June 15 and closed October 15, 1936. During this period 6,001 motor vehicles and 22,311 persons entered Canada by this port of entry, indicating the popularity of the new avenue of travel.

A notable event was the ceremony attending the dedication of the Waterton-Glacier International Peace Park, which took place at the Prince of Wales Hotel in Waterton Park on July 4, 1936. This ceremony complemented a similar one held in Glacier National Park, Montana, on June 18, 1932, and was carried out under the direction of Rev. Canon S. H. Middleton of Cardston, Alberta.

On July 5, 1936, a memorial cairn, erected to the memory of John George "Kootenai" Brown, first white settler in the park and later acting superintendent, was unveiled by His Honour the Lieutenant Governor of Alberta.

The Prince of Wales Hotel, the largest hostelry in the park, which had been closed for several seasons, was opened on June 27, and was well patronized during the year.

Streets in the park townsite were maintained in excellent condition and treated with two applications of dust-laying oil. The flagstone sidewalk constructed the year previous was extended from Waterton Avenue along Cameron Falls Drive for a considerable distance. The new Administration Office was completed during the year. An addition was made to the men's bath-house at Lake Linnet bathing beach, and the women's bath-house was completed and painted. Installation of a new water system for the townsite was commenced, and approximately 1,400 feet of pipe was laid.

The Information Bureau was open from June 15 to September 15, during which time 7,914 inquiries were given attention. This total was made up as follows: Canadian, 3,484; United States and foreign, 3,608; telephone calls, 278; miscellaneous, 545.

The park camp-grounds at Waterton Park, Cameron Lake, and Red Rock Canyon were well patronized during the year. The new Community building in the main camp-ground was completed with the laying of a flagstone floor. All buildings in the main camp-site were wired for electric light, which was available from the latter part of June to the end of the season. A new Community building also was erected at Cameron Lake camp-ground. Caretakers were employed during the season at Cameron Lake and Red Rock Canyon in addition to the main park camp-ground. A total of 2,266 persons registered at Waterton Park camp-ground, and the average stay was 10.8 days a person.

A section of rock retaining wall was rebuilt on the Akamina Road, which was also graded and re-surfaced where necessary. The Pass Creek Road was widened between miles 5 and 6, graded throughout, and gravelled. The Chief Mountain International Highway was given a light application of dust layer over its entire length. The construction of a new bridge over Cameron Creek below Cameron Falls was completed.

Extensive repairs were carried out on trails in Belly River district and extensions to the Bertha and Hell Roaring trails constructed. A new trail to Rowe Lake was cleared, and work was commenced on a trail to Lost Lake. Park telephone lines were maintained in good condition, and the line to Yarrow Creek was rebuilt. Repairs were also made on the Belly River line.

A total of 2,211 head of stock were grazed under permit, an increase of 290 compared with 1935-36.

Fishing conditions in the park were very satisfactory during the year. Good catches of cut-throat and rainbow trout were reported, and a lake trout weighing more than 21 pounds was taken from Upper Waterton Lake. Angling was also popular at Cameron, Bertha, Alderson, and Twin Lakes. During the season Crypt Lake, at the head of Hell-roaring Creek, was opened for the first time, and good catches of cut-throat trout were reported. Experimental work undertaken at Pass Creek, to improve fishing conditions in that area, included the construction of five dams to provide fish pools. During the fiscal year the following distribution of eggs, fry, fingerlings, and mature fish was made from the Waterton Fish Hatchery: in park waters—cut-throat trout, 397,000; rainbow trout, 70; total, 397,070; in provincial waters—cut-throat trout, 168,000; rainbow trout, 637,000; total, 805,000. Combined total, 1,202,070.

Wild animal life in the park continued to increase, with the exception of snowshoe rabbit, which appear to be decreasing in numbers. Rocky Mountain sheep and Rocky Mountain goat were more numerous than usual, and mule deer and elk are also increasing within the park area. Fur-bearing animals, including badger, ermine, marten, mink, marmot, muskrat, and beaver, were also evident in large numbers. Coyotes were more numerous than usual.

Three fires occurred in the park during the year, all of which were suppressed before serious damage had resulted. Assistance was rendered to the United States Park Service in extinguishing a serious fire in Glacier National Park, which threatened Many Glaciers Hotel on Swiftcurrent Lake.

Nine holes on the park golf course were maintained in good condition throughout the season, and a large tank and water system were installed for use on the greens. The park tennis courts were extensively patronized and were kept in good condition by treatment with chemicals. A wading pool was constructed for children in the playground area. The Lake Linnet bathing beach was very popular and a lifeguard supervised swimming throughout the season.

YOHO NATIONAL PARK

Yoho Park on the west slope of the Rockies contains the famed Yoho Valley with its numerous waterfalls; the Kicking Horse Valley, and Lakes Emerald and O'Hara. Motor highways have a total length of 47 miles; and trails, 180 miles. Established in 1886, the park has an area of 507 square miles. Visitors in 1936-37 totalled 64,461.

Yoho Park receives a large volume of motor traffic from Banff Park by way of Kicking Horse Pass which is not registered at the Leancoil gateway. However, an automatic registration device installed west of the park boundary recorded a total of 13,498 motor vehicles during the season, which, on the basis of four persons a vehicle, accounted for a total of 53,992 passengers.

Eastbound motor traffic entering the park at Leancoil included 2,737 motor vehicles and 7,969 passengers, compared with 2,348 motor vehicles and 6,607 passengers in 1935-36. Westbound motor traffic through the Leancoil gateway,

which is not included in the compilation of tourist statistics, comprised 4,138 motor vehicles and 11,811 passengers, compared with 3,418 motor vehicles and 9,716 passengers in 1935-36. It is estimated that an additional 2,500 persons entered the park by rail.

Increased use was made of the park motor camp-grounds by the public. A total of 1,159 motor vehicles and 4,521 persons used the various camp-grounds as follows: Kicking Horse camp-ground, 1,069 motor vehicles and 4,219 persons; Field camp-ground, 33 motor vehicles and 100 persons; Chancellor Park camp-ground, 57 cars and 202 persons.

During the year the construction of a new caretaker's lodge was commenced at the Kicking Horse camp-ground.

The main park highway, known as the Kicking Horse Trail, was improved by widening at several points, by the replacement of small bridges by steel culverts, and by general maintenance. A new bridge was also constructed over Sherbrooke Creek to replace the existing one. The branch roads leading to Emerald Lake and up Yoho Valley were repaired and improved by widening and reduction of curves. Grading of the Ottertail Road was also undertaken early in the season. A total of 12,560 gallons of oil was distributed on the streets and roads of the park.

Improvements to the park trail system included the re-location and grading of the trail from the Emerald Lake Road to Amiskwi Meadows, a distance of 18 miles, which involved the construction of nine pony bridges. Two miles of the Burgess Pass trail also were re-located and graded.

In addition to general maintenance of the park telephone system, the line from Hector west was re-located for a distance of 5 miles and new wiring installed.

No serious fires occurred within the park during the year. Seven fires reported were extinguished before great damage resulted. An additional six railway fires were extinguished, one of which burned over an area of 2 acres of grass land.

Increases in game animals were evident in Yoho Park. Rocky Mountain goat and moose appeared to be plentiful. Elk are increasing rapidly, apparently coming into the park from Banff Park. Predatory animals were very scarce.

A total of 91,400 rainbow trout fry was distributed in Wapta, Emerald, and O'Hara Lakes, and in Kendall and Cataract Creeks. Fishing conditions in park waters on the whole were very good.

Animal Parks

BUFFALO NATIONAL PARK

This fenced enclosure near Wainwright forms the largest wild animal preserve in Canada, and is the home of a plains buffalo herd numbering roughly 5,000 head, as well as smaller herds of moose, deer, elk, yak, and hybrids. There are 2 miles of motor highways in the park and 55 miles of trails. Established in 1908, the park has an area of 197.5 square miles.

A total of 10,557 persons visited the park during the year, compared with a total of 11,133 for the corresponding period in 1935-36. The recreational area at Mott Lake was extensively patronized by bathers and picnickers.

Drought conditions during the late spring and early summer seriously affected grazing conditions on the summer range. Grazing, however, was not permitted in the winter quarters, and this area was in good condition when occupied by the buffalo in the autumn.

Approximately 435 acres were seeded to oats, but owing to lack of moisture the yield was light. Returns from farm operations for the year included: oats,

2,559 bushels; brome grass seed, 200 bushels; green feed and straw, 70 tons; hay, 175 tons. In addition, 1,300 tons of slough hay was procured from the Ribstone meadow, and 100 tons were cut and stacked at other points in the park.

A survey of pasture conditions made it advisable to relieve congestion by the slaughter of 1,500 head of buffalo. Operations were carried out in the new park abattoir during December and the early part of January, when the animals were in best condition. The meat and hides were placed on the market.

The cross-breeding experiment which has been carried on by the Dominion Department of Agriculture in Buffalo Park for a number of years was continued, and some valuable information obtained.

A donation of twenty-five elk was made to the Government of Saskatchewan during the year and the animals shipped to Maple Creek. One male elk was also forwarded to the zoological gardens at Charlesbourg, Quebec. Three buffalo specimens, including a bull, cow, and calf, were forwarded for mounting purposes to the Provincial Museum at Quebec City.

At the close of the fiscal year 1936-37 the number of animals in the park was as follows: buffalo, 4,476; elk, 1,541; moose, 121; mule deer, 1,242; yak, 32; hybrid live stock, 33; a total of 7,445 head. Coyotes were more numerous than usual in the vicinity, and fifteen were destroyed by the park warden service.

A new abattoir was constructed to replace the building destroyed by fire in November 1935. A new well was drilled on the western side of the main range to provide water for park animals. The main highway to the Wainwright entrance was gravelled, and approximately 55 miles of prairie trails maintained.

Repairs were carried out as required in the maintenance of approximately 120 miles of 8-foot, and 10 miles of ordinary, fence, as well as 36 miles of telephone line. Fence repairs included the replacement of 1,558 fourteen-foot and 115 eight-foot posts, and the re-setting of approximately 6,000 old posts. A total of 55 telephone poles were installed and 50 re-set.

No fires occurred in the park during the year. As a fire protection measure approximately 140 miles of 20-foot fireguard were ploughed. Brush was cleared from the strip of land between the parallel ploughings.

As a result of continued drought conditions in the districts many sloughs have dried up and, consequently, the number of waterfowl in the park has declined. Canada geese, ducks, and swans were observed on the lakes of the park during the spring and autumn migration periods. There was also a noticeable decrease in Hungarian partridge in the park, but pin-tailed grouse were more numerous.

Permits for a total of 525 cords of dry wood and 6,500 green willow pickets were issued during the year to settlers in the vicinity of the park. The unfenced part of the park along the valley of Battle River was again leased for grazing purposes.

ELK ISLAND NATIONAL PARK

This park consists of a fenced enclosure, near Lamont, containing over 2,000 buffalo, also moose, deer, and elk. A recreational area has been developed and opportunities provided for golf, camping, bathing, and boating. Motor highways have a total length of 16 miles, and trails 4 miles. The park was established in 1911 with an area of 51 square miles.

Although originally established as a big game preserve, Elk Island National Park, Alberta, in recent years has developed into a very popular recreational resort. During the year under review, the number of visitors to the park was 46,295, compared with 44,767 for the corresponding period last year. The total number of motor vehicles entering the park was estimated at 10,933.

The herds of big game animals in the park, which include buffalo, elk, moose, and deer, were in good condition throughout the year, and increases in all species were registered. During the year five buffalo were shipped to Prince Albert National Park as the nucleus of a small exhibition herd, and eight head were disposed of to a zoo at San Simeon, California. At the close of the fiscal year the park, which is completely enclosed, contained the following big game animals: buffalo, 2,039; elk, 1,997; moose, 774; mule deer, 261.

All main park thoroughfares were maintained in good condition, and the North Gate and South Gate roads were re-surfaced over a total distance of 15 miles. Roads in the vicinity of Sandy Beach, the park recreational area, were oiled, with satisfactory results. The park fences, which consist of 35 miles of main fencing and 7 miles of cross fencing, were maintained. The main fence forming the southern boundary of the park was re-located to conform to the legal boundary of the park which is the surveyed Provincial Highway. New gates were erected at the southern and western entrances to the park. All fireguards that parallel the park fence on the outside were ploughed. Approximately 550 tons of green feed was harvested in the park.

An investigation of the waters of Astotin Lake was carried out during the year by Dr. D. S. Rawson of Saskatchewan University, to determine the possibilities of stocking the lake with suitable species of fish.

In addition to the big game animals, numerous other species inhabit the park. Coyote, weasel, muskrat, porcupine, rabbit, squirrel, gopher, and shrews were observed, as well as many varieties of bird life. Blue heron, which nest on Crane Island in Astotin Lake, were again numerous, and other species of waterfowl were observed in increased numbers.

The picnic grounds and recreational areas at Sandy Beach and the park headquarters were extensively used by visitors. Swimming, bathing, and boating were popular, and 134 permits were issued for camping at Sandy Beach campground.

The park golf course was maintained in good condition, and an attractive golf club-house was completed late in the year. During the year 1,367 golf tickets were issued.

NEMISKAM NATIONAL PARK

Nemiskam National Park, Alberta, is a fenced reserve of 8.5 square miles, established in 1922 for the protection of pronghorned antelope, of which it has a herd of 375. During 1936-37 twenty-nine persons visited the park.

Range conditions on the park were poor during the past year. A hot dry summer season greatly curtailed the natural food supply, and during the winter snow and crust impeded grazing. The antelope, however, were fed daily from December to March and came through the winter in excellent condition. There are now approximately 375 head in the park, an increase of 25 over last year's total.

WAWASKESY NATIONAL PARK

Wawaskesy National Park in southern Alberta, an unfenced reserve comprising 54 square miles, was established in 1922 as a sanctuary for pronghorned antelope, a species native to the region.

During the past year range conditions in the park improved, and the antelope frequenting this area were reported in fine condition. Although an actual census is not feasible owing to the nature of the preserve, it is believed that more than 500 antelope were in the park during the winter of 1936-37. An open hunting season of three weeks' duration for antelope was established by provincial authorities last autumn, and resulted in large numbers of antelope seeking safety in the park. Coyotes and other predatory animals were quite scarce.

Historic Parks

FORT ANNE NATIONAL PARK

This national historic park at Annapolis Royal is on the site of the early Acadian settlement of Port Royal. It contains a historical museum with a fine library. Established in 1917, the park has an area of 31 acres. Visitors in 1936-37 totalled 16,364.

Fort Anne National Park is one of the most notable of Canada's historic places. The fort today includes well-preserved earthworks and a large building erected in 1797, during British occupation. The building was restored in 1935 and serves as a museum.

Increased interest in Fort Anne and its associations was evident, as 11,364 persons visited the museum during the past year, an increase of 3,135 over the figures for 1935-36. In addition, it is estimated that approximately 5,000 persons who did not register visited the grounds.

Several travel tour groups from the United States came to Annapolis Royal during the season, and members availed themselves of the opportunity of going through the park museum and grounds.

A number of interesting donations were made to the park museum during the year. These included: a small leather-bound notebook that belonged to Stephen Rodda, surgeon-barber at Annapolis Royal in 1744-45, which records the attacks on the fort by Du Vivier and Marin during those years; a bicycle constructed about 1860 and used in the vicinity; a charcoal-burning flat iron; a tunic and sash worn by a member of the Duke of Wellington's Regiment, a detachment of which formed the last garrison of Fort Anne in 1854; a large framed picture of Queen Victoria; and an early model clothes wringer.

Photostat copies of plans of Annapolis Royal and vicinity were also acquired from the Public Archives of Canada at Ottawa. Other acquisitions included books for the Museum library, including *The Great War*, in four volumes, by Right Honourable Winston Churchill.

The colours presented to the Annapolis Regiment by the late Hon. Robert E. Harris were placed in the museum for safe keeping, and are on display in the ante-room in a glass case.

FORT BEAUSÉJOUR NATIONAL PARK

This national historic park, near Sackville, is on the site of a French fort erected prior to 1755. It contains a historical museum with interesting exhibits. The park was established in 1926 and has an area of 59 acres.

Fort Beauséjour National Park, situated on the Isthmus of Chignecto, New Brunswick, contains an area of 59 acres and preserves the ruins of a French stronghold constructed in 1751-55. The fort was captured by a New England force, assisted by a few British regulars under Monckton, in 1755, and re-named Fort Cumberland and later enlarged. On the acquisition of the site as a National Historic Park by the Department in 1926, the original name was selected for this historic area. The old fortifications, both French and English, consist chiefly of earthworks and are in a very good state of preservation, and the park holds much of interest to students of early Acadian history. During the past year approximately 20,000 persons visited the park.

The outstanding feature of the year was the official opening of the new historical museum. This was held on August 1, 1936, and was attended by more than 5,000 persons, among whom were many prominent in the political, social, and business life of the Dominion. The ceremonies were carried out under the

chairmanship of Dr. J. C. Webster, C.M.G., of Shediac, New Brunswick, a member of the Historic Sites and Monuments Board of Canada, and honorary curator of the museum.

The museum, which is constructed of stone, with a copper roof, contains a wealth of historical exhibits, both civil and military, relating to the Isthmus of Chignecto. Included are very complete groups of maps and plans, portraits, coats-of-arms, and military uniforms which have been donated to the museum by Dr. J. C. Webster, the honorary curator. Many other exhibits have also been loaned or donated to the museum, especially by natives of Cumberland County, Nova Scotia, and Westmorland and Albert Counties, New Brunswick.

During the past year a number of improvements were effected in the museum grounds and vicinity. The entrance gateway to the park was widened and artistic gate-posts of boulders constructed. Direction signs were also placed on the main Provincial Highway which provides access to the park.

MIGRATORY BIRDS CONVENTION ACT

The National Parks Bureau is responsible for the administration of the act based on the Migratory Birds Treaty, which provides for the better protection of birds that migrate between Canada and the United States. During the year regulations covering the shooting of migratory birds were made more restrictive than in the past, including lowering of daily bag limits, curtailment of the shooting season, extension of the prohibition of the sale of ducks, and the provision of a close season on wood ducks and Atlantic Coast brant.

MIGRATORY BIRDS CONVENTION ACT

(Chapter 130, Revised Statutes of Canada, 1927, and amendments)

On August 16, 1916, a treaty for the better protection of birds that migrate between Canada and the United States was signed at Washington, D.C. This treaty was made effective by Act of the Parliament of Canada in 1917.

The Minister is responsible to Parliament for fulfilment of Canada's obligations under the Treaty; under the Director of the Lands, Parks, and Forests Branch, the Controller of National Parks is responsible for the administration of the statute, and the Superintendent of Wild Life Protection is technical adviser and executive assistant.

By virtue of Order in Council, P.C. 2283, of October 14, 1932, responsibility for police work pertaining to the enforcement of the provisions of the Migratory Birds Convention Act and Regulations made thereunder, was transferred to the Royal Canadian Mounted Police; all other powers and responsibilities continuing to remain with the Department of Mines and Resources.

PROTECTION OF MIGRATORY BIRDS

The continental supply of these birds is still depleted, following a succession of dry years which practically removed the southern part of the prairie nesting area as a breeding ground. Conditions in Eastern Canada and in British Columbia have not been as bad. In the east the black duck has apparently made a substantial recovery from its serious depletion of several years ago. The prairie drought did not directly affect British Columbia, although undoubtedly a percentage of prairie-bred birds find their way to the Pacific coastline in migration.

In the summer of 1936, following general observations by numerous voluntary observers and by district officers of the Department, it became apparent that it would be desirable, in the interest of conserving Canada's migratory waterfowl, to further restrict the shooting of these birds. This action was taken as being the only factor in the situation that was immediately controllable by man.

The 1936 regulations, therefore, were made more restrictive than in the past, and, aside from minor adjustments, the chief changes were:

- (1) To limit all duck and goose shooting in Canada to approximately two months, less if the province has agreed—as in Saskatchewan and Manitoba.
- (2) To prohibit baiting of waterfowl with grain.
- (3) To prohibit use of live decoys.
- (4) To limit bags to not more than: daily—ducks, 12; geese, 5; seasonal—ducks, 150; geese, 50. (Daily limits larger in Territories.)
- (5) Sale of ducks throughout Canada, which had previously been allowed in Quebec, Northwest Territories, and Yukon Territory during the open season, was prohibited, except in the far north.
- (6) Wood ducks closed; brant, on the Atlantic coast, closed.

The United States of America, Canada's partner in the Migratory Birds Treaty, made great restrictions in the Migratory Birds Regulations in 1935 and continued these in 1936. For the sake of comparison with the Canadian regulations mentioned above, the United States law can be summarized briefly as follows:

- (1) A one month open season.
- (2) Daily bag limit—10 ducks; daily bag limit—4 geese.
(Possession limit—same as daily.)
- (3) Baiting prohibited; live decoys prohibited; sink-boxes prohibited; sale prohibited.
- (4) Hunting before 7 a.m., or after 4 p.m., prohibited.
- (5) Three shell limit on repeating shotguns.
- (6) The following species closed completely: Ross's goose, Atlantic Coast brant, greater snow goose, redhead, canvas-back, wood duck, ruddy duck, buffle-head duck.

It will thus be seen that the United States regulations in 1936 were in general twice as strict as the Canadian regulations. This difference can be taken as balanced by the fact that the United States has a larger population than Canada on the one hand, and on the other by the fact that a larger proportion of the population of Canada, than of the United States, has reasonable access to migratory birds as a source of food and sport.

Eel-grass on the Atlantic Coast continues to be seriously depleted, as in the past several years. Experiments have been conducted toward overcoming this shortage, but it is yet too early to say with what success. The failure of eel-grass has affected particularly the Atlantic Coast brant and Canada goose, but it is also of wide importance to fisheries and to commercial interests.

The field administration of the Migratory Birds Convention Act continued under the supervision of four District Migratory Bird Officers, all of whom operated under the direction of the National Parks Bureau.

New bird sanctuaries were established as follows: Black Pond, in the Province of Prince Edward Island; Quoddy, in the Province of New Brunswick; Carrousel Island and Senneville, in the Province of Quebec.

The boundaries of the Lethbridge Country Club Bird Sanctuary, in the Province of Alberta, were extended and the Cape Whittle Bird Sanctuary, in the Province of Quebec, was cancelled. In addition to the sanctuaries established under the Migratory Birds Convention Act numerous Provincial and private bird sanctuaries continue to fill an important place in protecting bird life, and the establishment of further sanctuaries of this kind, especially on waterfowl migration routes, is urged as being of the utmost importance.

The Honorary Migratory Bird Officers appointed under the Act, 781 in all, gave the usual valuable assistance.

During the calendar year 1936 the following permits and licences were issued under the Migratory Birds Convention Act:—

322	Permits for scientific purposes.
163	“ “ banding purposes.
189	“ allowing the destruction of certain birds when found injuring agricultural or fishery interests.
684	“ to possess birds for propagating purposes.
9	“ to take birds for propagating purposes.
22	“ allowing the collecting of eider-down.
2	“ to possess and discharge rifles on bird sanctuaries.
3	“ to transport unloaded guns across bird sanctuaries.
1	“ to take photographs from the air over a bird sanctuary.
1	“ to erect beacons on a bird sanctuary.
2	“ to keep dogs on bird sanctuaries.
1	“ to erect a temporary cabin on a bird sanctuary.
61	Taxidermists' licences.

The gathering of vital statistics respecting the bird life of Canada by the bird-banding method was continued throughout the year. The actual work is done by some 200 bird-banding co-operators, who devote their attention to this study as a contribution to ornithology. These banders operate under permit, and the Bureau acts as the Central Canadian Registry for recording banded birds. During 1936, 34,277 records of birds banded by Canadian co-operators were added to the official records, this number showing an increase of approximately 9,000 over 1935. Some 2,640 banded birds were recovered and reported to the Bureau.

The following printed material was distributed during the year: Migratory Birds Convention Act, 6,050; abstracts of the Act, 20,550; posters, 46,590; pamphlets, 29,679.

One hundred and eighty-one lectures were given by officers of the Bureau, and lecture material, including motion pictures and lantern slides, was furnished freely to voluntary assistants. The total number of motion picture films and lantern slides lent for this purpose amounted to 2,559.

WILD LIFE CONFERENCES

The National Parks Bureau was represented at several conservation or scientific conferences relating to wild life as follows:—

Fourteenth Annual Convention of the Izaak Walton League of America, Chicago, Illinois, April 16-19, 1936.

Fifty-fourth Stated Meeting of the American Ornithologists' Union, Pittsburgh, Pennsylvania, October 19-23, 1936.

The Second North American Wildlife Conference, St. Louis, Missouri, March 1-4, 1937. This conference saw the completion of the organization of a United States National Federation of wild life interests, the organization of which federation began with the first North American Wildlife Conference held in Washington, D.C., February 3-7, 1936.

Joint Annual Meetings of the Massachusetts Audubon Society and the Northeastern Bird Banding Association, Boston, Massachusetts, January 23, 1937.

A conference of Provincial and Federal game officials met at Ottawa, January 5-7, 1937. Every province in Canada was represented and officers of all Dominion Departments concerned in wild life conservation attended. It is felt that the conference did a great deal to promote understanding of wild life problems and that it made several advances toward the development of a national wild life policy for Canada.

The work of the conference is indicated by the following resolutions, which were adopted:—

1. Favouring uniform limitation of the waterfowl hunting season to two months.
2. A request to the United States to include a season bag limit in their restrictions upon the hunting of migratory waterfowl.
3. Favouring the prohibition of baiting of waterfowl.

4. Favouring the prohibition of live decoys in hunting waterfowl.
5. Against the drainage of marshes, swamps, and lakes.
6. For the establishment of adequate sanctuaries for waterfowl.
7. Against the pollution of the sea and inland waters with oil.
8. Asking a uniform fur record year to enable the statistics of the fur catch to be compiled accurately.
9. Favouring uniform royalties on furs.
10. In favour of uniformity in marking wolf pelts.
11. Dealing with the marking of shipments of raw furs to the United Kingdom.
12. In support of an act covering interprovincial shipment of furs.
13. Limiting the use of aeroplanes in trapping.
14. Favouring humane methods of trapping.
15. Against the use of poison in taking of fur.
16. Against the use of snares in taking of fur.
17. For the prohibition of export of live fisher and marten from Canada.
18. Favouring change of law permitting easier entry of firearms brought in by bona fide sportsmen.
19. In support of education in wild life conservation in schools.
20. In support of wild life research.
21. An appreciation of the action of the Department in calling the conference, and of courtesy of officials of the House of Commons.

Although the proceedings of the conference are not available to the public, copies of any of the resolutions of the conference are supplied on request.

The National Parks Bureau, with the help of many hundreds of co-operators, gathered details from all parts of Canada concerning fluctuations in the population of the northern varying hare or snowshoe rabbit. The data gathered have been compiled for publication in Canada by Mr. Charles Elton, Director of the Bureau of Animal Population, Oxford University, Oxford, England. The cycles of abundance and scarcity of this very important species are now under observation throughout its range in North America, and the records of fluctuations for some years have been published in a form that will make them available to future workers.

ADVISORY BOARD ON WILD LIFE PROTECTION

A number of changes were made in the Advisory Board on Wild Life Protection, which is an interdepartmental committee organized on December 28, 1916, for the purpose of formulating a definite policy regarding the protection and use of wild life in the Northwest Territories and to advise in the administration of the Northwest Game Act and concerning the legislation necessary under the Migratory Birds Treaty. The membership of the Board is now as follows:—

Ex-Officio Members

Dr. Charles Camsell, Deputy Minister of Mines and Resources.
 R. A. Gibson, Director, Lands, Parks, and Forests Branch.
 Dr. Harold W. McGill, Director, Indian Affairs Branch.
 Major-General Sir James MacBrien, Commissioner, Royal Canadian Mounted Police.

Members

Dr. Arthur Gibson, Dominion Entomologist, Department of Agriculture.
 J. A. Rodd, Director of Fish Culture, Department of Fisheries.
 Dr. R. M. Anderson, National Museum of Canada.
 Dr. Marius Barbeau, National Museum of Canada.
 A. L. Cumming, Superintendent of Mackenzie District.
 K. R. Daly, Senior Departmental Solicitor.
 Aurèle LaRocque, National Museum of Canada.
 Hoyes Lloyd, Superintendent, Wild Life Protection.
 T. R. L. MacInnes, Indian Affairs Branch.
 D. L. McKeand, Superintendent of Eastern Arctic.

J. P. Richards, Bureau of Northwest Territories and Yukon.
 P. A. Taverner, Ornithologist, National Museum of Canada.
 J. Lorne Turner, Registrar of Lands.
 F. H. H. Williamson, Controller, National Parks Bureau.
 Major T. H. Irvine, Superintendent "G" Division, Royal Canadian Mounted Police.

On March 15, 1937, ratifications of the Migratory Birds Treaty were exchanged between Mexico and the United States. As many of the migratory birds, included within the terms of the Treaty between the Republic of Mexico and the United States of America migrate from Canada to Mexico, and as under the new Treaty they will receive additional protection while in that country, the final ratification of this Treaty should be of great benefit in conserving migratory birds in which Canada has a part interest.

. HISTORIC SITES AND MONUMENTS

The restoration, preservation, marking, and administration of historic sites of national importance have been entrusted to the National Parks Bureau. In this work the Bureau is assisted in an advisory capacity by the Historic Sites and Monuments Board of Canada, an honorary body of recognized historians representative of the various parts of the Dominion.

The personnel of the Board is as follows:

Chairman, Brig.-Gen. E. A. Cruikshank, LL.D., F.R.S.C., F.R. Hist., Ottawa, Ont.; His Honour F. W. Howay, LL.B., LL.D., F.R.S.C., F.R. Hist., New Westminster, B.C.; J. Clarence Webster, C.M.G., MD., D.Sc., LL.D., F.R.S.C., Shediac, N.B.; Professor Fred Landon, M.A., F.R.S.C.; London, Ont.; Professor D. C. Harvey, M.A., F.R.S.C., Halifax, N.S.; Hon. E. Fabre-Surveyer, B.A., LL.M., B.C.L., F.R.S.C., Montreal, P.Q.; F. H. H. Williamson, Controller, National Parks Bureau, Ottawa.

The annual meeting of the Board was held in Ottawa from May 29 to 31, when a number of new sites were reviewed and a selection made for later action. Since the inception of the work in 1919, more than one thousand sites have been under consideration, and from this number three hundred and ten have been selected as being of national importance. Two hundred and thirty-five of these have been marked by the erection of suitable memorials.

During the year, five historic sites were marked with suitable memorials on the recommendation of the Historic Sites and Monuments Board of Canada. Restoration and development work was carried out also on several of the larger historic properties controlled by the National Parks Bureau, including: Louisbourg Fortress, Nova Scotia; Fort Beauséjour National Park, New Brunswick; Fort Chambly, Quebec; Fort Lennox, Quebec; and Fort Prince of Wales, Manitoba.

During the fiscal year 1936-37 the following sites were marked:

Jean Pierre Roma, near Brudenell, P.E.I.

A cut stone monument with tablet was erected on a small plot of land donated by Mr. Henry Parker and Mr. Wm. Stewart at Brudenell Point, to mark the site where, in 1732, Jean Pierre Roma founded a base for control of the Gulf fisheries and for trade with France, Quebec, and the West Indies. His establishment was destroyed after the fall of Louisbourg in 1745. The memorial was unveiled with appropriate ceremonies on September 5, 1936.

The Portages of the Chaudière, Hull, Que.

A field stone cairn with tablet was erected in Eddy Park, Hull, to commemorate the first of the three portages of the Chaudière on the route from the St. Lawrence to the Great Lakes. It was traversed by Champlain in 1613, and until the middle of the last century by explorers, missionaries, and fur traders.

Samuel de Champlain, Ottawa, Ontario

A bronze tablet was affixed to the monument on Nepean Point, Ottawa, erected to the memory of Samuel de Champlain, who was born at Brouage, France, 1567, and who died at Quebec, December 25, 1635. He was King's geographer, navigator, explorer, founder of the city of Quebec, and Governor of New France. The tablet was unveiled on June 24, 1936, with suitable ceremonies arranged under the auspices of the Ottawa St.-Jean Baptiste Society.

Combat at McCrae's House, near Chatham, Ontario

A cairn with tablet was erected on a small plot of land adjacent to the River Road near Chatham, donated by Mr. Frank Parker, to mark the site of the engagement that took place on December 15, 1813, when a small company of the Provincial Dragoons, Kent, Middlesex, and Norfolk Militia, surprised and took, after a sharp conflict, an enemy outpost composed of three officers and thirty-six soldiers of the Regular Army of the United States. The memorial was unveiled on September 26, 1936, in accordance with arrangements made by the Kent County Historical Society.

Roseau Route, Letellier, Manitoba

A cairn with tablet was erected adjacent to the Jefferson Highway in the village of Letellier, with the permission of the Council of the Municipality of Montcalm, to mark the war road of the Sioux leading to the Lake of the Woods. This was the earliest route to the West and was first used in 1733 by the French. La Jemmeraye was buried near the mouth of the Roseau in 1736. The unveiling of the memorial took place on July 26, 1936, under the auspices of the St. Boniface Historical Society.

PRESERVATION AND DEVELOPMENT WORK

Preservation and development work was carried out at some of the larger sites as indicated below:

Fortress of Louisbourg, near Louisbourg, N.S.

Excavation of rooms in the Governor's apartments and in the moat surrounding the Citadel building was carried on. Rebuilding of the exposed walls was completed to a height of 2 feet above ground level. The walls of the small guard-house, exposed last year, were completed. Excavation of the moat was continued, exposing the end walls of the north casemates. All walls of the convent building were excavated and the interior of the rooms cleared out. Road repairs were made and additional surfacing placed as required. The grounds surrounding the new museum building were graded, terraced, sodded, and seeded. The street in front of the building was graded and gravelled, as well as the approach road to the caretaker's quarters at the north end. Concrete entrance walks were constructed at the main entrance to the museum and caretaker's quarters. Two concrete gun emplacements were constructed. All outer doors on the museum building were rehung and storm doors made for five entrances. All basement windows in the building were made waterproof and the basement floors painted.

Fort Beauséjour, near Sackville, N.B.

The gateway at the main entrance was widened and two cobblestone gateposts erected. The grading of the grounds around the new museum building was partly completed. A concrete walk was constructed at the museum entrance and everything made in readiness for the official opening on August 1, 1936. A number of painted signs were prepared and erected along the main highway adjacent to the site and on the fort grounds.

Fort Chambly, Chambly, Que.

The outer walls of the fort were repointed and a concrete retaining wall was constructed in Richelieu River, on the north side, with a riprap fill to protect the dry-stone north wall of the fort and improve the appearance of the river front from the terrace. The interior area of the fort was regraded and laid out with grass areas, gravelled walks and terrace, and a sunken garden in the centre. The stone arch in the dungeon was rebuilt and the walls repointed. New entrance doors were provided for the fort and the entrance driveway improved.

Fort Lennox, Île-aux-Noix, Que.

All debris and deteriorated material were cleared from the ovens and kitchens in the embankment at the rear of the men's barracks building, and the earth floors graded to the first course of the interior stone work. The walls and vaulted ceilings were pointed and the brick fire-places and flue openings in the cook-houses were repaired. Entrance steps in stone were reconstructed and eleven doors were made, hung, and painted, together with casement sash for the window openings in the cook-houses and bakery. Approximately 150 feet of embankment near the west shore wharf, which was washed away during the spring flood, was repaired and a stone revetment was constructed along the toe of the slope.

Fort Prince of Wales, Churchill, Manitoba

The work of restoring the ruins of this northerly fortification was continued under the supervision of the Resident Engineer of the Department of Transport. The west wall was almost entirely rebuilt and about two-thirds of the east wall repaired. A lintel facing was constructed in front of the flat arch over the main gate and the name "Prince of Wales Fort" was set into the centre panel, with the dates 1733 and 1771 at either end. Five additional cannon were mounted on carriages on the south wall. Two more guns were unearthed, bringing the total number discovered to forty-two.

ACQUISITION OF SITES

Permission was obtained from the Premier of Prince Edward Island to place a monument on the grounds in front of the Provincial Legislative building at Charlottetown, to commemorate the events connected with the survey of the Gulf and River St. Lawrence, Prince Edward Island, and adjacent territory between 1827 and 1856.

Mrs. Orlando Taylor of Lunenburg, Nova Scotia, has donated a plot of land 25 feet square with right-of-way thereto at Port La Tour, on which to erect a memorial to mark the site of the last foothold of France in Acadia.

Permission was obtained from the Department of Public Works and the Council of the Town of Windsor, N.S., to place a memorial on King's Square, Water Street, to commemorate the literary achievements of T. C. Haliburton, 1796-1865.

Permission was obtained from the President of the Canadian National Railways to erect a standard and tablet on the front of the lot at 230 St. Laurent Street, Levis, P.Q., to mark the birthplace of Louis Frechette, C.M.G.

Permission was obtained from the Reverend Mother Superior of the Hôtel-Dieu, Quebec, P.Q., to attach a bronze tablet to the wall of the hospital facing Charlevoix Street, to mark the site of the first hospital established in America, north of Mexico, in 1637.

Permission was obtained from the executors of the Viau Estate to affix a tablet to the outer wall of the building, at the northwest corner of St. Paul and St. Sulpice Streets, Montreal, to mark the birthplace of Sieur d'Iberville, 1661-1706.

Approval was obtained from the Indians of the Caughnawaga Reserve to affix a tablet to the outer wall of the fort in front of the Presbytery, at Caughnawaga, P.Q., to commemorate the events connected with its construction in 1725.

Permission was obtained from the Quebec Department of Highways to erect a standard and tablet on the side of Highway No. 2 at St. Patrick, P.Q., to mark the place where Sir John A. Macdonald spent many of his summers between 1873 and 1890.

The Ontario Department of Highways has granted permission for a memorial to be erected on a small plot of land at the intersection of Highway No. 7 and the 4th Concession of Otonabee Township, east of Peterborough, to commemorate the events connected with the discovery and first production of Red Fife wheat in Canada, in 1842.

An area of approximately 4 acres, containing part of the remains of Fort Malden, was transferred by the Town of Amherstburg, Ont., to the Crown.

Permission was granted by the Municipality of Oil Springs to affix a bronze tablet to the front of the Community hall on Main Street, Oil Springs, Ont., to commemorate the events connected with the first oil wells in Canada, dug in 1858.

Permission was obtained from the Hudson's Bay Company to erect a memorial on their property at Fort Alexander Post, Man., to mark the site of Fort Maurepas, one of La Verendrye's trading posts.

A plot of land 25 feet square was provided by the Board of Trustees of the McMurray School District, Fort McMurray, Alta., on which to erect a memorial to commemorate the events connected with the earliest trade route between eastward and northward flowing waters that followed Clearwater River and Methye Portage.

OUTSTANDING HISTORIC SITES IN CANADA

Fortress of Louisbourg, Nova Scotia.—Situating 3 miles south of Louisbourg, Cape Breton Island. Built by the French during the years 1720-40, Louisbourg was the scene of great struggles between the French and English. Its final capture by the British in 1758 was the first of a series of events that culminated in the transfer of Canada to the British Empire. Picturesque ruins and historical museum. Area 328 acres. Acquired 1928.

Fort Lennox, Ile-aux-Noix, Quebec.—Situating 13 miles south of St. Johns in Richelieu River. Gateway to Canada and advance post against the Iroquois and other invaders. Island fortified by the French before 1759. Rebuilt by the British 1812-27. Fortifications in fine state of preservation. Historical museum. Area 150 acres. Acquired 1921.

Fort Chambly, Chambly, Quebec.—Situating 15 miles southeast of Montreal. Built of wood in 1665 as a defence post against the Iroquois. Rebuilt of stone in 1709-11 to resist the advance of the British forces. Captured by United States troops in 1775. Interior buildings burned in 1776. Restored in 1777 and abandoned in 1880. Existing ruins consist of three well preserved walls and caretaker's residence. Historical museum. Area 2½ acres. Acquired 1921.

Fort Wellington, Prescott, Ontario.—Constructed in 1812-13 as the main post for the defence of the communication between Kingston and Montreal. Here were assembled the troops that captured Ogdensburg on February 22, 1813. Large blockhouse and other buildings within palisade and earthworks. Historical Museum. Area 8½ acres. Acquired 1923.

Fort Prince of Wales, Churchill, Manitoba.—The most northerly fortress on the North American continent, built by the Hudson's Bay Company 1733-77. Destroyed by a French naval force in 1782. Ruined walls remain on which are mounted original cannon. Area 50 acres. Acquired 1922.

HISTORIC SITES ACQUIRED AND MARKED

At the close of the fiscal year 1936-37, a total of 239 sites of national importance in Canada had been acquired by the Department. Of this number, 235 have been marked by the erection of suitable memorials on the recommendation of the Historic Sites and Monuments Board of Canada. The remaining four sites had been marked prior to acquisition. Following is a complete list of historic sites acquired and marked to date:—

Prince Edward Island

Prince Edward Island, Charlottetown
Jean Pierre Roma, Brudenell
First Submarine Telegraph, Charlottetown
Discovery of Prince Edward Island, Charlottetown
First Organized Land Survey, Holland Cove

Nova Scotia

Louisbourg Fortress, Cape Breton Island
Edward Fort, Windsor
Lawrence Fort, Fort Lawrence
First Post Office in Canada, Halifax
Champlain's Habitation, Lower Granville
U.E. Loyalists, Shelburne
King's College, Windsor
Admiral d'Anville's Encampment, Rockingham
La Have Fort, LaHave
First Printing Press in Canada, Halifax
His Majesty's Naval Yard, Halifax
Shannon and Chesapeake, Battle of, Halifax
Joseph Frederick Wallet des Barres, Sydney
Canso, Canso
Samuel Vetch, Fort Anne Park, Annapolis Royal
Wolfe's Landing, Kennington Cove
Canada's Coal Industry, Port Morien
Ste. Anne, Englishtown, Cape Breton Island
Fort St. Peters, St. Peters
St. Peters Canal, St. Peters
Paul Mascarene, Fort Anne Park, Annapolis Royal
Cape Breton-Newfoundland Cable, North Sydney
Bloody Creek, near Bridgetown
Liverpool Privateersmen, Liverpool
Simon Newcomb, Wallace Bridge
First Agricultural Fair in Canada, Windsor

New Brunswick

Fort Beauséjour, near Sackville
Monckton Fort (Fort Gaspereau), near Port Elgin
La Tour Fort, St. John
Charnisay Fort, St. John
U. E. Loyalists, St. John
Meductic Fort, near Woodstock
Battle of the Restigouche, Campbellton
Nashwaak Fort, Devon
Nicolas Denys, Bathurst
Tonges Island, Fort Beauséjour Park
First Steam Fog Horn, St. John
Sir Howard Douglas, Fredericton
First Marine Compound Engine, St. John
Major Gilfrid Studholme, St. John
Jemseg Fort, Lower Jemseg

Yorkshire Immigration, Fort Beauséjour Park
 Combat of the Petitecodiac, Hillsborough
 First Coal for Export, Minto
 Beaubears Island, near Newcastle
 Martello Tower, St. John
 Mallard House, St. John
 Nerepis Fort, near St. John
 Founding of New Brunswick, St. John
 The 104th New Brunswick Regiment, Fredericton

Quebec

St. Maurice Forges, Les Vieilles Forges
 Three Rivers, Battle of, Three Rivers
 Laprairie Fort, Laprairie
 Second Battle of Laprairie, near Laprairie
 Chambly Fort, Chambly
 Hochelaga, Montreal
 Lennox Fort, Ile-aux-Noix
 Chateauguay, Battle of, Allan Corners
 Crevier Fort, Notre-Dame de Pierreville
 Lacolle Battle, Lacolle
 Chateauguay Fort, near Howick
 Richelieu Fort, Sorel
 Longueuil Fort, Longueuil
 Ile-aux-Coudres, opposite Baie St. Paul
 Le Fondateur des Bois-France, St. Louis de Blandford
 Ste. Therese Fort, near St. Johns
 Tadoussac, Tadoussac
 Charlesbourg Royal Fort, Cap Rouge
 First Canadian Steamship, "Accommodation", Montreal
 Three Rivers Fort, Three Rivers
 Madeleine de Vercheres, Vercheres
 Montreal's Birthplace, Montreal
 First Railroad in Canada, St. Johns
 Coulée Grou, Battle of, Rivière des Prairies
 Cedars, Battle of, Cedars
 St. Jean Fort, St. Johns
 Two Mountains, Battle of the Lake of, near Senneville
¹Eccles Hill, Battle of, near Frelighsburg
 Opening of the St. Lawrence River to all Nations, Quebec
 Ile-aux-Noix, Battle of, Fort Lennox, Ile-aux-Noix
 Coteau-du-Lac Fort, Coteau-du-Lac
 Odelltown, Battle of, Odelltown
¹Logan Memorial Park, Percé
 Royal Navy, Fort Lennox, Ile-aux-Noix
 Sir Wilfrid Laurier, St. Lin des Laurentides
 Battle of September 6, 1775, near St. Johns
 Benjamin Sulte, Three Rivers
 Chambly Canal, Chambly
 First Triangulation Station, King Mountain, near Kingsmere
 Quebec Seminary, Quebec
 Lachine Canal, Lachine
 Grenville Canal, Grenville
 Témiscouata Portage, near Cabano
 Carillon Canal, Carillon
 First Paper Mill in Canada, St. Andrews East
 Jacques Cartier, Gaspé
 Lt. Col. Charles de Salaberry, Beauport
 First Patent in Canada, Quebec
 Chambly Road, near St. Hubert
 Lachine Massacre, Lachine
 Soulanges-Cascades Canal, Cascades
 Chaudière Portages, Hull

Ontario

First Meeting of the Executive Council of Upper Canada, Kingston
 Glengarry House, near Cornwall
¹Glengarry Cairn, Monument Island, near South Lancaster
 Wellington Fort, Prescott

¹Marked prior to acquisition.

Windmill, Battle of the, near Prescott
 Chrysler's Farm, Battle of, near Morrisburg
 Southwold Earthworks, near St. Thomas
 Fort Ste. Marie II, Christian Island, Georgian Bay
 Mission of St. Louis or St. Ignace II, near Midland
 "Cliff Site," Port Dover
 Chippawa, Battlefield of, Chippawa
 Frenchmans Creek, Action of, near Bridgeburg
 Vrooman's Battery, Queenston
 Cooks Mills, Battle of, Welland
 George Fort, Battlefield of, Niagara-on-the-Lake
 Beechwoods or Beaver Dams, Battlefield of, Thorold
 Ridgeway Battlefield, near Ridgeway
 Navy Island Shipyard, near Chippawa
 Sault Ste. Marie Canal, Sault Ste. Marie
 Fort William
 Port Arthur
 Port Stanley
 Port Talbot
 Wintering Site, Port Dover
 Waterloo Pioneer Settlement, near Kitchener
 Longwoods, Battle of, near Moraviantown
 The Defence of York, Toronto
 Point Pelee, Point Pelee Park, near Leamington
 McKee Point (War 1812-14), Sandwich
 Mattawa Portage, Mattawa
 Nottawasaga Fort, Wasaga Beach, near Stayner
 Montgomery's Tavern, Toronto
 Frontenac or Catarqui Fort, Kingston
 St. Joseph Fort, St. Joseph Island
 First Steamship on Lake Ontario, near Bath
 Kaministikwia Portage, near Fort William
 Duke of Richmond, Site of His Death, near Richmond
 De Levis Fort, Adams Point, near Johnstown
 Pointe au Baril, Maitland
 Rideau Canal, Ottawa
 Norfolk Fort, Turkey Point, near Normandale
 Starting Point of Brock's Expedition, Port Dover
 The Old Welland Canal, Allanburg
 Bishop A. Macdonell, St. Raphael
 Bishop Strachan, Cornwall
 Niagara Portage Road, Stamford
 Fugitive Slave Movement, Windsor
 Canada's First Electric Telegraph Line, Toronto
 Allan Crawford, Ottawa
 Arctic Expedition (1913-18), Ottawa
 George Fort, Niagara-on-the-Lake
 Sir John A. Macdonald, Boyhood Home of, Adolphustown
 Sir John A. Macdonald, Kingston
 Coming of the Mohawks, Deseronto
 Pioneers of the Huron Tract, Goderich
 Navy Yard, Amherstburg
 Normandale Furnace, Normandale
 Mississauga Fort, Niagara-on-the-Lake
 Dundas Street, near Dundas
 Sir Charles Bagot, Kingston
 Lord Sydenham, Kingston
 Fort Drummond, Queenston
 Sir Gordon Drummond, Toronto
 Nanticoke
 Fort Erie
 Capture of Ohio and Somers, Fort Erie
 U.E. Loyalists, Cornwall
 The Crawford Purchase, Kingston
 Treaties of Niagara, Niagara-on-the-Lake
 The Six Nations, Ohsweken
 Action at Butler's Farm, Niagara-on-the-Lake
 Butler's Rangers, Niagara-on-the-Lake
 The Historic Carrying Place, Carrying Place, Bay of Quinte
 McKee's Purchase, Blenheim
 Lansdowne Iron Works, Lyndhurst

Navy Yard, Kingston
 Burlington Heights, Hamilton
 Capture of the Tigress and Scorpion, Penetanguishene
 Royal Navy, Amherstburg
 Combat at McCrae's House, near Chatham
 Samuel de Champlain, Ottawa

Manitoba

Douglas Fort (Red River Settlement), Winnipeg
 Rouge, Garry, and Gibraltar Forts, Winnipeg
¹Battle of Seven Oaks, Winnipeg
 Indian Treaty No. 1, Lower Fort Garry
 Dominion Lands Survey System, near Headingly
 La Reine Fort, Portage la Prairie
 Early Trade, Wawanesa
 Fort Churchill, Churchill
 Prince of Wales Fort, Churchill
 Henry Kelsey, The Pas
 Roseau Route, Letellier

Saskatchewan

Livingstone Fort, near Pelly
 Walsh Fort, near Cypress Lake
 Cut Knife Battlefield, Indian Reserve No. 114
 Battleford
 Indian Treaty No. 6, near Carlton
 Batoche
 Battle of Fish Creek, near Fish Creek

Alberta

First Coal Mine in Alberta, Lethbridge
 Macleod Fort, Macleod
 Indian Treaty No. 7, near Gleichen
 Calgary Fort, Calgary
 David Thompson, Jasper Park
 Henry House, Jasper Park
 Jasper House, Jasper Park
 Edmonton and Augustus Forts, near Edmonton
 Frog Lake Massacre, near Frog Lake
 Fork Fort (Sir A. Mackenzie), near Peace River
 Rocky Mountain House
 General Strange's Column, Edmonton
 Father Lacombe and Rev. John McDougall, Wetaskiwin

British Columbia

Langley Fort, Langley
 New Westminster
 Nootka Sound, Friendly Cove, Vancouver Island
 Sir Alexander Mackenzie, Prince George
 Cariboo Wagon Road (Fort Yale), Yale
 Prospect Point, Vancouver
 Gonzales Hill, Victoria
 Kamloops Fort, Kamloops
 First Coal Mine in British Columbia, Nanaimo
 Cariboo Gold Fields, Barkerville
 Sir A. Mackenzie, Bella Coola
 Hope Fort, Hope
 Steele Fort (N.W.M. Police)
 Simon Fraser, Musqueam
 The Last Spanish Exploration, Point Grey
 Pacific Cable, Bamfield, Vancouver Island
 Sir George Simpson, Kootenay Park
 Collins Overland Telegraph, Quesnel
 Fort Alexandria, Alexandria

Northwest and Yukon Territories

Yukon Gold Discovery, Dawson

¹Marked prior to acquisition.

APPENDIX

THE ALPINE CLUB OF CANADA

(From the Report of the Chairman of the Club-house Committee)

The club-house at Banff opened for the season on Monday, June 29, 1936. Very fine weather prevailed, but, as the annual camp of the Club was held in Jasper National Park, registrations at the club-house were less numerous than usual.

The total registration during the season was 251, provinces and countries being represented as follows:—

Alberta..	80	United States..	67
British Columbia..	25	England..	8
Manitoba..	10	Scotland..	3
Ontario..	45	Denmark..	2
Quebec..	1	China..	7
Saskatchewan..	3		

(From the Report of the Secretary of the Alpine Club of Canada)

The thirty-first annual camp was held from July 18 to August 4, 1936, below the cliffs of an outlier of Mount Fryatt in Fryatt Creek Valley, Jasper National Park. A fly camp was established below the cliffs near the waterfall leading to the upper valley, and a small bivouac camp was maintained above the falls.

Access to the camp was provided by a trail constructed along the west bank of Athabaska River from Athabaska Falls. Most of those attending motored along the Banff-Jasper Highway to a point about 25 miles south of Jasper where a crossing of Athabaska River was made by a scow controlled by a cable.

Our sincere thanks are due to the National Parks authorities for kindness in constructing the necessary trail to the camp and for arrangements carried out for the cable crossing.

The weather was exceptionally fine for the duration of the camp, there being only one day on which climbing was prevented by rain. Sixteen of the members passed the test for active membership, climbs being made as follows:—

From the Main Camp

Mount Christie (second ascent), Mount Fryatt, (second ascent), Mount Lowell (first ascent of north tower). Two attempts were made on Mount Brussels.

From the Fly Camp

First ascents of "The Three Blind Mice," Mount "Parnassus," and Mount "Xerxes"; second ascents of Mount "Olympus," Mount Belanger, and Mount Lowell. A bivouac party crossed to Alnus Creek and climbed Mount Serenity.

Visitors at camp included members of the club from Bromsgrove, Fal-mouth, London, and Stourport, England, as well as parties from the United States and from different parts of Canada. A total of 93 persons were accomodated under canvas, representatives attending from the Alpine Clubs of England, France, the United States, Italy, and Switzerland; also from the Royal Society, the Royal Geographical Society, the Appalachian Mountains Club, the Montana Mountaineers, the Mazamas, and the Sierra Club.

The annual meeting of the club was held in camp on July 31 for the election of officers, presentation of reports, and other business.

DOMINION FOREST SERVICE

The Dominion Forest Service is engaged in the study of problems relating to the protection, development, and utilization of the forests of Canada. The provinces control 98 per cent of the forest resources, the Dominion administering only the forests of the Northwest Territories, those of the National Parks, and a few other Dominion-controlled areas such as forest experiment stations, Indian reserves, and miscellaneous properties. However, as many of the forest problems are of national rather than provincial interest, Dominion assistance is provided through the activities of the Dominion Forest Service. The separate divisions of the Forest Service are Forest Economics, Silvicultural Research, Forest Protection, and Forest Products Laboratories.

In Europe, the forest industry is organized for continuous use of all the resources of the forest in the manufacture of a diverse series of readily saleable products. In Canada the orderly management of forest lands has been impossible in many cases because of the irregular and unplanned development of industry. Capital has tended to rush into those particular branches of production which appeared at the time to be most profitable. Development of mill capacity has been along lines of specialization in manufacture, only certain kinds of woods being utilized. As a result, other species and grades of timber, which could easily be extracted during the course of logging, have been left untouched. Obviously in these circumstances scientific management of the forest resources presents difficulties.

The solution of many of the problems will be found in co-operation for the working out of equitable adjustments. Discussion of these mutual problems is most helpful. A forum for such discussions is provided in the Associate Committee on Forestry of the National Research Council, recently established. This Committee, however, does not undertake the solution of problems, but attempts to identify them, and to analyse their importance and refer them to the attention of competent authorities.

FOREST ECONOMICS

Work in Forest Economics comprises statistical and field investigations of the development and trend of forest industries. Estimates are prepared of the forest resources, and of the rates at which they are being depleted. Methods of conducting forest surveys are studied. Progress has been made in the adaptation of air photographs to inventory surveys.

The three basic factors in the forest economy of a country are: the available resources, the annual depletion, and the annual growth. If the latter two balance, and if the stock of merchantable timber is sufficient to meet the requirements until the oncoming stands of young growth attain merchantable size, the situation may be considered safe so far as the supply of wood is concerned. There are secondary features, however, which are of the greatest importance to the industries engaged in the manufacture and marketing of forest products. Among these are the supplies of the species in greatest demand, and their location in respect to the manufacturing plants, and transportation.

RESOURCES

The latest compilation of areas of forest land, and the estimated amount of timber, total and accessible, by provinces, were published in *Forests of Canada, 1935*, and in the Annual Report of the Director of Forestry for 1935-36. Since then the British Columbia Forests Branch has published revised figures which

show, among other changes, that 31,575 square miles of land of productive quality is now classed as non-forested. The summary for the Dominion is revised as follows:

	Square Miles	Square Miles
Productive forest area.....		769,500
Merchantable timber.....	361,800	
Young growth.....	407,700	
Unproductive forest area.....		.454,000
Total forest area.....		1,223,500

The total stand of timber of merchantable size is estimated to amount to 273,656 million cubic feet, of which 170,144 million cubic feet is considered accessible under existing conditions of transportation and markets. The accessible timber includes 245,313 million feet board measure which is large enough for the manufacture of lumber, and 1,107 million cords of smaller material suitable for pulpwood, fuelwood, etc. Conifers comprise 78.3 per cent of the accessible timber.

The available supplies of the species ordinarily used in the manufacture of pulp and paper—spruce, fir, hemlock, jack pine, lodgepole pine, and poplar—are estimated to be over 1,000 million cords, three-quarters of which are in the eastern provinces.

There is estimated to be the equivalent of about 800,000,000 cords of the three main kinds of wood—spruce, fir, and hemlock—now being used for groundwood and sulphite pulp. This wood will not all be available for the manufacture of pulp as these species are in demand also for lumber, lath, ties, fuelwood, and many other purposes. However, some other woods, such as hardwoods, may be used for certain kinds of pulp.

DEPLETION

The main causes of depletion are the cut for use, and the destruction due to fire, insects, and decay.

Cut.—There has been a steady recovery during the past four years in the production of practically all wood products. The amount of standing timber cut for production of the various primary wood products is estimated as follows:

Average Annual Production of Woods Products Equivalent in Standing Timber

	Average 1923-30 1,000 Cu. Ft.	Average 1930-35 1,000 Cu. Ft.	Average 1926-35 1,000 Cu. Ft.
Fuel-wood.....	913,066	851,552	882,309
Logs and bolts.....	1,137,264	599,419	868,341
Pulpwood.....	711,193	605,683	658,438
Hewn ties.....	103,942	50,166	77,054
Fence-posts.....	30,168	28,262	29,215
Fence-rails.....	10,781	13,588	12,185
Poles.....	14,419	5,177	9,798
Round mining timber.....	12,873	6,366	9,620
Wood for distillation.....	6,066	5,293	5,679
Miscellaneous products.....	30,993	25,732	28,387
Total.....	2,970,765	2,191,288	2,581,026

Fire.—It is estimated that an average of 271 million cubic feet of merchantable timber was destroyed annually by fire during the period 1926-35 and in 1936 the loss is reported to have exceeded 840 million cubic feet.

Estimated Depletion of Merchantable Timber by Fire

	Average 1926-30	Average 1931-35	1936
Saw material, million ft. B.M.	430	472	2,078
Small material, 1,000 cords.	1,894	1,244	3,524
Equivalent in standing timber, million cu. ft.	303	240	843
Conversion factors:—1,000 feet board measure = 219 cubic feet. 1 cord = 110 cubic feet.			

Besides the merchantable timber destroyed, there was an average of 880,000 acres of young growth and cut-over lands burned during the ten years 1927-36. On the basis of an average potential growth of 300 cubic feet an acre, this loss of young growth is estimated to be equivalent to 264 million cubic feet.

Insects and Fungi.—It is practically impossible to determine the extent of the losses due to insects and fungi, but it is estimated to reach close to 700 million cubic feet annually. These destructive agents are present in all forests, and, although they do little net damage in an endemic state, they often inflict serious losses when they become epidemic. The European spruce sawfly, which has caused very extensive damage in eastern Quebec and New Brunswick, and is spreading to western Quebec and Ontario, is the most serious insect infestation at present.

The various rot-producing fungi cause serious losses in both quantity and quality of timber; and the white-pine blister rust threatens the white pine in the eastern provinces and in British Columbia.

Total Depletion.—The average annual depletion of merchantable timber and young growth during the ten years 1926-35 is estimated at 3,816 million cubic feet.

	Cubic Feet
Merchantable timber cut.	2,581,000,000
“ “ burned.	271,000,000
Young growth burned.	264,000,000
Timber destroyed by insects and fungi.	700,000,000
	3,816,000,000

INCREMENT

Information as to whether the forests are producing enough wood to replace the depletion is, as yet, inadequate even as a basis for an estimate of the annual increment. A review of some thirty studies of conditions on cut-over lands conducted by the Commission of Conservation and this Service from 1918 to 1936 indicates that reproduction is adequate, and that an annual rate of growth of from 35 to 50 cubic feet an acre is not uncommon. However, there are large areas of mature timber which, in 100 years or more, have produced only 5 cords, or about 5 cubic feet per annum. Northern European forests, under climatic conditions somewhat similar to those in Canada, yield, on the average, about 25 cubic feet per annum under silvicultural management.

It is estimated that about 400,000,000 acres (625,000 square miles) of forests are immature and may be expected to produce an increment in excess of decay. It is evident that the available supplies of certain species are being seriously depleted, and that they are being replaced, at least temporarily, by less desirable

species such as poplar, white birch, and jack pine in the eastern and Prairie Provinces, and by hemlock, white fir, and lodgepole pine in British Columbia. Naturally the timber on the more accessible areas has been depleted to the greatest extent by cutting and fire, and as a result it is becoming more difficult and expensive to supply the manufacturing plants with raw material.

FOREST INDUSTRIES

There has been a distinct improvement in recent years in the wood and paper industries, which in 1935 contributed over \$350,000,000 to the wealth of the Dominion; provided employment, on a man-year basis, to over 200,000 people, and paid \$188,000,000 in wages.

Employment in woods operations indicates a continued increase in production since 1932, the index of employment in the woods being as follows, 1926 being taken as 100:

1927..	109·3	1932..	42·5
1928..	114·5	1933..	66·5
1929..	125·8	1934..	124·7
1930..	108·0	1935..	126·9
1931..	61·1	1936..	138·7

THE LUMBER INDUSTRY

The lumber industry has continued to make steady progress towards the recovery of its pre-depression status, owing primarily to the development of the overseas trade, chiefly that with the United Kingdom. The comparative values of the products of the industry during the five-year period 1926-30 and 1931-35 are shown below.

Value of Sawmill Products

	Average 1926-30	Average 1931-35	Average 1926-35
	\$	\$	\$
Lumber.....	100,646,185	37,797,906	69,222,045
Shingles.....	8,874,270	4,670,654	6,772,462
Lath.....	4,135,693	466,453	2,301,073
Sawn ties.....	3,628,171	1,518,618	2,573,395
Pulpwood.....	12,689,644	3,958,639	8,324,141
Box shook, staves, and headings.....	1,872,914	1,292,378	1,582,646
Other products.....	3,425,213	2,582,984	3,004,099
Total.....	135,272,090	52,287,632	93,779,861

THE PULP AND PAPER INDUSTRY

The production of Canadian newsprint in 1936 was the largest in the history of the industry. The News Print Service Bureau reports that the world production of newsprint in 1936 amounted to 8,217,000 tons, of which Canada supplied 3,192,000 tons (38·8 per cent).

The net value of the products as marketed, including the value of the pulp exported and paper manufactured, was \$157,838,506 in 1935, as compared with \$147,619,922 in 1934.

The apparent total cut of pulpwood in 1935 was 6,095,016 cords, of which 1,109,873 cords (18 per cent) were exported, and the remainder manufactured into

pulp or paper in Canada. The pulpwood exported had an average value of \$6.34 per cord, and that manufactured into pulp and paper in Canada yielded an average value of \$31.66 a cord. The average annual production of wood pulp during the period 1931-35 was 3,263,106 tons, valued at \$73,751,269; and of paper 2,734,365 tons, valued at \$121,498,023.

TRADE IN FOREST PRODUCTS

In 1936 exports of forest products were valued at \$209,291,745, and comprised 20.6 per cent of the total exports of Canadian products, while imports of these products amounted to \$15,431,270, thus providing a favourable trade balance of \$193,860,475, as compared with the total favourable balance of \$380,014,519 on all products.

The value of forest product exports to principal countries in 1936 was as follows:—

	Value
United States	\$142,758,362
United Kingdom	33,766,992
Australia	10,670,506
Japan	5,074,295
China	2,666,766
New Zealand	2,266,720
British South Africa.....	1,860,816
Argentina	1,779,218
All other countries.....	8,448,070
Total.....	\$209,291,745

LUMBER

Exports of sawn lumber to the United Kingdom in 1936 were greater than in any year since 1903, amounting to 958 million feet board measure, valued at \$19,750,000. This comprised 51.7 per cent of Canada's lumber exports, and 17.4 per cent of the United Kingdom's lumber imports. It may be noted that Canada's annual exports to the United Kingdom during 1926-30 averaged approximately 200 million feet, valued at \$6,961,000, and comprised only 10 per cent of her lumber exports, and 5.8 per cent of the United Kingdom's imports of lumber. Owing largely to the tariff preference of 10 per cent ad valorem enjoyed by British countries on lumber, and to energetic sales promotion by the Canadian exporters, the United Kingdom has become the principal market for Canadian lumber exports.

Canadian export of doors to the United Kingdom has increased in value from \$1,584 in 1932 to \$2,778,423 in 1936, in which year the exports comprised 67.1 per cent of the United Kingdom's total imports of doors.

Shingle exports to the United Kingdom, though still comparatively small, have increased from 5,964 squares, valued at \$11,983, in 1934, to 19,745 squares, valued at \$51,168, in 1936.

Exports of Canadian lumber to the United States increased from an average of approximately 242 million feet annually, valued at \$5,442,000, during the period 1932-35, to 531 million feet, valued at \$12,842,000, in 1936, largely as a result of the trade agreement made between Canada and the United States in 1935.

Exports of Planks, Boards and Square Timber

Countries	Average 1926-30		Average 1931-35		1936	
	M Ft. B.M.	Value, \$	M ft. B.M.	Value, \$	M Ft. B.M.	Value, \$
United Kingdom.....	199,453	6,961,113	481,760	9,239,880	957,948	19,750,191
Irish Free State.....	10,730	455,552	8,327	155,174	4,139	79,625
New Zealand.....	9,240	264,850	2,392	55,574	6,352	176,098
Australia.....	36,189	765,484	109,588	1,410,967	117,069	1,542,487
British South Africa.....	13,090	299,930	12,854	217,217	41,753	845,314
British West Indies.....	In other British or foreign		12,123	246,174	16,034	335,479
Other British countries Specified.....	In other British or foreign		10,882	201,765	22,077	455,396
Total British countries.....	268,702	8,746,929	637,926	11,526,751	1,165,372	23,184,590
United States.....	1,458,828	39,529,242	372,797	8,293,199	530,866	12,841,995
China.....	21,378	375,803	74,820	864,995	73,223	957,336
Japan.....	185,058	2,736,269	75,922	1,032,543	30,053	493,587
Other foreign countries Specified.....	In other British or foreign		19,963	409,096	59,142	1,072,229
Other Foreign countries. Other British or foreign countries.....	1,665,264	42,641,314	541,502	10,599,833	693,284	15,365,147
Total.....	1,989,744	53,883,159	1,179,428	22,126,584	1,858,656	38,549,737

PULP AND PAPER

Exports of pulp and paper in 1936 showed a decided increase over those of each of the preceding five years, but the value was more than \$40,000,000 lower than the average for the years 1926-30, although the average quantity was higher.

Exports of Pulp and Paper

—	Wood Pulp		Newsprint		Other Paper	Total
	Tons	Value, \$	Tons	Value, \$	Value, \$	Value, \$
Average 1926-30.....	867,961	45,423,190	2,133,689	132,130,559	6,201,113	183,754,862
Average 1931-35.....	590,291	27,082,384	2,122,474	85,965,541	4,336,264	117,384,189
1936.....	754,496	31,246,695	2,993,089	103,639,634	7,221,794	142,108,123

In 1936 bleached sulphite was the chief pulp exported, a large part of which was sold for use in the manufacture of rayon.

Exports of Wood Pulp, 1936

—	Quantity	Value
	Tons	\$
Mechanical.....	133,519	2,841,051
Sulphite bleached.....	351,650	18,376,727
Sulphite unbleached.....	113,088	3,634,971
Sulphate.....	119,400	5,567,284
Other pulp.....	13,373	591,062
Screenings.....	23,466	235,600
Total.....	754,496	31,246,695

In 1936 Canada exported close to 3,000,000 tons of newsprint, which comprised about two-thirds of the world exports of newsprint for that year, and 93 per cent of the Dominion's total exports of paper. Wrapping paper and boards are becoming important items in the exports.

More than three-quarters of Canada's exports of pulp and paper go to the United States, with the United Kingdom, Australia, Japan, and New Zealand following in order of importance.

Exports of Paper, 1936

—	Tons	Value
		\$
Newsprint.....	2,993,089	103,639,634
Wrapping.....	16,665	1,094,109
Bond and writing.....	5	3,953
Book paper.....	3,686	433,965
Wall-paper.....		229,153
Bags, boxes, and cartons.....		147,676
Roofing and building.....		94,696
Pulp and fibre wall boards.....	17,197	1,054,558
Paper board, n.o.p.....		2,949,853
Waste paper.....	31,031	521,667
Other paper and manufactures of.....		692,164
Total.....		110,861,428

AERIAL FOREST SURVEYS

Continued progress has been made in the development of technique in the use of aerial photography for forest surveys. It has been found possible both to obtain an area classification of forest types and to estimate the volume of the stand with sufficient accuracy for inventory purposes. The Dominion Forest Service prepared an estimate from photographs of an area of 285 square miles in Quebec, which showed approximately 1,000,000 cords of pulpwood, and which agreed very closely with a previous ground cruise.

An area of 364 square miles in the Lower Gatineau region near Ottawa was surveyed by steep-oblique photography. The cut-over and burned areas were determined, and the forests classified by types and age-classes. A ground survey was made to supply detailed information as to the condition and rate of growth of the stands of timber. From the air photographs a relief map was made, which showed the mountainous nature of the country, the forest cover, the cleared areas, and the locations of roads and other features.

An area of 100 square miles in the Noranda mining area was surveyed by aerial photography, and the location and quantity of the timber available determined. Riding Mountain National Park in Manitoba, an area of about 1,200 square miles, was photographed in the early spring before the snow melted, for the purpose of preparing a working plan for the park. It had been photographed some years previously by high verticals, which provided a base map, and in the rephotography steep obliques from an altitude of 10,000 feet were used. Photography of this type is particularly useful for forestry purposes, as it is possible to measure the height of the stands directly. Winter photographs also give a clearer distinction between coniferous and deciduous timber. Volumetric estimates of the timber are being prepared from the photographs, and a ground survey will provide data regarding the rate of growth, so that a definite plan of operation can be formulated.

A series of experimental photographs of a strip of forest 10 miles long at the Petawawa Forest Experiment Station has been taken for the Forest Service by the Royal Canadian Air Force. This study now includes twenty-eight strips, taken in each of the four seasons, with verticals and horizontal obliques from various altitudes, and with various filters. These photographs are of the greatest value in determining the best means of photographing the forests for forest-survey purposes.

The development of a double vision projector, by means of which outlines of forest types and other features can be transferred directly from the photograph to a map of any desired scale, marks an important accomplishment.

SILVICULTURAL RESEARCH

Silvicultural research comprises investigations for the purpose of determining the most suitable methods of harvesting forest crops and managing forests. These problems are studied at five forest experiment stations located in the different forest regions: the Acadia Forest Experiment Station, containing 78 square miles, is situated 15 miles northeast of Fredericton, N.B.; the Valcartier Station is 17 miles northwest of Quebec city; and the Petawawa Station lies northwest of Pembroke in the Ottawa Valley. In Manitoba an area of approximately 36 square miles of the Duck Mountain Provincial Forest was turned over to the Dominion for research purposes; and in Alberta, the Kananaskis area, of 63 square miles, lies 62 miles west of Calgary.

At each of these stations the most important timber-type forms the basis of the chief research investigations. Supplementary investigations in forest types not represented on the experiment stations are conducted, in co-operation with provincial authorities, and with industries, on outside areas.

PETAWAWA FOREST EXPERIMENT STATION

The Petawawa Forest Experiment Station, situated 125 miles northwest of Ottawa, on Ottawa River, contains approximately 100 square miles in the Algonquin-Laurentide section of the Great Lakes-St. Lawrence forest region. The characteristic timber-type is white and red pine, with their fire-type associates, namely, poplar and white birch; even in the occasional lowland black spruce stands, white pine is found. Secondary associates are balsam fir and white spruce.

Investigations at this station, therefore, are concentrated on cover-types of pure pine, and of mixed pine, poplar, and birch.

In continuation of experimental thinnings of stands of young poplar with understory of white pine and white spruce, an area of 45 acres of the Cornus-Maianthemum site-type, burned over in 1923, was thinned from 2,700 to 800 poplar an acre. Thinnings were left as they fell. Detailed records were taken on a pair of permanent sample-plots established, one of which was laid out within the area in order to represent the thinning, and the other, in the same type, was left uncut as a control plot. The area is under observation also by the Entomological Branch, Department of Agriculture, to ascertain whether white pine weevil makes any progress under the shade conditions found in mixedwood stands. Their investigation includes instrumental measurements of sunlight intensity on thinned and unthinned plots.

Another study is concerned with the effects of various cutting methods and methods of slash disposal upon growth and reproduction of black spruce swamps. Two permanent sample-plots were established in black spruce stands, clean-cut, with the slash left, during the winter 1935-36. The site-type of the first was that whose indicator species are sphagnum and *Carex trisperma*, the age being 101 to 140 years; the other being in Sphagnum-Ledum site-type, 71 to 100 years old. It is believed that site-type is the significant variable affecting growth and reproduction. Apparently on the first site-type, reproduction depends upon seed; whereas in the second site-type it seems to be the result of layering. It seems certain that a single cutting method is not equally applicable to both site-types.

A demonstration wood-lot of 60 acres of tolerant hardwoods was surveyed and is now under working-plan management; only the annual increment will be removed. The permanent sample-plots established on this area will provide valuable information for the care and management of farmers' wood-lots.

Three permanent sample-plots were established in a dense stand of white pine, 45 years old, of the Maianthemum-Corylus site-type, a fair white-pine site, to study methods of improving the stand. The first plot was left in its

natural state to act as control; the second was thinned to 400 selected trees an acre, 200 of which, likely to provide the final crop, were pruned to the height of 20 feet; and in the third plot the 400 selected trees were released by girdling all the other trees, and 200 selected trees were pruned. This experiment was made to determine how rapidly white pine of high quality can be produced on suitable sites at a minimum cost. The Entomological Branch, Department of Agriculture, has these plots under observation for study of control of white pine weevil.

Twenty permanent sample-plots, established at various dates since 1918, were remeasured during August and September, and data are available for analysis and reports. The plots cover studies of experimental cutting methods, thinnings, and regeneration studies.

About 100,000 white and red pine were planted. One thousand white spruce were planted on cut-over hardwood type to observe their behaviour in competition with sprouts, suckers, and hardwood seedlings. One thousand Carolina poplars were set out in a similar cut-over stand.

Side-branch cuttings of red and Norway spruce about 3 inches long were laid in sandy soil all winter to determine whether they would develop a root system. In the spring about 50 per cent of the Norway spruce had developed roots, but the red spruce failed to establish any roots.

From another investigation it was found that cuttings of Carolina poplar may be made in the autumn, as well as in the spring, if they are heeled in when cut, and planted early in the spring.

A new and satisfactory method of reproducing poplar from cuttings was discovered whereby cuttings with several buds are placed horizontally in furrows and covered with about 4 inches of loose soil.

Various attempts to reproduce basswood from seed and from cuttings during the year were unsuccessful, but the investigation is being continued.

As a result of investigations made last year, all coniferous seeds were sown in the autumn this year. The species were seven strains of Scotch pine, Siberian larch, Douglas fir, and Norway spruce of Norwegian and Latvian origin. Experiments in the use of zinc sulphate for weed control have been only partly successful to date.

Populus berolinensis and *Populus trichocarpa* from British Columbia are found to be rust-resistant at Petawawa.

Studies of site-classification by vegetation were extended to the Algonquin Park region.

The collecting of phenological records, started in 1935, was continued with particular reference to species related to the site-types with which poplar and white pine are associated.

One million feet of mature and overmature scattered white pine, and one million feet of red and jack pine and white spruce were sold in accordance with the requirements of the working plan for the station. During the progress of this experimental operation, detailed information concerning costs of various logging methods and slash disposal, and data on relationship between board-foot scale and cubic volume were obtained. A series of intensive studies will be conducted on this cut-over area.

A summary of sixty-six permanent sample-plots established at various periods since 1918 at the Petawawa Station in pure pine and in mixedwood stands to study the value of thinnings shows that in general the net annual increment, as well as the increment per cent, increases directly with the degree of thinning practised. Exceptions to this rule are attributable to variations in site-type, situation, or wind damage.

ACADIAN FOREST EXPERIMENT STATION

The central section of the Acadian region is represented by the Acadian Forest Experiment Station, 78 square miles in area, lying 15 miles northeast of Fredericton. The forest cover is mainly mixedwood, tolerant hardwoods, red and white spruce, balsam fir, some white pine, with wire birch as the fire type. The principal investigations within the station are concerned with second-growth stands in which spruce and balsam fir are struggling through wire-birch overstory. More mature stands of pulpwood species are studied on stands surrounding the station. Study of farmers' wood-lots is a secondary project of this station.

An intensive investigation of cut-over lands was conducted on the Restigouche watershed to study the effect of cutting upon the remaining stand and upon reproduction. Altogether seventeen cutting operations were examined. The data have been compiled, and an interim report has been prepared, which advise that this mixedwood forest cannot produce sawlogs in quantity except at widely separated intervals of time, as the predominant stand is of balsam fir which has a rotation age of eighty years. The next stand of value must come from a new crop.

An interim report on the remeasurements of the Bathurst experimental cutting area to 1931 shows that prolific reproduction of spruce has followed clear cutting, and that many of the seedlings were just entering the sapling class in 1931. The plots are due for remeasurement in 1937.

A watering system for the nursery was installed. Twenty-four seed-beds of white and red pine, white and red spruce, white cedar, black walnut, butter-nut, and basswood were established. The basswood seed, however, failed to germinate.

A series of red, white, jack, and Scotch pine plantations was established, a total of about 25,000 plants having been set out.

The working-plan survey report covering the survey of 1933-34 has been completed; this is to become the basis of a working plan for the management of the station. The report provides information pertaining to the present stand of timber and its growth, and gives a detailed description of the forest soils and timber types. The total land area is 44,337 acres, of which 21,075 acres are reserved for military purposes. The total volume of conifers is 48,000 cords; 2,600 feet B.M. of spruce, balsam fir, and pine; and 56,000 cords of hardwood species. As 94 per cent of the stands are less than sixty years of age, it is obvious that little or no material is available for the market at present, with the possible exception of fuel-wood from thinning and improvement cuttings. The increment rate is low, which indicates the need for silvicultural treatment.

Two permanent sample-plots were established on the forested lands of the University of New Brunswick to demonstrate, particularly to the forest school students, the value and methods of thinning practice in improving woodlands.

VALCARTIER FOREST EXPERIMENT STATION

The Valcartier Forest Experiment Station, which comprises 7½ square miles, situated 17 miles northwest of Quebec City, lies on the southern border of the Central Transition Section of the Boreal Forest Region.

The forest cover is mixed, black spruce, balsam fir, and white birch, with some white and red spruce and yellow birch and maple of the Great Lakes-St. Lawrence Region at the south. Investigation is confined to the pure and mixedwood pulpwood types.

Tree planting was continued during the planting season of 1936. Altogether 110,000 spruce and red pine plants were set out, covering 88 acres of the Valcartier Plains block.

In the nursery six beds were sown with white and red pine from Ontario, white spruce from Quebec, and red spruce from New Brunswick. From the nursery 16,500 seedlings were transplanted. These seedlings—beech, larch, maple, and red pine—are for experimental purposes.

Demonstration thinnings of several acres each in balsam fir and spruce stands in the neighbourhood of the three camps were made. The trees for removal were marked by a research officer; the thinnings were done as a relief project.

Areas cut over for relief camp fuel-wood during the previous winter were surveyed, and a series of permanent sample-plots was established on them.

The chief activity in the Province of Quebec was conducted outside the station, in the Lake Edward area. The semi-permanent survey of 1925, covering over 5 square miles, was re-examined. The area was last cut over about 30 years ago. The purpose of the survey was to determine:

- (1) the rate of growth since last measurement;
- (2) the extent to which spruce and balsam fir were able to compete with hardwoods;
- (3) the annual mortality;
- (4) the cull factor in conifers;
- (5) the value of site classification based on vegetation.

In addition to the survey, four permanent sample-plots concerning these cut-over lands were remeasured.

Although compilation of the data is not yet complete, a summary report shows that the average stand now contains from 18 to 29 cords, varying according to site-type. Conifers alone vary from 6 to 15 cords. Net annual increment of conifers varies from 12 to 54 cubic feet, and mortality from 11 to 13 cubic feet. The cull factor in spruce ranges from 6 to 28 per cent, and that of balsam fir from 16 to 47 per cent, according to the site-type.

Another project, the study of intermediate cuttings in tolerant hardwood type with a view to improving the yellow birch and basswood in particular, was commenced near Thurso, P.Q. The project calls for the establishment of three 10-acre semi-permanent sample-plots; one for control, another to be logged in the usual manner, and the third to be marked by a research officer having in mind improvement of reproduction, growth, and quality of the species desired. Two of these plots were recorded. The third, the control plot, has yet to be established.

DUCK MOUNTAIN FOREST EXPERIMENT STATION

The Duck Mountain Forest Experiment Station, southwest of Dauphin, Manitoba, lies in the mixedwood section of the Boreal Forest Region. The characteristic association of species is aspen, balsam poplar, white spruce, white birch, and balsam fir. Jack pine predominates on sandy areas, and jack pine and black spruce are characteristic of the hill-tops. The swamp types are black spruce and larch. Investigations are centred around the mixedwood and jack pine types, particularly of the younger age-classes.

Field work was completed for the working-plan survey.

Two permanent sample-plots were established to study the value of thinning in a young mixedwood stand. In a stand 6,600 trees an acre, 46 years old, in the *Hylocomium-Linnæa* site-type, one plot was left undisturbed as control or measure, the other was thinned to 2,000 trees an acre to favour white and black spruce.

Removal of overtopping trees by release cutting formed the basis of another study. In a stand of three acres, one plot was left undisturbed, and from the other, over-topping trees were removed in order to free roots and crowns of black and white spruce.

Silvicultural cleanings were conducted in other stands, from which only dead and defective trees were removed.

The taking of phenological records, started in 1935, was continued.

In co-operation with the Saskatchewan Forest Service, and The Pas Lumber Company, a study was made of the cut-over lands of the Carrot River drainage area to determine the condition of these cut-over lands with respect to the present stand, reproduction, and the prospects for a future cut.

The interim report shows that four main site-type groups, based on vegetation and physiographic position, were recognized. For each group, a series of "yield-since-cutting" curves were prepared.

Reproduction was studied on lands cut over once; on those cut over two or more times; and on lands burned over previous to the last cutting. White spruce reproduction was satisfactory only on the last-named.

KANANASKIS FOREST EXPERIMENT STATION

The east slope of the Rockies section of the subalpine forest region is characterized by Engelmann spruce, with lodgepole pine in many places forming pure stands or in mixture with the spruce following fires. The project of the Kananaskis Station is to investigate the development of these two species.

The main research activity at the Kananaskis Forest Experiment Station was the continuation of the working-plan survey. Unfortunately, serious fires made it impossible to complete the field work. Three square miles of rough area were covered. Following the fire in August 1936, a sale of 10 million feet of fire-killed timber was conducted. Both the burned-over and the cut-over lands will form the basis of intensive studies relating to seed-bed conditions and reproduction.

OTHER PROJECTS

A review of all reports covering surveys of cut-over lands conducted by the Commission of Conservation and the Dominion Forest Service between 1918 and 1936 has been completed and prepared for publication. The purpose of the review is threefold: (1) to determine the amount and nature of work that has been accomplished; (2) to analyse the results, make deductions, and determine wherein the data are incomplete; (3) to formulate comprehensive plans for future projects. From the study it is concluded that the problem is not one of obtaining reproduction, but rather of managing it in order to ensure satisfactory growth of young stands, and to maintain satisfactory proportions of species.

The stand tables and increment obtained from the rate-of-growth surveys of 1929-30 in Eastern Canada have been summarized and issued as mimeographed research notes as follows: New Brunswick, Research Note No. 45; Nova Scotia, No. 46; Gatineau and Lièvre Watersheds, P.Q., No. 47; Algonquin Park, Ontario, No. 48; and Sudbury District, Ontario, No. 49.

These tables show the number of saplings, poles, and merchantable trees in total cubic volume and in merchantable volume, both in cubic feet and in feet board measure. The average annual mortality and the net annual increment in cubic feet are also given. Information is lacking, however, concerning cull and logging wastage, which must be considered in determining allowable depletion.

FOREST PROTECTION

Research in forest protection is carried on at the forest experiment stations to develop methods of measuring and forecasting forest-fire hazard so that necessary protective measures can be taken. Experimental investigative work is also carried on to develop improved methods of detecting and fighting forest fires and for the testing of new kinds of equipment. With the co-operation of provincial authorities, the Forest Service compiles annual statements of the losses caused by forest fires throughout the country.

The fire season of 1936 was the most serious one that Canada has experienced since 1932. The number of fires reported was 5,946, compared with an average for the past 10 years of 5,774. The total loss and damage caused by these fires, including the cost of suppressing them, was \$7,288,504, compared with the past 10-year average of \$4,578,764. Weather conditions were favourable in Quebec and the Maritime Provinces, and fire losses in these regions were below normal. In Ontario and westward some bad periods of "fire weather" were experienced, and the losses were above the average for the past 10 years. The details for each province as secured from the forest authorities concerned, are as follows:

BRITISH COLUMBIA

Severe lightning storms, accompanied by dry weather, in the central and southern interior of the province, during the months of July and August, were the cause of 34 per cent of the 1,547 fires that were reported during the year. The total area burned was 437,143 acres; this area comprised 103,427 acres of merchantable timber, 65,345 acres of young growth, 260,195 acres of cut-over lands, and 8,176 acres of non-forested lands. The total loss and damage, including fire-fighting costs of \$130,291, was \$1,305,503, compared with a 10-year average of \$1,172,781. Eighty-eight per cent of the fire-fighting cost was incurred in the Nelson and Kamloops Districts.

ALBERTA

Alberta experienced a long and dry fire season, with practically no rain from the middle of June to the middle of August. Abnormally high winds occurred during this period, and again in November, when heavy loss occurred. The high winds and the absence of rain made fires difficult to control, and resulted in one of the worst fire seasons on record in the province. The total number of fires reported was 248, which is less than the average, but more than 11 per cent of these each exceeded 500 acres in extent. Lightning was given as the cause of 12 per cent of the fires. The total area burned was 204,454 acres, this area comprising 104,885 acres of merchantable timber, 51,867 acres of young growth, 1,168 acres of cut-over lands, and 46,534 acres of non-forested lands. The total loss and damage, including fire-fighting costs of \$115,419, was \$1,666,517, compared with a 10-year average of \$402,956.

SASKATCHEWAN

In Saskatchewan, low water-levels and scanty winter precipitation in the northern part of the province produced a serious early spring fire hazard that lasted until the end of May, when as high as 20 fires a day were reported. The peak of the summer fire hazard was reached about the middle of August, but at no time was the province free from fires until October 20. The total number of fires reported was 365, 31 per cent of which each exceeded 500 acres in extent. Lightning caused 10 per cent of all fires. The total area burned was 510,972 acres, comprising 47,957 acres of merchantable timber, 300,800 acres of young growth, 27,450 acres of cut-over lands, and 134,800 acres of non-forested lands. The total loss and damage, including fire-fighting costs of \$59,489, was \$584,945, compared with a 10-year average of \$355,433.

MANITOBA

The western and northern parts of Manitoba experienced a normal fire hazard. In the eastern and southeastern sections, however, the hazard was almost continuous from the beginning of July to the early part of September. The smoke-filled atmosphere rendered observation from lookout towers difficult, and flying was held up at times. As a result the province experienced one of the worst fire seasons in its history. A total of 554 fires was reported, 13 per cent of which each exceeded 500 acres in extent. Lightning caused 19 per cent of all fires. A total area of 520,625 acres was burned, comprising 64,804 acres of merchantable timber, 34,817 acres of young growth, 3,853 acres of cut-over lands, and 417,151 acres of non-forested lands. The total loss and damage, including fire-fighting costs of \$44,114, was \$231,680, compared with a 10-year average of \$259,092.

ONTARIO

The fire season of 1936 was one of the most severe on record in Ontario. The western districts experienced an exceptionally high hazard throughout the season, with intense heat in the middle of the summer, and a large number of electrical storms, with little rain. In the eastern and southern districts the spring hazard was below normal, but high temperatures and lack of precipitation caused an extremely high hazard during the months of July and August. The late summer and autumn hazard was below normal owing to general rains. The total number of fires reported was 2,264, of which 10 per cent each exceeded 500 acres in extent. Lightning was given as the cause of 33 per cent of the fires. The total area burned was 1,264,433 acres, comprising 586,663 acres of merchantable timber, 258,604 acres of young growth, and 419,166 acres of non-forested lands. The total loss and damage, including fire-fighting costs of \$780,000, was \$3,260,705, compared with a 10-year average of \$1,669,470.

QUEBEC

This province experienced one of the most favourable fire seasons in recent years. Abundant precipitation prevailed during the months of May and September throughout the province. Periods of dry weather were experienced in the southern and western sections in June, in the Gaspé and Abitibi regions in July, and in the Gaspé and south-shore regions in August. The proportion of fires caused by settlers burning brush decreased from 49 per cent in 1935 to 27 per cent in 1936. Lightning caused 6 per cent of all fires. The total number of fires reported was 556, only 1 per cent of which each exceeded 500 acres in extent. The total area burned was 29,546 acres, which comprised 857 acres of merchantable timber, 3,558 acres of young growth, 9,231 acres of cut-over lands, and 15,900 acres of non-forested lands. The total loss and damage, including fire-fighting costs of \$24,268, was \$48,698, compared with a 10-year average of \$527,319.

NEW BRUNSWICK

Moderate temperatures and well-distributed rainfall resulted in one of the most favourable fire seasons on record in New Brunswick. The total number of fires reported was 102, none of which exceeded 100 acres in extent. Lightning caused 13 per cent of the fires. The total area burned was 513 acres, comprising 15 acres of merchantable timber, 77 acres of young growth, 243 acres of cut-over lands, and 178 acres of non-forested lands. The total loss and damage, including fire-fighting costs of \$1,460, was \$2,235, compared with a 10-year average of \$95,860.

NOVA SCOTIA

Although rainfall in the province was below normal, it was evenly distributed, and there were no long periods of drought such as occurred in recent years. As a result the number of fires and the losses were among the lowest on record in the province. The total number of fires reported was 146, none of which exceeded 100 acres in extent. No fires were attributed to lightning. The total area burned was 1,532 acres, comprising 46 acres of merchantable timber, 352 acres of young growth, and 221 acres of cut-over lands. The total loss and damage, including fire-fighting costs of \$3,078, was \$6,032.

DOMINION LANDS

There are certain areas administered by the Dominion Government on which organized forest protection exists.

On Indian lands, 51 fires were reported, which burned a total of 11,224 acres, comprising 2,201 acres of merchantable timber, 36 acres of young growth, 987 acres of cut-over lands, and 8,000 acres of non-forested lands. The total loss and damage, including fire-fighting costs of \$6,050, was \$13,126.

In the National Parks of Canada, 106 fires were reported, which burned a total of 38,195 acres, comprising 5,569 acres of merchantable timber, 22,177 acres of young growth, and 10,449 acres of non-forested lands. The total loss and damage, including fire-fighting costs of \$41,482, was \$141,526.

On Dominion Forest Experiment Stations, seven fires occurred, only one of which did any serious damage. This fire occurred in Alberta at the peak of the hazard season in August. It started from a dry lightning storm outside the experiment station area and, spread by violent winds, swept in a few hours through a valuable tract of timber. The total area burned on experiment station areas was 8,009 acres, comprising 3,340 acres of merchantable timber, 2,100 acres of young growth, and 2,569 acres of non-forested lands. The total loss and damage, including fire-fighting costs of \$1,212, was \$27,537.

FOREST FIRE STATISTICS TABULATIONS

The entire mass of forest-fire statistical data for all Canada, dating back to 1918, was recomputed, the best information available from all sources being used. Any slight differences in figures shown compared with previous reports are attributable to revisions in the data. Table 1 shows by years, the fire losses in Canada for the 10-year period 1927-36, and the average for the period. These losses do not include damage to soil, loss in scenic value, cost of operation of forest-protective services, or the loss to industries dependent on the forests directly or indirectly. Table 2 shows the number and proportion of fires attributable to each cause in each year for the 10-year period 1927-36, and the average for the period. It will be observed that the average proportion of fires attributable to lightning is 16 per cent, whereas the proportion for 1936 is 26 per cent. This high figure for 1936 arises from the exceptionally high proportion of lightning fires this year in Ontario, Manitoba, and British Columbia. If 16 per cent be taken as the normal proportion of lightning fires in Canada, it follows that 84 per cent is attributable to human agencies, and, therefore, theoretically preventable.

FIRE-HAZARD RESEARCH

The system developed by the Forest Service for computing the daily index of forest-fire hazard from records of rainfall, evaporation, relative humidity, and wind is now in general use in Quebec with satisfactory results. Studies are under way to simplify the system, so that a minimum of technical knowledge is required for its operation.

At the Petawawa Forest Experiment Station, observations were made daily in six forest sites studied in previous years to obtain data for the simplification of the system of index measurement. Studies on the behaviour of different types of evaporation-measuring apparatus were continued, with a view to developing a type of evaporimeter most suitable to forest use. Preliminary investigations begun last year on the use of chemicals in forest-fire suppression were continued.

At the Valcartier Forest Experiment Station, studies were continued in the pulpwood forests and in slash left after logging operations. Frequent and evenly distributed rainfall during the two seasons that these studies have been underway has greatly limited the amount of useful data obtained on fire hazard in this area. Co-operation was continued with the Quebec Forest Protection Service Station at Duchesnay, P.Q.

In co-operation with the National Research Council an attempt is being made to develop suitable apparatus for the comparative measurement of the intensity of test fires in hazard studies. The Council is also endeavouring to design apparatus to facilitate the measurement of the moisture content of forest litter in the field.

During the winter, work was begun on a bulletin outlining a method of forecasting weather and forest-fire hazard from local observations. A study extending over 3 years was completed, and a report prepared on the technique of oven-drying forest-fire fuels in field laboratories. Work was well advanced on the statistical treatment of data collected for the simplification of the method of fire-hazard index measurement. A statistical improvement was made in the tables developed last year for the computation of the index of fire hazard in grassy types.

TABLE 1

Statement of Forest Fires in Canada by Years for the 10-Year Period 1927-36, with the Average for the Period

Item	Year										Total	Average
	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936		
Total number of fires.....	3,605	4,243	6,712	6,805	6,965	6,298	6,298	5,911	4,955	5,946	57,738	5,774
Total area burned over..... Acres	471,878	1,346,026	6,028,551	2,670,188	2,093,922	2,463,923	1,008,558	1,475,117	856,183	3,026,646	21,440,992	2,144,099
Merchantable timber—												
Area burned..... Acres	114,708	217,350	663,574	746,129	394,824	708,085	204,405	321,414	172,592	919,764	4,462,845	446,285
Timber burned..... M ft. B.M.	109,407	77,360	540,900	779,081	538,551	569,126	255,383	899,545	98,971	2,077,584	5,945,908	594,591
Timber burned..... Cords	1,365,671	485,817	2,178,434	2,043,142	1,241,647	2,705,374	650,318	836,554	785,552	3,524,493	15,817,002	1,581,700
Estimated stumpage value.. \$	830,954	610,726	2,803,952	4,452,046	1,715,113	5,063,577	1,199,305	1,754,882	1,254,981	4,646,726	24,332,262	2,433,226
Young growth—												
Area burned..... Acres	137,124	374,180	1,092,086	577,980	590,234	586,141	220,620	242,101	191,940	739,701	4,752,107	475,211
Estimated value..... \$	193,471	539,518	2,004,050	1,456,135	1,215,682	1,209,063	454,648	573,455	326,423	1,284,102	9,256,547	925,655
Cut-over land—												
Area burned..... Acres	35,875	101,297	720,912	427,285	535,418	772,625	331,614	562,446	258,964	303,348	4,049,784	404,978
Estimated value..... \$	36,449	64,169	338,434	275,578	219,776	615,605	187,303	246,031	262,725	66,253	2,312,323	231,232
Non-forested area burned.. Acres	184,171	653,199	3,551,979	918,794	573,442	397,069	251,918	349,156	232,687	1,063,333	8,176,248	817,625
Other property burned.... Value \$	91,670	147,304	301,499	506,779	363,516	264,769	162,075	149,923	355,541	84,560	2,427,636	242,764
Actual cost of fire-fighting... \$	197,684	201,439	1,237,689	1,135,909	931,504	683,650	509,939	827,451	526,743	1,206,863	7,458,871	745,887
Total damage and loss \$	1,350,228	1,563,156	6,685,624	7,826,447	4,445,591	7,836,664	2,513,270	3,551,743	2,726,413	7,288,504	45,787,640	4,578,764

TABLE 2

Statement of Fires by Causes for the 10-Year Period 1927-36, in Canada

Cause	Year																				Total	Average	
	1927		1928		1929		1930		1931		1932		1933		1934		1935		1936			Annual Number	Per Cent
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%			
Camp-fires.....	669	19	798	19	1,347	20	1,265	18	1,481	21	1,329	21	1,202	19	1,111	19	875	18	1,185	20	11,262	1,126	20
Smokers.....	389	10	522	12	856	13	790	12	998	14	809	13	883	14	971	17	985	20	947	16	8,140	814	14
Settlers.....	532	15	588	14	789	11	954	14	1,097	16	1,385	22	1,265	20	946	16	1,143	23	567	9	9,256	926	16
Railways.....	574	16	989	23	1,014	15	731	11	825	9	354	6	312	5	255	4	192	4	176	3	5,222	522	9
Lightning.....	716	19	473	11	1,167	17	1,483	22	880	13	651	10	940	15	957	16	331	7	1,529	26	9,127	913	16
Industrial operations.....	129	4	159	4	222	3	137	2	133	2	91	1	94	1	198	3	123	2	132	2	1,418	142	2
Incendary.....	95	2	226	5	387	6	522	8	674	10	746	12	511	8	349	6	400	8	608	10	4,518	452	8
Public works.....	54	1	27	1	80	1	98	1	97	1	47	1	56	1	104	2	35	1	42	1	640	64	1
Miscellaneous known.....	130	4	191	5	239	4	266	4	368	5	243	4	300	5	365	6	324	6	288	5	2,714	271	5
Unknown.....	337	10	260	6	631	10	559	8	612	9	643	10	725	12	655	11	547	11	472	8	5,441	544	9
Totals.....	3,605	100	4,243	100	6,712	100	6,805	100	6,965	100	6,298	100	6,298	100	5,911	100	4,955	100	5,946	100	57,738	5,774	100

WHITE-PINE BLISTER RUST

The fourth season of preliminary control treatment for white-pine blister rust was carried on at the Petawawa Forest Experiment Station during May, June, and July, 1936. A total of 21 square miles have already been covered, and an area of 8 square miles remains to be treated. These areas include practically all the valuable stands of white pine on the station. The work done so far has been largely investigative and experimental, with the object of demonstrating the feasibility, effectiveness, and cost of protecting the white pine from this disease. The area treated in 1936 comprised over 6 square miles of pole-sized pine timber, and about 5 square miles of a poplar stand with scattered white pine seed-trees and young pine.

The treatment consists of removing all gooseberry and currant plants, which comprise the botanical genus *Ribes*, on which an essential part of the life of the rust is passed. The rust cannot develop on any other kind of plant, and cannot spread from pine to pine, so that if there are no *Ribes* plants the pines cannot be infected. The spores that carry the disease from the *Ribes* to the pines cannot live more than a few minutes in the wind and, therefore, the area of infection is limited. Of all the species of *Ribes* the worst from the standpoint of infection of the pines is the cultivated black currant, which will spread the disease a distance of a mile, whereas from other species it will spread only about 300 yards.

Labour cost in removing the *Ribes* has been about 20 cents an acre, but the cost varies widely, of course, with the prevalence of the *Ribes* plants. In order to effect complete removal, a follow-up treatment will be required in 4 or 5 years at a probable cost of about one-third the original operation.

White-pine blister rust infects all five-needle pines, including the eastern white pine, and the western white pine which occurs in British Columbia. The situation in Ontario and Quebec is particularly favourable from the standpoint of control, as the eastern white pine is not nearly so susceptible to the disease as the western white pine, and the drier climate, as compared with that of British Columbia, or the eastern United States, is unfavourable to the growth and spread of *Ribes* plants, which require considerable moisture. The main pine areas in the eastern provinces are practically free from infection from the cultivated black currant, whereas United States pineries, which are largely privately owned, are commonly interspersed with farmers' and villagers' gardens in which black currants are cultivated.

In the United States the Federal, State, and municipal authorities have been fighting this disease for many years, and have spent millions of dollars in their endeavour to stamp it out, to which end from 15,000 to 20,000 men are employed each summer.

The accessible stand of eastern white pine in Canada is estimated to include 8,788 million feet board measure of saw material, and about 9,944,000 cords of pole-sized timber, 70 per cent of which is in Ontario, 20 per cent in Quebec, and 10 per cent in the Maritime Provinces. The value of the merchantable white pine stumpage, based on prevailing royalties, is about \$50,000,000; and during the 10 years 1926-35, the value of the white pine lumber produced in the eastern provinces has averaged \$9,539,000 annually. The value of the young stand is difficult to estimate, but is a very valuable potential source of wealth.

PUBLICATIONS

A French translation of this Service's Bulletin 61 (Native Trees of Canada) was issued bearing the title *Arbres Indigenes du Canada*. Other bulletins published were No. 88, *Forests and Forest Industries of the Prairie Provinces*, and No. 89, *A Forest Classification for Canada*.

Circulars issued were No. 47, *Wood and Charcoal as Motor Fuel*, and No. 48, *Utilization of Sawmill Waste and Sawdust as Fuel*.

Tree Pamphlet No. 6, *Red Pine*, was reprinted.

FOREST PRODUCTS LABORATORIES OF CANADA

The conversion of timber stands into manufactured products for home consumption and export is one of Canada's important industries. The greatest concentration of timber-using industries occurs in Eastern Canada, and in British Columbia. Timber supplies the raw product for lumber, pulp, paper, rayon, wood-distillation products, railway ties, poles, piling, furniture, doors, shingles, shipping containers, planing-mill products, and for a wide variety of other wooden products and wooden parts.

With the development of more diversified uses of wood, and the extension of markets to nearly all timber-importing countries of the world, where Canadian timber must come into competition with other countries, timber industries have to face new problems each year. Besides, as old mature stands are cut, the character of the industry changes materially. Species of timber previously considered of no value assume importance; and increased attention must be given, therefore, to avoiding waste in both logging and subsequent manufacture.

The three Forest Products Laboratories are located at Ottawa, Montreal, and Vancouver; all of these co-operate with the wood-working industries in the study of technical problems affecting the manufacture and utilization of forest products.

In the main laboratories at Ottawa, all phases of wood utilization except those concerning pulp and paper are investigated.

The Pulp and Paper Laboratory at Montreal works in co-operation with the Canadian Pulp and Paper Association, and with McGill University, and its entire attention is given to special problems in the manufacture of pulp and paper.

The Vancouver Laboratory is concerned particularly with those problems in timber mechanics and timber products that are peculiar to the special types of timber of the west coast, and which, because of distances involved, could not be dealt with satisfactorily at Ottawa.

The improved condition in the lumber and pulp industries has been reflected in the increased demand from industry for the assistance of the laboratories in these problems. The program of the laboratories for the year included work on 93 specific projects, as well as a large number of minor investigations made as the result of requests from the industry. A total of 2,858 inquiries for technical information and advice were answered.

Details of the principal problems given attention during the year follow.

OTTAWA LABORATORIES

DIVISION OF TIMBER MECHANICS

Testing of Small Clear Specimens

Testing was completed on air-dry shipments of eastern cedar and yellow birch from New Brunswick, and on aspen poplar from Saskatchewan. A French edition of the table giving values for the physical and mechanical properties of Canadian woods was prepared.

Comparative Strength of Sapwood and Heartwood of Yellow Birch

The investigation of the comparative strength of the sapwood and heartwood of yellow birch was completed and a final report prepared.

The Strength of Brown-stained and White Wood of Hard Maple

Tests on brown-stained and clear white wood of hard maple were completed and a final report prepared.

Glues and Gluing

Tests were completed on glued joints prepared in 1931 to determine the effect of time of service upon the joint strength. Re-tests were made on various concentrations of low-grade bone-glue to determine the relation of glue grade to strength.

The Splitting Effect of Nails in Orange-crate Construction

Analyses of tests on white spruce, balsam fir, amabilis fir, and western hemlock orange-crate slats at 8 per cent and at 12 per cent moisture content were completed.

Logging Sleighs

A series of tests was made on sleigh models to determine the effect of design and other variables upon the coefficient of friction of sleigh runners. An investigation of logging methods, with particular reference to sleighs, was made at the Montmorency operations of the Anglo-Canadian Pulp and Paper Company. This investigation is being carried out in co-operation with the Woodlands Section of the Canadian Pulp and Paper Association.

Standard Specifications for Structural Timbers

The final draft of the standard specifications for all species of Canadian timbers ordinarily used for structural purposes was approved by the committee of the Canadian Engineering Standards Association. The Chief of the Timber Mechanics Division was chairman of the committee of the Canadian Engineering Standards Association that dealt with this specification.

Eastern Canadian Structural Timbers

The testing was completed on 1,215 eastern spruce timbers in the sizes exported to the United Kingdom. These tests were undertaken at the request of, and in co-operation with, the Eastern Canadian Timber Commissioner to the United Kingdom, the Canadian Lumbermen's Association, and the Provincial Governments of Quebec, New Brunswick, and Nova Scotia.

Strength of Dowel Joints

Recent inquiries from furniture manufacturers and from the Canadian Trade Commissioner at Liverpool, England, indicated the need of an investigation to determine the effect of such factors as method of gluing, moisture content, imperfections in manufacture, and other variables upon the strength of dowel joints. Canadian dowel manufacturers exporting to the United Kingdom are co-operating in this investigation.

Plywoods and Veneers

The investigation of the gluing properties of potato and other commercial starches, carried out in co-operation with the National Research Council, was completed, and a report for publication prepared. The Royal Canadian Air Force specifications for plywood require that the "adhesion of plies shall be tested by forcibly separating the layers", but do not suggest any means whereby the force required to effect the separation may be determined. The design and construction of equipment for the measurement of these forces were undertaken. Tests were made of the waterproof qualities of commercial Douglas fir plywood.

Standard Specification for Butter-boxes

At the request of the Dairy and Cold Storage Branch, Department of Agriculture, tests were made on export and domestic butter-boxes obtained from Alberta, Saskatchewan, Manitoba, Ontario, Quebec, and Nova Scotia. Based upon these tests, a recommended standard butter-box specification was prepared and presented at the Manitoba, Saskatchewan, and Alberta Dairy Conventions. At these meetings its adoption as a standard was recommended by both dairy and box-manufacturing interests.

Logging Chains

A committee of the Canadian Engineering Standards Association was formed to standardize specifications for chains used by the pulp and paper, and lumber companies. The committee is composed of representatives of these companies, and of the National Research Council, McGill University, the chain manufacturers, and these laboratories.

Minor Investigations and Miscellaneous Testing

Minor investigations, usually arising from technical inquiries, have resulted in an increasing number of tests, among which are: tests for glue- and furniture-manufacturing companies; tests for the Aircraft Inspection Detachment of the Royal Canadian Air Force on samples of white spruce for possible use in aircraft construction; tests for a construction company on loads necessary to embed a toothed-ring type of timber connector; tests on fibre-board dynamite boxes to determine whether they complied with shipping specifications; tests for a steel company on a new design of nail; comparative tests on boxes of various types for export of foodstuffs; tests for a conduit manufacturer; and the City of Montreal Engineering Department, on impregnated-fibre conduit.

DIVISION OF WOOD PRESERVATION

Creosote Treatment of White Spruce

White spruce, owing to its wide and abundant distribution, is used for mine timbers, ties, poles, posts, decking, and miscellaneous structural purposes. The wood of this species, however, when placed under conditions favourable to decay has not a very long life unless treated with wood preservatives.

Of the many factors that influence the penetration of wood with preservatives, the moisture content of the wood when treated is very important. In the experimental work on the treatment of spruce it was, therefore, decided to study this variable first. The preservative used was a creosote oil. After treatment the pieces were sawn open, planed, and examined for details of penetration. Tests indicate the possibility of successfully treating spruce that has been well air-seasoned before treatment.

With respect to the above work, two trial charges of green spruce test-pieces were treated with creosote at the request of a pulp and paper company. The results of these treatments were fairly satisfactory for the dense, slow-growing spruce, as the preservative penetrated the closely spaced summer-wood bands in a manner apparently adequate to protect the timber as a whole from decay.

Service Tests of Treated and Untreated Timber

In continuing the work referred to in the 1935-36 report, 77 additional tests were set up to obtain reliable data on the service life of treated and untreated timber products, including railway ties, telephone poles, piling, caps, stringers, and wharf decking. This brings the number of tests now recorded and under observation to 427. As the nature of the products indicates, these tests embrace different species of Canadian woods used in actual service under a great variety of conditions, and in areas extending from Vancouver to Halifax.

Service Tests of Treated and Untreated Fence-posts and Untreated Saplings

Many inquiries have been received from farmers as to the utilization of various woods for fence-posts, and the length of service that may be expected of such posts, both treated and untreated. The following work was carried out in order to have definite information regarding the adaptability of posts to treatment; the amount of preservative they absorb; and their length of service when treated as compared with their length of service when untreated.

Seventy-five posts of 20 species of timber were cut on the Petawawa Forest Experiment Station during the winter of 1935-36, and then peeled, and piled for air-seasoning until the beginning of September 1936. Treatment of the posts with creosote oil by the open-tank process was then begun. This work will be completed in the summer of 1937, when all the poles will be installed at the same time in the same location.

To study the effect of type of soil on durability, 230 peeled and unpeeled jack pine saplings, and 100 peeled cedar fence-posts, divided into two lots, were installed in light sandy soil, and in a very heavy clay soil. They will be inspected at regular intervals.

In a study of the effect of season of cutting, and of proper handling on durability, 600 jack pine saplings—3 lots of 200 each—were cut at various intervals during the summer of 1935. Half of each lot was left lying unbarked in the woods for a period of several months; the other half was promptly removed after cutting, then peeled and kiln-dried. Installation of the different divisions of the three lots was completed during the summer of 1936.

Fire-retardant and Preservative Properties of Natural Brine from Maple, Ontario

Fire-retardant Tests.—Ten boards were impregnated with different salt concentrations of the solution, and from these boards 40 test sticks were tested in the fire-tube apparatus. The results showed that boards treated with the full-strength brine (26.5 per cent salt) had an average absorption of 11 pounds of dry salt a cubic foot, and that this high absorption rendered the boards fire-retardant to a marked degree, roughly equivalent to that of a 5-pound absorption of di-ammonium phosphate. Boards treated with the diluted brine, and having an absorption of 5 pounds of dry salt a cubic foot, showed somewhat erratic fire-retardant properties, ranging from fair to poor. Boards treated with a 2-pound absorption of dry salt showed no fire-retardant properties.

Tests of the Wood-preservative Value.—Small pieces of wood were impregnated with varying concentrations of the natural brine and placed over mats of growing fungus. After 6 months those impregnated with full-strength, or nearly full-strength brine, show no signs of fungus attack; lower concentrations, as well as untreated controls, are badly attacked. The effect of the brine on hygroscopicity, machining properties, corrosion, etc., must also be considered.

Treatment of Ties with Tar

At the request of the Canadian Pacific Railway, hemlock, jack pine, and hardwood ties were treated with coke-oven tar to determine the possibility of using the straight tar as a preservative, the absorption of tar by ties of the different species, and the penetration secured.

Service Tests on Red-stain and Red-rot Jack Pine Ties, Treated and Untreated

This test covers ties installed in 1925. The test track was examined in 1936, and the ties removed during the year were noted and recorded. The removals to date because of decay show practically no difference in service life between ties infected with red-rot and with red-stain, but indicate in a striking manner the value of treatment with preservative (creosote coal-tar mixture).

Service Tests on Creosoted Jack Pine and Hemlock Ties

Ties of each of these two species were treated with creosote oil at the laboratories in 1919, and installed in the main line of the Canadian Pacific Railway in 1920. The ties were all in good condition in 1936 with no removals after 17 years' service.

Service Tests on Creosoted Hardwood Ties

This test consists of 831 ties—birch, maple, and beech—installed in the track of the Canadian Pacific Railway in 1930 and 1931. Recent yearly inspections showed that many of the beech ties were checking at their ends, and that this checking was aggravated by driving spikes to shim the track. The checking was less noticeable in the maple ties, and was almost entirely absent in the birch ties. No removals of ties were noted in the 1936 inspection, but a photographic reproduction of the test ties was made that will permit the study of the rate of failure, and the acceleration of such failure by spiking for shims, or by natural checking of the ties in service.

Mine Timbers

At the request of the Canadian Institute of Mining and Metallurgy, an investigation of the use of timber in Canadian mines was started. Of particular importance is the preservative treatment of mine timbers. A representative of the Laboratories visited a number of the large mines in the Kirkland Lake, Porcupine, and Sudbury Districts to make a preliminary study of conditions.

Preservative Value of Sodium Fluoride and Dinitrophenol when Applied to the Surface of Timber in a Thin Paste

Some interest has been evidenced in Canada recently in a new process for the treatment of wood. The preservative, which usually contains mainly dinitrophenol and sodium fluoride, with or without the addition of a considerable amount of sodium bichromate, is brush-painted in the form of a paste over the surface of green wood. The pile of treated wood is then covered with waterproof paper for from 20 to 90 days to protect it from rain, and to prevent the loss of moisture while the preservative is penetrating into the wood. Tests are being carried out in the Laboratories on the treatment of ties by this process.

DIVISION OF LUMBER SEASONING

Kiln-drying Studies

The experimental work was confined to kiln-drying hardwoods, the species studied being maple, beech, ash, and oak. As these species season rather slowly, relatively few charges were completed within the year, particularly as most of the stock was of 4-inch thickness. Though sufficient material on which to base conclusive recommendations has not been seasoned as yet, it has been found practicable to kiln-dry thick hardwoods without any appreciable amount of degrade within a reasonable length of time. Construction work was commenced on an experimental dry-kiln of semi-commercial proportions, which will have a maximum capacity of about 6,000 feet board measure of 1-inch lumber. The kiln is of the internal-fan, cross-circulation type equipped for variable speed circulation, and its addition to the laboratory equipment will make possible experiments on material of commercial sizes, and in volumes comparable to industrial practice.

A noteworthy feature of the year's work was the increasing number of requests for advice on the construction and remodelling of dry-kilns, particularly from the smaller wood-working concerns.

Equilibrium Moisture Content Studies

Studies of the fluctuations in equilibrium moisture content in 1-inch and 1½-inch softwood lumber, covering a period of 5 years, were reported upon.

This study showed that, provided the lumber is piled with reasonable care, the moisture content will not exceed 20 per cent at any season of the year after it has dried below that point, except under abnormal weather conditions. It showed also that good seasoning-yard conditions, and painstaking piling practices, tend to minimize the fluctuations in the moisture content from season to season, and to prevent the occurrence of damp "pockets" in lumber piles.

Air-seasoning Studies

On the invitation of certain operators who sought criticism of their seasoning practices, a survey was made of mills and seasoning yards in New Brunswick and eastern Quebec in the summer of 1936.

An analysis was made of a number of tests on the drying rate of various species of softwood lumber in the Ottawa Valley. The woods studied were white pine, red pine, jack pine, eastern spruce, and eastern hemlock, mostly one inch in thickness. It was found that such lumber, if piled early in the summer, would dry to a moisture content of 20 per cent or less in about 7 weeks, but that 1½-inch lumber required another 3 weeks to reach the same degree of dryness. Autumn-piled stock will not ordinarily be thoroughly seasoned until the following May. Attention was given to the seasoning of the upper grades of white pine in specially constructed sheds, a practice that is finding favour because of the reduction of degrade effected thereby.

Use of Yellow Birch and Hard Maple for Spokes and Felloes of Artillery Wheels

A number of artillery wheels of chemically treated yellow birch and hard maple were made in 1934 to compare their strength and length of service with those made of standard oak and ash. Since then these wheels have been thoroughly examined each year. The wheels have been subjected to the same hard usage as other wheels, and so far have shown no signs of failure of consequence.

Wood Taint in Butter-boxes

Tests were concluded during the year by the Department of Agriculture on the quality of butter stored in boxes made of various Canadian softwoods under the supervision of the Forest Products Laboratories. Some of the boxes were coated with paraffin, and others with a casein-formalin mixture.

Wood-fuel Investigation

The desirability of increasing the use of wood as fuel has been directed to the attention of the Laboratories on several occasions. In the spring of 1936, therefore, plans were made for a widespread study of the possibilities of extending the use of fuel-wood in those regions largely dependent upon imported coal.

In co-operation with the Fuel Research Laboratory, the designs of wood-burning stoves and furnaces were studied to assist in developing the most efficient and most easily operated types. Consideration has been given also to methods of cutting, transporting, and distributing fuel-wood so that cheaper and more desirable practices may be adopted, to the greater use of wood as an industrial fuel, and to the greater use of charcoal as a fuel.

DIVISION OF TIMBER PHYSICS

Wood Sections

The Laboratories receive numerous requests from wood-working plants, Government departments, and other inquirers for specific identification of woods of domestic and foreign origin, many of which refer to customs or trade matters. It is necessary, therefore, to maintain standard microscopic preparations of commercial timbers for reference purposes. Sections of twenty-six species were added to the Laboratories' collection during the year.

Variation in the Quality of Spruce and Balsam Fir

This is an investigation of the variation in quality of spruce and balsam fir in different types of stand in Eastern Canada. The measurement of basic density of pulpwood, too, is a good indication of its mechanical properties, and of the amount of pulp the wood is capable of yielding, so that determinations of this property, together with inspection of the wood, gives a very good method of evaluating timber or pulpwood. During the summer of 1936 material was collected in New Brunswick and Nova Scotia. The series of collections of spruce and balsam fir from softwood, mixed hardwood, and black spruce stands at various points from western Ontario to the Maritime Provinces was thus completed. The material was selected from the limits of various pulp and paper companies, with the co-operation of foresters of these companies. Essential data regarding the type of stand, soil condition, topography, aspect, drainage, and other characteristics were recorded for each stand sampled at the time of collecting the wood. At the Laboratories, tests have been recorded on some 800 trees from more than 30 localities. An attempt is being made to present the information in such form as will enable woods operators to apply it readily to the forest types of their respective districts so that the density of wood from each district or type may be estimated.

A Study of Variability in Wood for the Purpose of Developing Methods of Selecting Strong Stock

A study of samples of ash, dried in the kilns of the Laboratories for the use of the Department of National Defence, showed that there was considerable variation in density of the wood, but no correlation between width of rings and density of the wood was possible.

Fibre Dimensions

The practice of measuring cell dimensions is widespread. In practice it has been found that the properties of paper made from wood of high density are different from those of paper made from wood of low density. The diameter of wood cells of spruce wood of high density is different from that of low density, and it is, therefore, desirable to record measurements of the diameter of the cells of softwood pulpwoods in the expectation that such a measurement of the paper-making fibres will show some quantitative relationship with qualities of paper. Specimens from both light and heavy white spruce trees, and from trees of heavy-weight black spruce were sectioned for microscopic measurements of cell-diameter.

General

Samples of the timber tested or investigated at the Laboratories were identified for record; these samples included joists tested for mechanical properties, timber used in standard tests of different species, the wood in boxes and crates under test, material (ties, poles, etc.) used by the Wood Preservation Division, and material inspected by these and other divisions of the Laboratories.

Samples of domestic and foreign timbers were received from timber dealers, pulpwood operators, paper mills, engineers, and contractors, the Department of National Revenue, the Commercial Intelligence Service, and other sources for identification.

Some of the samples submitted with requests for information on the suitability of the wood for timber, plywood, and special uses require short special investigations, an instance being the examination of pulpwood samples from mills to check methods of density measurement.

Figures were prepared in collaboration with the Woodlands Section of the Canadian Pulp and Paper Association showing the weight of water and wood in representative pulpwood of various moisture contents, for a report of the Association on the cost of rail shipment of pulpwood.

DIVISION OF TIMBER PATHOLOGY

Reference Collection of Pathological Material

A re-examination of the standard cultures was commenced. All cultures found unsatisfactory as an aid in identifying fungi isolated from wood are being discarded, among them being the single-spore cultures, as cultures made from different spores from a single fruit-body may vary considerably. The standard series will contain sporophore tissue cultures, and those of polysporous origin.

Red-stain in Jack Pine: Its Development in Creosoted and Untreated Railway Ties under Service Conditions

Red-stain is the early stage of decay caused by the fungus *Trametes Pini* which attacks jack pine and other softwood trees. Its continuous growth reduces the firm, red-stained wood to a stage known as red-rot, in the advanced condition of which the strength of the wood is destroyed. The study is being made to determine whether *Trametes Pini* continues to develop in red-stained wood, and continues to produce the red-rot stage in railway ties under service conditions. Results to date indicate that *Trametes Pini* is not active under track conditions. The experimental track still contains approximately 200 ties, which will be removed and analysed at regular intervals. During the year a report entitled "Analysis of 20 Creosoted and 30 Untreated Ties Removed from Track in April, 1935," was completed and submitted; this analysis involved the preparation and study of some 6,000 cultures.

Blue-stain in Softwoods

Laboratory tests of eight chemicals or combinations of chemicals recommended for control of stain and mould in softwoods were set up, with spruce sapwood as the test material. The piles were under observation for a month and then examined. Small piles of white and of red pine sticks were set up to test the efficiency of certain chemicals in protecting the wood against attack by stain and mould fungi. Spruce lumber was piled in a lumber yard at South Nelson, N.B., in July, to test the efficiency of certain chemicals in controlling stain and mould development. The pile was dismantled and examined in October. Results to date indicate that two of the chemicals tested—one being a mixture of ethyl mercury chloride with inert substances, and the other a mixture of sodium chloro-orthophenylphenolate and sodium tetrachlorophenolate in equal amounts—give excellent protection against stain, and that the latter also checks mould development.

Rate of Deterioration of Pulpwood in Storage

In 1932 sample pulpwood sticks were placed in a "block" pile at Hawkesbury, Ont., and others in a "corded" pile at Kipawa, Ont. A sample from each test stick was furnished the Laboratories for analysis. The sticks were stored until 1936, when 20 sticks from Hawkesbury and 13 from Kipawa were sent to the Laboratories for study.

Hawkesbury Samples.—Tests on this material indicated that during the storage period the sound sticks suffered complete decay to the extent of more than $3\frac{1}{2}$ per cent of their original size, and that decay had become established in another 60 per cent. *Lenzites saepiaria*, a very active destroyer of softwoods in storage and service, was found to be the most prevalent agent of decay. *Stereum sanguinolentum*, which causes red heart of standing balsam fir and spruce, was also isolated, and five other fungi were obtained in culture, one of which had been isolated previously from stored Northern Ontario pulpwood.

Kipawa Samples.—Two sticks showed a trace of typical decay after 4 years' storage. Of the total volume of 12.22 cubic feet examined, 18.8 per cent had developed incipient decay.

Technical Inquiries

The following problems received attention as the result of inquiries: stain in softwoods and hardwoods, with special reference in several cases to chemical treatments recommended for control; decay in buildings and mine timbers, and of pulpwood in storage; development of "slime" in pulp-mills; cultures of wood-destroying fungi; and the identification of a culture submitted. Other requests had reference to discoloration in birch shims; durability of stained pine and of water-driven white pine; decay in Western hemlock ties; identification of decay in elm, birch, ash, and cedar; relative durability of certain woods when exposed to marine conditions, and of summer- and winter-felled cedar.

Decay in Western Hemlock Railway Ties

Some of the Western hemlock ties, imported into England from British Columbia by one of the large railway companies, were discarded because of the presence of decay. The fungus responsible for the decay was identified from samples forwarded to the Laboratories as *Fomes pinicola*, which attacks weakened standing trees and down timber.

General

The preparation was commenced of a publication on fungal defects in Eastern Canadian timbers.

DIVISION OF MARKETS AND EXHIBITS

Markets

Investigations on the marketing of lumber and lumber products usually arise from inquiries with respect to specific information on wood products, their sources of supply, their cost or design, record in use, and other topics, which are received from trade commissioners, provincial governments, Canadian and foreign manufacturers, and others.

Exhibits

Exhibits prepared so as to show modern trends and good practices in the use of wood were on display at the Produced-in-Canada Exhibition, Montreal, and the Central Canada Exhibition, Ottawa.

WOOD CHEMISTRY

Wood Gas for the Operation of Motors

Information was assembled on developments in the use of gas, produced from wood or charcoal, for the operation of internal-combustion engines. These developments are of importance to lumbering and mining operations distant from cheap transportation, and in some cases to wood-working plants where waste wood is available at low cost.

Attention was given also to the following problems: the bleaching of discoloured maple, and of western red cedar; production of turpentine from Canadian pines; finishing of yellow birch; the manufacture of leaf oils, of potash, and of Canadian snake-root oil; tannin extract from Western hemlock; the distillation of hardwoods; use of wattle bark for tannin; carbonization of wood; application of acid-proof stains to wood; and the use of birch oils.

General

A number of papers were prepared for technical and trade journals, or for delivery before scientific or trade associations. Among the subjects dealt with were—Wood Preservative and Fire-retardant Properties of Muskiki Brine; Fire-retardant Treatment of Wood; Wood-box Construction; Variability of Wood; Use of Wood for Fuel; Strength Properties of Eastern Canadian Woods;

Preservative Treatment of Structural Timbers; Canadian Forests as a Source of Fuel; Symposium on the Utilization of Hardwoods Occurring in Pulpwood Limits; Recommended Specifications for Butter Boxes; Density Studies of Eastern Canadian Spruce and Balsam.

Accommodation

A number of changes in the accommodation and facilities of the Laboratories were made by the Public Works Department.

A new chamber, 18 feet by 10 feet by 10 feet, and provided with automatic temperature and humidity control, was erected for maintaining timber at a uniform moisture content of 12 per cent, so as to permit the testing of air-seasoned material throughout the year.

An experimental, semi-commercial dry kiln, with an overhead heating system and fans for cross-circulation, was erected. Its walls and ceiling are constructed of creosoted 2-inch planks, double thickness, separated by a heavy roofing paper, the joints between planks being staggered. The kiln is lined with an asbestos board, with the joints carefully caulked.

A reinforced concrete wet storage tank, 30 feet by 10 feet by 6 feet, was built for material awaiting test in the green condition. Adjustments were made to the sawmill and the storage room for wood-preservation tanks, and tracks were laid to provide ready transportation of material to the sawmill, dry kilns, and wood-working shop.

Co-operation with National Research Council

Members of the staff served on the Paper Standards, Paint and Pigments Specifications, Creosote Specifications, and Specifications for Chemicals sub-committees of the National Research Council.

PULP AND PAPER DIVISION (MONTREAL)

The chief activities of the Division during the past year were the study and development of methods for analysis and testing of pulp and paper; researches in pulping wood, by mechanical and chemical processes; the standardization and calibration of instruments for testing pulp and paper; the testing and analysis of samples of various woods, pulps, and papers submitted by commercial firms and individuals; and the furnishing of information on a variety of subjects, on the manufacture of pulp and paper. A detailed description of the activities of the Division follows:

METHODS OF ANALYSIS

The final design of the Johnston pulp-fibre classifier was approved, and arrangements were made with the Canadian Pulp and Paper Research Corporation and a Canadian manufacturer for its manufacture and distribution in Canada and elsewhere.

The Steel brightness tester has been assembled and tested. A comparison between this instrument and that devised by Dr. O. Maass for measurement of the opacity of paper was conducted. Studies in the use of colour filters to determine relative brightness in light of different colours have been undertaken. The instrument has been used in the examination of samples of board.

An instrument, devised for measuring the oil-absorbency of paper, has been used successfully to determine the behaviour of papers in contact with ink.

Further investigations have been made into the manner in which drainage takes place in the sheet machine and the freeness tester, because of the desirability of linking more closely measurements of drainage and freeness with the behaviour of stuff flowing on a Fourdrinier wire.

At the request of the Subcommittee on Paper Quality of the Canadian Government Purchasing Standards Committee, studies were made of the chemical and physical properties of papers purchased for purposes of record and correspondence by the Dominion Government. Information was also obtained regarding testing procedure that might be included in specifications of quality for Government purchases of paper.

PULPING BY CHEMICAL AND MECHANICAL PROCESSES

Only laboratory-scale studies of pulping processes are made, as it has been found that these can be conducted more rapidly and economically than those of a semi-commercial scale.

A series of investigations was conducted into the possibility of pulping Canadian hardwoods by the sulphite process, most of the work being carried out on white birch (*Betula papyrifera*), yellow birch (*Betula lutea*), and aspen (*Populus tremuloides*). Although the average fibre-length of these hardwoods is much shorter than that of the conifers, it varies to a lesser extent. Satisfactory pulps were obtained in laboratory operations, and the conditions for operation were determined. Aspen gave bright pulps; birch pulps, however, required bleaching before a white pulp could be obtained. Pulps from hardwoods by the sulphite process can apparently be blended satisfactorily with coniferous pulps, and, for special purposes, some advantage may be secured in some cases by such blending. Pulps made by the soda process appear to possess higher bulking properties, but the yield is reduced. Mechanical pulping of the hardwoods yields a rather uniform, short-fibred pulp that might be suitable for moulding operations, although its colour will prevent its extensive use as newsprint.

Some experiments were made on the pulping of jack pine with both a lime and a soda base sulphite cooking acid. Some satisfactory pulps were produced from sapwood, but heartwood appeared to be more resistant to pulping. Jack pine is unlike Southern pine in that the proportion of heartwood is fairly high. Mechanical pulping proved more satisfactory, but the summer-wood pulps less readily than the spring-wood.

Besides the investigation of hardwoods and jack pine, support was given to investigations by students in the Faculty of Graduate Studies at McGill University on the effect of pre-treatment of wood on pulping by the sulphite process, and the influence of high concentrations of sulphur dioxide and calcium sulphite on yield of pulp, and delignification of wood.

Mechanical pulping experiments were continued, a miniature pulp grinder being used. The results obtained were noticeably close to those obtained in commercial practice, excepting that, owing to the absence of large amounts of pulp, which in commercial grinders must escape from under the wood, the rate of production was much higher.

By following this procedure it was found possible to duplicate previous experiments with considerable accuracy, so that the method could be used to investigate the effect of variation in the controllable variables of the groundwood process—a research that has cast considerable light upon the mechanism of grinding. Insulating the apparatus, and determining the heat input and output, showed that all the energy consumed in grinding appears as sensible heat.

PRINTABILITY OF PAPER

Work on the printability of paper was continued, and a more detailed investigation was made of the changes in dimension that take place when paper is exposed to varying conditions of humidity and temperature. A hysteresis effect was observed when papers were exposed to moist air and then allowed to dry out or, conversely, were first dried and then humidified. The effects were

studied in a vacuum, in still air, and in currents of air to ascertain the effect upon loss and regain of moisture. In some cases exposure to moisture was found to effect a permanent deformation. This work is of considerable importance where close register on the printing press is essential, as, for instance, in multicolor printing and lithography. A number of types of paper were compared as to their behaviour with respect to humidity.

Attention was given to determining accurately the percentage of moisture present in paper.

Considerable attention was given to the development of the oil-absorbency tester, which was used to determine the ability of different papers to absorb oils such as are used in inks. The influence of the moisture content of the papers studied upon oil-absorbency was also examined.

A proof-press was used to record the printing qualities of the different papers tested.

PHYSICAL CHEMISTRY OF PULPS AND CELLULOSE

Continued support was given to investigations being conducted by students in the Faculty of Graduate Studies at McGill University. Six workers were engaged on basic problems related to the pulp and paper industry, included in the research program of the Division. Among the properties of cellulose and pulp under investigation were the thermal conductivity of pulps and paper, the dielectric constant of cellulose and pulps, the adsorption of gases, vapours, and electrolytes on pulps, and the determination of the consistency of pulp suspensions by measuring their electrical conductivity.

STANDARDIZATION AND CALIBRATION OF INSTRUMENTS

During the year, fourteen Canadian standard freeness testers and one hundred and sixty-seven parts of the same tester were calibrated. Two British pulp evaluation apparatuses and five parts were calibrated.

GENERAL

Testing of Pulp, Papers, Etc.

Testing of pulp, papers, etc., was carried out throughout the year. The total number of tests amounted to 1,418.

Technical Inquiries

Technical inquiries relating to forest products, and the manufacture of pulp and paper, were received and answered to the number of three hundred and eighty-six. Some of the inquiries were for scientific information, but most of them dealt with manufacturing problems.

VANCOUVER LABORATORY

The improvement in the export trade, particularly with the United Kingdom, and other parts of the Empire, combined with the greater stress being placed on secondary species, such as Western hemlock, in these markets, and the limited local demand for forest products, has resulted in some changes in the nature of the work of the Laboratory.

Close to 900 inquiries were answered, a slight increase over the previous year; and many requests were received for assistance in developing new uses for wood, in improving methods of manufacture, and in extending markets, particularly for the lower grades of material or secondary species.

DIVISION OF TIMBER MECHANICS

Standard Tests for Mechanical and Physical Properties

Tests were made on air-dried material of broad-leaved maple, and on Douglas fir from the interior wet belt of British Columbia. Studies were continued on the effect of rate of growth upon the specific gravity and strength of Sitka spruce, with particular reference to the use of this species for aeroplane construction. One specification recommended by the Vancouver Laboratory, which has been in use for some time by the Royal Air Force of Australia, requires a minimum specific gravity of 0.36 (based on weight and volume oven-dry). This specification has been accepted during the past year by Canada, South Africa, and New Zealand. Certain mechanical tests are required for material showing a specific gravity between 0.36 and 0.38, which must show specified minimum values. Material over a specific gravity of 0.38 is accepted without test.

An investigation with particular reference to specifications for aeroplane construction was commenced to determine the effect of the shape of the test-piece on the strength-value obtained in test. The tests on Sitka spruce included the hour-glass shape and the square shape.

The Effect of Coloration on the Properties of Douglas Fir

The study of the effect of streaky coloration upon the mechanical properties of Douglas fir was extended somewhat, as considerable stained material is found in logs from widely separated areas.

The Strength of Glued Joints

Casein glue has been used almost exclusively in the plywood industry, which is the greatest single consumer of glue in British Columbia. Recently, however, soya-bean glue has come into use. Many tests have been made, chiefly on three-ply material, to determine whether the glue meets the requirements of Royal Canadian Air Force specifications in regard to strength and water-resistant properties.

The Holding Power of Nails in British Columbia Species

Tests were completed on Western red cedar, and are proceeding on Douglas fir and yellow cedar.

Tests of Structural Timbers

Work has been completed on air-dried Western hemlock joists.

Miscellaneous Tests

More than 1,200 miscellaneous mechanical and physical tests were made on special problems, one of the most important of which was the development of a box for apple-packing that will reduce the loss encountered in the use of the present box. At the request of one of the large railway companies, and of a wood preservation company, moisture content determinations of creosoted railway ties were made by distilling wood-borings taken from the treated portions of several ties with xylol, to determine the effect of treating methods upon the final moisture content. A series of tests was made on four different types of boxes used for salmon cases, at the request of a large plywood manufacturer; and another series was made on Western hemlock ladder stock at the request of the Pacific Lumber Inspection Bureau, and a hemlock producer. Tests on the comparative holding-power of wood screws in Douglas fir, and in birch plywood were made to determine whether Douglas fir plywood might be substituted for birch in the construction of theatre tip-up chairs. Some preliminary investiga-

tions were made at the request of a box manufacturer, to provide a comparison between one-piece Western hemlock box-ends and two-piece ends, tied with corrugated metal ribbon fasteners. Tests were made in diagonal compression on standard wall sections made up of 2- by 4-inch studs with $\frac{3}{4}$ -inch shiplap cover, and of 2- by 4-inch studs faced with a wallboard, and made up with excelsior and neat Portland cement. Several custom tests were made on the Laboratory machines, as there is no other equipment available in British Columbia for testing many of the materials of construction.

DIVISION OF TIMBER PRODUCTS

Seasoning

The investigation of the equilibrium moisture content of lumber in the lumber-producing districts in the Interior and the Northern Coast regions of British Columbia was continued. Studies were made on the conditioning of selected "knotty" Western white pine to a uniform moisture content of 7 per cent for use in high-grade panelling.

The Shipment of Lumber: Factors Affecting Quality and Moisture Content

Data obtained from thirty-five test shipments of lumber in connection with the change in moisture content of seasoned lumber during ocean shipment were assembled for publication. An investigation was commenced of the effect of exposure to rain on seasoned lumber, bulk-piled and awaiting shipment. Assistance was given to the Association of Marine Underwriters on the problem of rust in fruit cans exported from British Columbia in wooden boxes. Recommendations in regard to stain and discoloration reduction were made on the air-seasoning and shipping of some large orders of Western white pine to the United Kingdom. A study was made to determine the causes of water-staining in a large cargo of Douglas fir V-ceiling shipped from Vancouver to Quebec, and in a cargo of Douglas fir doors shipped to the United Kingdom.

Air-seasoning

The investigation of the air-seasoning rate of Douglas fir structural timbers, and of Western red cedar poles was continued. Special attention was given to the air-seasoning of Western hemlock. A brief study was made to determine the most satisfactory method of piling Sitka spruce oars for air-seasoning. A degrade study was carried out at a local mill on wide, clear Douglas fir. Mainly to prevent the development of stain and discoloration during transit, a large quantity of lumber is now seasoned. For this purpose the surface moisture content rather than the average moisture content is considered of special importance. A study was undertaken to compare these two factors for Western white pine of various thicknesses. Attention was given also to the surface drying of thick aeroplane spruce, the seasoning of lumber in sling-loads, and the seasoning of fir flagpoles.

Kiln-drying of Lumber

The investigation of the effect of rate of air circulation on the kiln-drying of lumber was continued.

A charge of specially selected Western hemlock was dried in the large experimental kiln at the request of the British Columbia Lumber and Shingle Manufacturers' Association. This material was exhibited at the 1936 Empire Exhibition in South Africa. Assistance was extended to two mills in devising satisfactory drying schedules, and methods of kiln-operation for drying 2-inch Western hemlock merchantable. Satisfactory drying to a moisture content of 18 per cent was obtained in 8 days.

Preliminary to the devising of satisfactory kiln-drying schedules, the drying of special charges of wide hemlock clears, 1 by 10-inch true fir (*Abies*), was supervised at a local sawmill, equipped with internal-fan kilns, and having accurate control of drying conditions. Work was continued on the cause of cupping in Western hemlock. A kiln-degrade study was made at a local sawmill where abnormally heavy losses occurred in the manufacture of kiln-dried finish from green Douglas fir clears. A study was made at two sawmills to determine the cause of abnormal degrade that was occurring during the kiln-drying of edge-grain Douglas fir.

Charges of 1-by-4-inch, and 3-by-3-inch Douglas fir in 20-inch lengths were dried in a small chamber to test the feasibility of drying these classes of material, which are salvaged from low-grade shorts. A charge of 4-by-4-inch air-dried white oak was dried in the large experimental kiln in accordance with a drying schedule recommended by the United States Forest Products Laboratory for highland oak. An investigation was made at a local mill of the causes of variable moisture content in kiln-dried alder, birch, and maple. Assistance was given also to two Fraser Valley mills in problems arising from the kiln-drying of red alder and broad-leaved maple, green from the saw; and to one sawmill, and two furniture factories in the kiln-drying of black cottonwood for cores for furniture veneers. Visits were made on request to a number of sawmills and woodworking factories in connection with their kiln-drying problems. These included the installation of a commercial kiln having two rates of air circulation; kiln-drying of cedar shorts for furniture core-stock; drying various sizes of lumber to conform to different moisture specifications; cause of discoloration of broom-handles during drying; drying common car-material; cause of checking in alder chair-bottoms; design of kiln for drying cones; and causes of cupping and other defects in wide and thick Douglas fir.

Kiln-drying of Shingles

Periodic examination was made of the twenty-six test panels erected in September 1929, in connection with the investigation of the effect of kiln-drying on the serviceability of Western red cedar shingles. A study was started on the use of mechanical circulation of air in the kiln-drying of cedar shingles. The causes of slow and uneven drying of Royal shingles were studied.

In the kiln-drying of shingles having an abnormally high moisture content a defect known as "collapse" may occur unless special drying conditions are used. Assistance was given to a local mill that was experiencing this difficulty.

Moisture Content of Shingles in Service

The study of the effect of different weather conditions on the moisture content of Western red cedar shingles in service was continued.

Effect of Seasoning on Insects Injuring Lumber

One test run was made in the large laboratory kiln at the request of the Entomological Branch, Department of Agriculture, to determine the effect of heat on beetles infesting swamp oak.

Utilization

The increased use of British Columbia woods has opened a wide field of investigations. The following are some of the more important problems dealt with:

Sawmill Waste, and Its Utilization

Work was confined chiefly to: minor studies on the utilization of sawmill waste for fuel; the investigation of new developments affecting waste utilization; and the furnishing of information in reply to inquiries. Among the principal

problems that received attention were: the storage of sawdust; the calorific value of various wood fuels; the manufacture and use of a special fuel for domestic sawdust burners, composed of 50 per cent sawdust, and 50 per cent hogged fuel; the conversion of dry Douglas fir shavings into briquettes; the distillation of sawmill waste; the use of sawdust for insulation; and the use of hemlock mill-waste for fuel, and for pulpwood. Calorific values and moisture-content determinations were made at the request of a coast sawmill, and a pulp-mill on samples of Western hemlock and "true fir" (*Abies*) hogged fuel.

An estimate was made of the quantities of fir and hemlock sawdust produced in the sawmills in the Vancouver and New Westminster areas. Production, based on the log consumption for every sawmill in the areas, amounted to 208,450 units of 200 cubic feet, of which approximately 77 per cent was Douglas fir. Developments in sawdust-burning stoves, and the possibility of devising a special stove to burn hogged fuel were investigated. The possibility of using certain forms of hemlock and Douglas fir for wood-flour in the manufacture of linoleum was given attention. The possibility of using the large volume of wood-dust resulting from the manufacture of plywood is being investigated.

The Use of Wood and Charcoal as a Motor Fuel

The distribution of Forest Service Circular No. 47, Wood and Charcoal as a Motor Fuel, resulted in a demand for further information on the use of producer-gas, the manufacture of charcoal, and related problems on this form of wood-utilization.

Lumber-manufacturing Studies

A preliminary study was made on lumber-manufacturing methods to determine a satisfactory plan for investigating the effect of diameter and quality of log on lumber manufacture, grades, and costs. Considerable interest has developed in British Columbia sawmills in the use of gang-mills for the manufacture of small round logs. A preliminary investigation of the operation of the one American and the two Swedish gang-mills in the coast region was made.

Timber Pathology

The Effect of Coloration on the Properties of Douglas Fir

The study of the effect of red streaks in Douglas fir on its physical properties and value was continued.

Development of Stain and Decay in Ocean Shipments

The causes of stain and mould development during export shipment of Western hemlock and Western white pine to the United Kingdom were studied.

The Effect of Kiln-drying upon the Sterilization of Lumber

Studies of the sterilizing effect of kiln-drying upon lumber showing incipient or typical decay were continued on Western red cedar, hemlock, and true fir (*Abies*).

Microscopic Anatomy of Important Woods

Forty-four wood specimens and thirteen sawdust specimens were given species identification.

Reference Collection of Pathological Material

Additions made to the reference collection included 43 cultures of wood-destroying fungi, obtained from the Division of Pathology of the Ottawa Laboratories. The morphology and taxonomy of a singular fungus inhabiting yellow cedar was studied.

Determination of Sapwood

An investigation was undertaken to find a quick method of determining the extent of sapwood in certain species. The use of iodine and potassium iodide as a means of showing the limits of sapwood was studied for Douglas fir, hemlock, and Sitka spruce.

EXHIBITS

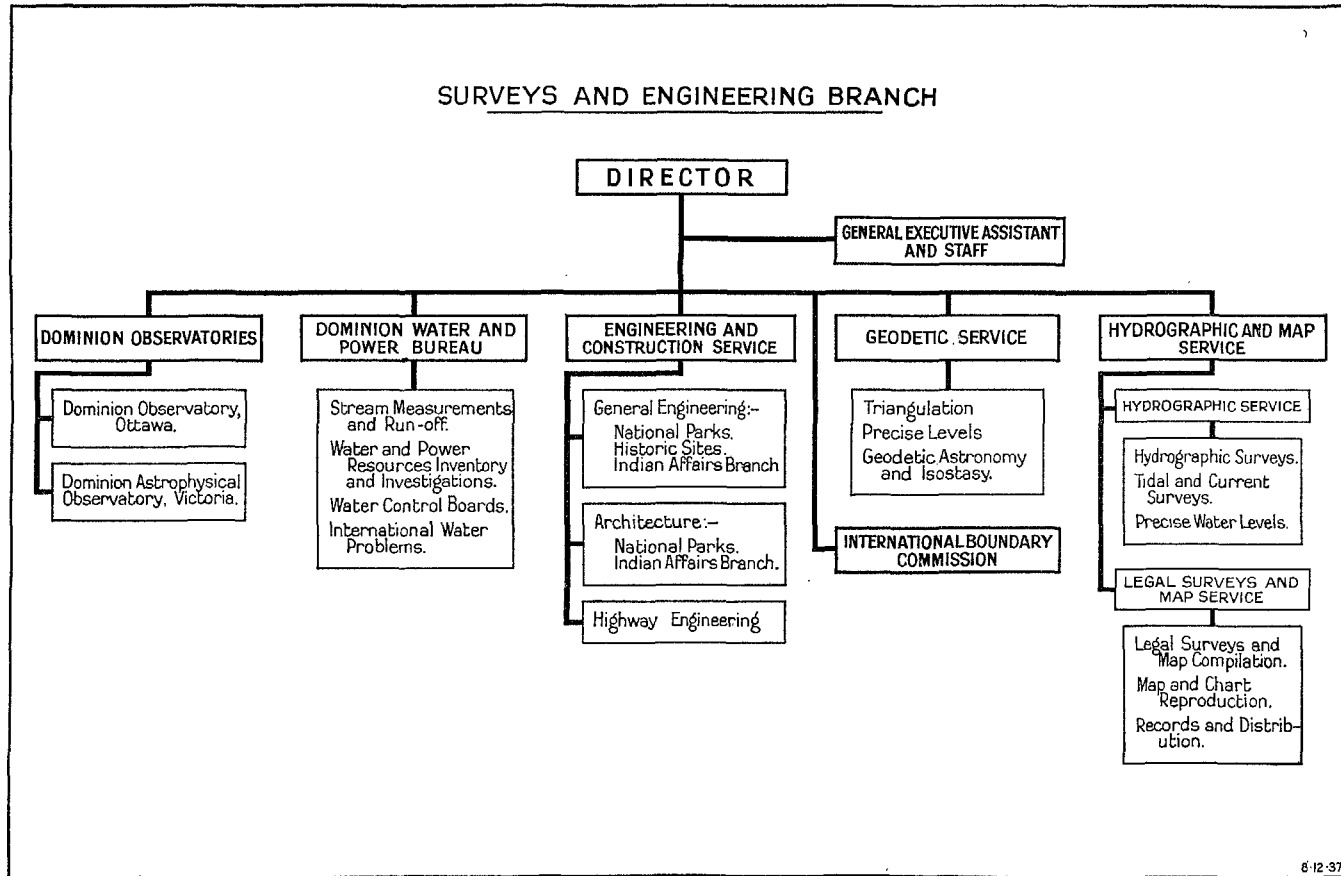
Twenty-seven sets of samples of British Columbia woods were distributed, chiefly to educational institutions, to forest research organizations in all parts of Canada, and to China, Switzerland, United States, Japan, and the United Kingdom.

A number of photographs of logging and lumbering scenes in British Columbia were framed for display at the Naguya Pan-Pacific Exhibition in Japan in 1937. Assistance was given the British Columbia Lumber and Shingle Manufacturers' Association in the preparation of materials for its exhibit rooms at the Empire Exhibition in South Africa; to the Canadian Forestry Association in the assembly of exhibit material for their new quarters in Vancouver; and in the Vancouver Jubilee "March of Time" display, featuring forestry in British Columbia. Co-operation was extended to the Canadian Forestry Association, and the British Columbia Lumber and Shingle Manufacturers' Association in the display of forest products, wood specimens, photographs, etc., at the Vancouver Exhibition.

PUBLICATIONS AND REPORTS

Circular 47, Wood and Charcoal as Motor Fuel, was published.

Two reports were submitted for publication as circulars, namely: Utilization of Sawmill Waste and Sawdust for Fuel; and Change in Moisture Content of Seasoned Lumber During Ocean Shipment.



Organization Chart, Surveys and Engineering Branch.

SURVEYS AND ENGINEERING BRANCH

J. M. WARDLE, DIRECTOR

The Surveys and Engineering Branch is charged with the responsibility of undertaking in a correlated manner certain survey, scientific, and engineering work through the agency of the following services or units: the Dominion Observatories; the Dominion Water and Power Bureau; the Engineering and Construction Service; the Geodetic Service of Canada; the International Boundary Commission; the Hydrographic and Map Service.

DOMINION OBSERVATORIES

The Dominion Observatory, Ottawa, and the Dominion Astrophysical Observatory, Victoria, B.C., conduct both research and practical work in the various branches of astronomy, astrophysics, and geophysics. The investigations at both observatories are mainly scientific, and they form Canada's official contribution to research in astronomy and allied sciences. Many of the studies, however, have distinctly practical application.

DOMINION OBSERVATORY, OTTAWA

Opportunity was taken during the process of reorganization to consolidate the work in seismology and terrestrial magnetism throughout the country, which had heretofore been carried on partly by the former Department of the Interior and partly by the Department of Marine. This involved the absorption by the Dominion Observatory of seismological stations at Toronto and Victoria, and of the two permanent magnetic observatories at Agincourt, Ontario, and Meanook, Alberta, together with the staffs involved.

For a number of years past requests for the services of an astronomer, for instructional purposes, have been received from several of the Young Peoples' camps. This year four of these camps were visited during July and August. Each day "star talks" were given, and on clear nights the talks were followed by a study of the constellations. Lectures on various phases of astronomy and geophysics, mostly of a popular character, were also given from time to time as occasion demanded. A series of five technical lectures on seismology was delivered at the University of Toronto in November by the seismologist.

In position astronomy observations for right ascension and declination with the meridian circle were continued on the former list of 1,470 stars, the instrument now being in the reversed position. A total of 2,647 observations of star positions were obtained, and in addition 128 observations of the sun and 857 readings of instrumental constants were made. Observations were also continued with the personal equation machine to determine the value of the observers' personal equations. The computation of the observations is being kept up to date as nearly as possible.

For the determination of correct time, clock corrections and rates for the three primary sidereal clocks were obtained from observations made with the meridian circle on 163 nights, and from observations with a small transit instrument on 87 nights. Comparisons of the primary clocks were made twice daily.

The synchronized time service at the Observatory and in the various Government buildings in Ottawa was continued as usual. It involved the maintenance and use of 17 secondary master clocks, 2 tower clocks, 652 minute dials, 18 second dials, and the various relays, chronographs, and seismograph shutters used for timing purposes. Time signals were sent out by clock beats over the telephone, when required, and also continuously over the branch lines from the Canadian National Railways and Canadian Pacific Railway telegraph companies. Short wave wireless time signals were transmitted from the Observatory on 20, 40, and 90 metres, and through station CRCO on 880 kc. Wireless time signals were received daily from Bordeaux, Rugby, Nauen, Monte Grande, Arlington, and Rio de Janeiro, and the times of reception of these signals were forwarded each month to the International Time Bureau at Paris, and to other co-operating observatories. In addition to the regular work of receiving and sending wireless time signals, considerable time was devoted to improving the methods of receiving time signals, analysing wave-forms, and improving the tone and radius of the short wave signals sent out, so that they may be available to more parties engaged in scientific survey work. As previously, the half-minute beats of the free pendulum Shortt clock were transmitted over special lines to the Canadian Broadcasting Corporation (Engineering Department) and to the Department of Transport (Monitoring Station) for standardization of radio frequencies, and in return the rates of the crystal clocks maintained by these branches were made available to the Observatory. During the year 248 clocks, chronometers, watches, and other timing mechanisms were cleaned, repaired, and rated for the Observatory and other branches of the Department, as well as for other Government departments. The usual tables of the times of sunrise and sunset, phases of the moon, and differences of standard time, were prepared and supplied to the public on request.

Solar observing conditions were below normal; 140 nine-strip spectrograms were made of centre, midway, and limb points on the solar disk at various position-angles, with standard iodine absorption spectra; and 36 photographs recording sunspots were secured. Measurement and computation of the observations for solar rotation in 1909 and 1910 were completed and prepared for publication. These measurements yielded values of the equatorial velocity of the solar rotation from 5 to 8 per cent lower than the previous observations made at Upsala, Edinburgh, and Mount Wilson observatories. They were, however, in substantial agreement with practically all subsequent measurements. Similar work was continued on the observations for the years 1911-1914. Regular records were kept of visibility and cloudiness, and other phenomena. Information concerning the sunspot cycle and related terrestrial phenomena was supplied in response to numerous requests.

Observational work with the 15-inch equatorial during this period was divided between the spectrograph and the photoelectric photometer. Spectrograms were regularly made of Nova Lacertae until the decreasing brightness of the star made observations impracticable. Plates were also taken of Gamma Cassiopeiae. Alterations to the microphotometer have been made, which have resulted in a great improvement in its performance. As in former years, the telescope was made available for public demonstrations every clear Saturday evening. In this connection, popular descriptions of celestial objects were prepared and issued in pamphlet form for distribution to the public.

In co-operation with the Royal Astronomical Society of Canada, meteor observations were planned for the Perseids in August and the Leonids in November. During August encouraging results were obtained, but unfavourable weather conditions interfered with the Leonid observations. In addition to the usual

meteor counts, photographic records of a meteor trail were secured from two stations a few miles apart, which made possible a computation of the height and direction of motion of the meteor.

With the photographic equatorial, the field of S.W. Bootis was observed for the determination of the magnitudes of comparison stars, and plates were made of the fields of U.X. Aurigae, R. Coronae Borealis, and R.Z. Geminorum for light curve purposes. Observations were made on Nova Herculis, Nova Lacertae, and the two novæ in Aquila. Peltier's comet was also photographed on a number of occasions in June and July. Photometer measurements of the novæ and of Cepheid variables were continued. The fields of R.T. Scuti, R.Z. Cephei, and Y. Aurigae, were measured and reduced.

The consolidated seismological work is administered from the central station at Ottawa, with auxiliary stations at Halifax, N.S., Seven Falls and Shawinigan Falls, P.Q., Toronto, Ont., Saskatoon, Sask., and Victoria, B.C. Seismic registrations were reported regularly through the medium of a monthly bulletin issued to the principal seismic stations of the world. Reports on the results obtained at the two Quebec stations were prepared regularly each month and forwarded to the officers of the co-operating agency. Progress was made in the research on the Timiskaming earthquake of November 1, 1935. The study of the world records serves to establish the epicentre co-ordinates tentatively assumed after the earlier work, but the focal depth is found to be much less than previously supposed, being probably of the order of 15 kilometers. Further study is being made of the records. Contact has been maintained with progress in seismic surveying, in which connection the seismologist visited prospecting parties in southern oil areas and prepared reports on modern methods of observation and procedure.

Magnetic field work during the year comprised observations at sixteen stations of the three magnetic elements, declination, inclination, and horizontal force. Thirteen of these are repeat stations, results from which will furnish important secular change data, and three are new. The work was confined to the southeastern part of Canada, between latitudes $44^{\circ} 38'$ north and $50^{\circ} 06'$ north, and longitudes $59^{\circ} 58'$ west and $97^{\circ} 07'$ west. In addition to the regular field work the usual instrumental comparisons were made at the end of the season, utilizing for the first time two non-magnetic huts which were constructed at a site about 10 miles south of Ottawa. The instruments being used by the British Canadian Expedition, under the leadership of Mr. T. H. Manning, were standardized, and instructions in methods of observing were given to members of the party. The work of compiling the observations for inclusion in a publication covering the work between 1927 and 1936 was completed. At the permanent observatories at Agincourt and Meanook the regular work was continued without interruption. The observatory at Agincourt is equipped with three sets of photographic recording variometers, the elements recorded on each being declination, horizontal force, and vertical force. At Meanook the equipment consists of two sets of photographic recording variometers, each of which records declination, horizontal force, and vertical force, and one additional set for recording the three elements, of which only the horizontal force unit is in operation. In addition to the variometers each observatory is equipped with precise instruments for determining absolute values of declination, inclination, and horizontal force, which are necessary for reducing the photographic records.

The gravity work of 1936 was undertaken mainly for the purpose of determining whether the Timiskaming earthquake of November 1, 1935, had been accompanied by a measurable change in gravity. Redeterminations of gravity were made at the three existing stations nearest to the epicentre, namely, Mattawa, New Liskeard, and Sudbury, at distances of 35, 65, and 95 miles,

respectively. Observations were also made at a second group of more distant stations in an area presumably beyond the influence of the earthquake, at Kingston, Ste. Anne de Bellevue, and Montreal, at distances of 215, 265, and 280 miles. A new gravity station was established at Timiskaming. A high order of accuracy was obtained in the observations and it is concluded from the results that no appreciable change in gravity accompanied the earthquake.

PUBLICATIONS

Five numbers of the regular series of publications of the Dominion Observatory were issued, as follows: vol. XI, No. 3, Gravity and Isostasy in Canada; vol. XII, Nos. 8, 9, 10, and 11, Bibliography of Seismology (issued quarterly). The usual reports and pamphlets, in mimeographed form, were issued, viz., Seismological Bulletin (monthly); Wireless Time Signals (monthly); Saturday Evening Program (quarterly). In addition, two papers were published in scientific journals: Gravimetric Survey of the Malagash Salt Deposit, Nova Scotia (Technical Publication No. 737 of the American Institute of Mining Engineers); and Timiskaming Earthquake of November 1, 1935 (Journal of the Royal Astronomical Society of Canada).

DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA, B.C.

Apart from the usual two hours that are reserved each Saturday night throughout the year for the use of visitors, almost the entire time of the telescope at night was devoted to photographing stellar spectra. The observing weather was better than the average, conditions being favourable on 212 nights. During the 1,433 hours devoted to observing 1,319 plates were secured. The eighteen-year average shows 203 nights with 1,260 hours observing and 1,348 plates.

Some alterations and additions were made in equipment. The 26 large wheels supporting the 135-ton dome became grooved and the flanges were ground off to enable the dome to turn freely. The aluminium coating on the secondary mirror was removed, as it had become badly discoloured. A silver coating has, for the present, been given, though it is hoped in the near future to return to the aluminium, but with a chromium base. For the benefit of visitors to the Observatory, of whom there were approximately 26,000 during the year, twenty transparencies of celestial objects, each 11 inches by 17 inches in size with appropriate captions, were installed on the main floor of the dome building. They are inset in the walls and illuminated from behind.

A step-slit consisting of 10 steps with a ratio of width of adjacent steps of approximately 1.4 was secured and compared with the rotating sector as a plate calibrating device. Although in the region investigated, 4000A to 6500A, the two methods are practically equivalent, it was felt that if there were more divisions to the sector higher accuracy would result from its use. Accordingly such a sector was designed and built. A stellar photometer using a caesium photoelectric cell in conjunction with a valve amplifier was constructed for use with the telescope, and preliminary tests show its suitability for the study of the light variations in stars. A 4-inch plane grating with 15,000 lines to the inch was ruled for the observatory by Professor R. W. Wood on an aluminium film with a substratum of chromium. The grating, which was ruled to throw as much light as possible in one first order spectrum, is reasonably fast and was designed for use with the stellar spectrograph in the visible region. At hydrogen alpha region the dispersion is 2.6 times the highest previously available. An adaptation of the conventional measuring micrometer to a projection method has been made. An enlarged view of the spectrum and micrometer head is pro-

jected upon a viewing screen upon which a reticle is ruled. The eye strain involved in the measurement of plates is much reduced through the use of this new measuring engine.

Further work on the reduction tables for obtaining radial velocities was carried out. Tables have now been computed for dispersions formerly used here, so that remeasurements of old plates will give results consistent with determinations by the present equipment. A number of spectra of standard velocity stars of spectra F0 to K5 have been secured with high dispersion and are being studied in connection with a proposed wave-length table for radial velocity measures in the region λ 3930-4494.

The orbit of the A0 star Boss 2142 was determined from 47 single-prism plates, 30 of which showed both spectra. The component spectral lines are more or less blended during most of the period of 18,772 days, hence high precision is not attained in this orbit. Additional observations of the eclipsing binary star AR Aurigae were obtained and definitive elements determined which do not differ greatly from those of last year. Three other orbits of spectroscopic binaries are essentially complete, namely Boss 5620, H.D. 109510, and H.D. 214652. Progress has been made on the re-determination of several orbits with a view to detecting changes. Using 2-prism dispersion and fine-grained plates the secondary spectra in alpha and pi Andromedae were obtained for the first time. The orbital elements of the primary component are in both cases identical with those determined 30 years ago. The secondary spectrum of TX Ursae Majoris was measured and the mass ratio of the components deduced therefrom. The star H.D. 199140, upon which a vast amount of time has been spent at different observatories, was found to have a very short period and interesting results are promised from a study of line contours at the different phases. Progress was also made in the study of the relative brightnesses of components of double-line binaries, mention of which was made in the last report.

For the four novæ of 1936 the regular equipment was available and much observational material was secured. The best observed was Nova Lacertae, 75 plates of which were secured during June, July, and August. Forty-seven of these spectrograms were made during the first seven nights after discovery, when rapid changes were taking place, and a detailed study was made of the various expanding shells. The sharply defined lines of interstellar calcium were measured on 50 of these plates, giving a velocity of -11.1 km/sec. From the strength of the interstellar K line the distance of the star was determined as 2,800 light years, and at maximum light the new star was approximately 65,000 times as bright as our sun. Studies were also made of its temperatures, which changed from day to day. A joint publication on the results was prepared and is ready for the press.

A study of the relative intensities of sodium and ionized calcium lines of stellar origin was carried out. Preliminary results show that, although the absolute intensities of both sodium and calcium lines decrease as one goes to earlier spectral types, the intensity ratio Na/Ca+ actually increases to unity in some of the A and B stars. A study of the very diffuse line λ 4430 in O- and B-type spectra, which Merrill has suggested may be interstellar, seems to show a definite correlation with interstellar K. The study of the Swan Bands in R and N stars was continued. In some stellar atmospheres at least it has been found that the relative abundance of C¹³ and C¹² appears to be of the same order of magnitude as that found in terrestrial samples of carbon.

PUBLICATIONS

During the year No. 4 of vol. V, The Motions of the O and B Type Stars and the Scale of the Galaxy, and the following numbers of vol. VI, namely, No. 12, The Re-examination of 64 Orbits; No. 13, The Spectroscopic Orbit of Boss 3102; No. 14, Periods and Light Curves of the Variable Stars in the

Globular Cluster Messier 2; No. 15, The Spectroscopic Orbit of Boss 4745; and No. 16, The Orbit of the Spectroscopic Binary Boss 4217; were printed and distributed. No. 17, The Victoria System of Radial Velocity Determinations, No. 18, The Orbit of the Spectroscopic Components of Boss 2142, and No. 19, The Orbit of the Eclipsing Binary AR Aurigae, were sent to press. Seventeen papers were prepared for presentation at scientific meetings and several articles of a popular nature were written for astronomical journals.

DOMINION WATER AND POWER BUREAU

The Dominion Water and Power Bureau investigates, analyses, and records the water and power resources of Canada in their dominion, provincial, international, and interprovincial aspects and promotes water conservation and power development as a basis for the effective utilization of other natural resources, for the improvement of navigation, for irrigation, and for industrial and domestic requirements. This includes stream flow investigations which are carried out from coast to coast with the co-operation of the provinces.

With the exception of the Yukon and Northwest Territories the water resources throughout Canada are vested in the provinces, and investigatory work is carried on in co-operation with the respective provincial authorities charged with the administration of these resources. The co-operative water resources and hydrometric work is undertaken through district offices located as follows: British Columbia, at 739 Hastings Street West, Vancouver; Alberta and Saskatchewan, at Public Building, Calgary; Manitoba, at 532 Dominion Public Building, Winnipeg; Ontario, the local organization has headquarters at the Ottawa office of the Bureau; Quebec, at 680 St. Catherine Street West, Montreal; the Maritime Provinces, at 193 Hollis Street, Halifax. Investigatory work in Yukon Territory is carried out through the British Columbia district office and in the Northwest Territories through the district office at Calgary.

WATER AND POWER

Lake of the Woods Regulation.—During the fiscal year the run-off throughout the Lake of the Woods watershed was below normal. The demand for water for power purposes was above average and the amount of storage held in the reservoir was considerably decreased. Lake level was at elevation 1059·18 on April 1, 1936, and rose to a peak elevation of 1060·37 on June 5. From this date until November 1, a considerable amount of storage was lost through evaporation from the surface of the lake and this, together with the increased demand for water for power purposes, resulted in lake level being drawn down to elevation 1056·49 on March 31, 1937. Lake level between 1,056 and 1,061 is regulated by the Canadian Lake of the Woods Board.

Lac Seul Regulation.—The direct regulation of Lac Seul has continued temporarily under the control of the Province of Ontario. During the fiscal year the run-off from the watershed was below normal. Conditions with respect to the power output at the Ear Falls power plant made it necessary for Ontario to restrict the outflow so as to maintain the highest possible operating head for the supply of power to the Red Lake mining area, with the result that the lake rose to a new high level. Lake level rose from elevation 1166·39 on April 1, 1936, to elevation 1170·19 on August 2, and was drawn down to elevation 1166·34 on March 31, 1937.

WATER POWER ADMINISTRATION

Applications for sites on Yellowknife, Cameron, and Beaulieu Rivers in the Yellowknife area of Great Slave Lake were received, but no commitments in respect thereto were made pending further investigation of the physical conditions at the sites. No applications for power in Yukon Territory were received.

TECHNICAL ASSISTANCE TO INDIAN AFFAIRS BRANCH

As in previous years, technical assistance was given to the Indian Affairs Branch in connection with the protection of existing Indian water rights in British Columbia and the acquiring of such new rights as have been found necessary. Applications were filed for new licences for irrigation purposes on two reserves in the Kamloops Agency and one in the Lytton Agency. Final licences for irrigation and other purposes were obtained for reserves in the Kamloops, Lytton, Williams Lake, and Nicola Agencies.

NATIONAL WATER RESOURCES INDEX-INVENTORY

The Index-inventory system for recording and collating the water resources data of the Dominion has been in use for many years and has been developed upon the basis of the natural drainage basin areas.

Under the Index-inventory the water resources data, accumulated in the district offices by direct field work and through co-operative effort with provincial and local authorities or interests, are transmitted to Head Office in Ottawa where they are compiled and co-ordinated in accordance with the principles of the Inventory. All available data with respect to developed and undeveloped power and storage reservoir sites are collated, studied, and summarized, and digests of the individual sites are prepared covering location, accessibility, head, water supply, storage capacity, regulation of flow, possible power, hydro-power installation, use of power, municipalities served, market, and sources of data. Summaries of the power and water resources of rivers and river systems as a whole are similarly analysed and compiled. These are revised from time to time as further data are received.

WATER POWER RESOURCES OF CANADA

A detailed study of all existing stream flow records and power data available from federal, provincial, and private sources indicates that the Dominion's water-power resources total 20,347,400 horse-power under conditions of ordinary minimum flow or 33,617,200 horse-power ordinarily available for 6 months of the year. These figures will no doubt be augmented from time to time as further data become available concerning possible power sites, diversions and concentrations, or storage facilities, which cannot now be computed due to lack of reliable information.

The power ordinarily available for 6 months of the year represents on a very conservative basis the combined commercial possibilities of the sites already recorded. In fact, a study of the water-power developments throughout Canada, concerning which satisfactory data are available as to stream flow and turbine installation, shows that the average turbine installation is 30 per cent greater than the ordinary 6-month flow power. If this ratio is maintained the present recorded water-power resources of the Dominion would warrant a turbine installation of about 43,700,000 horse-power. On January 1, 1937, the total turbine installation in Canada was 7,945,590 horse-power, or only a little more than 18 per cent of the recorded water-power resources.

Of the total installation, 6,982,541 horse-power, or 87.9 per cent, was installed in central electric stations for the generation of electricity for general public distribution and this installation produces more than 98 per cent of all electricity generated in Canada for sale. A large part of this power is sold en bloc for the manufacture of pulp and paper, for the mining and reduction of minerals, and for electro-chemical production.

CENSUS OF THE CENTRAL ELECTRIC STATION INDUSTRY

The last completed census of the Central Electric Station Industry, that for the calendar year 1935, shows that more than 95 per cent of the generating equipment of central stations consists of hydraulic turbines and that these turbines produce more than 98 per cent of the electricity sold in Canada.

The outstanding position of water power in the central station industry makes an annual revision of all basic central station data desirable. This is effected through the annual census conducted co-operatively by the Dominion Water and Power Bureau and the Bureau of Statistics of the Department of Trade and Commerce. These data are made available through the annual reports of the Bureau of Statistics, and, at longer intervals, a directory of Central Electric Stations, presenting a comprehensive review of the scope and character of all organizations distributing electricity for sale, is published by the Dominion Water and Power Bureau. The latest printed edition of this directory is dated May 1, 1928. The demand for up-to-date data has been met by the publication from time to time of mimeographed supplements to the 1928 edition. The current supplement carries the directory forward to July 1, 1936.

DOMINION HYDROMETRIC SERVICE

The Dominion Hydrometric Service secures and compiles stream measurement records throughout Canada. The records obtained in the field are brought together in one central agency, which undertakes the compilation and dissemination of stream flow data. The most important use of the records is in connection with water-power development and irrigation projects.

RUN-OFF CONDITIONS IN CANADA

The average run-off for the year was below normal in the Pacific drainage, in the Arctic and Western Hudson Bay drainage, and in the Atlantic drainage; and above normal in the St. Lawrence and Southern Hudson Bay drainage. Several extremes of flow have been recorded. In the Pacific drainage, typical stations showed a range in run-off for the fiscal year from 71 per cent of the long term mean in Capilano Creek in the coastal area to 109 per cent in North Thompson River near Barriere in the interior. In the northern portion of the drainage new flood stages were recorded. In the Arctic and Western Hudson Bay drainage the range was from 36 per cent in Makwa River in central northern Saskatchewan to 80 per cent in Assiniboine River at Headingly, Man. New minimum run-offs were recorded in Belly River in southern Alberta, and in Red River in southern Manitoba. In the St. Lawrence and Southern Hudson Bay drainage there was a range in run-off from 80 per cent in Missinaibi River in northern Ontario to 121 per cent in St. Maurice River in northeastern Quebec. A new minimum run-off was recorded in Grand River in southwestern Ontario. In the Atlantic drainage the range was from 83 per cent in Lepreau River in southern New Brunswick to 99 per cent in Lahave River in southwestern Nova Scotia.

POWER AND STORAGE INVESTIGATIONS

In British Columbia hydraulic studies were completed in connection with the Bruner application to the International Joint Commission for approval of a land reclamation project on the west bank of Kootenay River between the United States boundary and Kootenay Lake. Other hydraulic studies were continued in the Kootenay drainage in connection with the regulation of Kootenay Lake levels in the interest of both water power and reclamation. Engineering studies included water supply at the Dominion Experimental Station at Windermere, B.C., and hydraulic problems of the Dominion Public Works Department in connection with the development and maintenance of the permanent ship channels from New Westminster to the Gulf of Georgia. Special flow studies were continued in co-operation with the provincial authorities, the city of Vancouver, the Greater Vancouver Water District, municipal and irrigation districts, and various hydroelectric power companies.

In Alberta the operation of the Lake Minnewanka storage during the filling season from May to October was undertaken by the Bureau.

In Ontario hydraulic investigations were made on Nipigon River and studies were continued on Niagara River with respect to river slopes and discharge. A close inspection was maintained of the work being carried out by the Canadian Niagara Power Company in the construction of a submerged weir at its intake on Niagara River above the falls. Special office studies were continued of hydrometric and hydraulic conditions in the Great Lakes and Ottawa River basins in connection with the investigations of the Interdepartmental Montreal and Ship Channel Water Levels Board.

In Quebec studies included investigation of outflow of lakes for gravity supply of Three Rivers; the hydraulics of Magog River in connection with international matters, and the international aspect of a power development on upper St. John River. Checking of power station ratings was also carried on in co-operation with various power organizations.

In New Brunswick an investigation of the international reach of St. Croix River was made and a report prepared for the information of the International St. Croix River Board of Control covering conditions obtaining during the 1936 season. A further investigation was made of alleged high water levels on East Grand Lake and of storage possibilities in the upper St. Croix watershed.

In Nova Scotia investigations were made in connection with power developments on St. Croix River and Paradise Brook.

INTERNATIONAL WATERWAY MATTERS

The Lake of the Woods Convention between Canada and the United States, executed February 24, 1925, provided for the securing of a flowage easement up to elevation 1,064 sea-level datum on the United States shore of the Lake of the Woods, and accorded to Canada the privilege of representation by counsel should the costs be determined by means of the usual United States judicial procedure. In accordance with this provision Canada has been represented by counsel in the proceedings taken before the United States Federal Courts in the State of Minnesota. The earlier proceedings were reviewed in prior annual reports. During the year continuous attention has been given to the flowage easement cases that have been active. An offer for the settlement of all outstanding cases is now receiving consideration.

On February 7, 1936, a reference was agreed upon by the Governments of Canada and the United States calling upon the International Joint Commission to investigate the advisability and cost of the improvement of a waterway from Montreal to Lake Champlain to connect with Hudson River, and to report to

the two Governments with recommendation. During 1936 public hearings on this matter, at which the Bureau was represented, were held by the Commission at New York City November 19, 20, and 21; at Albany, N.Y., November 23; at Burlington, Vt., November 24; at Plattsburg, N.Y., November 25; and at Montreal, P.Q., November 26 and 27. A hearing at Boston, Mass., on April 1, 1937, and a final hearing at Washington, D.C., on April 6, 1937, have been advertised.

During the latter part of the fiscal year the Bureau provided technical assistance in the preparation of the application of the Government of Canada to the International Joint Commission for the approval of remedial works to be constructed in Richelieu River.

Following the reference to the International Joint Commission on the question of storage in Rainy Lake and in the boundary waters above, and of securing the most advantageous use of these waters for various purposes, including that of power, the Commission submitted its final report to the two Governments on May 1, 1934. The compilation and analysis of the hydraulic data upon which the future study of this problem is dependent are being continued.

The international problem of Roseau River, which has been referred by the Governments of the United States and Canada to the International Joint Commission for investigation and report, received consideration during the year. Investigations of flood protection schemes on both sides of the International Boundary were made and the results conveyed to the Commission as outlined in the annual report for the fiscal year 1933-34. Pending further action by the Commission, hydrometric records have been systematically secured on Roseau River and its tributaries.

During 1936 complaints were received that the construction of a series of eight dams across Souris River in North Dakota by the United States Department of Agriculture had resulted in the curtailment and stoppage of the flow of Souris River in Manitoba. An inspection and report of the conditions complained of were made through the office of the District Engineer and preliminary studies conducted of the effect of the dams on the available flow. As a result of the complaints and investigation the matter was brought to the attention of the United States authorities through the usual channels.

On April 11, 1936, the State Water Conservation Board of Montana filed an application with the International Joint Commission for the approval of the construction of a dam and reservoir on the East Fork of Poplar River near Scobey, Mont. On August 8, 1936, the Commission issued an Order of Approval of the proposed works subject to satisfactory settlement of the claims of the Province of Saskatchewan.

Arising from the amended application of the West Kootenay Power and Light Company, Limited, to the International Joint Commission, for permission to operate its power dam at Corra Linn to create storage in Kootenay Lake, the Bureau continued to receive regular returns of data sufficient to supervise the operation of the Corra Linn development with a view to checking backwater conditions at the International Boundary. During 1936 complaints of backwater conditions in Idaho were investigated.

On October 30, 1935, Mr. Peter Charles Bruner made application to the International Joint Commission for approval of the reclamation of 3,440 acres of Kootenay flats on the west bank of Kootenay River between the International Boundary and Kootenay Lake in the Province of British Columbia. The Commission held a hearing at Nelson, B.C., on May 15, 1936, at which were presented the results of studies made in this Bureau to ascertain the effect of the proposals on the river levels at the International Boundary. As a result of preliminary discussion and in order to reduce the effect of the proposals on the river levels the applicant amended his application to include only about

2,270 acres of the original 3,440 acres. As a result of this change, opposition to the project from United States and Canadian interests was removed, and the Commission granted an Order of Approval for the reclamation, by means of dykes, of the reduced acreage.

The International St. Croix River Board of Control continued to exercise its supervision over the discharge of St. Croix River past Grand Falls dam and the dam of Canadian Cottons, Limited, at Milltown, in accordance with the Orders of the International Joint Commission. At the request of the Commission, the Canadian member of the Board, through the district office of the Bureau, investigated and reported upon a complaint as to high-water conditions on East Grand Lake, and the United States member similarly investigated a complaint of flooding on Spednik Lake. Both of these lakes are boundary waters on the East Branch of St. Croix River. The District Engineer of the Bureau also reported upon storage possibilities throughout the St. Croix River watershed.

The International Lake Memphremagog Board's report to the two Governments upon the water levels at which Lake Memphremagog should be maintained was concurred in, and the lake is being controlled in accordance with the recommendations contained therein. The Bureau maintains a gauge at the Canadian end of the lake.

The International Massena Board of Control continued to exercise its supervision over the conditions obtaining with respect to the submerged weir in the South Sault channel of St. Lawrence River and the regulation of flow through the Massena Canal in accordance with the Order of the International Joint Commission. The Board is in receipt of daily returns from several pertinent gauges in the St. Lawrence as well as a daily report of the amount of water being diverted at Massena. During the open water season of 1936 the maximum mean daily diversion reported was 27,468 second feet, the minimum 19,257 second feet. The mean daily diversion exceeded 25,000 second feet in 113 days. The recorded monthly mean elevations at Lock No. 21 varied from 198.35 to 200.01 during the navigation season, a considerable improvement over the previous year. The monthly mean discharges from Lake Ontario also showed substantial increases over the low flow records established in 1934 and 1935.

The International Niagara Board of Control continued its control over the diversions from Niagara River for power purposes as permitted by Article 5 of the Boundary Waters Treaty. The Board is in receipt of continuous hourly records of the withdrawal of water by all power stations on both sides of the river.

The International Lake Superior Board of Control exercised its responsibilities with regard to the regulation of Lake Superior. Records of discharge through the rapids, navigation canals, and power plants on both sides of the river were systematically reported to the Board. The minimum mean monthly lake elevation of 601.94 feet at Marquette for the calendar year 1936 occurred in the month of March, and the maximum of 602.80 feet occurred in June. The elevation of the lake on January 1, 1936, was 602.280 feet and the elevation on January 1, 1937, was 601.915 feet, a net fall of 0.365 foot during the year. The mean discharge for the year was 75,468 cubic feet a second, or about 13,200 cubic feet a second less than the mean for 1935.

The Lake of the Woods Convention provided for two boards for the control of the lake level and the lake outflow—the Canadian Board and the International Board. The Canadian Lake of the Woods Control Board has continued the regulation of Lake of the Woods between elevations 1,056 and 1,061 sea-level datum, as elsewhere recorded in this report. The International Lake of the Woods Control Board is called upon to exercise certain responsibilities whenever the lake rises above elevation 1,061 or falls below elevation 1,056.

The measurement and apportionment of the stream flow in St. Mary and Milk Rivers and their tributaries in the Provinces of Alberta and Saskatchewan and in the State of Montana—provided for by the Boundary Waters Treaty of 1909 and by the Order of the International Joint Commission of October 4, 1921—were continued by an engineer of this Bureau in co-operation with an engineer of the United States Geological Survey. The Fifteenth Annual Joint Survey of the snow conditions on the headwaters of St. Mary River, in connection with the apportionment procedure, was completed on May 6.

The natural flow of 415,000 acre-feet of St. Mary River at the boundary during the irrigation season was only two-thirds of the average for the 35 years of record. The river rose steadily from April 1 to its maximum of 4,100 second-feet on June 2, then receded gradually to the minimum of 153 second-feet on October 31. The maximum storage reached in Sherburne reservoir was 58,100 acre-feet on June 16. On October 31, 1936, the reservoir was empty. The Canadian share of the natural flow of St. Mary River after July was barely sufficient to meet the requirements on the Lethbridge irrigation section.

The estimated natural flow of 50,000 acre-feet of Milk River at the International Boundary during the irrigation season was about 50 per cent of the average for the years of record, and the total seasonal run-off from its tributaries in Saskatchewan was 48 per cent of the average. The joint report covering the year's operations has been prepared and submitted to the Commission for review upon the occasion of its regular semi-annual meeting in April.

Columbia River, with its principal tributary the Kootenay, crosses the International Boundary three times, consequently accurate records of flow and stage are of the greatest importance in the adjustment of any matters arising between Canada and the United States with respect to these waters. For this reason an international gauging station is being built and is nearing completion on Columbia River at Birchbank, some 9 miles north of Trail, British Columbia.

PUBLICATIONS

During the year the following Water Resources Papers were published, dealing with the surface water supply of Canada in the provinces named: Nos. 68 and 71, Alberta, Saskatchewan, Manitoba, and western Ontario, for the climatic years October 1, 1929, to September 30, 1933; No. 70, Ontario and Quebec, from October 1, 1929, to September 30, 1931; No. 72, British Columbia, from October 1, 1930, to September 30, 1932; No. 73, New Brunswick, Nova Scotia, and Prince Edward Island, from October, 1, 1930, to September 30, 1932. A Supplement to the Directory of Central Electric Stations in Canada was issued under date July 1, 1936, as well as the regular annual bulletins, Hydro-Electric Progress in Canada during 1936, and the Water Power Resources of Canada, 1937.

ENGINEERING AND CONSTRUCTION SERVICE

The Engineering and Construction Service acts as a general engineering service unit to the various branches of the Department. The work includes the preparation of estimates, plans, and designs covering all construction activities in addition to the undertaking of actual engineering and architectural work relative to both maintenance and construction. The Service undertakes engineering and construction work in the National Parks and Historic Sites and in connection with the various Indian reserves under the Indian Affairs Branch.

The portion of the regular Parks appropriation allotted to this Service was expended mainly on the maintenance and operation of electric lighting, telephone, water supply, and sewerage systems, as well as streets and roads.

The architectural work performed included the preparation of plans, specifications, and estimates for buildings and landscaping work to be undertaken by the Department, together with the examination and approval or revision of plans of buildings proposed to be erected in the National Parks by private individuals. Marking and repair work was carried out at various historic sites.

Funds were also provided under the Special Supplementary Estimates, 1936-37, for the completion of projects begun under the Public Works Construction Acts, for new projects, for providing employment for needy permanent park residents during the season when regular work was curtailed, and for closing out the camp for single homeless men in Prince Albert National Park.

Details of the works follow:

COMPLETION OF PROJECTS INITIATED UNDER PUBLIC WORKS CONSTRUCTION ACT

BUILDINGS

Administration and Post Office building, Eastern Gateway registration building and staff quarters, extension to Cave and Basin bath-house, Banff National Park; wardens' cabin and storehouse, Glacier National Park, Superintendent's residence and garage, Gateway registration building, and continuation of work on the Miette Hot Springs bath-house and swimming pool, Jasper National Park; staff quarters, Riding Mountain National Park; Community buildings at the townsite and Cameron Lake camp-ground and an extension to the Administration building, Waterton Lakes National Park; buildings to house road and camp equipment near Field, Yoho National Park; showcases and other equipment for the museums at Fort Anne, Nova Scotia, and at Fort Chambly, Quebec.

LANDING FIELDS

Continuation of grading and improvement of landing field at Banff, Banff National Park.

MUNICIPAL SERVICES

Construction of septic tank and levelling of disposal area for the sewerage system at Lake Louise townsite, Banff National Park; sewer extension on Hazel Avenue, Jasper, Jasper National Park; parking area and sewerage disposal system at Radium Hot Springs, Kootenay National Park; completion of basic portion of water supply system including mains, pumping equipment, hydrants, and house connections; extension of electric power-line to golf course and installation of house connections at Wasagaming, Riding Mountain National Park; completion of installation of electrical distributing system at the townsite, Waterton Lakes National Park.

RECREATIONAL AREAS

Sulphur water-line from Middle Spring to Cave and Basin bath-house and ski jump on Mount Norquay for the Banff winter carnival, Banff National Park; water supply for second nine holes of golf course, Riding Mountain National Park; water supply for second nine holes of golf course, including construction of a dam and reservoir, Waterton Lakes National Park.

TOWNSITE DEVELOPMENT

Completion of parking area and improving of approach road to same at Radium Hot Springs, Kootenay National Park.

PROJECTS CARRIED ON UNDER SPECIAL SUPPLEMENTARY ESTIMATES, 1936-37

BUILDINGS

Additions and improvements to central garage, Banff, Chief Engineer's residence at Cascade power plant, and Superintendent's residence, Banff National Park; construction of show cases for museum and improvement of grounds at Fort Anne National Historic Park, Nova Scotia, and at Fort Beauséjour National Historic Park, New Brunswick; construction of fire hall at Jasper and toilet buildings at Cottonwood Creek campsite, Jasper National Park; installation of showers at bath-house at Radium Hot Springs, Kootenay National Park; construction of a comfort station, Point Pelee National Park; improvements to Administration buildings, completion of permanent maintenance camp buildings at Waskesiu, addition to Community Hall, and three district warehouses for forest fire-fighting equipment, Prince Albert National Park; gateway building at north entrance and a barn at the buffalo enclosure, Riding Mountain National Park; an addition to the bath-house, Waterton Lakes National Park; new buildings to store road and camp equipment, a caretaker's lodge at the Kicking Horse camp grounds, and general workshop, Yoho National Park; museum building at Fort Chambly; installation of lighting plant and museum fittings in the museum at Louisbourg fortress, and further development work and excavation of ruins together with improvements to grounds surrounding the museum; further restoration and repair work to the old military structures at Fort Lennox, Ile-aux-Noix, P.Q.

MUNICIPAL SERVICES

Extension of sewerage system, Banff townsite, Banff National Park; extension of 4-inch water mains, Jasper townsite, Jasper National Park; construction of storm sewer and drainage at motor camp-grounds, beach improvements, construction of sidewalks and gutters, at Waskesiu, Prince Albert National Park; extension and improvements to sewer system and construction of an incinerator at Wasagaming, Riding Mountain National Park; improvement and extension of water supply system at Waterton Park, Waterton Lakes National Park.

RECREATIONAL AREAS

Development of small pool including new wading pool for children and construction of new parking area at the Cave and Basin bath-house at Banff, Banff National Park; extension of water supply system to Cottowood Creek auto campsite, construction of road, clearing beach, and general improvement of grounds, Patricia Lake auto campsite, Jasper National Park; improvement to camp-grounds, building retaining wall, filling and grading grounds, Kootenay National Park; improvement and maintenance of first nine holes and levelling and seeding of second nine holes, golf course at Waskesiu, Prince Albert National Park; construction of three new greens and extension of one fairway, golf course, Riding Mountain National Park; improvement of tees and fairways and completing reservoir, Waterton Lakes Park golf course.

ROADS

BANFF-JASPER HIGHWAY

Banff Park End.—Maintenance of completed section—37 miles. New construction—8.39 miles clearing, 7.84 miles grubbing, 8.34 miles grading, 6.07 miles gravel surfacing, 62 culverts, completion of location surveys to north boundary, Banff Park.

Jasper Park End.—Maintenance of completed section—55 miles. New construction—2.12 miles clearing, 3.37 miles grubbing, 7.18 miles grading, 3.92 miles tote road, 6.34 miles gravel surfacing, 80 culverts.

GENERAL ROAD WORK

Construction of approach driveway to Administration building, Banff, and improving, widening, and maintaining Trans-Canada highway (57 miles) including revision near Anthracite, Banff National Park; improving and widening main motor roads, Jasper National Park, Banff-Windermere road, Kootenay National Park, and motor road up Mount Revelstoke, Mount Revelstoke National Park; construction of 0.3 mile of connecting highway south toward Mayview from the Rabbit-Meridian road, construction of 7.46 miles of highway from Waskesiu to Heart Lakes Portage, including surfacing with gravel of 5 miles, and improving, widening, and maintaining main motor roads, Prince Albert National Park; improving and widening motor roads, Waterton Lakes National Park, and Yoho Valley and Emerald Lake roads, and Yoho Park section of the Trans-Canada Highway.

GOLDEN-REVELSTOKE HIGHWAY

Construction and essential maintenance work were continued in both the eastern and western sections of the Golden-Revelstoke Highway in the 1936 season and satisfactory progress was made. A summary of the work is given herewith.

East Leg-Donald to Columbia River Crossing.—Maintenance of completed section—77 miles. New construction—1.3 miles grading, 9 miles surfacing, 1 culvert.

Erection of steel bridge over Columbia River at Boat Encampment—77 miles north of Donald, B.C. This bridge crosses the Columbia in one clear span of 270 feet. Concrete abutments which are on solid rock foundations on each side of the river were constructed by the Engineering and Construction Service. The Service transported all steel, totalling 188 tons, to the site from railhead at Donald. False work material was also supplied at the site. The supplying of the bridge steel, and its erection on the abutments were undertaken by contract. The bridge has a clear width for traffic of 20 feet.

West Leg-Revelstoke to Columbia River Bridge.—Maintenance of completed section—49 miles, including clearing of 19,300 cubic yards of mud slides. New construction—24.5 miles clearing, 15.7 miles brushing, 13.2 miles grubbing, 11.2 miles ditching, 28.2 miles grading, 13.8 miles regrading, 24.8 miles gravel surfacing, 17.7 miles tote road, 141 new culverts, and 25 existing culverts lengthened, 1 bridge re-constructed and 6 structurally improved, location surveys between Goldstream and Columbia River bridge.

TOURIST ROUTE IMPROVEMENT

In 1936, an agreement was completed between the Province of British Columbia and the Dominion, as represented by the Department of Mines and Resources, providing for the improvement and permanent surfacing of the main tourist route from the International Boundary at Kingsgate to the southerly entrance of Kootenay National Park. Under this agreement the Dominion contributed to such improvement and paving work as undertaken by the Province and approved by the Dominion to the extent of 50 per cent of the cost of such work but not exceeding \$500,000 over a 3-year period. Periodic inspections were made by engineers of this Service to see that the work undertaken was in accordance with plans and specifications, so that certificates covering the payment of the Dominion contribution could be issued. During the 1936 season about 21 miles of highway was improved and brought up to standard section, which involved the moving of approximately 193,000 cubic yards of material for grading operations. In addition, 17 miles of asphaltic pavement was laid.

Road Construction—Fiscal Year 1936-37

Location	Construct- ed to Grade 1936-37	Previously Construct- ed	To Complete
<i>Banff-Jasper Highway:</i>			
Banff Park.....	8.27	28.93	42.8
Jasper Park.....	7.76	48.04	4.9
<i>Heart Lakes Portage Road:</i>			
Prince Albert Park.....	7.46		
<i>Golden-Revelstoke Highway:</i>			
Donald-Columbia River crossing.....	1.3	75.2	
Columbia River crossing—Revelstoke.....	28.2	21.5	50.3
Donald-Southerly.....			5.5

MAINTENANCE AND DEVELOPMENT WORK

Funds were also expended on improvements to townsites, wharfs, beach protection works, and the improvement and extension of trails and forest telephone lines.

TOWNSITE DEVELOPMENT

Extension of existing sidewalks and landscaping of Administration building grounds, Banff National Park; landscaping around Government buildings at Wasquesiu, Prince Albert National Park; extension of streets and walks in Wasagaming townsite, Riding Mountain National Park; widening, improving, and gravelling streets in Waterton townsite, Waterton Lakes National Park.

WHARVES AND BEACH PROTECTION WORKS

Improving wharf, laying out walks along beach, and beach improvement at Wasquesiu, Prince Albert National Park; repairs to beach promenade and walk along north shore of Clear Lake, Riding Mountain National Park.

FOREST AND GAME CONSERVATION WORKS

Forest telephone lines were extended and improved in the following parks: in Banff National Park, 17 miles along Banff-Jasper road; in Jasper National Park, along Banff-Jasper road; in Prince Albert National Park, Rabbit-Meridian and Rabbit Cabin lines; in Waterton Lakes National Park, new line to Royal Canadian Mounted Police Barracks at Waterton Park; in Riding Mountain and Yoho National Parks, general improvement. Trail construction and improvement: Banff National Park, Bow and Cascade trails; Jasper National Park, Portal and Tonquin Valley trails, and trail bridges constructed at Maligne Canyon and South Indian River; Riding Mountain National Park, Ochre River trail, 7 miles; Waterton Lakes National Park, Bertha Lake trail constructed 2½ miles and Hell-roaring Creek trail improved; Yoho National Park, general trail improvement.

UNEMPLOYMENT RELIEF

Operations for the relief of unemployment were continued during the fiscal year 1936-37 as follows:

(1) *Single Homeless Men.*—No relief camps for single homeless men were operated in National Parks during the fiscal year 1936-37 except for a short time in the spring during which the camps at Prince Albert National Park, which had been opened to take care of drafts from relief camps at Dundurn, Saskatchewan, operated by the Department of National Defence, were gradually closed. A total of 407 individuals were afforded relief in the Prince Albert Park camps, involving 15,133 man-days relief during April and May, 1936.

(2) *Permanent Park Residents*.—Qualified Park residents with domestic responsibilities, who were in urgent need, were provided with work on a quota basis during the winter of 1935-36, in Banff, Jasper, Waterton Lakes, and Yoho Parks, and relief work was continued during April, May, and part of June, until the summer work opening up could absorb these men. The number of individuals given employment during the winter and spring was 225, a total of 4,963 man-days of work having been provided. Dependants of the individuals so employed numbered 530, making a total of 755 permanent park residents assisted during the period. Single permanent residents in need were given an opportunity of joining single homeless relief camps in the vicinity of their domiciles.

In December 1936, it was found necessary again to provide relief for permanent park residents in Banff and Jasper Parks, on a quota basis. Provision was also made for single men in these parks who were given work on a special quota basis. The number of individuals employed during the period December 1936, to March 1937, was 207, a total of 7,168 man-days work being provided. Dependants of the individuals so employed numbered 329, making the total number assisted 536.

Employment was furnished on the following projects:

PERMANENT PARK RESIDENTS

Banff National Park

Stoney Squaw road—construction.
 Mosquito areas—clearing and brushing.
 Trans-Canada Highway—clearing and brushing right of way and construction of revision.
 Golf course—constructing greens and bunkers.
 Parks' roads, general—widening and improvement.
 Administration building grounds—hauling manure and rock, getting out logs for fencing, flagstones for walks and rockeries.
 Animal paddocks—construction of fences.
 River protection works—riprapping.
 General—operating rock crusher; constructing paths, shelters, and rustic seats; dismantling old Upper Cascade bridge at Anthracite; hauling firewood; thinning lodgepole pine on Sulphur Mountain; clearing and brushing Sundance Canyon trail; making concrete guard posts; demolition of three old buildings at Isolation Quarters; snow removal; contour survey of animal paddock.

Jasper National Park

Pyramid Lake road—improvement and widening.
 Jasper townsite—improvement of streets and boulevards.
 Cottonwood Creek camp-grounds—clearing.
 Forest trails—renewing bridge over Miette River on Whistler Mountain trail.
 General—cutting wood for camps; making posts for guard rails; stripping and preparing gravel pit at Cabin Creek for gravel supply.

Waterton Lakes National Park

Akamina road—widening and building rock retaining-wall.

Yoho National Park

Emerald Lake road—widening; grade and curve reduction.
 General—snow removal from townsite streets and sidewalks and ploughing main highways of snow.

SINGLE, HOMELESS MEN

Prince Albert National Park (April and May 1936)

Camp establishment—completing 100-man camp, including bunkhouses, laundry, cookhouse, and other related works.

Permanent camp buildings—completing garage at headquarters, oil warehouse, implement shed, and refrigerator.

Prince Albert Park Highway—spring road maintenance including cleaning out culverts, repairing washouts, grading, and gravelling.

General—ditching; logging; cutting stovewood; storm sewer extension (Waskesiu); completing survey and clearing right of way to Heart Lakes portage from Waskesiu; construction of bridges at Spruce River and Shoal Creek; hauling and storing building stone; maintenance and construction of streets in Waskesiu.

EXPENDITURE SINCE 1930

Annual expenditures since the year 1930 on account of public works carried out in the National Parks (including Historic Sites and the Golden-Revelstoke Highway) to furnish employment and to stimulate economic recovery were as shown in the following table:

Fiscal Year	Relief Acts	P.W.C.A. 1934	Supplement- ary P.W.C.A. 1935	Special Supplement- ary Estimates 1936-37	Total
	\$	\$	\$	\$	\$
1930-31.....	36,996 81				36,996 81
1931-32.....	866,128 82				866,128 82
1932-33.....	656,185 84				656,185 84
1933-34.....	1,115,367 82				1,115,367 82
1934-35.....	515,910 69	894,592 51			1,410,503 20
1935-36.....	168,145 45	1,037,007 58	1,013,881 53		2,219,034 56
1936-37.....				1,536,630 54	1,536,630 54
Totals.....	3,358,735 43	1,931,600 09	1,013,881 53	1,536,630 54	7,840,847 59

HISTORIC SITES AND MONUMENTS

Samuel de Champlain Monument, Nepean Point, Ottawa, Ont.—A tablet affixed to the west side of monument.

Thomas McCrae's House, near Chatham, Ont.—A cairn with tablet erected.

Jean Pierre Roma, near Georgetown, P.E.I.—A cut stone monument with tablet erected.

Chaudière Portage, Hull, P.Q.—Cairn with tablet erected in Eddy Park.

Roseau Route, Letellier, Man.—Cairn with tablet erected.

Fortress of Louisbourg, near Louisburg, N.S.—Excavation of rooms in the governor's apartments in the citadel building, and of the moat surrounding this structure, was continued. As excavation progressed, restoration of the exposed walls was carried on to a height of 3 feet above ground level. The walls of the small guardhouse, uncovered the year before, were restored. The walls of the convent building were excavated. Restoration work was also carried out on the outer wall of the moat. Additional surfacing was placed on the main entrance road. The surface of all roads was reshaped with a grader. An electric

lighting plant was installed at the new museum and caretaker's quarters. The grounds around the new museum and in the vicinity were graded, terraced, and seeded, concrete walks and gun-bases constructed, and some interior painting done.

Fort Lennox, Ile-aux-Noix, P.Q.—Repair work was carried out on the building located at the rear of the men's barracks, consisting of seven kitchens or storehouses, three large cook-houses, and one bakery. The interior walls and vaulted ceilings were pointed, entrance steps constructed, and new doors and windows were fitted. The roof of the guard-house building was repainted. General repairs were made to the interior of the officers' quarters building; and the south bridge and east dock. Repairs were made to floor boards and thresholds in the men's barracks, powder magazine and commissary buildings. Approximately 150 feet of embankment in the vicinity of the west dock was rebuilt to repair damage done by a washout in the spring of 1936.

Fort Beauséjour National Park.—The main gateway was widened, and two boulder gate-posts erected. The entrance road was gravelled. Two concrete gun-bases were constructed in front of the museum, and one large cannon was transferred from Dorchester Penitentiary. The grounds around the museum were graded, and a concrete walk constructed at the front entrance. Several large signs were placed on the Provincial Highway directing tourists to the Fort.

WORK ON INDIAN RESERVES

Work carried out for the Indian Affairs Branch by the Engineering and Construction Service in co-operation with the Dominion Water and Power Bureau comprised the following:

ADMINISTRATION

New office buildings were erected at the following agencies: Caughnawaga, P.Q.; Saugeen, Ont.; Fisher River and The Pas, Man.; Carlton, Sask.; Athabaska, Edmonton, Peigan, and Saddle Lake, Alta.; and Lytton, B.C. New residences for agents and clerks were erected at the following agencies: Norway House, Man.; Crooked Lake, Duck Lake, and Pelly, Sask.; and Blackfoot, Lesser Slave Lake, and Peigan, Alta. Farm buildings were constructed at Fort Simpson Agency, N.W.T.: Onion Lake Agency, Sask.; and Edmonton Agency, Alta. Lighting plants were installed at Pointe Bleue Agency, P.Q.; Fisher River Agency, Man.; and Carlton Agency, Sask.; and a power transmission line was erected from Calgary to the Edmonton Agency. In addition to the above, improvements, alterations, and repairs were effected at practically all of the agencies.

EDUCATION

New day schools were erected at Christian Island and Fort Frances, Ont.; and Kitsalas reserve, B.C. New work in connection with residential schools included laundry buildings at the Cariboo school in British Columbia; laundry buildings and principal's residence at the Ahousaht school in British Columbia; principal's residence at the Shingwauk school at Sault Ste. Marie, Ont.; building to house electric lighting equipment at Onion Lake school, Sask.; and a drilled well at the St. Phillips Indian school. Repairs and improvements were made at 18 day schools and at 42 residential schools.

HEALTH

The modern fireproof hospital was completed at Qu'Appelle, Sask.; a cold storage room was added to the Lady Willingdon hospital at Ohsweken, Ont., and alterations were made to the Nurses' residence at the Qu'Appelle Indian hospital, Fort Qu'Appelle, Sask.

ROADS

Construction, repair, and improvement operations were carried out in the following Indian reserves: Whycocomagh, Millbrook, Malagawatch, Sydney, Bear River, Chapel Island, Truro, and Eskasoni, N.S.; Eel River and Tobique, N.B.; Bersimis, Caughnawaga, Maniwaki, Pierreville, St. Regis, Restigouche, Lorette, and Oujatchouan, P.Q.; New Credit, Morabian, Rice Lake, Mud Lake, Fort William, Saugeen, Tyendingaga, Manitoulin Island, Thessalon, Alnwick, Shawanaga, Kettle and Stony Point, Sucker Creek, Port Arthur, Walpole Island, Sarnia, Oneida, and Golden Lake, Ont.; Fort Alexander, Brokenhead, and Dog Creek, Man.; Peigan, Alta.; Cheam, Glen Vowell, Lytton, Hartley Bay, Cowichan No. 1, and roads in West Coast Agency, B.C.

BRIDGES

New bridges were constructed in the Millbrook Indian reserve, N.S., over Pocknock Creek in the Maniwaki reserve, P.Q., and over Turkey Creek in the Oneida reserve, Ont. Repairs to bridges were made in various reserves in Nova Scotia, Quebec, Ontario, Manitoba, Saskatchewan, and British Columbia.

DRAINAGE AND DYKING

Drainage systems were constructed or repaired in the following reserves: Eel River, N.B.; Oka, Lorette, Abenakis, and Caughnawaga, P.Q.; and Sarnia, Tendinaga, Kettle and Stony Point, Ont. Dyking for the protection of reserve lands was constructed on the Musqueam reserve No. 2 and Cowichan reserve, B.C.

IRRIGATION AND WATER SUPPLY

Irrigation systems were constructed and improved, or surveys in this connection were made in the following reserves in British Columbia: Cayoosh Creek No. 1, Lytton, Dog Creek Nos. 1 and 2, Nicola, Deadman Creek, Tobacco Plains, Alexis Creek, Canim Lake, Cooks Ferry, Lower Nicola Nos. 2 and 11, Fountain No. 10, Niskonlith No. 3, Shuswap, and Columbia Lake. A water supply system was constructed for the Kitimat Indian reserve No. 2 in British Columbia. The systems serving the Tahltan village and the Squamish Indian reserve No. 3 in British Columbia were repaired and the system for the Skidegate reserve was completed. Artesian wells were drilled at Caughnawaga, P.Q.; Kahkewistahaw Indian reserve, Sask.; and Stoney Indian reserve, Alta.

BREAKWATERS

Work on the extension of the breakwater at the McIntyre Bay Indian reserve, Port Arthur Indian Agency, Ont., was continued.

GEODETIC SERVICE OF CANADA

The Geodetic Service of Canada provides a national system of precise levels and triangulation surveys of the highest precision as a basis for all other surveys. The Geodetic Service also determines the latitude and longitude of triangulation stations across Canada, which are co-ordinated with similar stations in the United States and Mexico, and provides scientific data regarding horizontal and vertical movements of the earth's crust.

Geodetic control data for surveying and engineering are supplied as required by federal and provincial departments and by the engineering and surveying public. These control data are made available by means of permanent marks, set in the solid rock, or in concrete piers suitably constructed and designed for the purpose. Publications containing the final geodetic values and full descriptions of these marks are issued at intervals.

The geodetic longitude and latitude of triangulation station marks and the precise elevation above sea-level of benchmarks are determined by geodetic triangulation and precise levels. The marks of the former are inscribed "Triangulation Station, Geodetic Service of Canada", and of the latter, "Bench Mark, Geodetic Service of Canada". Important data are also furnished for the study of isostasy and for the size and shape of the earth.

The various operations required to carry out the functions of the Geodetic Service are organized in the following divisions: geodetic triangulation, precise levels, geodetic astronomy and isostasy, geodetic research, mathematical triangulation adjustment, mathematical levelling adjustment. The Geodetic Service of Canada contributes to the publications of the International Association of Geodesy of the International Geodetic and Geophysical Union, the sixth triennial conference of which was held at Edinburgh in September 1936.

TRIANGULATION

Field work was carried on in three areas in 1936. Primary triangulation was continued on the net through central British Columbia, a local secondary net was laid down and completed covering Port Arthur harbour for the control of a resurvey of the harbour line, and work was continued on the geodetic survey of Newfoundland, for which the technical officers were supplied by the Geodetic Service of Canada.

Table 1 gives a tabular statement of the triangulation operations carried out during the season of 1936:

TABLE 1

Triangulation Operations

	Miles
Completed primary triangulation; axial length.....	445
Completed secondary triangulation; axial length.....	10
Primary reconnaissance, observing not yet started; axial length...	380

Excluding the Newfoundland triangulation, 7,892 miles of primary triangulation, 1,131 miles of secondary triangulation, and 503 miles of precise traverse have been completed by the Geodetic Service to date.

TRIANGULATION IN CENTRAL BRITISH COLUMBIA

Two operations were completed in central British Columbia during the 1936 season. One operation was the completion of the remaining link of a circuit of triangulation some 2,500 miles in circumference along the coast and through the centre of the province. Work on this concluding link consisted of a

small amount of revision of reconnaissance, together with angular measurements in the triangulation net roughly following Fraser River from a point a short distance north of Ashcroft as far as Prince George, a distance of about 250 miles, thence the reoccupation of several 1928 stations west of Prince George for a distance of 100 miles. The other operation was an aerial reconnaissance for a projected net eastward from Williams Lake towards Yellowhead Pass, a distance of 150 miles.

Results Obtained.—Reconnaissance: sites of 4 primary stations revised in the Williams Lake-Quesnel area, 3 stations selected in the Prince George base net, 10 stations selected from the air in a net eastward from Williams Lake towards Yellowhead Pass; axial length of latter net 150 miles. Station preparation: 14 stations permanently marked and prepared for observing, including erection of 3 towers of average height of 27 feet. Angular measurements: 19 new primary stations occupied, 5 primary stations reoccupied that had been previously partly or wholly completed, 4 supplementary or tertiary stations located; axial length of net 350 miles; area within new triangulation lines, 5,600 square miles.

Reconnaissance in connection with the net along Fraser River consisted of revision of the previous reconnaissance, by which four more readily accessible stations were selected and the net considerably strengthened. In August an aerial reconnaissance was undertaken to select stations on a projected net eastward from Williams Lake to Yellowhead Pass, a distance of about 150 miles. This is an exceedingly rugged area with mountains over 9,000 feet in elevation, to which several lakes provide reasonable access. It is a valuable potential mining area and is partly covered by a provincial tertiary triangulation net which requires primary control. The net will also connect with an isolated secondary net of the Alberta-British Columbia boundary and will eventually form part of a connection with Alberta triangulation nets. In eleven flying hours on August 19 and 20 the area was covered and ten stations provisionally selected, subject to ground checking in 1937. By ground methods alone at least two seasons would have been required to cover the same area.

TRIANGULATION OF PORT ARTHUR HARBOUR

At the request of the Department of Public Works, a triangulation system was laid down in 1936 covering the harbour of Port Arthur, Ontario. Its primary purpose was to provide a series of permanently marked, accurately positioned points at intervals along the harbour line of from $\frac{1}{2}$ mile to 1 mile, to check and control a resurvey of the harbour line which was to be made during the winter of 1936-37. Several details of the original harbour line survey had been found considerably in error.

The triangulation executed in 1936 was an extension of a net laid down in 1935 covering the harbour of Fort William. In the 1935 work the net covering Port Arthur had been kept in mind when selecting the Fort William net: this proved advantageous, as only 2 new main stations had to be established which, with 5 main stations of the Fort William net, permitted the fixing of 14 stations along the Port Arthur water front. In addition to the work strictly pertaining to the Port Arthur net a base-line was measured along a breakwater in the Fort William net to control the lengths of the combined net, and an azimuth was observed at a Fort William station as a basis for the bearings of the lines. Angular measurements were made on daylight signals of a type especially designed to eliminate phase. As a criterion of the precision secured in the angular measurements the average misclosure of 84 triangles was only 0".75. The lengths of lines varied from slightly over 1,000 feet to a maximum of 14 miles.

TRIANGULATION OF NEWFOUNDLAND

In 1935 the Government of Canada agreed to assist in carrying out a geodetic survey of Newfoundland by furnishing the technical officers and the instrumental equipment, and by calculating and publishing the mathematical data. In that year an aerial reconnaissance was made of the whole scheme, some 700 miles in length; ground checking a portion of the air reconnaissance, and the preparation of stations ready for the angular measurements in 1936 were begun; and a base-line near one end was also selected and partly cleared.

In 1936 the work was continued and angular measurements were carried on in the section that had been prepared in 1935. Ground checking of the aerial reconnaissance was carried on in two areas—on the primary net from Bay of Islands as far north as Port Saunders, and on the secondary net eastward from Howley as far as Gander Lake. Altogether 32 stations were checked, covering a distance of 230 miles. A station preparation party completed clearing of the base-line selected in 1935 and built 3 towers in the base net. This party then proceeded to the secondary net eastward from Howley and prepared 19 stations in a distance of 100 miles, including the erection of 2 towers. The angular measurements on the primary net were commenced at Corner Brook by a double observing party (two observers working in conjunction with one another). During the season this party worked southward towards Port aux Basques and completed 19 primary stations, 5 supplementary stations, and 11 intersection points over a distance of 95 miles. Unusually bad weather conditions—fog, wind, and rain—seriously delayed the progress of this party. Tide gauge readings were continued at Port aux Basques and St. John's during the whole year except for slight interruptions due to ice conditions.

LEVELLING

ONTARIO

The precise level line along the Canadian National railway from Longlac towards Sudbury, which had been carried as far as Tionaga in the 1935 season, was completed to Sudbury. A new line to extend along the Canadian Pacific railway from Sudbury to Franz was then commenced, and at the close of the season early in November had reached a point some 142 miles northwest of Sudbury, or 4 miles southeast of Nemeegos. Both these lines pass through a country plentifully supplied with rivers and lakes, and many determinations of water-levels were made, as well as the establishment of the usual number of benchmarks. Most of the benchmarks were placed in surfaces of bedrock.

QUEBEC

Secondary levelling for general control purposes was carried out in the counties of Argenteuil, Terrebonne, Montcalm, Two Mountains, and L'Assomption, the lines selected following provincial highways. This levelling was a continuation of the program of the years 1929 and 1930, which had been suspended since that time. In the course of the season's levelling fundamental benchmarks were constructed at Ste. Agathe and Lachute, these being tied in directly with precise level benchmarks nearby.

INSPECTION OF BENCHMARKS

The work of inspecting and redescribing benchmarks of the Department of Public Works, which has been proceeding year by year since that Department's levelling records were taken over by the Geodetic Service in the spring

of 1931, was completed during the summer of 1936. The lines covered this season extended from St. John, N.B., to Moncton, Campbellton, and Levis, also around the coast-line of the Gaspé Peninsula. The absorption of the levelling of the Department of Public Works has added slightly over 3,000 benchmarks to the levelling system of the Geodetic Service. The field inspection disclosed that some 21 per cent of the number originally established had been destroyed.

Detailed Statement of Levelling Run in 1936

	Miles	Bench- marks
<i>Precise:</i>		
Tionaga to Sudbury, Ont.....	143.1	71
Sudbury to Nemetos, Ont.....	143.8	67
Fundamental benchmarks at Ste. Agathe and Lachute, P.Q.....		2
Total precise.....	286.9	140
<i>Secondary:</i>		
Terrebonne to St. Donat, P.Q.....	75.3	40
St. Donat to Lachute, P.Q.....	62.0	29
Lachute to Charlemagne, P.Q.....	66.1	44
Lachute to St. Jovite, P.Q.....	51.2	26
Total secondary.....	254.6	139
SUMMARY		
<i>Precise:</i>		
Prior to 1936.....	25,445	8,960
1936.....	287	140
Total.....	25,732	9,100
<i>Secondary:</i>		
Prior to 1936.....	11,454	3,980
1936.....	255	139
Total.....	11,709	4,119

The total mileage of levelling, distributed by provinces, at the end of the year 1936, was as follows:

	Precise	Secondary
	Miles	Miles
Nova Scotia.....	729	0
New Brunswick.....	1,096	0
Quebec.....	3,418	895
Ontario.....	6,719	1,324
Manitoba.....	2,548	368
Saskatchewan.....	4,113	5,098
Alberta.....	2,866	3,799
British Columbia.....	3,690	225
Yukon.....	458	0
Minnesota (U.S.A.).....	89	0
Vermont (U.S.A.).....	6	0
	25,732	11,709

GEODETIC ASTRONOMY AND ISOSTASY

The astronomical field work of this Division consisted in the making of Laplace observations at four triangulation stations of the British Columbia net between South Base at Salmon Arm and Beaverley near Prince George; in the determination of astronomical longitudes and latitudes at 18 geodetic triangulation stations in the Provinces of Nova Scotia, New Brunswick, and Quebec;

and in the observing of longitudes and latitudes at a number of ports of call along the route of the steamer R.M.S. *Nascopie* on her annual expedition to the islands of the Eastern Arctic.

The Laplace stations observed in the British Columbia triangulation net are South Base near Salmon Arm, Swakum north of Nicola, Spokin near 150-Mile House in the Cariboo, and Beaverley near Prince George. From South Base the astronomical azimuth of the line to the triangulation station Ida was measured, from Swakum that to Missezula, from Spokin that to Big Camp, and from Beaverley that to North Base (Prince George). These Laplace determinations are for the purpose of controlling the direction of the triangulation. The 18 geodetic triangulation stations occupied for longitude and latitude in Nova Scotia, New Brunswick, and Quebec are as follows: in Nova Scotia, Londonderry, Dean, Dalhousie East, Aspen, Advocate, Ardois, and Boyle Hill; in New Brunswick, Rogerville, Harvey, Doaktown, Gaspereau Forks, Alma, Plaster Rock, and St. Fabien; in Quebec, Dusable, St. Simeon, Gosse Cape Light House, and St. Fereol. The results of these observations combined with the geodetic values give the deflections of the vertical, and also provide materials for the continuation of the research into the shape of the geoid and its dimensions.

WORK IN THE EASTERN ARCTIC

During the season of 1936 an astronomical field party was engaged on the fixation of coast-line at several of the trading posts in Ungava Bay district. Disembarking from the *Nascopie* at Port Burwell, this party accompanied the Hudson's Bay Company's motor schooner, *Fort Garry*, on her annual trip to Fort Chimo, Payne Bay, and Diana Bay, returning to Port Burwell on August 21. Precise astronomical determinations of latitude and longitude were secured at Port Burwell, Fort Chimo, and Payne Bay. At each place the observation station was marked by a bronze tablet cemented into solid rock. At Diana Bay, an approximate position was determined on the sun.

After returning from Ungava Bay, this party went 25 miles around the coast to Lady Job Harbour, which is situated on Killinek Island, 2 miles to the west of Cape Chidley. An excellent determination of position was secured here and the point marked as usual. On September 1 the party embarked on the *Nascopie* on her second call to Port Burwell and accompanied the patrol on the northern leg of the voyage. Observations were secured at Craig Harbour, Dundas Harbour, Arctic Bay, and Clyde River. Permanent survey tablets were placed at each of these places to mark the observation stations. The results from this work will warrant corrections of considerable extent in the map of northern Canada.

BASE-LINE

One base-line located near Prince George, B.C., was measured during the summer of 1936. This base is to control the scale of the triangulation of this net. The invar base-line tapes used in measuring this base-line were standardized before and after the measuring of the base.

TRIANGULATION ADJUSTMENTS

The work of this Division was confined largely to the adjustments of the completed work in Eastern Canada. The immediate object has been to furnish to the engineering and surveying public, in published form, the adjusted results of all triangulation executed by the Geodetic Service of Canada for the area in Eastern Canada east of the Great Lakes. This has now been accomplished.

Tables have been prepared in extension of those in Publication No. 7 and are now made to embrace the extent from 42 degrees to 70 degrees north latitude.

This range is just sufficient to cover the continental extent of Canada. Useful geodetic tables, other than those required in the computation of geographic co-ordinates, have been computed either partly or entirely and are included for ready reference. The complete manuscript for this revised and enlarged edition of No. 7 is being submitted for printing, as the stock of the original publication is exhausted.

LEVELLING ADJUSTMENTS

During the year three adjustments were completed on the combined level net of Canada and the United States: first, leaving out the tidal stations Old Point Comfort, Annapolis, and Baltimore; second, including these stations; and third, leaving out the above-mentioned tidal stations, together with Atlantic City and Fort Hamilton. The object of these adjustments was to see how the new elevations of the various benchmarks compared with those of the United States-Canada adjustment of 1929 and with those of our own all-Canadian net. The results of these adjustments are now being investigated and tabulated. In addition to this, two lines—175 and 176—levelled during the summer season, were adjusted to the published elevations of existing benchmarks. Line 175, Longlac-Oba-Sudbury, begun in 1935, was completed, 278 miles being levelled in 1936. Line 176, Sudbury-Franz, was run as far as Tophet, a distance of 141 miles.

GEODETTIC RESEARCH

The chief problem that has occupied the attention of this Division has been that of finding a suitable means whereby triangulation results may be transferred from one ellipsoid to another. In this connection it may be said that a differential formula has been developed for the change in latitude. This problem has been presented as a result of a recommendation of the International Union of Geodesy and Geophysics that all countries should use the same ellipsoid of reference. At the present time there are in use throughout the world several ellipsoids. Of these, the Clarke ellipsoid of 1866 is in use in North America, whereas in Europe the Bessel ellipsoid and the Clarke ellipsoid of 1880 are in common use. The ellipsoid recommended for universal adoption is known as the International ellipsoid.

PUBLICATIONS

Publications of the Geodetic Service of Canada printed during the year are as follows: No. 57, Bench Marks in Ontario East of Toronto and North Bay; No. 58, Bench Marks in Ontario West of Toronto and North Bay; No. 61, Triangulation in Northern Quebec; No. 69, Geodetic Operations in Canada, January 1, 1933, to December 31, 1935. Reports of the International Association of Geodesy. The International Geodetic and Geophysical Union, Sixth General Conference, Edinburgh, 1936.

INTERNATIONAL BOUNDARY COMMISSION

The function of the International Boundary Commission is to perform the treaty obligation of maintaining in a state of effective demarcation the entire International Boundary between Canada and the United States and between Canada and Alaska.

The commissioners held a conference in Toronto on June 9 and 10, 1936. At this conference they signed their Tenth Annual Joint Report for submission to the two Governments for the year ended December 31, 1935, and agreed upon details of field work to be undertaken during the season of 1936.

INSPECTION

In July and August an engineer of the Canadian section of the Commission, co-operating with an engineer from the United States section, inspected the boundary range marks in Passamaquoddy Bay and cleared away any trees or brush obscuring the ranges. These engineers also determined and marked the exact position of the boundary on the international highway bridges across St. Croix River at St. Stephen, Union Mills, and Milltown, N.B.

MAINTENANCE OF THE BOUNDARY

Operations by survey parties of the Canadian section of the Commission were on the New Brunswick-Maine, the Quebec-Vermont, and the British Columbia-Washington sections of the boundary. On the New Brunswick-Maine section of the line 20 miles of boundary vista were recleared, and 27 monuments were repaired. On the Quebec-Vermont section 25 miles of boundary vista were recleared, four monuments were repaired, and the position of the boundary on the international highway bridge across Missisquoi River at East Richford, Vt., was determined and marked. In addition surveys were made from which large-scale plans can be prepared showing the position of all buildings on or near the boundary at eleven points where highways cross the boundary. On the British Columbia-Washington section through the extremely rugged area between Vedder Mountain and Skagit River, 37 miles of boundary vista were recleared and one new monument was erected and located. In addition four new monuments were erected at Blaine, Washington, following the necessary location surveys. The lights on the range marks ranging the first course of the boundary through the Strait of Georgia were maintained. Boundary monument No. 50 on the north bank of Porcupine River at Rampart House, Yukon Territory, was repaired by a patrol from the Old Crow detachment of the Royal Canadian Mounted Police.

The adjustment was completed of the surveys made during several previous field seasons on the British Columbia section of the 49th parallel, also the computation of the geographic positions of the monuments located thereby. This data will be included in a joint report upon the survey and demarcation of the 49th parallel International Boundary from the Strait of Georgia to the north-westernmost point of Lake of the Woods. Other material for a joint report upon the Cape Muzon-Mount St. Elias section of the boundary was prepared.

Two copies of their Tenth Annual Report for the Year ended December 31, 1935, as required by Article IV of the Treaty of 1925, were submitted by the commissioners to each government.

HYDROGRAPHIC AND MAP SERVICE

The Hydrographic and Map Service undertakes all hydrographic and tidal and current surveys of navigable waters; prepares, prints, and distributes charts, and tide and other tables for navigation purposes. It also conducts all legal surveys required by this and other departments, including those in the Northwest and Yukon Territories, National Parks, Ordnance Lands, and Indian reserves; maintains the central office for indexing, filing, and recording survey returns and plans; compiles and prepares from existing base maps or from published maps, electoral maps, general maps for use of various Government departments, air navigation maps, natural resources and railway maps, and general maps of Canada. The Service also distributes all departmental maps except those relating to mines and geology.

HYDROGRAPHIC SERVICE

During the year the main hydrographic operations conducted by this Service consisted of charting, the investigation of tides and tidal currents, the recording of lake and river fluctuations, the preparation of Coast Pilots and Sailing Directions, special marine investigations, and the supplying of diverse nautical information to the shipping trade. On the Atlantic, charting operations were conducted with the use of the hydrographic steamers *Acadia* and *Cartier*, and on the Pacific by the *Wm. J. Stewart* and the houseboat *Pender*. Small parties equipped with motor launches were also employed in hydrographic work on both coasts. To facilitate the investigation of currents in the lower St. Lawrence River, this Service was afforded the use of the C.G.S. *Gulnare*.

HEADQUARTERS DIVISION

This Division carried out, in addition to administrative work, the planning of new and special surveys, investigation and research relating to chart revision and hydrographic publications, preparation of Coast Pilots and Sailing Directions, and various researches in hydrographic and navigational subjects. With this was involved the collecting and disseminating of general and special marine information for the benefit of Canadian shipping and mercantile and transportation concerns.

International Exchange of Hydrographic Data.—Many new charts and hydrographic publications were received, examined, and filed for reference and library purposes, principally from the British Admiralty Hydrographic Department, United States Hydrographic Office at Washington, United States Coast and Geodetic Survey at Washington, United States Lake Survey Office at Detroit, and the International Hydrographic Bureau at Monaco. There were also received certain related publications from the Hydrographic Services of France, Germany, Japan, Italy, and other countries. On a co-operative basis the Hydrographic Service of Canada furnishes these foreign Government services with copies of all new or revised charts and new editions of Canadian publications dealing with the Dominion's coasts and waters.

Sailing Directions and Emergency Surveys.—Emergency surveys and investigations in connection with reported dangers to navigation, ice, currents, or changes in aids to navigation, were carried out from headquarters as occasion arose.

At the request of the Harbour Commissioners, and with the assistance of personnel and equipment of the C.G.S. *Bellechasse* of the St. Lawrence Ship Channel Branch, the currents in Montreal Harbour were charted during both the high-water stage from June 10 to 22 and low-water stage from September 20 to October 2. As a result of this work there are now available special charts showing the directions and velocities of the currents. These charts show in contrasting colours the various gradations of current velocities and indicate the complicated movements of the river currents as they affect a ship of ordinary draught. These new charts are a valuable supplement to the standard nautical chart of the harbour.

From November 1 to 7, sounding and ship-sweeping operations were conducted in Lake St. Louis to locate reported shoals that had caused damage to shipping. In addition, the position of some 80 buoys and other aids to navigation on the lake were checked and a report containing recommendations was submitted. Charting operations and examinations of shoal areas were conducted at various places in the upper and lower St. Lawrence and Saguenay Rivers, the details of which are contained in the report of work conducted with the launch *Boulton*.

In connection with the publication of Coast Pilots and Sailing Directions, the following were revised and compiled or issued:

Supplement to St. Lawrence River Pilot (Below Quebec) (Published); Supplement to British Columbia Pilot, vol. I (Published); Supplement to St. John River Pilot (Published); Supplement to St. Lawrence River Pilot (Montreal to Kingston) (Published); Supplement to Canadian Shores of Lake Superior (Published); Supplement to Sailing Directions for Hudson Bay Route (Published); Supplement to Gulf of St. Lawrence Pilot (Compiled).

The great improvement during the year in maritime trade was reflected in the increased demand for charts, Coast Pilots, and Sailing Directions, and also in the large number of inquiries relating to depths, water levels, routes, berthing accommodation, and harbour facilities in various ports all over Canada. A number of requests were received and dealt with in connection with sailing distances and routes between Canadian and foreign ports. Many Canadian coastal waters are still covered only by original Admiralty charts and, for the correction of these, information was supplied from time to time to the Admiralty.

HYDROGRAPHY

The *Acadia* was fitted out at Halifax and left that port on May 22 for the north shore of the gulf, where charting on the Belle Isle route and inside passage was continued. Working in conjunction with the ship was the 36-foot auxiliary cabin-launch *Henry Hudson* which was outfitted at Quebec and used throughout the season by a subsidiary shore party. Coastal triangulation was extended from Harrington to Blanc Sablon. Aerial photographs were used to advantage in delineating the tortuous, island-fringed coast-line. Sounding and extensive shoal examinations were carried on. In the same district three harbours were charted. An important phase of this season's work was the charting of an inside steamer route for the benefit of coastal traffic. This passage along the north shore from Harrington to Greenly Island is, for the greater part, sheltered from the sea by the protective barrier of islands that fringe the coast. For the further assistance of shipping in these passages, seven sets of navigation range beacons were established.

The *Henry Hudson* was wintered at Bonne Espérance on the north shore and the *Acadia* returned to Halifax on October 29 and laid up in that port for the winter.

Summary of Season's Work

Ship sounding.	1,650 linear miles
Boat sounding.	3,408 "
Coast-line surveyed exclusive of inlets and islands.	115 "
Area charted.	1,500 square miles
Shoals examined.	260

Gulf of St. Lawrence and Cabot Strait.—To improve and modernize the aids to navigation and assist shipping frequenting these waters, the Hydrographic Service has for several years pursued a vigorous program of charting this area. The C.G.S. *Cartier* was fitted out at Charlottetown from March 23 to June 6 and sailed on the latter date to examine a shoal about 22 miles east of Old Harry Head, Magdalen Islands. From June 10 to 13 a search was made to locate a shoal reported to lie 25 miles west-northwest from Cape St. George, Newfoundland. From June 15 to September 23 the previous years' coastal charting of the northern portion of Cape Breton Island was extended southward to Cape Smoky and Cheticamp Island on the east and west coasts, respectively. A detailed survey was made of Ingonish Harbour and approaches, and at the close of this season, from September 24 to 29, ship sounding was carried on off Hillsborough Bay, P.E.I. The ship was laid up at Charlottetown on September 30.

As a result of the season's work there will be published, on a scale of 1 mile to an inch, two coastal charts: "Cape Smoky to St. Paul Island" and "Cheticamp to Cape St. Lawrence"; also a harbour chart of Ingonish Harbour on a scale of 1,500 feet to an inch.

Summary of Season's Work

Ship sounding	1,347 linear miles
Boat sounding	749 "
Coast-line surveyed	86 "
Area charted	614 square miles
Shoals examined	12

Hillsborough Bay and Approaches.—From May 25 to October 17, the previous season's charting of Charlottetown Harbour was extended to include Hillsborough Bay and approaches. The bay was closely sounded, some 45 shoals were examined, and the delineation of the coast-line was compiled from aerial photographs. A gasoline explosion occurred on board the hydrographic motorboat *Discovery* and it sank in the harbour. Three of the crew were injured. This accident, however, caused but a short delay in charting operations. A hired craft was procured, and subsequently the *Discovery* was raised and reconditioned and added to the complement of auxiliaries of the *Acadia* and taken to Halifax. At the close of the season the *Cartier* was used for a few days to ship-sound an offshore area with her echo-sounding equipment.

Summary of Season's Work

Boat sounding	1,075 linear miles
Coast-line surveyed	75 "
Area charted	74 square miles

St. Lawrence River.—The C.G. motor-launch *Boulton* was fitted out at Prescott, Ont., and equipped with a new type of Admiralty echo-sounding gear, specially designed for shoal examination and large-scale work of a like nature. The *Boulton* left Prescott on June 8 and until June 23 was engaged in sounding and sweeping operations in Telegraph Narrows (Bay of Quinte) where ships had reported touching bottom. As a result of this work numerous shoal spots were located and the information obtained was placed on the charts. The party then proceeded to the head of Lake St. Louis and there examined, sounded, and swept an auxiliary channel, below Soulanges canal, that was reported to be generally ice-free in the early part of the season when the main ship channel in the vicinity is unnavigable due to heavy ice conditions. To lead through the auxiliary channel, a pair of temporary range beacons was erected on Ile Perrot. The work was completed on July 14 and during the next few days information for chart use was obtained at Sorel. Proceeding from there to Saguenay River, charting operations were carried on in the lower reaches of this river from July 22 to September 1. From that date until September 20, charting operations, in connection with pulpwood shipping developments, were carried on near Papi-nachois River (Outardes Bay) and at Baie Laval, both in the Lower St. Lawrence.

The *Boulton* returned to Prescott on September 30 and laid up there for the season.

Summary of Season's Work

Boat sounding	340 linear miles
Coast-line surveyed	30 "
Area charted	12 square miles

Pacific Coast District.—The principal scene of operations in the season of 1936 was the west coast of Queen Charlotte Islands. The C.G.S. *Wm. J. Stewart* was commissioned at Victoria and left on April 15. The following work was carried out, prior to coaling at Comox on April 22-23: locating a reported rock off the Government wharf at Lyall Harbour; investigating a low water spit off Millstream Creek in Nanaimo Harbour; surveying the property of the Stan-

dard Oil Company and wharves east of the Second Narrows, Vancouver Harbour; investigating the approaches to Buckerfields wharf, Vancouver Harbour; examination of a reported shoal off Texada Island; sweeping off the entrance to Esquimalt Harbour; examination and sweeping of two shoals in Boundary Pass.

The ship then returned to Victoria and on April 30 left with the boats of the houseboat *Pender* and proceeded to Kyuquot Sound where the houseboat had been laid up in winter quarters. The ship then towed her to Nasparti Inlet, about 20 miles northward. With one party from the ship located at Klaskish Inlet, and one party from the *Pender*, the coast triangulation was carried over the mountainous Brooks Peninsula. Between May 1 and June 26 the ship engaged in charting operations between Esperanza Inlet and Quatsino Sound, carrying on boat-sounding, coast-lining, ship station triangulation, ship-sounding, and ship-topography. On May 28 the *Wm. J. Stewart* towed the houseboat from Nasparti Inlet to Holberg Inlet, Quatsino Sound, and on June 26 again moved her to Rivers Inlet on the mainland coast. From the latter place the ship continued south for coaling and supplies, and on July 4 proceeded to the west coast of the Queen Charlotte Islands. Here four camp parties were established between Englefield Bay and Port Louis to carry on charting operations.

In accordance with instructions, on July 10 the ship proceeded south to prepare for an inspection trip of British Columbia waters by the Minister of Fisheries, which terminated on August 10 when the ship reached Victoria. Here she was obliged to undergo certain boiler repairs and returned to Queen Charlotte Islands on August 28. Charting operations were here resumed and continued until the break of the weather on September 15 when, with all parties aboard, the ship returned to Rivers Inlet and carried on charting operations in conjunction with the *Pender* party. On September 26 the *Wm. J. Stewart* with the water-tender scow *Fraser* in tow, left Rivers Inlet for her headquarters at Victoria where she arrived on September 30.

Summary of Season's Work

Ship sounding	1,239 linear miles
Boat sounding	1,918 "
Coast-line surveyed	167 "
Shoals located or examined	193 "

On Vancouver Island the hydrographic work accomplished by the houseboat *Pender* consisted of the coast-lining and sounding of Nasparti Inlet and approaches, the topography between Ououkinsh Inlet and Cape Cook, and the completion of the charting of the western portion of Holberg and Rupert Inlets of Quatsino Sound. The *Pender* was then towed by the *Wm. J. Stewart* to Rivers Inlet in the mainland coast. Here, from June 26 to September 26, the party completed the charting of the eastern and western portions of the inlet and practically all the necessary topography.

Summary of Season's Work

Boat sounding	410 linear miles
Coast-line surveyed	305 "
Topography completed	140 square miles
Shoals located or examined	16

TIDES AND CURRENTS

The work of preparing the different issues of the tide tables for a year in advance was carried out as usual. The total number printed of all editions for the year 1937 was 109,100. These are classified as follows:

Atlantic Coast Tide Tables.—Atlantic Coast, complete (10,500); Quebec and Father Point (abridged) (8,500); Charlottetown and Strait of Canso (abridged) (3,100); Halifax and Sydney, N.S. (abridged) (3,000); Saint John and Bay of Fundy (abridged) (23,000).

Pacific Coast Tide Tables.—Pacific Coast, complete (37,000); Vancouver and Sand Heads (abridged) (14,000); Prince Rupert and Northern B.C. (abridged) (10,000).

The complete editions are required for shipping interests generally, and the pocket or abridged editions meet the needs of fishermen and others of our sea-coast population. The contents of the complete edition of the Tide Tables for the Atlantic Coast are being re-arranged for the 1938 edition, placing the tables for slack water and the information on currents separately from the tide tables, instead of in the former geographical order.

The principal tidal stations kept in operation are:

Atlantic Coast.—Quebec, Father Point, P.Q.; Charlottetown, P.E.I.; Saint John, N.B.; Halifax, N.S.; and Port Churchill, Man.

Pacific Coast.—Vancouver, Caulfields, Victoria, Clayoquot, and Prince Rupert, B.C.

Seasonal Tidal Stations and Tidal Observations.—A tide gauge was installed at Tadoussac, P.Q., for the reduction of soundings of the hydrographic party working in Saguenay River and also to correlate the turn of the tidal streams in the vicinity. The gauge at Charlton Island in James Bay was again operated during the open season, its purpose being to obtain sufficient tidal records for a basis of prediction. It is proposed that this station be used as a reference port for the entire bay when the time comes to determine the relation of the tides in the whole region. The tide gauges established in 1935 at St. John's and Port aux Basques, Newfoundland, for the determination of mean sea-level, have been kept in operation and the records prepared for tabulation. The tidal data obtained, besides being used as a basis of the system of levels to be extended over the island, will afford a valuable addition to our Atlantic Coast Tide Tables in the interests of shipping.

Investigation of Currents.—The investigation of the currents in the Lower St. Lawrence, in the section between Murray Bay and Bic Island, was continued with the Department of Marine steamer *Gulnare*. Most of the localities where observations were previously obtained were visited a second time and some on a third occasion, to obtain information under different tidal conditions, and the stations were extended as far as time permitted. An interim report, in the form of a "Notice to Mariners", is being issued covering the results so far obtained.

Reductions, Reports, and Information Service.—The tidal records from both principal and secondary stations were inspected, datum lines determined, and such abstracts were made as were required for tide tables, nautical charts, or for other purposes. Tabulations of hourly ordinates of the records for harmonic analysis were carried on as time permitted.

The following reports on tidal currents, in pamphlet form, are available on request: Currents in the Entrance to the St. Lawrence; Currents in the Gulf of St. Lawrence; Currents in the St. Lawrence Estuary, Ste. Anne des Monts to Father Point; Currents in the Bay of Fundy.

These deal with the currents to be met with in the outer areas of the main steamship routes. Predictions for the turn of the tidal streams at places in St. Lawrence River, in the Strait of Canso, and other straits or passes are given in the Atlantic Coast Tide Tables. The Tide Tables for the Pacific Coast include similar information with regard to the passes and narrows there. Information on tidal matters has been furnished in response to many requests from engineers in the Government service and in private practice, as well as to other interests. In addition to the Tide Tables the following other publications are mailed on request: Tide Levels and Datum Planes in Eastern Canada; Tide Levels and Datum Planes on the Pacific Coast; Tides at the Head of the Bay of Fundy; Tides and Tidal Streams in Canadian Waters (descriptive); Temperatures and Densities, Canadian (Atlantic) Waters.

PRECISE WATER-LEVELS

The precise recording of the various fluctuations that occur in water-surface elevations was carried on continuously by self-registering automatic gauges. These operations extend over the Great Lakes and St. Lawrence waterway system from Port Arthur to within 20 miles of Quebec, from which point seaward the rise and fall of the waters are principally of a tidal nature.

Field Activities.—During 1936 continuous water-level observation stations were maintained on the Great Lakes, St. Lawrence River, and lower Ottawa River, at fifty-four locations. This was the same number as in 1935. Five hundred and seventy-two months of continuous records were registered, an increase of 3 months as compared with 1935. The regular annual and semi-annual inspections again had to be curtailed owing to the extensive field and office work made necessary by the requirements of the Water Levels Board. In addition to the permanent field activities, extensive correlation of data, precise levelling, and special investigations, were again carried out in the field for the Interdepartmental Montreal and Ship Channel Water Levels Board. The eleven self-registering gauges operated in 1934 and 1935 for the Board were again installed and maintained in 1936.

Office Activities.—Compilations totalled approximately 900,000 deductions and entailed the use of approximately 1,850,000 sets of figures. The twenty-eight regular "Water Level Bulletins" were issued; one hundred and fifty-four profiles, graphs, and curves, were prepared or extended; and a total of 26,092 sheets of data were issued during the year. As a result of the continued low water-cycle in the Great Lakes-St. Lawrence system the requests for general information and specific data exceeded normal years, and to comply with such requests approximately 1,580,400 water surface elevations were furnished. The Canadian Press Association was furnished with a concise synopsis of each monthly bulletin, and the engineering journals of Canada as a rule incorporated the monthly bulletins verbatim in their publications. Close co-operation was continued with, and extensive data supplied to, the various Government departments for scientific research, engineering and construction services, and navigation interests in general.

Hydrograph No. 207, Monthly Mean Elevations of the Great Lakes, 1860 to Date, Hydrograph No. 38-B-1, Yearly Means, With Maximum and Minimum Monthly Means of Each Year, 1860 to Date, of the Great Lakes, and six hydrographs, Yearly Mean Elevations From 1860 to Date, one for each of the Great Lakes and two for Montreal Harbour, were all extended to include the 1936 data. The Monthly Water Level Bulletins, five Annual Bulletins of 1936 water-levels, and the five Annual Hydrographs of comparative monthly mean water-levels, 1860 to 1936 inclusive, one for each of the Great Lakes and Montreal Harbour, were issued during the year. The six General Data Bulletins, one for each of the Great Lakes and two for Montreal Harbour, were revised and extended to incorporate the 1936 water-level statistics.

Extensive research was conducted to obtain the relative values of the precipitation, evaporation, and run-off factors in the local watershed of each of the Great Lakes and Ottawa River; of the full drainage area of the Great Lakes; and of the entire Great Lakes and Ottawa River drainage basin. Covering the 45 years, 1890-1934 inclusive, the average values derived show that of the precipitation in the full drainage area of the Great Lakes, 66 per cent is lost to evaporation, and 34 per cent goes to run-off. In the Ottawa River drainage area, 45 per cent is lost to evaporation, and 55 per cent goes to run-off. For the entire Great Lakes-Ottawa River drainage basin 62 per cent is lost to evaporation, and 38 per cent finally runs off. The fact that the loss to evaporation in the Great Lakes drainage area is 21 per cent greater than in the Ottawa

River drainage area, can be attributed to the large water surface areas of the Great Lakes which are exposed to evaporation during practically 100 per cent of the time.

Values of sunspot numbers, of precipitation on the Great Lakes drainage area, and of the Great Lakes and Montreal water-levels, during the last four sunspot cycles, were compiled into massed curves of four sunspot cycle weight. The massed curve of sunspots shows a minimum of seven followed by an almost straight line increase, in 4 years, to a maximum of eighty-three, then an almost straight line decrease, in 6 years, to the minimum of seven, which holds for 2 consecutive years. The massed curve of precipitation shows a maximum of 32.5 inches, coincident with the maximum of sunspots, followed by a decrease, in 2 years, to a minimum of 28.2 inches, then an increase, in 2 years, to 31.2 inches, and a decrease in 1 year, to 29.8 inches, followed by 6 years of fairly constant increase to the maximum of 32.5 inches. The water-levels are, in the main, primarily dependent upon precipitation and each massed curve shows a maximum and minimum quite constant with the high and low of the sunspot curve.

CHART CONSTRUCTION

The work of this Division is confined almost entirely to the draughting, compiling and revising, and preparation for the engravers and printers of the results of the work of the hydrographic field parties. In addition, assistance was rendered during the year to the field parties in completing their fair sheets, to the Tidal and Current Division in their reports on current work, and to the Meteorological Service in compiling weather maps.

During the year 56 charts, maps, prints, and correction patches were printed. Hand corrections to published charts have totalled 95,709, also corrections to 16,831 copies of 141 different charts.

List of Nautical Charts Issued 1936-37 and in Hand on March 31, 1937

Province	No.	Issued 1936-37	Scale, Inch to Nautical Mile	Remarks
		Title		
Ontario.....	79	Lake Huron (general).....	0.2	(a) (d) Reprint
"	86	Georgian Bay to Clapperton Island.....	0.8	(a) (d) "
"		Killarney Harbour.....	3.0	
"	88	St. Joseph Channel.....	2.0	(a) (d) "
"		Wilson Channel.....	6.0	
"	96	Cape Hurd to Gull Island.....	0.8	(a) (d) "
"		Tobermory Harbour.....	6.0	
"		Club Harbour.....	6.0	
"		Rattlesnake Harbour.....	4.1	
Quebec.....	212	Anticosti Island (West Point) to		
"		Big Island.....	0.2	(a) (d) "
"		Egg Island.....	1.5	
"		Cawee Island.....	1.5	
"		Shelter Bay.....	6.0	
"		Ellis Bay.....	1.5	
"		Matane Harbour.....	12.0	
"		Current diagram.....		
British Columbia	317	Quatsino Sound.....	1.5	(a) (d) "
"	320	Idol Point to Ocean Falls.....	2.0	(a) (d) "
"		Gunboat Passage.....	6.0	
"		Ocean Falls.....	6.0	
"	324	Caamaño Sound and approaches.....	1.0	(a) (d) "
"	328	Milbanke Sound and approaches.....	1.0	(a) (d) "
"		Channels east of Milbanke Sound.....	4.0	
Nova Scotia	410	Bedford Basin.....	6.0	(a) (d) "
Quebec.....	4	Ile Marie to Ile Bouchard.....	6.0	(a) (f) "
British Columbia	351	Discovery Island to Beaver Point.....	2.0	(a) (f)
"	352	Swiftsure Bank to Esteban Point.....	0.5	(a) (f)
Nova Scotia	461	Cabot Strait to Magdalen Islands.....	0.33	(a) (f)

List of Nautical Charts Issued 1936-37 and in Hand on March 31, 1937—Cont.

Province	No.	Issued 1936-37	Scale, Inch to Nautical Mile	Remarks
		Title		
Quebec.....	462	Grand Lake and Salmon River to Chipman Douglas Harbour.....	2-0 6-0	(a) (f)
		Salmon Bay to Camp Wegesegum.....	6-0	
		Camp Wegesegum to Chipman.....	6-0	
Nova Scotia	P-1005	Dingwall Harbour.....	15-2	(b) (f)
Prince Ed- ward Island	P-1460	Charlottetown Harbour.....	6-0	(b) (f)
British Columbia	P-3353	Cape St. James to Tasu Harbour, Q.C.I....	0-5	(b) (f)
"	P-3355	Houston Stewart Channel.....	4-0	(b) (f)
"	P-3356	Skidegate Channel.....	2-0	(b) (f)
		Anchorage in Skidegate Channel.....	4-0	
"	P-3357	Lousocone Inlet.....	4-0	(b) (f)
"	P-3358	Flamingo Inlet.....	4-0	(b) (f)
"	P-3359	Tasu Sound.....	3-0	(b) (f)
"	P-3361	Rennel Sound and Shields Bay.....	1-0	(b) (f)
"	P-3363	Port Chanal.....	4-0	(b) (f)
"	P-3364	Gowgaia Bay.....	4-0	(b) (f)
"	P-3365	Englefield Bay and vicinity Security Inlet anchorage.....	2-0 4-0	(b) (f)
Quebec.....	P-1004	Mutton Bay.....	6-0	(b) (c) Reprint
"	P-1027	Sorel Harbour.....	15-0	(b) (c) "
New Bruns- wick	P-1423	Miramichi Bay.....	2-0	(b) (c) "
"	P-1426	Dalhousie Harbour.....	10-0	(b) (c) "
Quebec.....	P-1504	Mouth of Moose River.....	1-3	(b) (c) "
"	P-1508	Erik Cove to Nuvuk Harbour.....	1-0	(b) (c) "
		Erik Cove.....	3-0	
		Port de Laperriere.....	6-0	
		Nuvuk Harbour.....	2-0	
Ontario.....	P-2030	Thames River (sheet 1).....	15-0	(b) (c) "
"	P-2031	" (sheet 2).....	15-0	(b) (c) "
"	P-2032	" (sheet 3).....	15-0	(b) (c) "
"	P-2052	Oshawa Harbour.....	30-4	(b) (c) "
"	P-2065	Toronto Harbour.....	6-0	(b) (c) "
"	P-2070	Harbours in Lake Ontario.....		(b) (c) "
		Port Whitby.....	15-4	
		Cobourg Harbour.....	12-3	
		Port Hope.....	12-2	
		Frenchman Bay.....	15-3	
		Port Credit.....	15-3	
		Port Dalhousie.....	7-7	
"	P-2073	Oakville Harbour.....	15-0	(b) (c) "
"	P-2080	Port Colborne Harbour.....	12-0	(b) (c) "
"	P-2081	Harbours in Lake Erie.....		(b) (c) "
		Entrance to Rondeau Harbour.....	15-1	
		Port Stanley.....	15-0	
		Port Burwell.....	15-1	
"	P-2114	Port Arthur and Fort William.....	4-0	(b) (c) "
Northwest Territories	P-2172	Tuktoyaktuk Harbour.....	12-0	(b) (c) "
British Col- umbia	P-3205	Malaspina Inlet.....	6-0	(b) (c) "
"	P-3205	Nass Bay.....	6-0	(b) (c) "
"	P-3228	Lawn Point to Selwyn Inlet.....	1-0	(b) (c) "
"	P-3233	West Coast Queen Charlotte Islands and Queen Cove.....		(b) (c) "
"	P-3237	Birthday Channel.....	6-0	(b) (c) "
"	P-3244	Entrance to Portland Inlet.....	2-0	(b) (c) "
"	P-3251	Laredo Inlet.....	1-0	(b) (c) "
"	P-3253	Nanaimo Harbour.....	24-0	(b) (c) "
"	P-3255	Khutze Inlet.....	2-0	(b) (c) "
"	P-3258	Gillam (Middle Channel) Queen Cove.....		(b) (c) "
		Queen Cove.....	5-0	
"	P-3268	Kyuquot Sound.....	6-0	(b) (c) "

(a) Printed in full colours.

(b) Printed in black only.

(c) Vandyke, photostat, blue or similar print, temporary edition.

(d) From engraved plates.

(e) Photolithographed from originals.

In Hand March 31, 1937—Conc.

Province	No.	Title	Scale, Inch to Nautical Mile
Quebec.....	33	Quebec to St. Antoine.....	2-0
".....	34	Quebec Harbour.....	6-0
".....	35	St. Antoine to Ste. Emelie.....	2-0
".....	36	Ste. Emelie to Champlain.....	2-0
".....	37	Champlain to Pointe du Luc.....	2-0
		Three Rivers.....	6-0
		Lake St. Peter.....	2-0
		Sorel.....	11-3
Ontario.....	120	Kingston to Brewers Mills.....	2-5
".....	121	Seeley Bay to Narrows lock.....	2-5
British Columbia.....	344	Dixon Entrance.....	0-3
New Brunswick.....	400	Gulf of St. Lawrence.....	0-07
Quebec.....	405	Hudson Bay and Strait.....	0-03
British Columbia.....		Traffic chart.....	
Newfoundland.....		Ice track, Strait of Belle Isle.....	

Miscellaneous—

Computations for and construction of Ice Track chart of approaches to Strait of Belle Isle; 6 tracings for report on currents in lower St. Lawrence for Tidal and Current Survey Division; 1 tracing of ice conditions in Lake St. Louis; 1 tracing of Killinek Island; 1 tracing of currents in Montreal Harbour; revisions of text for 1937 edition of the Catalogue of Nautical Charts, etc.; revisions of 5 index maps for insertion in above Catalogue, preparation of copy for 2 index maps for editions of Pilots in preparation; preparation of correction patch for Chart 405, Hudson Bay and Strait.

ENGRAVING SECTION

Charts Completed and in Hand 1936-37

Province	No.	Title	Scale, Inch to Nautical Mile
British Columbia.....	343	Clayoquot Sound, main channels.....	4-0
		Matilda Inlet.....	4-0
		Tsapee Narrows.....	4-0
		Dawley Pass.....	4-0
Quebec.....	455	Washtawouka Bay to Piashti Bay.....	1-0
Quebec.....		East Point to S.W. and Carleton Points.....	0-5
<i>In Hand March 31, 1937</i>			
British Columbia.....	348	Clayoquot Sound, N.W. portion.....	2-0
		Sydney Inlet.....	2-0
		Hayden Pass.....	4-0
British Columbia.....	352	Refuge Cove.....	4-0
		Swiftsure Bank to Esteban Point.....	0-5
British Columbia.....	351	Discovery Island to Beaver Point.....	2-0
Nova Scotia.....	461	Cabot Strait to Magdalen Islands.....	0-33

CHART DISTRIBUTION

The total number of standard Canadian nautical charts and related navigation and hydrographic publications distributed in the calendar year 1936 was considerably in excess of that of the previous year, as shown in the following table:

	Year 1936	Year 1935
Catalogue of charts, sailing directions, and tidal information with index maps.	1,000	1,000
Standard navigational charts.	11,317	9,353
Special charts and process prints.	1,559	879
Pilots and sailing directions.	620	590
Tide tables.	109,100	99,000
Water-levels bulletins, graphs, etc.	26,092	25,985

There are now available for issue to the public, 494 Hydrographic Service of Canada charts of Canadian waters, comprising general charts, coast sheets, river and lake charts, harbour and roadstead plans, and charts for special purposes. They are made up as follows:

Atlantic Coast (including the St. Lawrence River to the head of ocean navigation at Montreal; and Hudson Bay and Strait)	198
Great Lakes and inland waters.	141
Pacific Coast (including Vancouver Island)	118
Charts for special purposes.	37

There were 79,284 copies of charts in stock at the Hydrographic Office on January 1, 1937. There has now been provided, for the convenience of shipping, a distribution service through local chart dealers, merchants, or Government officers, where these charts and other hydrographic publications may be procured at the official list prices, in the following ports: St. John, N.B.; Yarmouth, N.S.; Quebec, St. Jean, and Montreal, P.Q.; Kingston, Toronto, Port Colborne, Killarney, Sault Ste. Marie, Little Current, Port Arthur, and Kenora, Ont.; Seattle, Wash.; Prince Rupert, Vancouver, and Victoria, B.C.

MAP SERVICE

SPECIAL SURVEYS

Ontario-Manitoba Boundary.—During the year the Provinces of Ontario and Manitoba decided to proceed with the survey of the interprovincial boundary through the area of mining development immediately northeast of Island Lake. The participation of the Dominion Government was enlisted in this work, and the Surveyor General of Dominion Lands acted as Chairman of the Interprovincial Boundary Commission. The part of the interprovincial boundary in question is defined by the Statutes as a "right line" joining a point at the northeast corner of Island Lake—which point had been previously determined—to the point where the 89th meridian of longitude intersects the shore of Hudson Bay. The distance between these two points is approximately 282 miles. Because of the nature of the ground over which the boundary runs, it was decided to do as much of the boundary work as possible during the winter. The necessary arrangements were made with the provinces, and 115 miles of line was run. Aircraft were used for transporting men and supplies to and from the work, and also for moving camp.

Computations.—Besides the various computations necessary in reducing the field astronomic observations and in computing the azimuths of the survey for the Ontario-Manitoba boundary, considerable mathematical and computational work was performed in connection with the preparation and publishing of the astronomical field tables and of the field observing lists required to facilitate the work of the field observers. The field observing lists for astronomical work, with the recently acquired British Admiralty pattern astrolabes, were completed for all latitudes from latitude 45 degrees to latitude 70 degrees, which covers the whole of the mainland of Canada.

Magnetic Work.—More than 31,000 observations for magnetic delineation have been received, reduced to International Magnetic Standard, tabulated, and filed. During the past year the results of 420 magnetic declination observations were received as follows: 246 observations from surveyors of this Service, 33 observations from surveyors of other Federal Government offices, and 141 observations from various provincial land surveyors. All the magnetic declination observations thus obtained are co-ordinated and used as a base for the compilation of the magnetic declination map published from time to time by this Service. This map, the only one of its kind issued in Canada, is essential for purposes of air navigation, and is of value to surveyors, prospectors, and explorers.

Electoral Maps.—The stock of electoral maps as based on the Representation Act, 1933, was kept up and distributed to Government offices on request. The base maps are kept up-to-date in regard to county and municipal boundaries in order to facilitate the preparation of maps for the next redistribution.

LEGAL SURVEYS

Interprovincial boundaries received considerable attention during the year. The boundary between Manitoba and Saskatchewan is governed by lines of the Dominion Lands System of Survey. Part of it is marked by confirmed surveys, part by unconfirmed surveys, and part is undefined. The provinces desired to deal with the latter two sections of the boundary. Inasmuch as the Dominion had made all existing surveys along this line and the survey organizations of both provinces desired the advice of the Dominion in dealing with the boundary, it was decided to set up a boundary commission of three with the Surveyor General of Dominion Lands as chairman of the commission. Reports on all the unconfirmed surveys affecting the boundary were prepared for submission at the first meeting of the commission, which decided, as the first work, to retrace the unconfirmed surveys between the seventeenth and eighteenth base-lines and to define the boundary in the vicinity of the Hudson's Bay Mining and Smelting Company's property at Flinflon. The instructions to the surveyor for this work were prepared for the signature of the commissioners. The final returns of survey were subsequently examined for the approval of the commissioners, their final report was prepared in triplicate for signature, and drafts of Bills for the approval of the survey by concurrent Acts of the two Provincial Legislatures were prepared.

Correspondence was entered into relating to the prospective survey of the Alberta-Saskatchewan boundary and the Alberta-Northwest Territories boundary. Inquiries necessitated research into the papers relating to the boundary between Ontario and Quebec in the St. Lawrence and Ottawa Rivers, whereas other inquiries regarding the location of Cape Chidley and the jurisdiction at Port Burwell led to a research of, and report on, the Labrador

boundary, from which the Department of Justice ruled that the part of Killinek Island at the northern end of Labrador Peninsula, which is not in Labrador, belongs to the Northwest Territories and not to Quebec as existing maps indicate.

Arrangements were made for the survey of the boundaries of New Westminster Harbour, as extended to where it crosses Fraser and Pitt Rivers, and an amended description was prepared for insertion in a Bill to amend the New Westminster Harbour Commissioners Act in these cases. The plan of survey was examined and description prepared for insertion in a lease of the bridgehead in Stanley Park, Vancouver, to the First Narrows Bridge Company. Continuing the work for the Department of Justice undertaken some years ago, a complete survey of the Dorchester Penitentiary Reserve in New Brunswick was made, and plans, both legal and topographical, were prepared for their use, together with descriptions by metes and bounds. For the Department of National Defence two aerodromes were surveyed in Quebec and two in Ontario. A number of surveys were made in connection with Indian lands.

Ninety-five descriptions for legal titles and seventeen Orders in Council were prepared, and eighty legal titles that were submitted to this office were also examined and amended where required. A very considerable number of memoranda, mostly technical, were furnished other branches of the Department relative to matters pertaining to ditches, pipe-lines, power-lines, oil leases, telephone lines, rights of way, roads, location tickets, and gravel leases, which existed or were proposed, affecting Indian reserves. In addition the usual administration work relative to legal surveys was carried on, such as furnishing copies of plans of surveys, descriptions, and technical advice generally.

The returns of survey of an extension to Wasagaming in Riding Mountain National Park were received, examined, and the preparation of a new plan was begun. This extension comprised twenty-eight blocks containing 383 lots and seven reserved areas. Instructions were issued for a further extension of four reserves and seven blocks containing 124 residential lots. Instructions also were prepared for the survey of the boundaries of the new Prince Edward Island National Park, and the descriptions of the lands selected for insertion in the legislation to create the park were checked against the plans of survey for acceptance. A new description by metes and bounds of Banff National Park, conforming to the recent boundary surveys of the passes, was prepared and submitted for inclusion in an amendment to the National Parks Act. One historic site at Brudenell Point, Prince Edward Island, and one parcel of Ordnance land at Joe Point near St. Andrews, New Brunswick, were surveyed and a plan prepared of the latter to facilitate the sale of this lot.

In the Northwest and Yukon Territories the surveys of 154 lots, mostly mineral claims, were examined for approval, and the reduction of 26 excessive sized mineral claims in the Northwest Territories was dealt with in compliance with the regulations for the disposal of quartz mining claims. When the field notes of surveys in Manitoba and Alberta were sent to the provinces some years ago the original plots of stadia traverse of water areas were retained. It was found that these could now be released and 850 plots for Manitoba and 2,675 plots for Alberta were assembled, indexed, and forwarded to the respective governments. Descriptions for Caroussel Bird Sanctuary in the Gulf of St. Lawrence, Quoddy Bird Sanctuary in the Bay of Fundy, and Big Glace Bay Bird Sanctuary in Cape Breton Island were prepared for insertion in Orders in Council. Numerous other descriptions in connection with the administration of Dominion lands were prepared or examined, and many inquiries from western officials or owners of land relating to surveys made by the Dominion Government were dealt with.

SURVEY RECORDS AND DISTRIBUTION

This Division has charge of the registration and recording of all survey notes and plans affecting Dominion lands, and interprovincial boundaries. Up to the end of the fiscal year 22,015 books and 39,312 plans had been placed on record. The number of copies of official plans of townships, town-sites, and settlements distributed during the year was 3,863.

During the past twelve months there were distributed 100,882 maps and 2,961 publications. Of the maps issued during the year, a few that have aroused special interest might be mentioned. The Chibougamau and Gouin Reservoir sheets of the National Topographic Series, on a scale of 4 miles to 1 inch, in Northern Quebec, have had a large demand from those interested in that mining area. The Nipigon sheet in northwestern Ontario and the Fort Coulonge and Ste. Agathe sheets north of the Ottawa River, have also filled a long felt want. Another map that was much needed was the new edition of the map of Yukon Territory.

BOARD OF EXAMINERS FOR DOMINION LAND SURVEYORS

The Board of Examiners for Dominion Land Surveyors held one meeting during the year. This was the regular annual meeting called for by section 9 of the Dominion Lands Surveys Act. It began on February 8, 1937, and lasted until March 11, 1937. During this meeting examinations were held at Ottawa, Kingston, Winnipeg, Edmonton, and Vancouver. The total number of candidates who presented themselves at the examination was thirty-five. Of these, thirty-four tried the preliminary examination and one tried the final examination.

Thirteen candidates were successful at the preliminary examination as follows:

Bird, D. A. G.	Malby, G. T.
Bowering, R.	McCutcheon, R.
Brown, L. H.	Nation, P. T.
Dykes, C. P. J.	Rice, J. D.
Hargrove, P.	Ross, J. H.
Hopkins, P. M.	Roy, M.
Kihl, T. H.	

One Dominion standard measure of length was issued during the year.

MAP PUBLICATION

This division of the office makes the finished drawings of maps and plans for reproduction, photographs these drawings to the scale of publication, makes the photolitho zinc plates for the printing room, and prints the editions. The maps published during the year and those in course of preparation are shown in a separate list. The total number of copies of maps printed was approximately 208,000, necessitating nearly 750,000 impressions as nearly all of them were in several colours.

A detailed statement of the work performed in the photo-mechanical office includes: wet plate negatives, 1,803; photolithographic plates, 406; line and half-tone cuts, 101; brass name plates, 16; grids, 140; enlargements, 466; contact prints, 1,405; vandyke prints, 2,981; vandyke printing, 13,583 square feet; blue and blue-line printing, 126,285 square feet; photostat printing, 6,375 sheets.

List of Map Sheets of the National Topographic Series and of the Sectional Map Series Issued 1936-37, and in Hand on March 31, 1937

ISSUED 1936-37

Prov.	No.	Series	Name	Scale (in Miles to 1 Inch)	Latitude	Longitude	Remarks
N.B.	21-I/NW	N.T.	Newcastle	2	46° 30' to 47° 00'	65° 00' to 66° 00'	(b)
Que.	31-F/NE	N.T.	Fort Coulonge	2	45° 30' to 46° 00'	76° 00' to 77° 00'	(a)
	31-J/SE	N.T.	Ste. Agathe	2	46° 00' to 46° 30'	74° 00' to 75° 00'	(a)
	31-N/NE	N.T.	Vimy	2	47° 30' to 48° 00'	76° 00' to 77° 00'	(b)
	31-O/SW	N.T.	Petewaga	2	47° 00' to 47° 30'	75° 00' to 76° 00'	(b) Reprint
	32-B/SW	N.T.	Oskelaneo	2	48° 00' to 48° 30'	75° 00' to 76° 00'	(b)
	32-C/SE	N.T.	Doucet	2	48° 00' to 48° 30'	76° 00' to 77° 00'	(b)
	32-B	N.T.	Gouin Reservoir	4	48° 00' to 49° 00'	74° 00' to 76° 00'	(b)
	32-G	N.T.	Chibougamau	4	49° 00' to 50° 00'	74° 00' to 76° 00'	(b)
Ont.	31-D/NW	N.T.	Orillia	2	44° 30' to 45° 00'	79° 00' to 80° 00'	(b) Reprint
	52-B	N.T.	Quetico	4	48° 00' to 49° 00'	90° 00' to 92° 00'	(b) Revised edition
Man.	52-H	N.T.	Nipigon	4	49° 00' to 50° 00'	88° 00' to 90° 00'	(b)
	52-L	N.T.	Pointe du Bois	4	50° 00' to 51° 00'	94° 00' to 96° 00'	(b) Reprint
	63-H	N.T.	Norway House	4	53° 00' to 54° 00'	96° 00' to 98° 00'	(b)
	21	Sect.	Turtle Mountain	3	49° 00' to 49° 43'	100° 00' to 102° 00'	(d) "
Sask.	218	Sect.	Saskatoon	3	51° 47' to 52° 30'	103° 00' to 108° 00'	(d) "
	269	Sect.	Prince Albert South	3	52° 29' to 53° 12'	104° 00' to 106° 00'	(f) "
	320	Sect.	Carrot River	3	55° 11' to 55° 54'	102° 00' to 104° 00'	(f) "
	367	Sect.	Meadow Lake	3	53° 53' to 54° 36'	108° 00' to 110° 00'	(f) "
Alta.	82-O/1	N.T.	Calgary Northwest	1	51° 00' to 51° 15'	114° 00' to 114° 30'	(a) "
	214	Sect.	Rocky Mountain House	3	51° 47' to 52° 30'	114° 00' to 116° 00'	(f) "
	215	Sect.	Red Deer	3	51° 47' to 52° 30'	112° 00' to 114° 00'	(d) "
	216	Sect.	Sullivan Lake	3	51° 47' to 52° 30'	110° 00' to 112° 00'	(d) "
	366	Sect.	Saddle Lake	3	52° 53' to 54° 36'	110° 00' to 112° 00'	(f) "
	464	Sect.	Giroux	3	55° 17' to 55° 59'	116° 00' to 118° 00'	(f) "
	513	Sect.	Shaftsbury	3	55° 59' to 56° 41'	115° 00' to 118° 00'	(f) "
B.C.	92-L/7	N.T.	Nimkish	1	50° 15' to 50° 30'	126° 30' to 127° 00'	(a)
	11	Sect.	Yale	3	49° 00' to 49° 42'	120° 00' to 122° 00'	(e)

IN HAND MARCH 31, 1937

P.E.I.	S. 11/NW	N.T.	Charlottetown-Sydney	8	45° 00' to 47° 00'	60° 00' to 64° 00'	(b)
N.S.	11-K/NE	N.T.	Nova Scotia Park	2	46° 30' to 47° 00'	60° 00' to 61° 00'	(b)
	21-H/16	N.T.	Amherst	1	45° 45' to 46° 00'	64° 00' to 64° 30'	(a)
	21-A/SE	N.T.	Bridgewater	2	44° 00' to 44° 30'	64° 00' to 65° 00'	(b)
N.B.	21-G/SE	N.T.	St. John	2	45° 00' to 45° 30'	66° 00' to 67° 00'	(b)
Que.	31-I/NE	N.T.	Grand Mère	2	46° 30' to 47° 00'	72° 00' to 73° 00'	(b)
	31-O/NW	N.T.	Choquette	2	47° 30' to 48° 00'	75° 00' to 76° 00'	(b)
	32-F	N.T.	Waswanipi	4	49° 00' to 50° 00'	76° 00' to 78° 00'	(b)
	21-NW	N.T.	Quebec-Edmundston	8	46° 00' to 48° 00'	68° 00' to 72° 00'	(a)
	31-NW	N.T.	Upper Ottawa River	8	46° 00' to 48° 00'	76° 00' to 80° 00'	(b)
Ont.	31-F/7	N.T.	Renfrew	1	45° 15' to 45° 30'	76° 30' to 77° 00'	(a)
	52-A/SW	N.T.	Fort William-Port Arthur	2	48° 00' to 48° 30'	89° 00' to 90° 00'	(b)
	52-A/NW	N.T.	Kaministikwia	2	48° 30' to 49° 00'	89° 00' to 90° 00'	(b)
	42-E	N.T.	Long Lac	4	49° 00' to 50° 00'	86° 00' to 88° 00'	(b)
	31-SW	N.T.	Toronto-Ottawa	8	44° 00' to 46° 00'	76° 00' to 80° 00'	(b)
	52-NE	N.T.	Sioux Lookout-Armstrong	8	50° 00' to 52° 00'	88° 00' to 92° 00'	(b)
	52-SW	N.T.	Kenora-Fort Frances	8	48° 00' to 50° 00'	92° 00' to 96° 00'	(b)
Man.	53-K	N.T.	Stull Lake	4	54° 00' to 55° 00'	92° 00' to 94° 00'	(b)
	53-L	N.T.	Oxford House	4	54° 00' to 55° 00'	94° 00' to 96° 00'	(b) Revision
	53-M	N.T.	Knee Lake	4	55° 00' to 56° 00'	94° 00' to 96° 00'	(b)
Sask.	64-E	N.T.	Reindeer Lake North	4	57° 00' to 58° 00'	102° 00' to 104° 00'	(b)
	74-F	N.T.	Clearwater	4	57° 00' to 58° 00'	108° 00' to 110° 00'	(b)
	74-G	N.T.	Cree Lake	4	57° 00' to 58° 00'	106° 00' to 108° 00'	(b)

List of Map Sheets of the National Topographic Series and of the Sectional Map Series Issued 1936-37, and in Hand on March 31, 1937—Concluded

Prov.	No.	Series	Name	Scale (in Miles to 1 Inch)	Latitude	Longitude	Remarks.	
B.C.	92-G/2	N.T.	New Westminster...	1	49° 00' to 49° 15'	122° 30' to 123° 00'	(a)	
	92-G/3	N.T.	Vancouver South...	1	49° 00' to 49° 15'	123° 00' to 123° 30'	(a)	
	92-G/6	N.T.	Vancouver North...	1	49° 15' to 49° 30'	123° 00' to 123° 30'	(a)	
	92-L/1	N.T.	Schoen Lake.....	1	50° 00' to 50° 15'	126° 00' to 126° 30'	(a)	
	92-L/2	N.T.	Woss Lake.....	1	50° 00' to 50° 15'	126° 30' to 127° 00'	(a)	
	92-L/6	N.T.	Alice Lake.....	1	50° 15' to 50° 30'	127° 00' to 127° 30'	(a)	
	92-L/8	N.T.	Adam River.....	1	50° 15' to 50° 30'	126° 00' to 126° 30'	(a)	
	92-L/10	N.T.	Alert Bay.....	1	50° 30' to 50° 45'	126° 30' to 127° 00'	(a)	
	93-A/11	N.T.	Spanish Lake.....	1	52° 30' to 52° 45'	121° 00' to 121° 30'		
	93-A/12	N.T.	Hydraulic.....	1	52° 30' to 52° 45'	121° 30' to 122° 00'	(a)	
	93-A/13	N.T.	Swift River.....	1	52° 45' to 53° 00'	121° 30' to 122° 00'		
	93-A/14	N.T.	Cariboo Lake.....	1	52° 45' to 53° 00'	121° 00' to 121° 30'		
	82-0/NW.	N.T.	Barrier Mountain...	2	51° 30' to 52° 00'	117° 00' to 118° 00'	(a)	
	92-B/NW.	N.T.	Victoria.....	2	48° 30' to 49° 00'	123° 00' to 124° 00'	(a)	
	93-K/SE.	N.T.	Fraser Lake.....	2	54° 00' to 54° 30'	124° 00' to 125° 00'	(b)	
	N.W.T.	75-K and L.	N.T.	Fort Reliance.....	4	62° 00' to 63° 00'	108° 00' to 112° 00'	(c)
		85-I	N.T.	Hearne.....	4	62° 00' to 63° 00'	112° 00' to 114° 00'	(b)
85-J		N.T.	Rae.....	4	62° 00' to 63° 00'	114° 00' to 116° 00'	(c)	
85-O		N.T.	.....	4	63° 00' to 64° 00'	114° 00' to 116° 00'	(c)

List of Miscellaneous Map Sheets and Plans Issued 1936-37, and in Hand March 31, 1937

ISSUED 1936-37

Province	Map	Scale (in Miles to 1 Inch)	Remarks
P.E.I.	Plans of Malpeque Bay showing areas for oyster leases.....	1,000 feet to 1 inch	8 sheets—Reprints.
	Plans of Covehead and Brackley Bays, Foxley River, Rustico Bay, Savage Harbour, and Tracadie Bay.....	1,000 feet to 1 inch	
Que.	Chicoutimi.....	2	6 sheets. Advance prints.
	Harricana.....	7-89	Reprint with revision.
	Tadoussac.....	7-89	“ “
Ont.	Belleville.....	3-95	“ “
	Cornwall.....	3-95	“ “
	Guelph.....	3-95	“ “
	Parry Sound.....	3-95	“ “
	Windsor.....	3-95	“ “
	Renfrew.....	1	Advance prints in black and blue.
	Longlac, 42-E.....	2	Advance prints of four quarters.
Man.	Oxford House, 53-L.....	2	“ “
	Knee Lake, 53-M.....	2	“ “
Sask.	Cree Lake, 74-G.....	2	“ “
Alta.	Jasper Park, South.....	3	
B.C.	Kootenay.....	3-95	Reprint without revision.
	Okanagan.....	3-95	“ “
N.W.T.	Cameron Bay.....	1	
	Northwestern Canada.....	50	Reprint.
	75-L.....	2	Advance prints of four quarters.
	Hearne, 85-I.....	2	“ “
	Rae, 85-J.....	2	“ “
	85-N.....	2	“ “
	85-O.....	2	Advance prints of NW. and SW. quarters.
Yukon.	Yukon Territory.....	10	

List of Miscellaneous Map Sheets and Plans Issued 1936-37, and in Hand March 31, 1937—Concluded

ISSUED 1936-37—Concluded

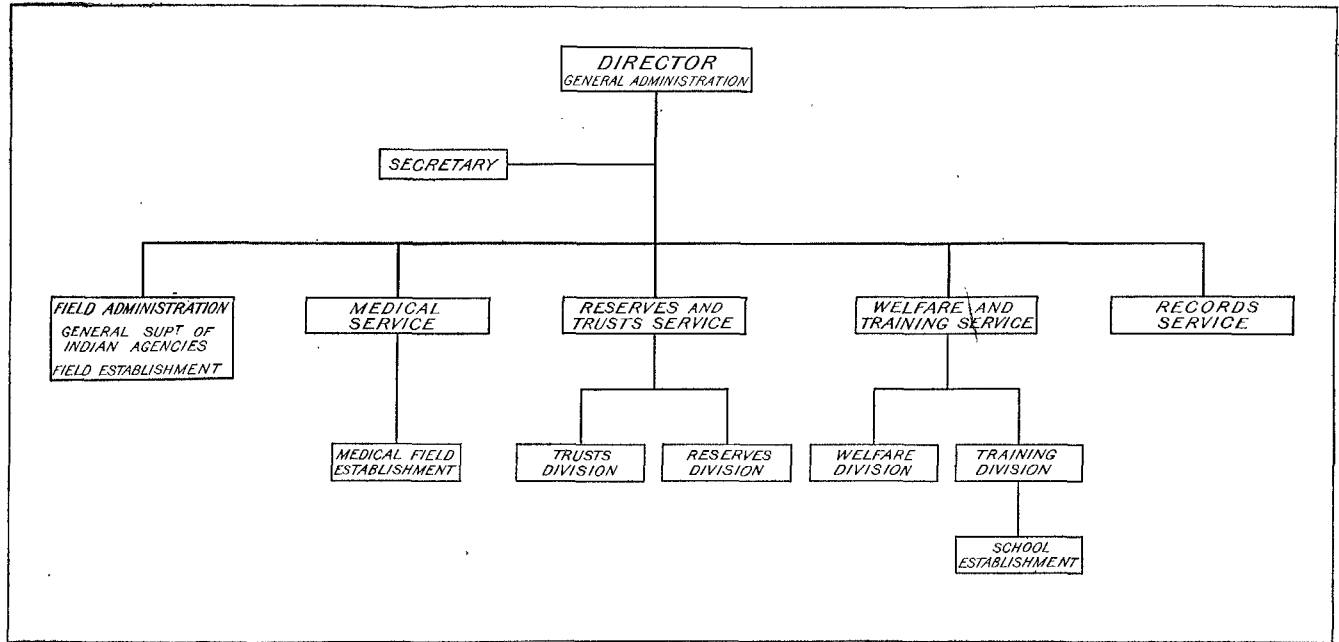
Province	Map	Scale (in Miles to 1 Inch)	Remarks
General.....	74 township plans.....	$\frac{1}{2}$	30 were reprints.
	Index to Old Geographic Series.....		
	Index to National Topographic Series— Manitoba and Saskatchewan.....		
	Index to National Topographic Series— Quebec and Maritimes.....		
	Index to National Topographic Series— Ontario.....		
Miscellaneous..	World Map to 60 degrees south latitude.....		
	Eastern Canada showing progress of tri- angulation and levelling.....		For Geodetic Service of Canada.
	Western Canada showing progress of tri- angulation and levelling.....		“ “
	Map of Northwest Territories.....		For Dominion Water and Power Bureau.
	14 charts.....		For Hydrographic Service.
	Gravity Map of Canada and United States.....		For Dominion Observatory.
	6 maps and charts.....		For Dominion Forest Serv- ice.
	Map of Southern Ontario.....		For Department of Agricul- ture.
	Map of Prairie Provinces showing areas likely to be infested with grasshoppers.....		“ “
	3 maps of portions of Quebec showing peat and muck soils.....		“ “
	Map of County of Kent showing soils.....		“ “
	Charts showing coal costs.....		For Dominion Fuel Board.
	Tourist Map of Canada (Western Sheet).....		For Canadian Travel Bureau
	Orographical Map of Canada.....		For Bureau of Statistics.
	Map of Southern Saskatchewan showing municipalities.....		For Saskatchewan Govern- ment.

IN HAND MARCH 31, 1937

Que.....	Chicoutimi.....	2	
Man.....	Manitoba, North.....	16	
	Manitoba, South.....	16	
Sask.....	Saskatchewan, North.....	16	
Alta.....	Alberta, South.....	16	
General.....	Resources Map of the Dominion.....	100	
	Map of the World.....	750	
	Political Map of Canada.....		For Canada Year Book.
	Forest Classification Map.....		For Lands, Parks, and For- ests Branch.
	Soil Survey Map of Apple Orchards.....		For Department of Agricul- ture.

NOTES.—Work performed on the sheets marked “In Hand” ranges throughout the various stages from the commencement of the compilation in the office to the preparation of the final lithographic plates for printing. Some sheets upon which very little work has so far been done are not included in the above list.

- Where a map sheet extends into more than one province, it is listed under one province only. Under the column of “Remarks” the following are the meanings attached to the symbols used:
- (a) National Topographic Series—Standard Edition—Topographical information complete.
 - (b) National Topographic Series—Provisional Edition—Topographical information complete or nearly so (except for contours), over all or greater part of sheet.
 - (c) National Topographic Series—Exploratory Edition—Topographical information from exploration surveys, or where control is inadequate, no contours or contours conjectural only.
 - (d) Sectional Map Series—New Series Edition—Detailed topographical information in eight colours, including contours.
 - (e) Sectional Map Series—Intermediate Series Edition—Topographical information in five colours not so complete, contours, when shown, usually approximate only.
 - (f) Sectional Map Series—Old Series Edition—General topography only, in from one to four colours.



Organization Chart, Indian Affairs Branch.

INDIAN AFFAIRS BRANCH

Dr. H. W. MCGILL, DIRECTOR

The Department of Indian Affairs became a Branch of the Department of Mines and Resources by the Department of Mines and Resources Act of June 23, 1936. The Indian Affairs Branch now functions under the Director of Indian Affairs, and has the following divisions:

Field Administration.—This consists of four inspectorial officers and one Indian Commissioner with 115 Indian agents. This service is charged with agency administration, special investigations, agency buildings and equipment, and general local governmental administration on Indian reserves.

Medical Service.—This Service is conducted under the Superintendent of Medical Service through a small headquarters staff and a Dominion-wide staff of physicians, nurses, field-matrons, and dispensers; and is responsible for medical attendance and hospitalization, child welfare, field nursing, and general health services.

Welfare and Training Service.—The Welfare Division supervises Indian industrial assistance and advancement, including employment projects, agricultural and livestock activities; furthers development of marketing of handicraft; renders assistance to ex-pupils of residential schools, and generally supervises the social welfare of the Indians.

The Training Division, through a Dominion-wide field staff, administers 262 day schools and the grants given in aid of 79 residential schools administered by the churches.

Reserves and Trusts Service.—The Reserves Division has charge of land surrenders, sales and leases, location tickets, and land patents; issues permits to trade and hunt on reserves, and deals with questions of rights of way, removal of Indians, boundaries, reclamation, and development; compensation for flooded areas, and disposal of timber on reserves.

The Trusts Division is responsible for the administration of trust funds, annuities and interest, and Soldier Settlement Act; it is also concerned with band membership, estates, and enfranchisement of Indians.

Records Service.—This Service has custody of manuscripts, some of which are dated prior to Confederation. It also deals with the reception, distribution, and filing of all current correspondence.

The field administration of Ontario was changed by the abolition of the New Credit Agency and the inclusion of the Missisaugas of the New Credit reserve in the Six Nations Superintendency.

The Rice and Mud Lakes Agency, which was first established as a separate agency in 1883, comprising two bands, the Missisaugas of Mud Lake and the Missisaugas of Rice Lake, has a population of 361 located on three reserves. The Alnwick Agency, first established in 1883, and comprising one band, the Missisaugas of Alnwick, has a population of 262 located on two reserves. As a measure of economy, these two agencies were amalgamated under one agent with the consequent abolition of the position of agent of the Alnwick Agency.

PROBLEMS OF THE HUNTING INDIANS

The Department of Indian Affairs (now Indian Affairs Branch) was represented at interprovincial and Dominion game conferences held from time to time during the past fifteen years and consistently advocated special protection for Indian hunters and trappers, and particularly the setting aside of hunting preserves. At the 1928 conferences a resolution was passed subscribed to by all provinces approving "a policy of setting aside, as far as practicable, in unsettled regions, certain suitable and reasonable areas whereon Indians only may be allowed to trap."

The subject was again to the fore at the Provincial-Dominion Wild Life Conference held in Ottawa January 5, 1937, and the discussions there evidenced general and sympathetic interest in the welfare and future of the hunting Indians.

In keeping with the conclusions reached at these conferences, negotiations have been conducted with the provincial authorities and definite progress has been made. In certain provinces large tracts have been set aside as Indian hunting preserves where only Indians are permitted to hunt and trap, and efforts are being made to have this policy extended wherever feasible, having regard to the interests both of the Indians and wild life conservation.

In British Columbia, where the individually owned trap-line system is in vogue, this Branch is endeavouring to increase the quota held by Indians by purchasing for them vacated lines wherever such become available.

Trapping by Aeroplane.—It was brought to the attention of the Branch that trappers were using planes in the Northwest Territories for the purpose of extending their trapping operations and as a consequence the game supply upon which the Indians depend for their livelihood was in danger of being depleted. The Indians pointed out that they might be heading for a certain lake at a distance of many miles, where they had trapped the previous year, only to find upon reaching it that a trapper had flown in. They said: "If there was a man with a dog-train ahead of us, we would know by the tracks that someone had gone in, whereas the man with the plane goes through the sky and we do not know anything of his whereabouts until he comes in, probably just ahead of us." A remedial measure, by an Order in Council passed on February 15, 1937, amended Section 5 of the Regulations for the Protection of Game in the Northwest Territories by adding, "Aircraft shall not be used in trapping operations except as a means of transportation between the settlement where a trapper is outfitted and his principal base camp. Every trapper applying for a licence shall designate the settlement where he will be outfitted and his principal base camp."

Beaver Colonies.—In 1935 the Indian Affairs Branch was advised by the Department of Natural Resources, Saskatchewan, of a surplus of beaver at the Cypress Hills Provincial Park, and it was suggested that some of these might be taken to establish beaver colonies on Indian reserves. When the question was put before them, the Indians on some of the reserves in the Onion Lake and Pelly Agencies were very keen to undertake the project. The Inspector of Indian Agencies submitted an estimated cost of taking about 75 beaver and during the summer he was authorized to make necessary arrangements. Six Indians from the Pelly Agency were sent to the Provincial Park and the Field Officer there reported, "I find your men excellent in manners and deportment, reasonable in all demands, exceptional live trappers." They caught 75 beaver and maimed only one. Some casualties occurred in transporting the beaver and finally 40 were supplied to the Pelly Agency and 12 to Onion Lake.

With beaver colonies established in the Onion Lake Agency and on the Keys and Cote Reserves in the Pelly Agency, the Inspector of Indian Agencies the following year submitted a similar proposal to the Mistawasis band in the

Carlton Agency. They were unanimously in favour of the project and voted their band funds to defray expenses. There were several old beaver dams on Snake Creek in this reserve, with a heavy growth of poplar and willow on the banks, making an ideal place for beaver. Although no recent report has been received respecting the development of the scheme, it is assumed that with the care and protection promised by the Indians a successful outcome may be expected.

Muskrat Farming.—During the past year particular attention has been directed towards the economic condition of the Indians. An intensive effort has been made towards assisting and encouraging them in all lines of endeavour, with the immediate aim of reducing relief costs among them and the ultimate goal of making all able-bodied Indians self-supporting.

With this end in view investigations are being made for the purpose of securing more definite information as to the possibility of increasing the production of muskrats and other fur-bearing animals in the northern parts of Canada; particularly in the areas around The Pas in Manitoba; at Chipewyan in northern Alberta; and in the areas around Slave River between Fort Smith and Resolution. Following such investigations arrangements can then be made with a view to developing and protecting the most favourable areas.

MEDICAL SERVICE

Throughout the winter of 1937 influenza was prevalent among the Indians, scarcely any part of the country escaping. The epidemic, on the whole, was not of a severe nature, but, like all widespread epidemics, was virulent in a few places. Influenza together with measles at one residential school and with whooping cough at another resulted in high mortality.

This was the first widespread epidemic in 10 years, and it is interesting to observe the change in the attitude of the Indians during that period of time toward such visitations and toward the measures taken to deal with them. In this respect at least, the Indian point of view has changed remarkably. He used to accept such afflictions and the resulting loss of life as inevitable, and to look upon the counsel of his medical and other supervisors as worthless, or at least not applicable to Indians. Whole groups have been known to die, not so much from the disease as from resignation to fate.

Today it is doubtful if any section of the Canadian population is more obedient to quarantine regulations, if they are understood, or more anxious to attend to instructions in the treatment of acute communicable disease. This applies, of course, more especially to the settled Indian populations of the south than to the primitive groups in the northern forest.

It is also worth observing that the organization built up to deal with emergencies in health functioned satisfactorily. The few and simple regulations for control of epidemics, and the authority to act in such matters vested in local officers, enabled them to meet the situation without delay and without resorting to the Branch for detailed instructions.

During the year the new Indian hospital at Fort Qu'Appelle, Saskatchewan, was opened. Primarily designed to replace the old frame hospital at the File Hills Agency, this new institution is large enough to accommodate many long-

term problem cases from various other agencies, besides the Qu'Appelle and File Hills groups, which are close by. The hospital is under the medical direction of the Qu'Appelle Indian Health Unit.

The new hospital is of modern, fireproof, reinforced concrete construction, faced with brick, and is located in one of the most beautiful spots in Qu'Appelle Valley, just outside the town of Fort Qu'Appelle. It has abundant light, and is built throughout on sanatorium principles. It can easily accommodate 50 patients, and an additional 10 without overcrowding.

A senior medical superintendent for British Columbia has been appointed to supervise all Indian medical work in that province. His primary duties are to convey professional advice and assistance to doctors in remote places, and where no local doctor is available, to provide medical services also. It was hoped, moreover, to secure a degree of financial and general control such as could not be maintained from Ottawa in such a large and distant province. Though the service has been in existence only a little over a year it would appear that these objectives are being accomplished.

The condition of health among the Indians and other natives of Mackenzie River basin has been the subject of much discussion during the year. Between McMurray and Aklavik on the main river route, and around the large lakes of the region there are some sixteen or seventeen main groups of Indians and a large number of subsidiary groups. To reach them all would probably involve a journey of not less than 1,500 miles. The largest community numbers about 800.

These Indians live a hunting life during 9 months of the year, and are to be found collected at their reserves or homes during only a short period in summer. Their standard of health and sanitation is primitive and their means of living precarious, so that many suffer from tuberculosis. They are barely holding their own in population, and in some groups the deaths exceed the births. In spite of every effort the Indian Affairs Branch is finding it difficult to extend effective aid to these people. Church Missionary Societies have established hospitals at three widely separated points, and at these places and at two others, physicians are maintained. However the number of Indians within their immediate reach is small. Other Indians live at great distances, even in summer when they are collected at central points. In view of the high cost of transportation an attempt to provide these people with adequate medical and health services such as are available to more favourably situated Indian communities, would involve an expenditure of money and effort completely out of proportion to their numbers. The whole situation is being carefully studied.

TUBERCULOSIS

The situation as regards tuberculosis among Indians has not greatly changed during the year under review. Although it has not been found possible to admit many more tuberculous Indians to sanatoria, some advance has been made in other directions. A preventorium unit was opened at the Indian Residential School at Mission, B.C. The church authorities in charge of the school kindly contributed the entire capital cost of making the space available. The new Qu'Appelle Indian hospital has provided space for a considerable additional number of tuberculous Indians, particularly children.

At the end of the year preparations were being made for the assembly, under the authority of the Honourable the Minister, of a joint committee of the Department and the Canadian and allied Tuberculosis Associations, to be held at Ottawa in the month of June.

TRACHOMA

If, as may be hoped, tuberculosis can be brought under reasonable control within 10 years, trachoma will probably be the most serious health problem still remaining. It is not getting worse. On the contrary, the situation is now known, and some progress is being made toward eradication. The process, however, will be long, and many white people will be exposed to trachoma before it disappears from among Indians.

At the request of the Indian Affairs Branch, in 1930, a survey to determine the existence of trachoma in the Indians of the Prairie Provinces was undertaken by Dr. J. J. Wall. Examination of many reserves and various areas of Manitoba, Saskatchewan, Alberta, and certain parts of interior British Columbia showed that 25 to 30 per cent of the Indian population were afflicted with trachoma in its various stages. Pupils of the residential schools showed a high incidence of the disorder. Up to that time no organized effort had been undertaken to eradicate the disease.

Many of the schools at that time, unknown to the school authorities, were serving as centres for the spread of this eye disease. The principals and other officials were entirely unaware even of its existence. Casual observation of the external appearance of the eye certainly did not suggest anything amiss with the lids, which had to be everted for proper examination. Most of the corneal ulcers and other eye diseases in the children were attributed largely to tuberculosis. No suspicion was aroused at that time that the greater number of these disorders were due to extension of a trachomatous process from the lids into the transparent portion of the eye. This extension is most insidious and slow in character.

Grossly impaired vision in adults of 30 years and over, together with the high incidence of blindness in the Indians examined, was mostly due to the ravages of trachoma. Opaque areas in the corneæ were due, in most cases, to the trachomatous extension and to old scars resultant from healed trachomatous ulcers.

The first organized effort to eradicate and control this serious condition was undertaken late in 1932. Little, if any, importance had been attached to the diagnosis of trachoma in the various medical faculties of Canadian universities. Patients demonstrating the condition were rarely seen in the larger centres. Trachoma was considered to exist only among a small number of citizens of foreign extraction, and it was held that the disease was of interest mostly to Immigration Medical Officers. Very few of the medical officers attending the Indians had been aware of the existence of trachoma until the survey was made. To combat the problem intelligently it was necessary to give individual instructions to the physicians and medical attendants for the early objective signs in the everted eye lids, together with the appearance of certain changes in the corneæ due to extension from the primary site. Methods of treatment of the disease and its complications were demonstrated.

Treatment was organized first in the residential schools where all pupils were examined and classified. Precautions, which to date have proved most satisfactory, were instituted to protect the non-infected children. Primary methods of treatment have proved so satisfactory that few changes have been instituted. The measure of success in each institution can be accurately gauged by the number of recessions in the first classification, including those pupils becoming "arrested" and "cured."

The residential school offers excellent facilities for treatment and education along anti-trachoma lines. The principals and various members of staffs are to be commended for their co-operation and the excellent results obtained under the direct supervision of the attending physicians.

Reserves and smaller settlements offer a much more difficult problem. Certain areas, fortunate in having a resident medical attendant or nurse, have

shown excellent results. In such localities, propaganda as to the necessity of continuous treatment over a prolonged period can be constantly stressed and the facilities for treatment provided.

In contrast there are isolated areas, quite distant from adequate care and medical attention, where few results are obtained. If some improvement occurs, the patient usually abandons treatment under the misconception that all is now well. For such areas, it is most desirable that frequent visits be made by the oculist to check progress, vary medication if necessary, and encourage positive cases to persist in treatment.

In Canada severe cases of trachoma have been encountered as far east as the Peterborough area of Ontario. Continuing westward the incidence rises very sharply on crossing the Manitoba border and continues high through the other two Prairie Provinces. The greatest incidence is reached in the dry, higher areas of central and northern British Columbia and recedes rapidly in the moist Pacific Coastal regions.

WELFARE AND TRAINING SERVICE

It is recognized, in the creation of this Division, that a worth-while welfare program must be basically educational in character; that education is not something injected into a child during his sojourn at school, but a process that should continue throughout life. The activities of the Division, therefore, are independent and complementary, directed toward clearly defined objectives. These objectives, for a generation or two at least, will be the training of pupils to make the most of their available resources, with talents consecrated to the service of the bands to which they belong, and an adult Indian population proud of their racial origin and cultural heritage, adjusted to modern life, progressive, resourceful, and self-supporting.

The Indians of Canada have suffered acutely in recent years; unemployment, drought in agricultural areas, and inadequate returns from steadily diminishing fur and game resources have contributed to the demoralization and disintegration of their economic and social life. It is estimated that during the year one-third of the Indian population was dependent, in whole or in part, on relief allowances.

The welfare program organized toward the end of the fiscal year consists in the main of the creation and cultivation of subsistence gardens and the extension of agricultural operations; the purchase of live stock and equipment; encouragement of arts and crafts and sale of handicraft products; the survey and development of territory suitable for the propagation of muskrats and other fur-bearing animals; purchase of trap-lines and leasing of timber limits, housing construction, administration of relief, and the care of the aged and physically incapacitated.

The program is designed to encourage the Indian to support and sustain himself. It is sufficiently comprehensive, when supported by the Parliamentary appropriations necessary, to enable him, whether he be farmer, trapper, or fisherman, to obtain and utilize the tools necessary to provide sustenance for himself and those dependent upon him.

A summary of Indian welfare expenditure during the last 8-year period follows:

<i>Fiscal Year</i>	<i>Amount</i>	<i>Fiscal Year</i>	<i>Amount</i>
1929-30.. .. .	\$ 711,523	1933-34.. .. .	\$ 853,362
1930-31.. .. .	823,343	1934-35.. .. .	845,428
1931-32.. .. .	988,340	1935-36.. .. .	895,162
1932-33.. .. .	935,734	1936-37.. .. .	983,537

TRAINING

All Indian day and residential schools, with the exception of two residential schools destroyed by fire, were open and in operation throughout the year. New Indian day schools were built at Christian Island, Ont., Seine River, Ont., and Kitsalas, B.C.

A table of pupil enrolment and attendance follows:

Fiscal Year	Residential Schools		Day Schools		Total		
	Enrolment	Average Attendance	Enrolment	Average Attendance	Enrolment	Average Attendance	Percentage of Attendance
1927-28.....	6,795	6,043	8,223	4,823	15,018	10,866	72.35
1928-29.....	7,075	6,282	8,272	4,976	15,347	11,253	73.35
1929-30.....	7,302	6,476	8,441	5,103	15,743	11,579	73.55
1930-31.....	7,831	6,917	8,584	5,314	16,415	12,231	74.51
1931-32.....	8,213	7,400	8,950	5,707	17,163	13,107	76.36
1932-33.....	8,465	7,613	8,960	5,874	17,425	13,478	77.40
1933-34.....	8,596	7,760	8,852	5,592	17,448	13,352	76.52
1934-35.....	8,709	7,882	8,851	5,560	17,560	13,442	76.54
1935-36.....	8,906	8,061	9,127	5,788	18,033	13,849	76.79
1936-37.....	9,040	8,176	9,257	5,790	18,297	13,966	76.34

An attempt has been made during the year to bring the educational policy of the Indian Affairs Branch into closer conformity with the actual life needs of Indian children. Steadily increasing emphasis has been placed on the importance of manual training. Material has been supplied, in an attempt to encourage gardening and carpentry work among boys, and dressmaking, crochet work, and elementary domestic science among girls. Plans have been prepared for the construction of day schools, equipped to provide an educational program designed to meet the needs peculiar to the reserves on which such schools are established. It is not too much to hope that these schools will become the focal points in community life—centres to which children and adults will turn for guidance, instruction, and inspiration.

An encouraging feature of educational effort during the year was discovered in the increasing demands for agricultural and homemaking short courses and in the tendency and willingness of the Indians to recognize the value and distinctiveness of their arts and crafts. Consideration has been given to ways and means whereby the Indian population can be encouraged to conserve still further their ancient values and skills and thus contribute to the cultural life of the nation.

The expenditure for Indian education for the fiscal year ended March 31, 1937, amounted to \$1,820,977.80 and is analysed in the following table:

Indian Education Vote—Expenditure for Year 1936-37

	Day Schools	Residential Schools	Stationery	Tuition and Assistance to Ex-pupils	Miscellaneous	Total
	\$	\$	\$	\$	\$	\$
Prince Edward Island.....	1,006 41		76 77	799 34		1,882 52
Nova Scotia.....	10,009 86	29,381 49	795 48	756 83		40,943 66
New Brunswick.....	15,211 79		551 77	823 03	842 67	17,429 26
Quebec.....	54,540 59	6,676 38	2,597 51	5,668 09	40	69,482 97
Ontario.....	105,374 89	242,287 63	10,238 89	12,323 61	176 33	370,401 35
Manitoba.....	51,003 77	161,094 36	4,672 67	1,357 18	168 22	218,296 20
Saskatchewan.....	31,736 09	291,487 98	5,372 24	2,102 66	111 80	330,810 77
Alberta.....	1,863 21	308,087 42	4,661 45	1,849 41	154 46	316,615 95
British Columbia.....	59,380 71	323,301 46	9,389 39	769 77	3,639 82	396,481 15
Yukon.....	2,998 25	16,100 87	540 79			19,639 91
Northwest Territories.....	1,579 55	36,285 61	1,128 90			38,994 06
	334,705 12	1,414,703 20	40,025 86	26,449 92	5,093 70	1,820,977 80

GRANTS TO AGRICULTURAL FAIRS

For some years it has been the practice of the Department to offer encouragement to Indian agricultural societies or organizations by offering grants of various amounts for the purpose of giving prizes at their autumn fairs and other gatherings. In 1936 these grants amounted to \$6,050 and were as follows:

<i>New Brunswick</i>	
Fredericton Exhibition	\$ 25
<i>Ontario</i>	
Agricultural Society, Sarnia.....	200
Oshweken Agricultural Society, Brantford.....	300
Garden River Agricultural Society, Sault Ste. Marie.....	100
Caradoc Fair and crop competition.....	300
Chemong Fair, Rice and Mud Lakes.....	70
Manitoulin Island Unceded Agricultural Society.....	100
Snake Island Agricultural Society, Georgina Island.....	50
Ploughing matches	650
Field prizes, standing crop competitions.....	360
Garden prizes, standing crop competitions.....	250
Thunder Bay Agricultural Association.....	250
<i>Manitoba</i>	
Rosburn Agricultural Society, Rosburn.....	20
Manitoba Provincial Exhibition, Brandon.....	200
<i>Saskatchewan</i>	
Prince Albert Agricultural Society.....	350
Regina Agricultural and Industrial Exhibition Association, Limited	350
<i>Alberta</i>	
Calgary Exhibition, Calgary.....	350
Edmonton Exhibition Association, Limited.....	350
<i>British Columbia</i>	
Bulkley Valley Fall Fair, Smithers (Babine).....	100
Farmer's Institute, Bella Coola.....	25
Cowichan Agricultural Society, Duncan.....	150
International Handicrafts Festival, Vancouver.....	100
North and South Saanich Agricultural Association (Cowichan)....	50
Windermere District Fall Fair (Kootenay).....	150
Cranbrook Agricultural Association (Kootenay).....	100
Northern B.C. Agricultural Indian Association (Skeena).....	200
Vanderhoof Ploughing Association (Stuart Lake).....	50
Field crops, Stuart Lake.....	100
Chilliwack Fair (New Westminster).....	100
Vancouver Fall Fair.....	350
Armstrong Fall Fair (Okanagan).....	250
Colt and Calf Show (Stuart Lake).....	50
	\$ 6,050

CONSTRUCTION, SURVEYS, AND ENGINEERING WORKS

Details in regard to the construction, surveys, and engineering works carried out by the Indian Affairs Branch during the fiscal year will be found in that part of the report covered by the Surveys and Engineering Branch.

RESERVES AND TRUSTS SERVICE

RESERVES DIVISION

In the administration of Indian lands during the fiscal year 1936-37, there were, fortunately, evidences of recovery in an upward trend of prices for farm lands and an increase in the number of inquiries in connection with both sales and leases. In the three Prairie Provinces, Manitoba, Saskatchewan, and Alberta, the improvement in general conditions has been most noticeable through the advance in grain prices.

The care and administration of the large acreage of reserve lands continued to require an ever-increasing interchange of correspondence between the Branch and the inspectors and agents directly concerned. In those reserves where the Location Ticket system prevails and in those where "recognized ownership" is the guiding factor, occupational rights are constantly changing, necessitating a vigilant supervision and a vast amount of detailed office routine, and with the improvement in administrative methods and procedure this work increases proportionately.

The activity during the fiscal year in connection with Indian land sales and leases is indicated by the following figures: value of lands sold — \$78,664.98; payments received on current contracts — \$89,557.07; revenue from leases of Indian lands — \$137,069.42.

TIMBER

The quantity of timber cut for sale from Indian reserves throughout the Dominion was 60 per cent more during the 1936-37 season than in the previous year. In the Province of British Columbia a brisk demand for export lumber caused marked activity in the logging business, and to some extent increased production was evident in the eastern section of the country.

The kinds and quantities of timber cut for sale during the season 1936-37, on which royalty and dues were collected, were as follows:

Pine (white)	110,572	f.b.m.
Spruce	1,941,029	"
Hemlock (Western)	2,726,712	"
Hemlock (Eastern)	762,485	"
Cedar (red)	766,431	"
Fir (Douglas)	424,848	"
Fir (balsalm)	2,016,743	"
Maple	969,340	"
Birch	866,317	"
Beech	115,899	"
Elm	58,586	"
Oak	400	"
Poplar	79,560	"
Cottonwood	430,980	"
Christmas trees	5,100	bales
Cordwood (mixed)	7,237	ords
Pulpwood (spruce and balsam)	49,285	"
Shingle bolts	785	
Ties	134,219	
Poles	1,267	
Posts	963	
Piling	29,915	L.F.

The above quantities expressed in terms of board measure feet represent a cut of about 36,000,000 feet. The Indians also cut a quantity of about 8,000,000 feet free of dues, for sale, and an additional quantity of 10,000,000 feet was cut by them for building, fencing, and fuel purposes.

Revenue During Year

Revenue receipts during the year were as follows:

Bonus payment of timber.....	\$ 250 00
Licence royalties and dues.....	31,198 30
Permit dues	12,951 04
Rentals of timber berths.....	1,838 60
Licence fees	149 00
Interest payments.....	362 25
Trespass dues	374 44
Total.....	<u>\$ 47,123 63</u>

Sales of timber during the year were as follows:

Dickson Island reserve, B.C., deposit.....	\$ 400 00
Dokis reserve (Berth No. 7), Ontario, deposit.....	2,000 00
Big Island (Lake of the Woods), deposit.....	300 00
Weymontachi reserve, Que., deposit.....	500 00
Quattishe reserve, B.C.....	750 00
Total.....	<u>\$ 3,950 00</u>

There were twenty timber licences current on April 1, 1937, being one more than in the previous year. Three new licences have been issued and two terminated.

MINING ON RESERVES

The revenue derived from mining activities on Indian reserves, including the removal of sand and gravel for road construction, was about the same as in the previous year, and is summarized as follows:

Royalty on mining and gravel permits..	\$1,816 65
Rentals from mining leases..	500 00
Rentals from mining permits..	3,089 95
Prospectors' fees	595 00
Compensation for Indians..	300 00
Total..	<u>\$6,301 60</u>

FOREST PROTECTION

The number of forest fires reported on Indian reserves during the year 1936 was 51, being more than twice the number that occurred in the previous year. The particularly long spell of dry weather experienced in the Province of Ontario was the contributory cause of this large increase, there being no less than 33 fires on reserves in that province.

A summary of the salient features with respect to forest fires during 1936 is shown hereunder:

Total number of fires..	51
Total area burned over..	11,224 acres
Merchantable timber area burned..	2,201 acres
Quantity of merchantable timber burned..	118,500 f.b.m.
and..	3,005 cords
Estimated stumpage value of timber lost..	\$2,776 00
Area of young growth burned..	36 acres
Estimated value of young growth burned..	\$300 00
Area of cut-over lands burned..	986 acres
Estimated value of timber burned on cut-over lands	\$500 00
Non-forested area burned..	8,000 acres
Value of other property burned..	\$3,500 00
Actual cost of fire-fighting..	\$6,049 89

Fire Classification

SIZE OF FIRES		MONTHLY OCCURRENCE		
A	Less than ½ acre.....	3		
B	½ acre to 10 acres.....	25		
C	10 acres to 500 acres.....	20		
D	Over 500 acres.....	3		
		51		
			Month	No. Area
				Acres
			May.....	2 154
			June.....	7 294
			July.....	20 2,518
			August.....	18 199
			September.....	3 8,040
			October.....	1 20
				51

CAUSE OF FIRES		LOCALITY	
Unknown..	18	Ontario..	33
Lightning..	10	British Columbia..	13
Smoking..	8	Saskatchewan..	4
Campers..	7	Quebec..	1
Indians..	4		
Brush burning..	3		
Incendiary..	1		
	51		51

No actual fire-fighting organization is maintained by the Branch, other than as represented by a few Indian fire rangers, but arrangements have been made with the various provincial governments whereby forest fires on Indian reserves are extinguished by the Provincial Forest Service, with the assistance of the Indians.

LOCATION TICKETS

During the fiscal year 1936-37 one hundred and thirty-two location tickets, granting title under the provisions of the Indian Act to individual owners, covering lands on reserves, were issued, and at the present time 3,122 such location tickets are current.

INDIAN ENFRANCHISEMENTS

Under the provisions of Section 114 of the Indian Act there were carried out during the past fiscal year 43 enfranchisements, comprising 112 men, women, and children.

TRUSTS DIVISION

INDIAN TRUST FUNDS

These are funds belonging to the various Indian bands in Canada, invested with the Dominion Government, which allows interest annually that goes to augment these funds. These moneys are derived from the sale of land and timber, from rents, etc., and from capitalized annuities. These funds are credited to 475 accounts belonging to Indian bands throughout Canada. Bands having sufficient funds to carry on necessary reserve expenditures, and showing a surplus, have cash distributions of interest money paid to them twice a year, in the spring and in the autumn.

These funds at the close of the last fiscal year amounted to \$13,997,644.13. During the year collections, including Government interest, amounted to \$1,184,797.26, and the expenditure was \$1,073,784.80.

ANNUITIES

The usual arrangements for the payment of Indian treaty annuities were made, funds being sent to forty-two Indian agents throughout Ontario, Manitoba, Saskatchewan, Alberta, and the Northwest Territories. In addition to these the annuities due under Treaty Nine in Kenora District (Patricia Portion), Ontario, were paid by an officer from headquarters, who made the trip by aeroplane from Ottawa. This officer also made an inspection of several Indian settlements in Quebec where treaty is not paid. The distance covered was approximately 3,000 miles in a total of 35½ flying hours and the trip occupied 39 days.

The total amount expended on annuities during the year was \$262,083, which includes casual amounts paid direct by cheque from Ottawa and payments made on commutations and enfranchisement.

INDIAN SOLDIER SETTLEMENT

The administration of this Act to Indian veterans has been carried out by the Department of Indian Affairs and is now administered by the Indian Affairs Branch. Loans have been made to 265 Indian settlers throughout Canada, entailing an expenditure of over \$500,000. The granting of these loans has enabled a large number of Indians to become established on the land where they and their children will become an asset to the country. The total amount of loans outstanding is \$212,980; collections during the year amount to \$8,268.

MOTHERS' ALLOWANCE

The Indian women, with dependant children, in the Province of Ontario, have been allowed the benefits of the Mothers' Allowance and approximately 100 Indians are being assisted in this manner. The Indian Affairs Branch assumes responsibility for 50 per cent of the allowance. It has been of great assistance and has enabled mothers to keep their children with them and to provide for them in a way that ensures their proper upbringing physically, morally, and intellectually.

FINANCIAL

At the close of the twelve months ended March 31, 1937, capital of the Indian Trust Fund, which at the end of the preceding year amounted to \$13,877,868.60, had increased to \$13,997,644.13.

The amounts expended from the Consolidated Revenue Fund were as follows: voted by Parliament for the purposes of the Branch, \$4,665,182.12, and annuities by statute \$245,063.

On March 31, 1937, the balance to the credit of the Indian Savings Account for the funding of the annuities and earnings of pupils at industrial schools was \$230,700.65. Deposits and interest during the twelve months aggregated \$53,416.23, and withdrawals, \$67,411.19.

SUMMARY OF INDIAN AFFAIRS BY PROVINCES AND TERRITORIES**PRINCE EDWARD ISLAND**

Agency.—There is only one agency in the province. A large number of Indians live on Lennox Island, and other parts of the province where the Indians can be found are at Rocky Point, near Charlottetown, Morell, St. Andrews, and Scotch Fort.

Tribal Origin.—The Indians in this province belong to the Micmac tribe which is of Algonkin stock.

Occupations.—On Lennox Island several of the Indians engage in farming on a small scale. Most of them own a few head of cattle and horses, but their main occupations are basket-making, fishing, and working around the different towns and villages, wherever they can find employment.

Dwellings.—A number of the Indians have fairly good homes. However, there is room for improvement as many shacks are still to be found in the different settlements. In this connection, the Branch is making an effort to improve the situation as funds become available.

NOVA SCOTIA

Agencies.—There are nineteen Indian agencies in the Province of Nova Scotia, namely: Yarmouth, Digby, Shelburne, Lunenburg, Annapolis, Kings, Queens, Windsor, Shubenacadie, Halifax, Cumberland, Colchester, Pictou, Antigonish-Guysborough, Richmond, Inverness, Victoria, Sydney, and Eskasoni.

Tribal Origin.—The Indians of Nova Scotia are of Algonkin stock, and bear the distinctive name of Micmac.

Occupations.—Very few of the Indians in this province engage in farming to any extent, but a decided effort is being made by the Indian Affairs Branch to encourage the Indians in all agencies in Nova Scotia to put in better gardens. Liberal amounts of seed, potatoes, and fertilizer have been supplied. Opportunities for employment have increased and here and there throughout the province the Indians are finding work in the lumber woods, sawmills, or as stevedores. A number of them also find work with the farmers, especially in the Annapolis Valley orchards. With increased tourist trade during the summer, the Indians are engaged as canoemen and as guides. In all agencies they manufacture baskets of all descriptions, wooden handles, hockey sticks, butter tubs, churns, barrels, etc. However, they have had great difficulty in the past in disposing of their products, but with improved economic conditions in the last year, there has been an increased demand for Indian handicraft.

Dwellings.—The homes of the Indians in most of the reserves in Nova Scotia consist of one and one-half story frame buildings, fairly well finished on the outside but not on the inside. Many shacks are to be seen at practically every agency. As few of the Indians own any live stock, barns are to be found only here and there, and these are also of frame construction.

NEW BRUNSWICK

Agencies.—There are three agencies in the Province of New Brunswick: the Northeastern, located at Richibucto; the Northern, located at Perth; and the Southwestern, located at Fredericton.

Tribal Origin.—Most of the Indians of New Brunswick belong to the Micmac race, which is of Algonkin stock. In addition to these there are some bands of Malecites, also of Algonkin stock.

Occupations.—The Indians of New Brunswick are among the least progressive in the Dominion. Their farming operations are restricted mostly to the growing of potatoes for their own use. Formerly they derived a substantial income from hunting and trapping, but in later years this has dwindled to an almost negligible amount owing to the scarcity of fur-bearing animals. A considerable number find employment in the lumber camps and others as day labourers. In the southern part of the province the Indians are engaged commercially in the manufacture and sale of Indian wares.

Dwellings.—The dwellings of the Indians in New Brunswick for the most part are small, of poor construction, and indifferently kept. In recent years, however, the Branch has been endeavouring to improve the situation, both by assisting in the repair of existing houses and, in some cases, providing new ones.

QUEBEC

Agencies.—The following agencies are included in the Province of Quebec: Bécancour, Bersimis, Caughnawaga, Gaspé, Pointe Bleue, Lorette, Maria, Mingan, Oka, Maniwaki, Restigouche, Seven Islands, St. Augustin, St. Regis, Pierreville, Timiskaming, and Cacouna.

Tribal Origin.—The principal tribes found in Quebec are: Iroquois at Caughnawaga, Lake of Two Mountains, and St. Regis; the Hurons of Lorette are also of Iroquoian stock; the Montagnais, who are of Algonkin stock, at Bersimis, Mingan, Lake St. John, Seven Islands; the Abenakis, also of Algonkin stock, at Bécancour and St. Francis; the Micmacs, also of Algonkin stock, at Maria and Restigouche; and the Malecites, also of Algonkin stock, at Viger.

Occupations.—In the agricultural districts of the province the Indians engage in mixed farming. In Gaspé Peninsula they find employment in the lumber camps and mills, but on the north shore of the gulf, fishing, hunting, and trapping are still the principal sources of income. In the northern part of the province lumbering is the chief pursuit. One of the principal industries of the Indians of Quebec is making baskets, and many of them spend the summer months at the resorts in order to dispose of the baskets, lacrosse sticks, racquets, moccasins, and other articles to the tourists. Some of them, particularly in the Saguenay district, act as guides and canoeemen. The Indians of the large Caughnawaga reserve situated near Montreal are expert steel workers and find highly profitable employment when building operations are active.

Dwellings.—In the older settled districts of the province many of the Indians own stone, brick, or frame houses of good construction, comfortable and sanitary. In the more remote districts, where hunting and trapping are still the principal occupations, the Indians necessarily live in tents during a great part of the year.

ONTARIO

Agencies.—The Indian agency offices in Ontario are located as follows: Brantford (Six Nations), Cape Croker, Chapleau, Chippawa Hill (Saugeen), Christian Island, Deseronto (Tyendinaga), Fort Frances, Gore Bay, Highgate (Moravians), Kenora, Longford Mills (Rama), Manitowaning, Moose Factory, Muncey (Caradoc), Parry Sound, Peterborough (Rice and Mud Lakes), Port Arthur, Port Perry (Scugog), Golden Lake, Sarnia, Sault Ste. Marie, Sutton West (Georgina and Snake Island), Sturgeon Falls, Thessalon, and Walpole Island.

Tribal Origin.—Most of the Indians of Ontario are Ojibwas, and are of Algonkin stock. The Oneidas of the Thames, the Mohawks of the Bay of Quinte, the Mohawks of Parry Sound district, and the Six Nations of Grand River, are of Iroquoian stock. There is a band of Pottawattamies at Walpole Island, and Delawares at the Caradoc (Muncey) Agency; these are of Algonkin stock.

Occupations.—The Indians in the southern, western, and central parts of Ontario engage largely in farming. The reserves are generally well suited for this purpose. During the years of depression, owing to the lack of funds, very little new equipment was purchased. For that reason the Branch has been unable to start beginners in farming and stock raising. However, some extra assistance has been given to all agencies and a start has been made with good results at the Muncey Agency where an experienced farming instructor has been engaged. Many horses and implements have also been supplied to the Indians. An experienced farming instructor has been appointed at the Six Nations Reserve at Brantford and some equipment has been supplied to beginners to bring more land under cultivation. Wherever assistance is given, the Indians respond extremely well.

A special representative of the Indian Affairs Branch supervises the farming operations of the Indians in central and western Ontario. He organizes Indian agricultural societies wherever farming is carried on, and holds a short course in agriculture; and also in domestic science and dietetic work for girls and young women. These courses are well attended and have proved very popular among the Indians, and great interest is shown by the young people, as well as by the old people. At the annual meeting of the different agricultural societies, as well as during the time the courses are held, there are lectures by outside speakers, who have voluntarily given their services, especially from the Agricultural College at Guelph and from the Provincial Department at Toronto. This work has stimulated the interest of the Indians a great deal.

During the summer months Indians find a profitable source of income as guides and canoemen. Others are employed at various industries and trades. The Indians are proficient bushmen and many find employment in the various lumber camps. There is still a market for snow-shoes, canoes, and moccasins, and these are usually manufactured by the older members of the community, although in some areas successful efforts have been made to engage the younger generation in these distinctive Indian pursuits.

The women also find sources of income; some are employed as domestics; others support themselves by making baskets and fancy work. In certain districts berry-picking is an important item and furnishes considerable income. In the more settled districts many of the Indians own houses of brick, stone, or modern frame construction, and on some reserves both houses and farm buildings are comfortable and well built. In the outlying and more remote parts the old type of log house still predominates and tents and teepees are used during the summer months.

New Ontario.—In the remote parts of Ontario hunting and fishing are still the chief sources of livelihood. Acting as guides and canoemen during the summer months adds considerably to the income of the Indians. Although agriculture is not carried on to any extent, most of the bands grow considerable crops of potatoes and vegetables. They are, of necessity, more or less nomadic and, consequently, live in tents most of the year.

MANITOBA

Agencies.—The following agencies are included in the Province of Manitoba: Birtle, Clandeboye, Fisher River, Griswold, Portage la Prairie, Manitowapah, Norway House, The Pas, Fort Churchill, York Factory, and Port Nelson.

Tribal Origin.—Most of the Indians of Manitoba belong to the Ojibwa race, which is of Algonkin stock. Bands of Swampy Crees are found at the Norway House and Fisher River Agencies and in the York Factory district; these are also of Algonkin stock. The Indians located at the Griswold Agency are Sioux; there are also Sioux at the Birtle and Portage la Prairie Agencies. There is a band of Chipewyans at Churchill; this tribe is of Athapaskan stock.

Occupations.—The reserves in Manitoba suitable for extensive agriculture are mainly within the Birtle, Griswold, Portage la Prairie, and Clandeboye Agencies.

In the northern agencies the chief occupations of the Indians are hunting, trapping, and fishing. Many of the northern Indians are expert guides and canoe-men. They are employed by sportsmen and to some extent by the transport and fur companies, but their main source of revenue is from trapping and fishing.

A great many of the Indians from around Lake Manitoba and Lake Winnipeg come south in the summer and work in the harvest fields in the farming communities in this province. The women also derive considerable revenue from the sale of moccasins and gloves, which are made from tanned moose and deer hides. The women do the tanning, and most of them are expert needlewomen.

Farming and Stock Raising.—The Indians in the southern part of the province, wherever the land is suitable, are engaged in farming and stock raising. They also own a great many cattle on the reserves around Lake Manitoba. The farming Indians, however, have had many disappointments in the last few years from partial crop failures owing to drought.

Dwellings.—On most reserves in Manitoba fairly good log homes are to be found. They are one and one-half stories high with shingle roof. Most of these homes are whitewashed every year, which improves the sanitation. There are also quite a number of houses of frame construction to be found on all the reserves. In the extreme north, of course, the homes are more primitive.

SASKATCHEWAN

Agencies.—The following agencies are included in the Province of Saskatchewan: Battleford, Carlton, Crooked Lakes, Duck Lake, File Hills, Onion Lake, Pelly, Qu'Appelle, and Touchwood.

Tribal Origin.—The most numerous tribes among the Saskatchewan Indians are the Ojibwas, Swampy Crees, and Plains Crees, which all belong to the Algonkin stock. In addition to these, Sioux Indians are found at the Crooked Lakes, Qu'Appelle, and Carlton Agencies, and on the Moose Woods reserve. In the Onion Lake Agency there is a band of Chipewyans, who are of Athapaskan stock. There are also a few Chipewyan Indians in the Ile à la Crosse district.

Occupations.—The principal occupations of the Indians of Saskatchewan are farming and stock raising, and farming instructors are employed on most of the reserves in this province to instruct the Indians in agricultural pursuits. There is quite a large acreage under crop in practically every agency. Many of the Indians also own a number of cattle of a very good type, principally of Shorthorn breed. They are well equipped with implements and own a number of horses,

as farming is carried on by horse-power. Their crops, however, have suffered greatly from drought in the last few years. Last autumn most of the agencies had fair crops, although not heavy, with the exception of Battleford where everything was destroyed by hot winds and drought.

Other Occupations.—Wherever there are fur-bearing animals to be found the old Indian still carries on his former pursuit, and the Indians in the extreme north still make their living from hunting and fishing.

Dwellings.—On most of the reserves in this province the Indians are fairly well housed, the homes being usually of log construction with shingle roof. These houses are very comfortable if properly cared for. Here and there there are also to be found a few homes of frame construction and also the old Indian hut, but there are not very many of this type as the Branch has endeavoured to replace them with better homes in the last few years. The Indians in the extreme north move about and their homes when they are out on the hunting grounds consist in winter of an old log cabin with a sod roof, and tents in the summer.

ALBERTA

Agencies.—The following agencies are included in the Province of Alberta: Blackfoot, Blood, Edmonton, Hobbema, Peigan, Saddle Lake, Sarcee, Stony, Lesser Slave Lake, and Athabaska.

Tribal Origin.—The Alberta Indians are of Algonkin stock, with the exception of the Sarcees near Calgary and the Beavers and Slaves in the Lesser Slave Lake Agency, who are Athapaskan, the Paul's band in the Edmonton Agency, who are Iroquoian, and the Stonies, who are of Siouan stock. The Algonkin Indians of Alberta are subdivided into Blackfoot Nation, comprising the Indians of the Blackfoot, Blood, and Peigan Agencies; Plains Crees found in the Lesser Slave Lake, Saddle Lake, Edmonton, and Hobbema Agencies.

Occupations.—The principal occupations of the Indians in Alberta are farming and stock raising. The farming Indians in this province are very well equipped with machinery and horses to carry on their work, as the Indians in the south own large herds of horses. There has been a great improvement in their method of farming in the last 10 years. It has always been difficult to get the Indians to do their summer fallowing properly, but the last few years have taught them that if they expect a crop the following year the land must be summer fallowed properly to eradicate weeds and preserve moisture.

The Indian cattle herds in this province are of a very good type and many bring a premium on the market. The breeds are principally Shorthorn and Hereford with a few Aberdeen Angus. The Indians, also, in good years, derive a considerable revenue from the sale of hay, especially in the north. The summer of 1936 was very disastrous to the Indian farmers and stock raisers in Alberta. The reserves south of Calgary were completely dried out and to meet the situation a special grant was provided by the Government to purchase feed for cattle and food and clothing for the Indians, where it was found necessary. It is of interest to note that all the hay required was purchased from the Indians in the Hobbema Agency.

In the northern portions of the Athabaska and Lesser Slave Lake Agencies the Indians are still hunters and make their living from that source. The Indians in other parts of the province derive considerable revenue also from fishing, working for white farmers and stockmen, and from the sale of wood. The Blackfoot Indians, during the winter, derive a large revenue from their coal mines which they operate themselves under the supervision of a white miner.

Dwellings.—The Indians in this province practically all own good homes. On the Blackfoot Reserve every family has a fair house of good construction and good barns. Frame houses and barns are also to be found on the Sarcee reserve south of Calgary and on the Edmonton reserve. On the other reserves the homes are mostly of log construction with shingle roofs, but there are also quite a number of frame houses belonging to more prosperous Indians. On the whole, the homes are good and fairly well kept, many of them being well furnished.

BRITISH COLUMBIA

Agencies.—The following agencies are included in the Province of British Columbia: Babine, Bella Coola, Cowichan, Kamloops, Kootenay, Kwawkewlth, Lytton, New Westminster, Nicola, Okanagan, Queen Charlotte, Skeena, Stikine, Stuart Lake, Vancouver, West Coast, Williams Lake, and Fort St. John, the latter agency having been established to serve the needs of the Indians of the Peace River Block.

Tribal Origin.—The Indians of the Bella Coola, Cowichan, Kamloops, Lytton, New Westminster, Nicola, Vancouver, and Okanagan Agencies belong to the Salish tribes. The Kootenay tribe is located in the agency of the same name. The Kwakiutl-Nootka tribe is located at the Kwawkewlth and West Coast Agencies; the Haidas, in the Queen Charlotte Islands; the Tlingits, in the Stikine; and the Tsimshians in the Skeena Agency. The Indians of the Babine, Stuart Lake, and Williams Lake Agencies belong to the Athapaskan race.

The Indians of the Peace River Block are Athapaskan, with the exception of a small group of Saulteaux and Crees at Moberly Lake who are Algonkin.

Occupations.—Most of the Indians of Vancouver Island and the mainland coast derive their living by fishing. Many of them own power-boats and up-to-date fishing equipment and either fish independently or by contract with the canneries. The main source of their annual revenue is from the summer salmon fishing. The fishing season at Rivers Inlet and other points along the coast was completely lost to the Indians during the year because of a strike of the white fishermen, engineered from Vancouver, over 100 Indian boats being affected. The Indians sensibly decided that they did not wish to participate in the strike as they would lose more by the loss in catch than they could make up by any forced advances in prices. The Indians informed the cannery authorities of their decision and asked to be allowed to fish. The canneries, however, would not issue nets to the Indians, which had been the custom for some years, because they were afraid the strikers would devise some means of destroying them. As the nets usually cost \$130 apiece, the caution of the canneries in the issuing of nets can be understood. Unfortunately the usually heavy run of salmon last year was lost to many of the Indians who had to be assisted home from the fishing grounds. Steps have been taken to provide police protection for our Indian fishermen now congregating at the fishing grounds.

Generally speaking, the year was not marked by much progress in farming, indeed the results were less encouraging than in 1935. This was mainly due to the exceptionally low prices for cattle during the greater part of the selling period. In December prices showed more improvement, but as the winter had set in, it was then impossible to get the cattle to the railhead because of the long drives over snow-covered roads. The unusually long and severe winter added to the difficulties of the Indian farmers and although the Branch was prompt and generous in considering assistance, the losses among the cattle from undernourishment were considerable.

The policy of the Indian Affairs Branch in assisting the Indians to improve their herds through the purchase of high-grade breeding stock has been productive of good results and is reflected in the more ready acceptance of Indian cattle for the market by the larger cattle buyers.

Progress is being made in the extension of fruit growing and the cultivation of a greater acreage for the production of garden crops.

The re-employment of Indians in industrial activities showed some improvement, and although preference largely continues to be given to unemployed whites, it is encouraging to note the increasing number of Indians securing employment.

Dwellings.—The best Indian houses in British Columbia are found on the northwest coast among the Haidas of Queen Charlotte Islands, the Tsimshians of Port Simpson, Metlakatla, and Port Essington, and the Kwakiutls of Bella Bella. These Indians appear to have a natural bent for carpentry and housing architecture. Without departmental assistance, they build from their own plans commodious bungalows of the most modern type, well finished inside and out, that would be a credit to a prosperous suburb of any large city. The Indians of the west coast of Vancouver Island also have roomy, well-ventilated, and well-kept houses, although of a less pretentious character than in the first-mentioned locality.

These Indians were accustomed to dwell in large community houses and this may account for the unusual size and height of the rooms in their modern homes. The women of these more northerly coast villages are experienced housekeepers and maintain a high standard of neatness and cleanliness.

Strangely the Salish Indians of the southern British Columbia Coast in the vicinities of the larger cities of Vancouver and Victoria, and who have been in closer touch with civilization, are backward and unprogressive in their housing conditions in comparison with the north coast Indians above mentioned. Indeed the houses of the Indians of the south coast are for the most part little better than shacks and show little evidence of care or good housekeeping. There are, of course, exceptions in the case of a few progressive Indians who have good homes. The general standard, however, is low.

In the farming districts of the central and lower mainland, housing conditions among the Indians are fairly good, although even here their dwellings are not to be compared with those on the north coast.

In the northern interior the Indians still dwell in primitive shacks and tepees.

NORTHWEST TERRITORIES

Agencies.—The Indian Affairs Branch now has three agencies in the Northwest Territories, namely: Fort Simpson, Fort Resolution, and Fort Good Hope.

Tribal Origin.—The principal tribes found in the far north are the Slave, Hares, Loucheux, Sekani, Dogribs, Yellow Knives, Chipewyans, and Caribou Eaters. All these tribes are of Athapaskan stock. The most northerly tribes are the Takudah, who extend to the Mackenzie Delta; and the Copper Mines, who are located along Coppermine River. The territory occupied by these two last-named tribes is contiguous to that inhabited by the Eskimos.

Occupations.—The Indians depend almost entirely upon hunting and trapping for a livelihood. Here and there some cultivate small plots of potatoes. They own no cattle or horses, their mode of transportation being by boat, usually, along the great waterways in the summer, and with dogs in the winter. They catch and preserve large quantities of fish for their own use and for food for the dogs during the winter. They also pick and dry large quantities of different kinds of berries for winter use.

The Church of England, during the last year, erected a boarding school, hospital, and church at Aklavik. These were of frame construction, and it might be of interest to outsiders to know that all the work performed on these buildings was done by Indians from McPherson, in the Fort of Good Hope Agency. An experienced carpenter was sent up by the Church of England authorities from the east and under his supervision the Indians were trained to do the necessary labour. From information received by the Branch, the Indians quickly became expert carpenters. Most of the furniture, as well, was manufactured by the Indians.

Dwellings.—The Indians live in log cabins in winter, using tents and tepees during the summer.

YUKON

Tribal Origin.—The Forty-Mile, Blackstone, and Moosehide bands belong to the Takudah tribe. There is a band of Slaves at Lancing Creek who migrated from Good Hope on Mackenzie River; another band of Slaves, called Nahani, is located at the headwaters of Pelly River. All these Indians are of Athapaskan stock. At Mayo, Selkirk, Little Salmon, and Carmacks there are bands belonging to the tribe known as Stick Indians. Bands belonging to the Tlingit tribe are found at Whitehorse, Teslin Lake, Champagne Landing, and Carcross.

Occupations.—Hunting, trapping, and fishing are the chief occupations of the Yukon Indians. The women also derive some revenue from the sale of moccasins and curios of various kinds, and the men are expert at making toboggans and snow-shoes. Practically no farming is carried on owing to climatic conditions, but some of the Indians cultivate patches of potatoes and other vegetables for their own use.

Dwellings.—The Indians of the Yukon live in log cabins.

TABLE 1

Recapitulation: Census of Indians—Arranged under Provinces, 1934

PROVINCES	Number in Province	Religions							Under 7 Years		From 7 to 16 Inclusive		From 17 to 21 Inclusive		From 22 to 65 Inclusive		From 65 Years Upwards	
		Anglican	Baptist	United Church	Presbyterian	Roman Catholic	Other Christian Beliefs	Aboriginal Beliefs	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Alberta.....	10,900	1,607		1,440		7,718		135	1,116	1,238	1,277	1,221	601	513	2,233	2,124	259	318
British Columbia.....	23,598	4,761		4,495		13,492	701	149	2,148	2,260	2,762	2,755	1,023	1,024	5,213	4,803	807	803
Manitoba.....	12,958	4,511	52	3,881	574	3,510	239	191	1,212	1,134	1,497	1,345	851	742	2,667	2,785	322	403
New Brunswick.....	1,734					1,734		165	173	208	193	92	89	401	333	39	41	
Northwest Territories.....	3,854	632				3,222		355	428	439	408	262	183	812	888	31	48	
Nova Scotia.....	2,093		1			2,091	1	178	177	210	235	134	117	466	427	83	66	
*Ontario.....	30,631	9,995	1,170	5,530	261	10,308	714	2,653	2,012	2,046	2,618	2,576	1,868	1,857	5,898	5,923	829	842
Prince Edward Island.....	224					224		21	27	26	29	5	10	46	48	7	5	
Quebec.....	13,281	2,546		555		9,885	183	112	1,334	1,252	1,406	1,441	753	732	2,940	2,696	350	377
Saskatchewan.....	11,878	3,904		1,111	165	5,637		1,061	1,288	1,347	1,313	1,330	575	502	2,351	2,507	289	376
Yukon.....	1,359	1,282				12		65	121	173	134	150	87	87	273	239	47	48
Total Indian population.....	112,510	29,238	1,223	17,012	1,000	57,833	1,838	4,366	9,950	10,255	11,890	11,683	6,251	5,856	23,300	22,773	3,063	3,327

*No details as to religion of 4,162 Indians available.

NOTE.—2,500 Nomadic Indians in British Columbia and 609 Nomadic Indians in Northwest Territories, formerly shown, have been omitted from this census as they have now become absorbed in the different agencies of these provinces.

TABLE 2
Grain, Vegetable, and Root Production

Agencies	Wheat		Oats		Other Grains		Peas, Beans, etc.		Potatoes		Other Roots		Fodder—Tons		
	Acres Sown	Bushels Harvested	Acres Sown	Bushels Harvested	Acres Sown	Bushels Harvested	Acres Sown	Bushels Harvested	Acres Sown	Bushels Harvested	Acres Sown	Bushels Harvested	Hay Cultivated	Hay Wild	Other Fodder
ALBERTA															
Athabaska.....									16½	1,145	1½	60	25	145	20
Blackfoot.....	4,762	13,304	2,084	587					7	598				1,073	1,281
Blood.....	4,359	4,185	1,013		190	16			15		5		10	900	250
Edmonton.....	311	4,496	1,904	44,741	717	15,305			22	2,854			30	5,538	495
Hobbema.....	1,407	19,323	2,972	61,843	359	5,123	17	1,010	20	4,662	2½	450		8,245	310
Lesser Slave Lake.....	117	2,143	376	11,143	13	340			38	1,740	12	480		3,687	223
Peigan.....	1,703	268	150						5				10	602	123
Saddle Lake.....	981	6,085	1,151	9,948	38	745			18	2,233	7	255	45	4,242	765
Sarcee.....	614	1,462	385						13	116				410	100
Stony.....			265								10			400	
Total.....	14,254	51,266	10,360	128,262	1,317	21,529	17	1,010	154½	13,348	38	1,245	120	25,242	3,567
BRITISH COLUMBIA															
Babine.....			350	510					195	8,500	85	2,800	370	540	600
Bella Coola.....									39	2,455	2	100	50	700	
Cowichan.....	81	2,475	323	10,120	82	2,450			208	4,160	1	30	1,428		
Fort St. John.....									15	100	2	50			60
Kamloops.....	202	3,700	335	8,950	45	325	40	400	109	4,280	28	1,490	1,800	325	75
Kootenay.....	39	110	371						19	2,290	5	300	632	470	72
Kwawkewith.....									6	407					
Lytton.....	70	1,375	133	2,980	17	320	230	3,675	201½	17,535	40½	971	434	2	92
New Westminster.....	20	326	204	9,250	22	885	34	2,535	140	9,030	49	3,650	430	129	
Nicola.....	119	2,475	394	10,090	12	295	21½	505	130	13,800	9	550	5,154	745	40
Okanagan.....	3,580	91,250	855	22,150	175	3,875	175	6,350	535	88,275	220	35,225	5,375	1,520	255
Queen Charlotte.....									20	730	½	40		1	
Skeena River.....			6				2	145	163	12,725	9½	635	20	48	
Stikine.....															
Stuart Lake.....			348	500					74½	2,560	30	1,350	332	728	337
Vancouver.....			2		2		11	365	36	3,400	13	975	6	8	
West Coast.....			4	8	12	368	10	238	13	627	8	234	30		44
Williams Lake.....	41	1,365	171	7,755					111	7,235	69		2,425	3,100	
Total.....	4,152	103,076	3,496	72,313	367	8,518	523½	14,213	2,015	178,109	571½	48,400	18,486	8,406	1,575
MANITOBA															
Birtle.....	212	1,415	415	4,220	279	1,692			12½	360	3	130	37	2,645	10
Clandeboye.....	465	1,715	215	1,700					46½	873			25	959	
Fisher River.....	2	33	315	9,971	2	22			66	2,227				5,512	30
Fort Churchill.....															
Griswold.....	364	4,345	274	3,735	336	2,570	30½	346	7	290	2	100		837	330

47398-143

Manitowapah.....			5	90					81	1,971	7	150	10	8,148		
Norway House.....									81	7,005	2	105		400		
The Pas.....			18						85	5,175				3,080	31	
Portage la Prairie.....	540	5,286	496	4,139	797	7,760			18	578	1½	20	14	512		
Port Nelson.....									2							
Total.....	1,583	12,794	1,787	23,855	1,414	12,044	30½	346	407	18,479	16½	505	86	22,098	401	
NEW BRUNSWICK																
Northern Division.....	2	30	4	100			2½	50	7	1,200	1	175	45			
Northeastern Division.....			101	780	17	165	6	85	51	1,300	11	850	90	21	7	
Southwestern Division.....							1	19	7	410	1	25	4½			
Total.....	2	30	105	880	17	165	9½	154	65	2,910	13	1,050	139½	21	7	
NORTHWEST TERRITORIES																
Fort Good Hope.....																
Fort Resolution.....							1	20	13	140						
Fort Simpson.....									29½	1,001	14	519	1	53	6	
Total.....							1	20	42½	1,141	14	519	1	53	6	
NOVA SCOTIA																
Annapolis.....							½	7	3½	250	1	60	2			
Antigonish and Guysborough.....			2	47			2½	43	8½	225	3	70	14	3	3	
Cape Breton (Eskasoni).....			2½	45	3	30	2	25	10	300	2	50	40	6	3	
Cape Breton (Sydney).....								30		400		215	4	4		
Colchester.....			3				½		4	400	½	50	7		3	
Cumberland.....			½	4			1	10	7½	150						
Digby.....									4	200			4			
Halifax.....			6½	193			1	10	7	220	2½	100	25	5		
Hants (Indian Brook).....			6	150			¾	20	5	300	1	50	10	5		
Hants (Windsor).....									½	20						
Inverness.....			4	70			¾	14½	15½	870	½	70	11	19	4	
Kings.....									½	15			1			
Lunenburg.....									½	30						
Pictou.....							¾	4	3½	340	½	46				
Queens.....									¾	30						
Richmond.....			7	140			½	7	10	500	1	100	40	2	12	
Shelburne.....							¼	3	½	75	½	50	6			
Victoria.....			2				1	30	17	625	1	40	40	80	12	
Yarmouth.....																
Total.....			33½	649	3	30	11½	207	102½	4,940	14	901	204½	124½	37	
ONTARIO																
Alnwick.....			400	6,000	85	1,200			20	2,000	3	1,000	150	30		
Cape Croker.....	36	648	28	499	21	374	20	487	58	1,026	17	257	426	58	13	
Carodoc.....	72½	1,004	338½	6,863	96	993	243	4,504	111	6,495	48	1,677	1,041½	14	188½	
Chapleau.....									13½	670						
Christian Island.....	8	6	150	400	25	200	25	200	50	500	40	200	250			
Fort Frances.....	40	115	51	850	80	400			23	1,075	1	126	378	92		

TABLE 2—*Conc.*
Grain, Vegetable, and Root Production—Conc.

Agencies	Wheat		Oats		Other Grains		Peas, Beans, etc.		Potatoes		Other Roots		Fodder—Tons		
	Acres Sown	Bushels Harvested	Acres Sown	Bushels Harvested	Acres Sown	Bushels Harvested	Acres Sown	Bushels Harvested	Acres Sown	Bushels Harvested	Acres Sown	Bushels Harvested	Hay Cultivated	Hay Wild	Other Fodder
ONTARIO—Concluded															
Georgina Island.....	8	120	40	900	5	50	1		5	150	2	185	25	5	7
Golden Lake.....			31	200			8	20	8	600	3	100	15	15	
Gore Bay.....	12	270	184	2,700	31	635	33	530	66	2,710	7	240	212	8	37
James Bay.....										800					
Kenora.....									57	3,170	13	250	44	305	
Manitowaning.....	111	560	487	5,060	95	855	94	254	343	2,940	31	219	2,860	35	75
Moravian.....	20	439	75	1,501	160	1,528	35	525	30	1,850	5	125	200	40	200
New Credit.....	24	480	360	7,200	75	1,150	8	160	6	240			100	120	110
Parry Sound.....			149	4,161	25	360	36	370	173	2,315	32	960	575	12	
Port Arthur.....			1						91	1,838	17	185	35	11	
Rama.....	9	90	91	1,820	39	550	1	20	5	100	1	50	95	3	
Rice Lake.....	40	800	100	1,500	50	750	40	200	50	4,000	22	1,300	140	10	20
Sarnia.....	90	1,800	230	6,700	65	925	40	400	75	3,750	25	750	200		70
Saugeen.....	16	250	355	4,600	66	850	16	280	76	1,600	19	450	110	14	75
Sault Ste. Marie.....	5	30	73	1,295			40	300	130	2,080	55	530	69	35	
Savanne.....									43	3,400	14	300		45	
Seugog.....									2	125					
Six Nations.....	850	17,000	13,200	61,500	1,512	7,500	101	1,560	190	5,800	240	8,200	3,900		6,200
Sturgeon Falls.....			22	440	9	180	5	200	17	1,450	12	210	30	25	
Thessalon.....	1	12	95	760	23	165	7	100	95	3,450	5	124	405	43	
Tyendinaga.....	80	1,600	1,900	67,200	800	2,500	70	1,300	40	1,200	5	475	2,500	30	3,000
Walpole Island.....	80	1,880	139	5,415	21	607	34½	412	80	4,665			21	847	
Total.....	1,502½	27,194	18,497½	187,564	3,283	21,772	866½	11,882	1,856½	60,299	617	17,913	13,781½	1,797	9,995½
PRINCE EDWARD ISLAND.....															
	2	25	40	680					9	725	½	125	40	7	
QUEBEC															
Bécancour.....			18	275	1	20	1	14	4	240			25		1
Bersimis.....			14	75					10	270	2	6	87		
Cacouna.....	3	27	25	515	16	235	1	13	20	2,700	7	495	900		
Caughnawaga.....	4	43	396	6,732	82	1,900	23	260	205	3,450	19	410	1,000	8	7
Jeune Lorette.....															
Maniwaki.....			139	2,511	1	12			29	2,400	3	780	314	13	71
Maria.....	1	8	17	430	3	35	1	20	20	760	2	37	17		5
Mingan.....															
Oka.....			100	2,000	40	450	15	200	60	840			300	30	80
Pierreville.....			25	175	4	60	4	25	25	400			50	60	
Pointe Bleue.....	22	190	136	1,340	168	1,560	5	48	26	787	6	32	170		16
Restigouche.....	2	6	135	1,100	5	15	1	3	32	800			15	45	

Seven Islands.....									4	80						
St. Regis.....	12	96	425	7,338	231	3,818	69	381	176	5,087	33	275	1,650	295	350	
Timiskaming.....	12	50	60	250	10	50	8	25	10	300	1	50	80	25		
Total.....	56	420	1,490	22,741	560	8,155	128	989	621	18,094	73	2,085	4,608	421	555	
SASKATCHEWAN																
Battleford.....	1,495	2,394	1,861	1,209					99	1,169	49	214		2,892	328	
Carlton.....	1,810	12,678	952	7,947	201	1,534			47	2,116				4,301	62	
Crooked Lakes.....	1,498	13,752	1,581	10,503	122	584			20	678				4,364	82	
Duck Lake.....	1,080	5,770	978	8,500	62	526			26	2,222				4,760	347	
File Hills.....	916	10,707	1,198	23,998	20	397			20	1,950				2,402	127	
Moose Woods.....	84	445	55	50					15					773	6	
Onion Lake.....	704	7,230	472	7,466	3	20			35	2,625	23	500		6,075	163	
Pelly.....	585	9,971	1,249	34,157	354	4,644			14	1,592	10	360		2,247	63	
Qu'Appelle.....	2,355	23,618	1,173	11,521	151	492			53	1,203				3,716	389	
Touchwood.....	1,020	9,141	1,078	12,582	140	680			36	845				3,813	321	
Wood Mountain reserve.....	109	960					1	10	3	30	2	8			110	
Total.....	11,656	96,666	10,597	117,841	1,053	8,877	1	10	368	14,430	84	1,082		35,343	1,998	
YUKON TERRITORY																
Yukon.....									1½	100	1	26		30		

RECAPITULATION

PROVINCES																
Alberta.....	14,254	51,266	10,360	128,262	1,317	21,529	17	1,010	154½	13,348	38	1,245	120	25,242	3,567	
British Columbia.....	4,152	103,076	3,496	72,313	367	8,518	523½	14,213	2,015	178,109	571½	48,400	18,486	8,406	1,575	
Manitoba.....	1,583	12,794	1,737	23,855	1,414	12,044	30½	346	407	18,479	15½	505	86	22,093	401	
New Brunswick.....	2	30	105	880	17	165	9½	154	65	2,910	13	1,050	139½	21	7	
Northwest Territories.....							1	20	42½	1,141	14	519	1	53	6	
Nova Scotia.....			33½	649	3	30	11½	207	102½	4,940	14	901	204½	124½	37	
Ontario.....	1,502½	27,194	18,497½	187,564	3,283	21,772	866½	11,882	1,856½	60,299	617	17,913	13,781½	1,797	9,995½	
Prince Edward Island.....	2	25	40	680					9	725	½	125	40	7		
Quebec.....	56	420	1,490	22,741	560	8,155	128	989	621	18,094	73	2,085	4,608	421	555	
Saskatchewan.....	11,656	96,666	10,597	117,841	1,053	8,877	1	10	368	14,430	84	1,082		35,343	1,998	
Yukon Territory.....									1½	100	1	26		30		
Total.....	33,207½	291,471	46,355½	554,785	8,014	81,090	1,588½	28,831	5,642½	312,575	1,441½	73,851	37,466½	93,587½	18,141½	

TABLE 3

Land: Private and Public Buildings and Property

RECAPITULATION

Provinces	Total Area of Reserve (Acres)	Acres under Wood	Acres Cleared but not Cultivated	Acres under Actual Cultivation	Acres Fenced	Private Property							Public Property						
						Stone, Brick, and Frame Dwellings	Other Dwellings	Outbuildings, etc.	Ploughs, Harrows, Drills, etc.	Mowers, Reapers, Binders, Threshers, etc.	Carts, Wagons, and Vehicles	Automobiles	Tools and small Implements	Churches	Council Houses	School Houses	Sawmills	Other Buildings	Engines and Machinery
Alberta.....	1,273,644	401,925	807,097	64,622	410,570	398	1,857	2,537	2,309	1,495	2,466	57	9,216	9	9	8	1	128	280
British Columbia.....	789,255	461,471	291,285	36,499	287,930	4,340	2,835	4,180	2,852	963	2,261	455	34,446	160	62	49	9	61	148
Manitoba.....	481,162	330,107	142,558	8,497	51,917	139	2,801	1,838	853	651	1,391	41	8,123	57	13	44	1	95	42
New Brunswick.....	37,752	36,161	1,227	364	1,135	360	35	185	66	20	74	16	1,110	6	5	10	.....	1	1
Northwest Territories.....	1,574	1,470	40	64	47	.....	794	183	2	.....	.....	.....	2,335	.....	1	.....	.....	.....	.....
Nova Scotia.....	19,656	16,415	2,322	919	1,881	412	76	164	101	27	113	20	982	11	2	9	1	5	6
Ontario.....	1,021,334	875,711	93,554	52,069	143,434	2,320	2,290	6,072	4,685	1,351	4,002	456	49,005	98	36	34	8	95	129
Prince Edward Island.....	1,668	1,457	23	188	188	37	7	20	13	9	8	.....	110	1	1	1	.....	1	5
Quebec.....	193,721	165,022	17,567½	11,131½	14,567	1,390	354	2,253	635	288	1,328	99	5,500	14	5	24	.....	29	29
Saskatchewan.....	1,272,665	494,618	739,462	38,585	325,602	167	2,137	2,778	2,361	1,737	2,864	68	14,607	35	17	23	3	58	73
Yukon Territory.....	160	152	5½	2½	5½	1	1	4	2	2	4	.....	.....	1	.....	1	.....	.....	4
Total.....	5,092,591	2,784,509	2,095,141	212,941	1,237,276½	9,564	13,287	20,214	13,379	6,543	14,511	1,212	125,434	392	151	253	23	473	717

TABLE 4
Live Stock and Poultry: General Effects

RECAPITULATION

Provinces	Horses			Cattle				Other Stock	Poultry	General Effects					
	Stallions	Geldings and Mares	Foals	Bulls	Steers and Work Oxen	Milch Cows	Young Stock	Pigs, Sheep, etc.		Motor and Sail Boats	Row Boats and Canoes	Rifles and Shot Guns	Steel Traps	Nets	Tents
Alberta.....	490	8,579	782	185	1,893	5,029	4,055	397	5,675	201	626	2,205	17,721	2,062	2,077
British Columbia.....	189	7,894	1,208	276	4,904	2,319	4,182	3,735	23,792	1,412	3,156	8,401	74,552	2,145	2,125
Manitoba.....	3	1,494	40	63	672	2,015	1,053	414	6,215	103	1,925	3,506	55,865	5,714	1,741
New Brunswick.....		9			2	28	24	24	415	30	165	273	1,341	182	54
North west Territories.....	3	30	7							112	832	2,002	20,140	2,128	714
Nova Scotia.....	1	41	2	7	10	109	51	100	610	18	76	256	1,637	26	23
Ontario.....	36	2,573	232	93	540	2,861	1,776	4,013	36,562	393	2,947	5,632	92,106	4,531	2,155
Prince Edward Island.....		6				10	9	2	86	3	8	7	55	27	
Quebec.....	2	559	49	133	2	1,665	625	770	6,200	66	1,177	1,798	19,559	667	866
Saskatchewan.....	14	4,543	101	118	1,318	3,681	2,216	771	9,175	38	492	2,464	33,847	1,288	2,018
Yukon Territory.....		4				4	3	2	30	1					2
Total.....	738	25,732	2,421	875	9,341	17,721	13,994	10,228	88,760	2,386	11,454	26,544	316,823	18,770	11,775

TABLE 5

Value of Real and Personal Property and Progress During the Year

RECAPITULATION

Provinces	Total Value of Lands in Reserves	Value of Private Fencing	Value of Private Buildings	Value of Public Buildings Property of the Band	Value of Implements and Vehicles	Value of Live Stock and Poultry	Value of General Effects	Value of Household Effects	Total Value of Real and Personal Property	Progress during the Year 1936-37		
										Value of New Land Improvements	Value of Buildings Erected	Total Increase in Value
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
Alberta.....	16,283,278	120,565	725,764	194,168	308,027	563,805	149,959	150,448	18,496,014	2,098	12,000	14,098
British Columbia.....	13,599,201	313,370	1,806,760	584,005	420,899	750,936	1,043,725	554,910	19,073,806	16,780	58,250	75,030
Manitoba.....	2,807,694	40,435	470,500	141,533	146,350	204,975	191,620	117,850	4,120,957	1,322	8,555	9,877
New Brunswick.....	76,478	2,934	77,246	78,882	11,955	4,672	6,050	22,570	280,787	.....	1,540	1,540
Northwest Territories.....	1,578	920	57,750	50	976	3,420	279,355	76,050	420,099	1,100	7,980	9,080
Nova Scotia.....	83,110	3,285	74,165	47,900	10,775	9,180	5,570	15,695	249,680	7,400	2,250	9,650
Ontario.....	4,484,067	452,670	1,527,985	520,150	472,695	401,775	284,154	567,999	8,711,495	4,885	25,155	30,040
Prince Edward Island.....	1,600	300	1,000	1,596	1,000	1,050	1,200	1,700	9,446	.....	100	100
Quebec.....	1,419,035	40,300	913,690	231,583	116,905	106,625	93,665	231,500	3,153,306	4,335	7,100	11,435
Saskatchewan.....	13,713,973	129,585	576,820	75,425	360,225	435,510	147,776	154,948	15,594,262	4,177	16,630	20,807
Yukon Territory.....	8,300	300	2,000	44,000	337	860	1,500	3,500	60,797	.....	1,250	1,250
Total.....	52,478,314	1,104,664	6,233,680	1,919,295	1,850,144	2,482,808	2,204,574	1,897,170	70,170,649	42,097	140,810	182,907

TABLE 6
Sources and Value of Income

RECAPITULATION

Provinces	Value of Farm Products including Hay	Value of Beef Sold also of That Used for Food	Wages Earned	Received from Land Rentals	Received from Timber	Received from Mining	Earned by Fishing	Earned by Hunting and Trapping	Earned by other Industries and Occupations	Annuities Paid and Interest on Indian Trust Funds	Total Income of Indians
	\$	\$	\$	\$ cts.	\$ cts.	\$ cts.	\$	\$	\$	\$ cts.	\$ cts.
Alberta.....	204,611	69,068	30,982	.....	723 34	205 05	10,737	81,260	55,174	210,938 50	663,698 89
British Columbia.....	359,530	81,505	401,960	.....	12,798 22	3,221 98	384,984	169,240	133,524	49,477 95	1,596,241 15
Manitoba.....	121,771	20,141	79,700	.....	904 62	.....	45,190	189,600	36,125	94,619 69	588,051 31
New Brunswick.....	6,500	350	11,475	.....	437 80	12 45	1,365	1,575	2,930	2,238 60	26,883 85
Northwest Territories.....	5,446	.....	18,085	.....	.....	.....	17,330	173,186	7,230	19,090 00	240,367 00
Nova Scotia.....	6,930	635	14,080	.....	.....	.....	1,205	2,195	11,040	1,669 94	37,754 94
Ontario.....	337,759	22,033	376,645	.....	16,134 87	2,854 77	227,105	326,389	139,335	381,605 99	1,829,861 63
Prince Edward Island.....	.....	.....	.....	.....	.....	2 35	.....	.....	.....	.....	2 35
Quebec.....	149,324	8,053	128,816	.....	15,806 88	5 00	3,750	75,706	25,460	21,697 62	428,618 50
Saskatchewan.....	269,165	59,189	42,730	.....	317 90	.....	33,775	97,591	34,205	146,823 26	683,796 16
Yukon Territory.....	2,228	498	4,048	.....	.....	.....	.....	.....	.....	.....	6,774 00
Total.....	1,463,264	261,472	1,108,521	.....	47,123 63	6,301 60	725,441	1,116,742	445,023	928,161 55	6,102,049 78*

* Total income does not include money received from land rentals for which figures are not available by provinces.

Statement of Indian Day Schools in the Dominion for the Fiscal Year Ended March 31, 1937

School	Reserve	Agency	Teacher	Number on Roll			Average Attendance	Grades								
				Boys	Girls	Total		I	II	III	IV	V	VI	VII	VIII	IX
PRINCE EDWARD ISLAND																
Lennox Island.....	Lennox Island.....	Prince Edward Island.....	Mr. J. J. Sark.....	7	12	19	14	9	1	3	2	3	.....	1	.....	.....
NOVA SCOTIA																
Afton.....	Afton.....	Antigonish.....	Miss J. Forbes.....	14	8	22	15	8	2	6	2	3	.....	.....	.....	1
Eskasoni.....	Eskasoni.....	Cape Breton.....	Mrs. M. A. Dunne.....	16	18	34	22	23	8	.....	3	.....	.....	.....	.....	.....
Sydney.....	Sydney.....	".....	Miss C. Gallagher.....	12	22	34	19	9	5	3	14	2	1	.....	.....	.....
Millbrook.....	Millbrook.....	Colchester.....	Mr. F. E. McKinnon.....	13	10	23	17	3	7	1	.....	8	.....	4	.....	.....
Bear River.....	Bear River.....	Digby.....	Mrs. R. L. Ford.....	9	10	19	11	5	3	.....	2	3	3	2	.....	1
Malagawatch.....	Malagawatch.....	Inverness.....	Mr. C. Kennedy.....	8	7	15	14	5	2	2	2	2	.....	.....	2	.....
Whycocomagh.....	Whycocomagh.....	".....	Mr. A. MacDonald.....	17	24	41	23	19	8	6	5	2	.....	.....	1	.....
Indian Cove.....	Fishers' Cove.....	Pictou.....	Miss G. McGirr.....	21	10	31	24	16	9	1	4	1	.....	.....	.....	.....
Salmon River.....	Salmon River.....	Richmond.....	Miss H. Bissett.....	19	16	35	22	19	2	4	4	3	3	.....	.....	.....
Middle River.....	Middle River.....	Victoria.....	Miss M. E. McLean.....	14	17	31	19	17	9	2	3	.....	.....	.....	.....	.....
Total, Nova Scotia.....	.....	.....	.....	143	142	285	186	124	55	25	39	24	7	6	.....	5
NEW BRUNSWICK																
Big Cove.....	Big Cove.....	Northeastern.....	Mr. A. L. Fraser.....	29	25	54	42	18	10	4	9	3	4	3	3	.....
Burnt Church.....	Burnt Church.....	".....	Mrs. A. L. Fraser.....	27	23	50	42	14	12	9	3	2	5	5	.....	.....
			Miss V. A. Hogan.....													
			Miss C. J. Hogan.....													
			Miss I. Fitzgerald.....													
Eel Ground.....	Eel Ground.....	".....	Miss I. Fitzgerald.....	12	15	27	21	13	1	1	.....	4	6	2	.....	.....
Indian Island.....	Indian Island.....	".....	Mrs. C. E. F. Savage.....	4	10	14	11	7	2	.....	4	1	.....	.....	.....	.....
Red Bank.....	Red Bank.....	".....	Mrs. S. M. Kehoe.....	2	11	13	9	5	.....	4	.....	1	3	.....	.....	.....
Eel River.....	Eel River.....	Restigouche.....	Miss B. L. Arsenault.....	13	8	21	18	5	4	2	3	3	1	3	.....	.....
Kingsclear.....	Kingsclear.....	Southwestern.....	Miss E. M. O'Brien.....	10	7	17	11	4	1	2	.....	4	4	2	.....	.....
Oromocto.....	Oromocto.....	".....	Miss M. E. Scott.....	9	8	17	12	7	.....	2	2	3	.....	3	.....	.....
St. Mary's.....	St. Mary's.....	".....	Mrs. R. McElligott.....	17	25	42	32	7	7	7	6	7	2	3	.....	3
Woodstock.....	Woodstock.....	".....	Sister M. Annette.....	11	14	25	15	9	6	2	4	2	1	.....	1	.....
			Sister Catherine.....													
			Sister M. Francis Joseph.....													
			Sister M. Doloresa.....													
Tobique.....	Tobique.....	Northern.....	Sister M. Electa.....	23	35	58	49	10	12	13	8	5	5	5	.....	.....
Total, New Brunswick.....	.....	.....	.....	157	181	338	262	99	55	46	39	35	31	26	.....	7
QUEBEC																
Bersimis.....	Bersimis.....	Bersimis.....	Sister Ste. Jeanne.....	38	47	85	38	69	13	3	.....	.....	.....	.....	.....	.....
			Sister St. Marc.....													
			Sister M. des Seraphins.....													

Caughnawaga Bush.....	Caughnawaga.....	Caughnawaga.....	Mrs. M. K. Phillips.....	11	9	20	15	6	2	5	5	1	1						
			Sister M. Cleophas.....																
			Sister M. Leander.....																
			Miss V. Snow.....																
			Sister M. George.....																
			Sister M. Rose.....																
			Miss T. Jacobs.....																
			Sister M. Sebastia.....																
			Sister Marie.....																
Caughnawaga R.C.....	".....	".....	Sister M. Jeanne.....	189	164	353	303	129	57	64	45	19	18	19	2				
			Sister M. John.....																
			Sister M. Alma.....																
			Sister M. Mochtilde.....																
			Sister M. Leocadie.....																
			Sister M. Florina.....																
			Sister M. Anysie.....																
			Sister M. Laurence.....																
			Sister Jacqueline.....																
Caughnawaga St. Isidore.....	".....	".....	Miss M. Stacey.....	9	14	23	17	3	2	8	3		5						2
Caughnawaga United Church..	".....	".....	Rev. C. C. Dean.....	24	21	45	32	14	9	6	8	5	2	1					
			Miss V. Daly.....																
Fort George.....	At Fort George.....	James Bay.....	Miss B. A. Nesbitt.....	2	6	8	3	4				2	2						
Rupert's House.....	At Rupert's House.....	".....	Mr. G. Morrow.....	28	15	43	10	38	1	2	2								
			Sister St. Vincent-Ferrier.....																
Lorette.....	Lorette.....	Lorette.....	Sister Ste. Aimee de Sacre Coeur.....	36	27	63	57	18	11	8	16	10							
Maria.....	Maria.....	Maria.....	Miss D. Gideon.....	26	17	43	32	17	8	9	9								
Congo Bridge.....	Congo Bridge.....	Maniwaki.....	Miss M. McSheffrey.....	6	12	18	10	8		6	2		2						
Maniwaki.....	Maniwaki.....	".....	Miss F. White.....	13	32	45	31	14	13	6	8	4							
Oka Country.....	Oka.....	Oka.....	Mr. A. E. Smith.....	18	17	35	19	17	5	6	1	3	2	1					
Oka Village.....	".....	".....	Mr. M. J. Oke.....	15	23	38	23	14	6	4	3	4	3	4					
St. Frances C.E.....	Pierreville.....	Pierreville.....	Mr. A. Emmett.....	6	7	13	12	2	2	3		3	1	2					
			Sister M. Josephine.....																
St. Frances R.C.....	".....	".....	Sister St. Rene.....	31	39	70	65	7	23	9	8	9	9	5					
			Sister Rose de la Croix.....																
Pointe Bleue.....	Pointe Bleue.....	Pointe Bleue.....	Sister M. du Carmel.....	46	43	89	77	22	50		9	5	3						
			Sister St. Adrien.....																
			Sister St. Leo.....																
Restigouche.....	Restigouche.....	Restigouche.....	Sister M. of St. Bridget.....	77	51	128	104	43	16	20	10	13	11	15					
			Sister M. of St. Peter.....																
Chesnaill.....	St. Regis.....	St. Regis.....	Miss U. Billings.....	5	16	21	17	5	2	6	5			3					
Chetlain.....	".....	".....	Miss G. Legarde.....	7	9	16	10		5	4	5		2						
Cornwall Island E.....	".....	".....	Mr. C. Chisholm.....	15	27	42	31	14	8	8	6	4	2						
Cornwall Island W.....	".....	".....	Miss E. Peters.....	13	16	29	22	4	8		5		5	2					
St. Regis Island.....	".....	".....	Miss H. Fitzpatrick.....	6	12	18	12	10	2		4			2					
St. Regis Village.....	".....	".....	Miss M. McDonald.....	37	30	67	51	36	5	8	7	4	4	2					1
			Miss H. C. McRae.....																
Brennan's Lake.....	At Brennan's Lake.....	Timiskaming.....	Mr. L. McMahon, B.A.....	10	5	15	11	7	1	2	2	3							
Hunter's Point.....	At Hunter's Point.....	".....	Miss C. Nephin.....	4	8	12	8	3		4	3	1							1
Long Point.....	At Long Point.....	".....	Mrs. J. D. McLaren.....	17	14	31	18	11	6	2	9	2	1						
Timiskaming.....	Timiskaming.....	".....	Sister John of the Eucharist.....	16	11	27	22	6	4	6	5	6							
Waswanipi.....	At Waswanipi.....	".....	Mr. S. R. Iserhoff.....	27	38	65	33	65											
Manouan.....	At Manouan.....	Outside Treaty.....	Miss U. Bordeleau.....	33	21	54	43	42	11	1									
			Miss O. Richard.....																
Obedjiwan.....	At Obedjiwan.....	".....	Miss L. Dion.....	25	21	46	35	24	6	16									
			Miss J. Lafrance.....																
Weymontaching.....	At Weymontaching.....	".....	Miss M. Alie.....	15	19	34	20	19	8	7									
			Miss T. Boisvenue.....																
Total, Quebec.....				805	791	1,596	1,181	671	227	216	199	124	74	58	24	3			

¹Seasonal school only.

Statement of Indian Day Schools in the Dominion for the Fiscal Year Ended March 31, 1937—Cont.

School	Reserve	Agency	Teacher	Number on Roll			Average Attendance	Grades									
				Boys	Girls	Total		I	II	III	IV	V	VI	VII	VIII	IX	
ONTARIO																	
Cape Croker	Cape Croker	Cape Croker	Miss S. J. Burke	20	22	42	34	6	7	12	4	5	5	3			
Port Elgin	"	"	Mrs. S. M. Bell	11	16	27	16		13	2	7		3	2			
Sidney Bay	"	"	Miss G. Edington	8	10	18	11	4	3	4	3	2	1		1		
Back Settlement	Caradoc	Caradoc	Miss H. M. Howe	22	12	34	25	8	5	6	1	4	4	5	1		
Bear Creek	"	"	Miss M. Stiltz	11	7	18	9	4	4	1	3	3		2	1		
Muncey	"	"	Miss B. Comfrot	9	6	15	8	5	3		2	3		2			
Oneida No. 2	Oneida	"	Mr. V. H. Morris	23	18	41	23	22	5	4	2	4	2	1	1		
Oneida No. 3	"	"	Mr. L. A. Brayford	20	26	46	24	20	13	5	6		1	1			
River Settlement	Caradoc	"	Miss P. Sabin	20	8	28	17	13	2	2	5	3	2	1			
Christian Island R. C.	Christian Island	Christian Island	Miss M. M. O'Toole	15	14	29	23	5	4	4	4	4	4	1	2		
Christian Island U. C.	"	"	Mr. H. S. Rawlings	21	23	44	28	19	5	6		6	3	5			
Manitou Rapids	Manitou Rapids	Fort Frances	Miss I. Bell														
*Seine River	Wild Potato	"	Miss P. Pratt	13	8	21	8	3	4	7	3	1	2	1			
Gull Bay	Gull Bay	Fort William	Mr. J. Leeder	9	10	19	12	19									
Lake Helen	At Lake Helen	"	Miss D. Ross	13	9	22	13	9	4	6	2			1			
*Martin Falls	Long Lake	"	Mr. G. W. Vesey	10	12	22	15	15	1	3	3						
McIntyre Bay	Grand Bay	"	Miss O. Wright	9	14	23	15	16		3		2	1		1		
Mission Bay	Fort William	"	Mr. N. Van Hatten	6	10	16	10	2	8	3			3				
MoBERT.	MoBERT.	"	Miss C. Troy	9	11	20	14	9		3	4	2	1	1			
Pic	Pic	"	Mr. J. R. Douglas	13	22	35	22	13	8	6	1	7					
Whitesand	Whitesand	"	Mrs. M. H. Reed	12	24	36	18	29	3	2	2						
Batchawana	Batchawana Bay	Sault Ste. Marie	Miss A. McGuire	13	7	20	16	10	3	3	2	2					
Garden River C.E.	Garden River	"	Miss E. M. Robicheau	12	15	27	21	6	2	2		8	7		2		
Garden River R.C.	Garden River	"	Miss A. Davies	7	12	19	15	9		2	3	1		3	1		
Goulais Bay	Goulais Bay	"	Miss L. Gattie	37	40	77	56	25	14		14	6	11	6	1		
Georgina Island	Georgina Island	Georgina Island	Miss M. Hickey	12	16	28	22	14	4	5	4	1					
Golden Lake	Golden Lake	Golden Lake	Miss M. I. Cazaly	13	7	20	14	8	7		3	2					
Sheshegwaning R. C.	Sheshegwaning	Gore Bay	Mr. R. A. Gibson	19	16	35	20	12	4	8	3						
West Bay	West Bay	"	Miss J. Currier	8	11	19	13	9	4		2	3		1			
Albany River	At Albany River	James Bay	Miss V. LaVictoire	27	18	45	27	24	6	6	4	3	2				
*Cat Lake	At Cat Lake	"	Miss M. Wrinn	24	16	40	10	27	12	1							
*English River	At English River	"	Rev. R. A. Joselyn	9	21	30	21	30									
Fort Hope	At Fort Hope	"	Mr. L. A. Martin	14	16	30	20	17	6	5	1	1					
Moose Fort	At Moose Fort	"	Mr. N. Clarke	11	9	20	5	18	2								
*Trout Lake	At Trout Lake	"	Rev. D. Macdonald	27	36	63	23	51	6	1	1	2		2			
Whitefish Bay	Whitefish Bay	Kenora	Rev. L. A. Sampson	55	56	111	58	111									
Birch Island	Whitefish River	Manitowaning	Mr. E. Sigston	12	13	25	21	12	5		7	1					
Buzwah	Buzwah	"	Mr. A. Lafèche	8	16	24	19	3	7	4	4	3	2	1			
Kaboni	Kaboni	"	Miss E. Fortin	18	13	31	17	22	2	4		2	1				
Sheguandah C.E.	Sheguandah	"	Miss C. Wakegijig	12	14	26	17	18	2	2	4						
Sheguandah R. C.	Sheguandah	"	Mrs. S. A. Prudhomme	5	7	12	5	6	1	3		1	1				
Sucker Creek	Sucker Creek	"	Miss M. Ballantyne	6	4	10	6	2	3	2				3			
Whitefish Lake	Whitefish Lake	"	Miss E. C. Lapointe	5	11	16	12	7	2	2	2	2	1				
Wikwemikong	Wikwemikong	"	Miss B. Willis	5	9	14	9	3	1	3	3	3	1				
			Miss M. Kinoshameg	42	42	84	55	30	12		13	15	6	6	2		
			Miss C. O'Driscoll														
			Miss R. Trudeau														
Moraviantown	Moravian	Moravian	Rev. J. A. Ward	15	30	45	28	11	12	4	5	6		3	4		

Gibson	Watha	Parry Sound	Mrs. C. O. Sommer	8	15	23	16	6	1	5	1	5	2	3
Lower French River	Lower French River	"	Mr. A. B. Carruthers	7	12	19	9	13	3	1	1	2	1	1
Magnetawan	Magnetawan	"	Miss G. E. O'Meara	7	3	10	8	2	2	1	1	2	1	1
Moose Deer Point	At Moose Deer Point	"	Miss E. Donald	7	5	12	10	3	1	2	2	4	1	1
Ryerson	Parry Island	"	Miss A. McArthur	18	19	37	23	5	11	7	1	4	7	2
Shawanaga	Shawanaga	"	Mrs. E. English	12	10	22	14	4	5	4	8	1	1	1
Rama	Rama	Rama	(Miss G. Sverdfeger Miss R. L. McNeice)	30	31	61	42	9	6	6	3	4	16	7
Alnwick	Alnwick	Rice Lake	Mr. J. Loukes	25	22	47	29	15	7	9	5	5	3	3
Mud Lake	Mud Lake	"	(Mr. W. G. Rome Miss B. V. Long)	27	36	63	48	10	10	4	11	8	8	5
Kettle Point	Kettle Point	Sarnia	Mr. G. Dill	12	16	28	22	14	6	2	3	4	1	1
St. Clair	St. Clair	"	Mr. W. E. Windover	6	13	19	15	5	2	9	2	1	1	1
Stoney Point	Stoney Point	"	Miss M. E. Anderson	4	5	9	5	3	1	1	1	2	1	1
French Bay	Saugeen	Saugeen	Miss E. M. McCulloch	7	7	14	12	2	1	1	4	4	2	2
Saugeen	"	"	Mr. W. M. Knechtel	13	7	20	16	5	7	4	2	1	1	1
Scotch Settlement	"	"	Mr. M. J. McIver	13	14	27	21	10	5	9	3	1	1	1
New Credit	New Credit	Six Nations	Mr. J. C. Hill	25	23	48	37	8	2	6	6	3	10	4
Six Nations No. 1	Six Nations	"	Miss J. L. Jamieson	25	26	51	35	13	5	10	8	4	7	4
Six Nations No. 2	"	"	(Miss V. Davis Miss N. Jamieson)	41	29	70	45	8	8	24	30	1	1	1
Six Nations No. 3	"	"	Miss M. Anderson	34	21	55	38	11	6	11	5	10	8	2
Six Nations No. 4	"	"	Miss M. Hill	16	13	29	23	6	7	2	1	2	5	2
Six Nations No. 5	"	"	Miss A. Hill	24	12	36	26	8	9	3	10	1	3	2
Six Nations No. 6	"	"	Miss E. Monture	26	21	47	29	15	9	6	2	4	5	3
Six Nations No. 7	"	"	Miss H. Miller	32	28	60	38	23	13	3	5	2	7	3
Six Nations No. 8	"	"	Mr. O. Smith	27	18	45	32	12	3	5	2	6	8	3
Six Nations No. 9	"	"	Miss E. General	25	32	57	39	15	8	7	6	6	4	7
Six Nations No. 10	"	"	Miss S. Jamieson	30	26	56	34	18	10	8	11	6	1	3
Six Nations No. 11	"	"	(Mr. J. L. Garlow Mr. H. English)	25	45	70	40	25	11	4	4	9	7	4
Dokis	Dokis	Sturgeon Falls	Miss L. Adley	17	19	36	23	22	6	7	1	1	1	1
Garden Village	Nipissing	"	Miss E. Cox	21	22	43	26	29	8	1	4	2	1	1
Timagami	At Timagami	"	Rev. L. C. Wittig	14	21	35	24	10	1	6	11	7	1	1
Mississauga River	Mississauga	Thessalon	Miss M. MacNulty	14	19	33	24	17	5	3	5	1	1	2
Saganook	Spanish River	"	Miss H. Kelly	16	15	31	27	21	6	4	1	1	1	1
Serpent River	Kenabutch	"	Miss A. Bush	14	10	24	15	6	6	2	5	5	1	1
Spanish River Protestant	Spanish River	"	Miss H. Crooks	4	8	12	8	6	1	1	4	1	1	1
Tyendinaga Central	Tyendinaga	Tyendinaga	Miss L. M. Bell	12	15	27	16	7	2	5	4	3	2	2
Tyendinaga Eastern	"	"	Miss N. H. Stoddart	18	17	35	22	6	10	4	6	2	3	3
Tyendinaga Mission	"	"	Miss L. Brant	14	23	37	20	11	6	10	3	4	1	2
Tyendinaga Western	"	"	Mr. L. Claus	11	11	22	15	5	1	7	3	2	3	1
Walpole Island No. 1	Walpole Island	Walpole Island	(Mr. J. W. Daley Mrs. J. W. Daley Mrs. E. E. George)	39	30	69	54	34	11	10	6	7	4	2
Walpole Island No. 2	"	"		18	15	33	24	13	5	11	1	1	3	1
Total, Ontario				1,428	1,471	2,899	1,879	1,161	437	316	301	275	175	137
MANITOBA														
Berens River R.C.	Berens River	Clandeboye	Sister M. Philippe de Neri	17	15	32	21	12	4	9	7	1	1	1
Berens River U.C.	"	"	Mr. C. D. Street	30	24	54	24	18	17	8	5	4	4	2
Black River	Black River	"	Mr. G. Slater	10	12	22	10	6	5	3	5	3	1	1
Bloodvein River	Bloodvein	"	Rev. F. Leach, O.M.I.	13	12	25	15	9	5	7	4	2	1	1
Brokenhead	Brokenhead	"	Mr. G. E. Sage	16	11	27	13	12	6	3	4	2	1	1
Fort Alexander Upper	Fort Alexander	"	Mrs. C. R. Harbord	14	20	34	13	24	3	2	2	1	1	1

¹ Seasonal school only.

² New school opened Jan. 13, 1937.

³ New school opened Mar. 9, 1936.

Statement of Indian Day Schools in the Dominion for the Fiscal Year Ended March 31, 1937—Cont.

School	Reserve	Agency	Teacher	Number on Roll			Average Attendance	Grades																		
				Boys	Girls	Total		I	II	III	IV	V	VI	VII	VIII	IX										
MANITOBA—Concluded																										
Grand Rapids	Grand Rapids	Claudeboye	Rev. G. M. Armstrong, B.A.	17	12	29	16	10	6	3	4	4	2													
Hollowwater River	Hollowwater River	"	Mr. R. C. Marsh	15	11	26	13	12	4	3	1	1														
Little Grand Rapids R.C.	Little Grand Rapids	"	Mr. B. Guimond	16	12	28	19	17	8	3																
Little Grand Rapids U.C.	"	"	Mr. L. L. Schuetze	26	13	39	19	22	9	7	1															
Pekangikum	Pekangikum	"	Mr. R. Schuetze	13	13	26	13	22	4																	
Poplar River	Poplar River	"	Mrs. D. M. Baird	8	13	21	11	5	8	7	1															
Fisher River	Fisher River	Fisher River	Mr. W. G. Tong	33	32	65	33	35	7		10	5	6	1	1											
Jackhead	Jackhead	"	Miss M. Stevens																							
Peguis Centre	Peguis	"	Mrs. C. R. McKenzie	12	9	21	11	7	3	9	2															
Peguis North	"	"	Miss A. L. Clarke	13	18	31	14	10	6	3	1	4	4	3												
Peguis South	"	"	Miss A. Eaton	14	8	22	13	13	3		2	1	3													
Oak River Sioux	Oak River	Griswold	Miss A. C. E. Field	23	25	48	24	17	12	3	5	5	6													
Ebb and Flow Lake	Ebb and Flow	Manitowapah	Miss W. H. Stapleton	6	11	17	8	16	1																	
Fairford	Fairford	"	Mr. A. G. Taggart	13	8	21	11	12	5	2		2														
Lake Manitoba	Lake Manitoba	"	Miss I. G. Pairservice	18	33	51	36	32	8		8	3														
Lake St. Martin	Lake St. Martin	"	Miss N. Skaffield	15	10	25	16	12	5		4	3	1													
Little Saskatchewan	Little Saskatchewan	"	Sister Cecilia																							
Shoal River	Shoal River	"	Mr. S. Waller	19	19	38	15	24	3	6	4	1														
Waterhen River	Waterhen	"	Mr. A. Wheadon	14	14	28	10	17	7	3	1															
Churchill	At Fort Churchill	Norway House	Rev. C. E. Cooke	26	20	46	25	41	1	3	1															
Cross Lake R.C.	Cross Lake	"	Mrs. C. E. Cooke	11	3	14	11	6	1	2	2	3														
Cross Lake U.C.	Cross Lake	"	Sister P. Fuller	21	16	37	33	26	11																	
God's Lake R.C.	God's Lake	"	Rev. L. F. Rowe	18	18	36	13	15	17	4																
God's Lake U.C.	God's Lake	"	Sister St. Luc	13	18	31	15	24	6	1																
Island Lake R.C.	Island Lake	"	Bro. J. Cordeau	12	15	27	10	18	9																	
Island Lake U.C.	Island Lake	"	Mr. R. S. Hiltz	47	32	79	15	12	15																	
Jack River R.C.	Norway House	"	Mr. A. Gauthier	42	32	74	31	28	20	17	10	4														
Oxford House	At Oxford House	"	Mr. W. Mutch	46	37	83	22	80	2		1															
Rossville	Norway House	"	Sister Morin	11	8	19	7	14	3	1	1															
York Factory	At York Factory	"	Mrs. A. M. Scoates	14	23	37	20	30	2		6															
Big Eddy	The Pas	"	Miss E. Smith-Windsor	7	9	16	6	10	2	3																
Chemawawin	Chemawawin	"	Mr. F. E. Goldring	17	16	33	9	31	1	1																
Nelson House R.C.	Nelson House	The Pas	Miss E. McKay	13	9	22	15	10	5	4	2	1														
Nelson House U.C.	"	"	Mr. H. Priestley-Barrett	16	10	26	18	12	5	2	4	3														
The Pas	The Pas	"	Mr. R. Lauze	14	10	24	17	15	2	2	4	1														
Pine Bluff	Pine Bluff	"	Mr. E. Monias	14	11	25	17	23		1	1															
Red Earth	Red Earth	"	Miss A. Wright	13	9	22	15	9	3	4	2	1	3													
Shoal Lake	Shoal Lake	"	Mr. P. Steote	5	6	11	9	3	2	1	2	2	1													
Split Lake	Split Lake	"	Rev. J. L. Lowe	17	11	28	26	10	7	4	4	2														
Swan Lake	Swan Lake	"	Mr. C. E. Wilde	9	7	16	13	5		2		9														
		Portage la Prairie	Rev. G. C. Cowley	16	22	38	17	38																		
			Rev. J. E. Cooper	10	8	18	13	10	1	4	2															
Total, Manitoba				757	688	1,445	755	834	254	142	100	73	32	6	3	1										

SASKATCHEWAN																	
Little Pines.....	Little Pines.....	Battleford.....	Miss A. L. Cunningham.....	23	14	37	30	13	1	4	5	5	3				6
Red Pheasant.....	Red Pheasant.....	".....	Miss M. Armitage.....														
Thunderchild.....	Thunderchild.....	".....	Mr. H. Reynolds.....	13	12	25	16	13	5		5					2	
Ahtahkakoops.....	Ahtahkakoops.....	Carlton.....	Miss K. Beanland.....	9	12	21	11	14	3			4					
Big River.....	Big River.....	".....	Mr. E. B. Goodman.....	20	17	37	19	18	7	7	4						
Little Red River.....	Little Red River.....	".....	Miss C. Merrett.....	12	11	23	15	16	7								
Mistawasis.....	Mistawasis.....	".....	Mr. F. C. Dey.....	13	9	22	14	14	1	3	3	1					
Montreal Lake.....	Montreal Lake.....	".....	Rev. W. W. Moore.....	11	11	22	12	20	1	1							
Sturgeon Lake.....	Wm. Twatt's.....	".....	Mr. B. T. Plunkett.....	10	18	28	12	26	2								
White Bear's.....	White Bear's.....	Crooked Lakes.....	Mr. T. E. MacDonald.....	12	10	22	13	15	3	1	3						
Port-a-la-Corne South.....	James Smith.....	Duck Lake.....	Miss M. McGregor.....	11	20	31	27	17	3	4	5				2		
John Smith.....	John Smith.....	".....	Mrs. E. M. Siddons.....	10	4	14	9	6	5		2	1					
White Cap Sioux.....	Moose Woods.....	Moose Woods.....	Mrs. A. M. McFarlane.....	4	11	15	7	9	2	1	2	2					
Big Island Lake.....	Bighead.....	Onion Lake.....	Rev. G. J. Waite.....	8	13	21	16	6	3	1	6	5					
Frog Lake.....	Frog Lake.....	".....	Mrs. E. C. Carlin.....	3	11	14	11	5	1	2	2	4					
Long Lake.....	Keehewin's.....	".....	Mr. J. H. Lirette.....	12	12	24	13	10	9	5							
Ministikwan.....	Ministikwan.....	".....	Mr. A. E. Peterson.....	10	4	14	7	9	3	1	1						
Cote's.....	Cote's.....	Pelly.....	Mr. C. Hebert.....	11	10	21	14	13	4	4							
Key's.....	Key's.....	".....	Mr. J. Chamberlain.....	7	9	16	3	14	1		1						
Assiniboine.....	Assiniboine.....	Qu'Appelle.....	Miss R. Jamieson.....	15	14	29	18	11	7	4	5				2		
Day Star's.....	Day Star's.....	Touchwood.....	Mrs. R. F. Roy.....	11	6	17	9	4	4	4	2	2	1				
Fishing Lake.....	Fishing Lake.....	".....	Mr. W. J. D. Kerley.....	17	9	26	20	10	4	4	3	3	2				
Stanley.....	Stanley.....	Treaty No. 10.....	Miss F. M. Hodgson.....	5	9	14	13	6			4	4					
			Rev. F. E. Torpey.....	15	15	30	15	13	10	2	5						
			Rev. A. J. Lawes.....	11	18	29	13	29									
			Mr. A. Spence.....														
Total, Saskatchewan.....				273	279	552	337	311	87	52	58	26	10	2			6
ALBERTA																	
Sarcee.....	Sarcee.....	Sarcee.....	Rev. F. M. R. Gibney.....	15	14	29	19	8	8			3	6				4
Morley.....	Morley.....	Stony.....	Miss J. Telfer.....	1	5	6	5	4			2						
Total, Alberta.....				16	19	35	24	12	8		2	3	6				4
NORTHWEST TERRITORIES																	
Fort Smith.....	At Fort Smith.....	Athabaska.....	Sister O. Lavoie.....	3	1	4	2	1	1	2							
Fort McPherson.....	At Fort McPherson.....	Fort Simpson.....	Rev. T. Greenwood.....	4	11	15	6	13	2								
Fort Simpson.....	At Fort Simpson.....	".....	Sister M. A. Gamache.....	3	5	8	7	3	3	1	1						
St. David's Mission.....	At St. David's Mission.....	".....	Rev. H. G. Cook.....	7	9	16	11	15	1								
Total, Northwest Territories.....				17	26	43	26	32	7	3	1						
BRITISH COLUMBIA																	
Fort Babine.....	Fort Babine.....	Babine.....	Mr. J. J. Moroney.....	23	16	39	18	11	13	10	5						
Glen Vowell.....	Sikedakh.....	".....	Mr. A. F. Parkinson.....	8	13	21	18	11	4		3	3					
Hazelton.....	Hazelton.....	".....	Mr. N. Stewart.....	20	37	57	33	26	3	7	10	5	6				1
Kispiox.....	Kispiox.....	".....	Rev. J. T. Burchill.....	16	23	39	24	27	5	7							
Kitsegukla.....	Kitsegukla.....	".....	Rev. B. Black.....	18	15	33	17	17	4	5		5	2				
Kitwanga.....	Kitwanga.....	".....	Rev. B. Shearman.....	13	20	33	18	12	6	9	2	1	2	1			

¹ Seasonal school only.

Statement of Indian Day Schools in the Dominion for the Fiscal Year Ended March 31, 1937—Cont.

School	Reserve	Agency	Teacher	Number on Roll			Average Attendance	Grades										
				Boys	Girls	Total		I	II	III	IV	V	VI	VII	VIII	IX		
BRITISH COLUMBIA—Concluded																		
Rocher Déboulé	Hagwilget	Babine	Mrs. J. Macdonald	7	10	17	10	9	3			4			1			
Bella Bella	Bella Bella	Bella Coola	Miss F. L. Perry	31	32	63	37	38	18		4			3				
Bella Coola	Bella Coola	"	Miss R. E. Young	28	18	46	24	33	6		2	4	1					
Kitimat	Kitimat	"	Miss R. Nelson	28	35	63	40	27	13	12	8	2		1				
Klemtu	Klemtu	"	Mr. J. B. Glover	9	6	15	10	15										
Cowichan	Cowichan	Cowichan	Sister M. Alphonsa	13	20	33	15	23	3	4	1	2						
Koksilah	Koksilah	"	Miss E. H. Crighton	11	17	28	14	13	5	6		2		2				
Nanaimo	Nanaimo	"	Miss E. S. Klippert	24	17	41	26	16	4	5	5	3	3	3			2	
Songhees	Somemo	"	Miss M. T. Hughes	3	11	14	8	4	2	4		2					2	
Tsartlip	Tsartlip	"	Miss G. M. Lovick	10	13	23	13	14	3		3			3				
Moberly Lake	Moberly Lake	Fort St. John	Mr. L. M. Gething	12	6	18	12	17	1									
Alert Bay	Moberly Lake	Kwawkwath	Mr. W. P. Wickett	26	27	53	29	38	6	7			2					
Campbell River	Campbell River	"	Miss H. Earl	12	13	25	22	15	4	6								
Cape Mudge	Cape Mudge	"	Rev. T. C. Colwell	19	13	32	17	9	6	3	8			5	1			
Kingcome Inlet	At Kingcome Inlet	"	Miss P. M. Arrowsmith	19	21	40	16	25	8	4	1	1	1					
Mamallilkulla	Mamallilkulla	"	Miss H. Bowden	7	11	18	8	14	2		2							
Quatsino	Quatsino	"	Mr. E. A. Hill-Tout	9	7	16	9	10	2	4								
Smith's Inlet	Kwashehla	"	Miss M. H. Pennington	6	4	10	4	2	1	4	1	2						
Boothroyd	Boothroyd	Lytton	Miss L. Blackford	6	11	17	12	4	6	6	1							
Seabird Island	Seabird Island	"	Mr. F. G. M. Grist	9	13	22	12	10	2	3	3			2	1	1		
Seton Lake	Shalalth	"	Miss C. MacLennan	12	8	20	15	1	5	8	2	4						
Chehalis	Chehalis	New Westminster	Mr. J. W. Burns	10	13	23	12	13	6	1	2	1						
Katzie	Katzie	"	Miss M. Winter	6	4	10	8	4	2		3							
Skwah	Skwah	"	Mr. C. O. Daly	5	13	18	10	9	3	4				1				
Shulus	Nicola Mameet	Nicola	Mr. D. C. Westaway	12	13	25	9	17	2	5	1							
Inkameep	Osoyoos	Okanagan	Mr. A. Walsh	7	6	13	10	5	2	1	1	1			2	1		
Okanagan	Okanagan	"	Miss M. Hepworth	13	17	30	13	11	1	5	2	8	3					
Penticton	Penticton	"	Miss M. E. Weydert	11	11	22	14	8	5	1	1	1	3			3		
Massett	Massett	Queen Charlotte	Miss P. Moon	40	45	85	44	56	13	10	4	1	1					
			Miss E. Gibson															
Skidegate	Skidegate	"	Miss V. F. Weaver	24	21	45	28	16	7	8	5	7	2					
			Miss C. A. Vanderveen															
Gitladamicks	Kitladamax	Skeena	Rev. S. Kinley	16	19	35	11	25	7		3							
Gwinoha	Gwinoha	"	Miss E. A. Jater	7	7	14	5	6	2	2	4							
Hartley Bay	Hartley Bay	"	Mr. J. A. Findlay	17	13	30	21	5	7	6	4	5		2	1			
Kincolith	Kincolith	"	Miss E. M. Aylwin	19	33	52	25	36	7	7		1		1				
Kitkatla	Kitkatla	"	Rev. G. H. Goodreid	28	19	47	20	27	7	6	5	1		1				
Kitsalas	Kitsalas	"	Mr. R. Kelly	10	12	22	13	9	1	5	2	3	2					
Lakalsap	Lakalsap	"	Mrs. N. C. Hayhurst	16	23	39	19	24	2	3	4	4	1	1				
			Mr. J. Hayhurst															
Metlakatla	Metlakatla	"	Mr. T. A. Bryant	13	16	29	16	9	6	3				2				
Port Essington	Port Essington	"	Mrs. E. Pogson	18	16	34	17	17	1	6	4			4	1	1		
Port Simpson	Port Simpson	"	Miss L. E. Kinley	50	28	78	25	43	10	11	7	5	1	1				
			Miss R. J. Horton															
¹ Klappan	Iakut Lake	Stikine	Rev. L. Bosse, O.M.I.	5	7	12	10	12										
¹ McDames	"	"	Mr. E. G. Fitzpatrick	10	7	17	11	13	4									
¹ Tahltan	Tahltan	"	Mr. W. P. Thorman	10	11	21	13	8	7	5	1							
¹ Port Grahame	Fort Grahame	Stuart Lake	Mr. P. J. Downey	14	11	25	17	6	8	3			8					

Fort McLeod.....	Fort McLeod.....	Stuart Lake.....	Mr. G. N. Cormack.....	11	7	18	14	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Homalco.....	Appe.....	Vancouver.....	Mr. W. H. Sowrey.....	17	15	32	12	24	5	3	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sliammon.....	Sliammon.....	".....	Miss M. Boeur.....	9	15	24	11	11	1	1	8	3	.....	.....	.....	.....	.....	.....	.....
Squamish.....	Squamish.....	".....	Sister Mary Amy.....	11	17	28	19	18	3	1	2	2	.....	.....	.....	.....	.....	.....	.....
Uchuleet.....	Itedse.....	West Coast.....	Mr. C. Von Storch.....	17	7	24	9	10	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total, British Columbia.....				825	863	1,688	917	901	263	220	137	89	48	19	11	.....	.....	.....	.....
YUKON																			
Champagne Landing.....	At Champagne Landing.....	Yukon.....	Mr. W. R. Stringer.....	10	13	23	10	19	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Little Salmon.....	At Little Salmon.....	".....	Miss M. A. Herron.....	2	10	12	5	10	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mooshide.....	At Mooshide.....	".....	Rev. A. Anderson.....	6	8	14	8	6	5	1	2	.....	.....	.....	.....	.....	.....	.....	.....
Old Crow Village.....	At Old Crow Village.....	".....	Miss M. McCabe.....	16	13	29	16	29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Selkirk.....	At Selkirk.....	".....	Rev. C. W. Ward.....	10	9	19	8	13	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Teslin Lake.....	At Teslin Lake.....	".....	Mr. C. J. Loat, B.A.....	21	9	30	16	11	8	3	8	.....	.....	.....	.....	.....	.....	.....	.....
Total, Yukon.....				65	62	127	68	88	24	5	10	.....	.....	.....	.....	.....	.....	.....	.....

Statement of Combined White and Indian Day Schools in the Dominion for the Fiscal Year Ended March 31, 1937

School	Reserve	Agency	Number on Roll			Average Attendance	Grades																
			Boys	Girls	Total		I	II	III	IV	V	VI	VII	VIII	IX								
ONTARIO																							
Hiawatha.....	Near Keene.....	Rice Lake.....	11	3	14	12	3	4	.....	1	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Honey Harbour.....	Near Midland.....	Parry Sound.....	29	21	50	34	20	7	6	9	3	2	1	.....	.....	.....	.....	.....	.....	.....	.....
Mattawa.....	At Mattawa.....	Sturgeon Falls.....	32	30	62	43	16	7	7	7	6	4	11	.....	.....	.....	.....	.....	.....	.....	.....
Michipiocoten Harbour.....	At Michipiocoten Harbour.....	Sault Ste. Marie.....	7	7	14	8	2	2	.....	7	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Whitefish River.....	At Whitefish Falls.....	Manitowaning.....	9	6	15	10	3	5	4	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total, Ontario.....			88	67	155	107	44	25	17	25	15	7	12	8	.....	.....	.....	.....	.....	.....	.....
MANITOBA																							
Jack River C.E.....	Norway House.....	Norway House.....	8	14	22	11	14	3	3	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Moose Lake.....	At Moose Lake.....	The Pas.....	6	7	13	6	8	3	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Patapun.....	At Patapun.....	Clandeboye.....	12	2	14	8	7	.....	3	.....	3	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total, Manitoba.....			26	23	49	25	29	6	7	1	4	2	.....	.....	.....	.....	.....	.....	.....	.....	.....
SASKATCHEWAN																							
Round Plain.....	Near Prince Albert.....	Carlton.....	4	6	10	6	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
BRITISH COLUMBIA																							
Telegraph Creek.....	At Telegraph Creek.....	Stikine.....	6	10	16	8	12	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

¹ Seasonal school only.

Statement of Indian Residential Schools in the Dominion for the Fiscal Year Ended March 31, 1937

School	Post Office Address	Agency	Principal	Denomination	Number on Roll			Average Attendance	Grades								
					Boys	Girls	Total		I	II	III	IV	V	VI	VII	VIII	IX
NOVA SCOTIA																	
Shubenacadie	Shubenacadie	Hants	Rev. J. P. Mackey	Roman Catholic	83	82	165	155	49	22	20	24	34	7	9		
QUEBEC																	
Fort George	Moosonee	James Bay	Rev. B. S. Green	Church of England	23	32	55	54	25	12	7		11				
ONTARIO																	
Albany Mission	Fort Albany	James Bay	Rev. A. R. Bilodeau, O.M.I.	Roman Catholic	43	40	83	77	22	19	20	13	9				
Cecilia Jeffrey	Kenora	Kenora	Mr. E. W. Byers	Presbyterian	84	79	163	146	60	9	12	14	31	13	19		5
Chapleau	Chapleau	Chapleau	Canon A. J. Vale	Church of England	53	51	104	101	40	7	15	5	10	12	9		5
Fort Frances	Fort Frances	Fort Frances	Rev. V. de Varenne, O.M.I.	Roman Catholic	54	40	94	88	37	13	12	12	12	6	2		
Fort William	Fort William	Fort William	Sister M. Rita	Roman Catholic	42	48	90	80	29	8	10	23	11	7	2		
Kenora	Kenora	Kenora	Rev. J. E. Baillargeon, O.M.I.	Roman Catholic	40	58	98	90	30	21	14	14	9				
McIntosh	McIntosh	Kenora	Rev. C. Perreault, O.M.I.	Roman Catholic	55	51	106	97	50	19	11	8	10	6	2		
Mohawk	Brantford	Six Nations	Rev. H. W. Snell, B.A.	Church of England	75	81	156	153	21	5	23	26	18	17	22	18	6
Moose Fort	Moose Fort, via Moosonee	James Bay	Rev. G. Thompson	Church of England	19	23	42	40	14	8	7	5	6	2			
Mount Elgin	Muncey	James Bay	Rev. O. B. Strapp	United Church	73	83	156	153	30	12	15	24	18	21	24	10	2
Shingwauk	Sault Ste. Marie	Sault Ste. Marie	Rev. C. F. Hives	Church of England	55	82	137	131	26	12	13	27	8	21	14	13	3
Sioux Lookout	Sioux Lookout	Kenora	Rev. J. F. J. Marshall	Church of England	60	71	131	106	29	26	22	27	10	13	4		
Spanish	Spanish	Kenora	Rev. P. Mery, S. J.	Roman Catholic	123	128	251	239	67	26	36	21	40	31	16	14	
Total, Ontario					776	835	1,611	1,501	455	185	210	219	192	149	114	66	21
MANITOBA																	
Birtle	Birtle	Birtle	Rev. E. H. Lockhart	Presbyterian	56	65	121	109	34	25	31	15	15				1
Brandon	Brandon	Brandon	Rev. J. A. Doyle, D.D.	United Church	76	103	179	168	31	23	27	25	21	18	14	13	7
Cross Lake	Cross Lake	Norway House	Rev. H. Boissin, O.M.I.	Roman Catholic	12	20	32	30	8	9	8	7					
Elkhorn	Elkhorn	Norway House	Rev. A. E. Minchin	Church of England	78	76	154	142	61	21	10	20	17	13	8	3	1
Fort Alexander	Fort Alexander	Clandeboye	Rev. J. Brachet, O.M.I.	Roman Catholic	50	66	116	104	39	24	28	12	13				
Norway House	Norway House	Norway House	Rev. E. T. Chapin, B.A.	United Church	53	58	111	98	53	16	17	9	2	10	2	2	
Pine Creek	Camperville	Portage la Prairie	Rev. P. Bousquet, O.M.I.	Roman Catholic	54	58	112	108	39	22	9	11	10	18	3		
Portage la Prairie	Portage la Prairie	"	Rev. J. Jones	United Church	49	50	99	94	32	17	4	15	12	19			
Sandy Bay	Marius	"	Rev. O. Chagnon, O.M.I.	Roman Catholic	42	41	83	76	5	26	20	10	9	5	3	5	
Total, Manitoba					470	537	1,007	929	302	183	154	124	99	83	30	24	8

SASKATCHEWAN																			
47398-154	Beauval	Beauval	Crooked Lake	Rev. V. Bleu, O.M.I.	Roman Catholic	54	55	109	101	34	32	23	14	4	2				
	Cowessess	Marieval	Duck Lake	Rev. P. Chatelain, O.M.I.	Roman Catholic	40	53	93	85	25	18	9	20	6	9	4			2
	Duck Lake	Duck Lake	File Hills	Rev. H. Delmas, O.M.I.	Roman Catholic	76	89	165	158	51	20	34	21	20	19	8			
	File Hills	Balcarres	Touchwood	Mr. R. Rhodes	United Church	43	58	101	95	18	8	13	20	13	13	5			4
	Gordon's	Punnichy	Touchwood	Mr. R. W. Frayling	Church of England	57	69	126	118	53	12	14	28	13	5	1			4
	Guy	Sturgeon Landing	Touchwood	Rev. N. Doyon, O.M.I.	Roman Catholic	55	56	111	103	65	17	16	13						
	Lac La Ronge	Lac La Ronge	Touchwood	Rev. G. W. Fisher	Church of England	50	68	118	112	34	14	11	14	31	7	3			2
	Muscowequan	Lestock	Touchwood	Rev. G. Jeannotte, O.M.I.	Roman Catholic	45	62	107	90	41	2	15	18	17	3	7			6
	Onion Lake C.E.	Lloydminster	Onion Lake	Rev. H. Ellis	Church of England	63	53	116	104	44	13	10	12	13	5	13			1
	Onion Lake R.C.	Lloydminster	"	Rev. E. Pascal, O.M.I.	Roman Catholic	77	76	153	122	72	25	9	16	10	14	7			3
	Qu'Appelle	Lebret	"	Rev. M. de Bretagne, O.M.I.	Roman Catholic	132	144	276	239	74	21	27	37	42	35	23			13
	Round Lake	Stockholm	Crooked Lake	Rev. R. J. Ross	United Church	39	45	84	75	15	13	13	20	4	10	5			4
	St. Philips	St. Philips	Pelly	Rev. A. Paradis, O.M.I.	Roman Catholic	33	43	76	69	31	2	20	15	8					1
	Thunderchild	Delmas	Battleford	Rev. J. Angin, O.M.I.	Roman Catholic	73	66	139	126	67	22	11	15	6	11	5			1
	Total, Saskatchewan					837	937	1,774	1,597	624	219	225	263	187	133	75	33		m
																			15
	ALBERTA																		
	Blood	Cardston	Blood	Rev. J. L. Levern, O.M.I.	Roman Catholic	81	81	162	155	45	21	38	19	19	14				6
	Blue Quills	St. Paul	Saddle Lake	Rev. L. Balter, O.M.I.	Roman Catholic	76	71	147	122	39	27	25	20	17	4	12			3
	Crowfoot	Cluny	Blackfoot	Rev. J. Riou, O.M.I.	Roman Catholic	38	58	96	85	39	17	4	10	10	8	3			5
	Edmonton	Edmonton	"	Rev. J. F. Woodsworth	United Church	73	86	159	140	39	29	41	12	8	12	8			4
	Ermineskins	Hobbema	Hobbema	Rev. P. P. Moulin, O.M.I.	Roman Catholic	72	85	157	140	89	8	25	20	5	4	5			6
	Grouard	Grouard	Lesser Slave Lake	Rev. C. Falher, O.M.I.	Roman Catholic	48	58	106	98	18	16	13	24	4	9	10			1
	Holy Angels	Fort Chipewyan	Athabaska	Sister Kristoff	Roman Catholic	13	33	46	37	16	11	7	8	1	1	1			3
	Joussard	Joussard	Lesser Slave Lake	Rev. P. Serrand, O.M.I.	Roman Catholic	56	79	135	126	62	15	14	19	11	9	2			3
	Morley	Morley	Stony	Rev. E. J. Staley	United Church	38	39	77	71	31	5	4	20	8	5	2			2
	Old Sun's	Gleichen	Blackfoot	Rev. J. W. House	Church of England	53	46	99	90	41	7	11	16	10	9	2			3
	St. Albert	St. Albert	"	Sister V. M. Corriveau	Roman Catholic	89	81	170	165	80	20	19	5	9	14	21			2
	St. Cyprian	Brockton	Peigan	Rev. W. Farlow	Church of England	24	23	47	44	27	7		3	10					1
	St. Paul's	Cardston	Blood	Canon S. Middleton	Church of England	59	75	134	125	28	19	13	20	16	8	15			4
	Sacred Heart	Brockton	Peigan	Rev. E. Ruau, O.M.I.	Roman Catholic	31	26	57	55	9	10	7	9	11	6	3			11
	Sturgeon Lake	Calais	Lesser Slave Lake	Rev. L. Girard, O.M.I.	Roman Catholic	39	46	85	79	27	7	13	6	7	11	10			3
	Vermilion	Fort Vermilion	"	Rev. J. Habay, O.M.I.	Roman Catholic	36	46	82	66	24	12	17	9	9	6	4			4
	Wabasca C.E.	Wabasca	"	Rev. K. L. Sandercock	Church of England	16	22	38	35	19	4	9	6						1
	Wabasca R.C.	Desmarais	"	Rev. L. Beuglet, O.M.I.	Roman Catholic	55	65	120	102	48	13	17	14	8	15	4			1
	Whitefish Lake	Atikameg	"	Rev. C. D. White	Church of England	18	16	34	27	17		8		4	5				1
	Total, Alberta					915	1,036	1,951	1,762	698	248	285	240	167	139	102			51
																			21
	NORTHWEST TERRITORIES																		
	Aklavik C.E.	Aklavik	Fort Good Hope	Rev. H. S. Shepherd	Church of England	17	10	27	26	15	3	6	3						
	Aklavik R.C.	Aklavik	"	Sister J. Dussault	Roman Catholic	11	17	28	21	15	2	5	1	3	2				
	Fort Resolution	Fort Resolution	Fort Resolution	Sister M. L. Champoux	Roman Catholic	16	31	47	40	25	11	6	4	1					
	Hay River	Hay River	"	Rev. W. B. Singleton	Church of England	9	8	17	16	1	5	4	7						
	Providence Mission	Fort Providence	"	Sister Mack	Roman Catholic	29	31	60	53	32	6	9	8	3	1	1			
	Total, Northwest Territories					82	97	179	156	88	27	30	23	7	3	1			

1 New school opened August 26, 1936

Statement of Indian Residential Schools in the Dominion for the Fiscal Year Ended March 31, 1937—Contc.

School	Post Office Address	Agency	Principal	Denomination	Number on Roll			Average Attendance	Grades									
					Boys	Girls	Total		I	II	III	IV	V	VI	VII	VIII	IX	
BRITISH COLUMBIA																		
Ahousaht	Ahousaht	West Coast	Mr. A. E. Caldwell	United Church	30	29	59	47	17	9	8	7	7		11			
² Alberni	Alberni	"	Rev. F. E. Pitts, B.A.	United Church	74	57	131	114	42	24	20	10	10		7	12		3
Alert Bay	Alert Bay	Kwakwewlth	Mr. F. E. Anfield	Church of England	113	99	212	203	68	38	41	23	16	17	9			
Cariboo	150 Mile House	Williams Lake	Rev. G. Forbes, O.M.I.	Roman Catholic	55	68	123	119	47	17	14	7	14	11	10			3
Christie	Kakawis	West Coast	Rev. B. McLaughlin, O.S.B.	Roman Catholic	59	51	110	103	28	9	12	9	15	16	18			3
Coqualeetza	Sardis	New Westminster	Rev. R. C. Scott	United Church	140	110	250	200	65	45	33	23	27	28	13			7
Kamloops	Kamloops	Kamloops	Rev. T. M. Kennedy, O.M.I.	Roman Catholic	167	187	354	284	130	50	36	56	33	36	13			
Kitimat	Kitimat Mission	Bella Coola	Mrs. E. H. Durnin	United Church	14	28	42	36	15	9	9	3	5	1				
Kootenay	Cranbrook	Kootenay	Rev. M. Murphy, O.M.I.	Roman Catholic	48	44	90	86	29	16	13	19	13					
Kuper Island	Kuper Island	Cowichan	Rev. J. Guerts, S.M.M.	Roman Catholic	48	56	104	95	36	30	17	13	4	3				1
Lejac	Lejac	Stuart Lake	Rev. W. Byrne-Grant, O.M.I.	Roman Catholic	88	102	190	168	85	24	24	25	11	4	10			3
Port Simpson	Port Simpson	Skeena	Miss L. M. Deacon	United Church		30	30	29	2	4	8	7	2	2	2			3
St. George's	Lytton	Lytton	Rev. A. R. Lett	Church of England	87	98	185	168	69	27	14	31	18	12	3			5
St. Mary's Mission	Mission City	New Westminster	Rev. F. O'Grady, O.M.I.	Roman Catholic	83	109	192	169	76	30	28	22	14	15	7			
Sechelt	Sechelt	Vancouver	Rev. T. J. Fahlmann, O.M.I.	Roman Catholic	55	39	94	80	21	14	18	13	11	8	1			8
Squamish	North Vancouver	"	Sister Mary Amy	Roman Catholic	35	31	64	61	24	10	5	9	6	6	3			1
Total, British Columbia					1,092	1,138	2,230	1,962	754	356	300	277	206	166	112			37
YUKON																		
Carcross	Carcross	Yukon	Rev. H. C. M. Grant	Church of England	23	24	47	43	15	12	9	4	7					
St. Paul's Hostel	Dawson	"	Rev. L. G. Chappell	Church of England	12	9	21	17	4	4	5		1	2	4			1
Total, Yukon					35	33	68	60	19	16	14	4	8	2	4			1

¹New school opened August 26, 1936.²School destroyed by fire, Feb. 21, 1937.

Statement Showing the Enrolment by Provinces in the Different Classes of Schools for the Fiscal Year Ended March 31, 1937

RESIDENTIAL SCHOOLS

Province	Number of Schools	Denomination				Number on Roll			Average Attendance	Percentage of Attendance	Grades								
		Church of England	Presbyterian	Roman Catholic	United Church	Boys	Girls	Total			I	II	III	IV	V	VI	VII	VIII	IX
Nova Scotia.....	1			1		83	82	165	155	93-93	49	22	20	24	34	7	9		
Quebec.....	1	1				23	32	55	54	98-18	25	12	7		11				
Ontario.....	13	6	1	6	1	776	835	1,611	1,501	93-17	455	185	210	219	192	149	114	66	21
Manitoba.....	9	1	1	4	3	470	537	1,007	929	92-25	302	183	154	124	99	83	30	24	8
Saskatchewan.....	14	3		9	2	837	937	1,774	1,597	90-02	624	219	225	203	187	133	75	35	15
Alberta.....	19	5		12	2	815	1,036	1,951	1,762	90-31	698	248	285	240	167	139	102	51	21
Northwest Territories.....	5	2		3		82	97	179	155	87-15	88	27	30	23	7	3	1		
British Columbia.....	16	2		9	5	1,092	1,138	2,230	1,932	87-98	754	356	300	277	206	166	112	37	22
Yukon.....	2	2				35	35	68	60	88-23	19	16	14	4	8	2	4	1	
Total, residential schools.....	80	21	2	44	13	4,313	4,727	9,040	8,176	90-44	3,014	1,268	1,245	1,174	911	682	447	212	87

DAY SCHOOLS

Province	Number of Schools	Number on Roll			Average Attendance	Percentage of Attendance	Grades												
		Boys	Girls	Total			I	II	III	IV	V	VI	VII	VIII	IX				
Prince Edward Island.....	1	7	12	19	14	73-68	9	1	3		3				1				
Nova Scotia.....	10	143	142	285	186	65-26	124	55	25	39	24	7		6			5		
New Brunswick.....	11	157	181	338	282	77-51	99	55	46	39	35	31	26		7				
Quebec.....	31	805	791	1,596	1,181	73-99	671	227	216	199	124	74	58	24					3
Ontario.....	85	1,428	1,471	2,899	1,879	64-81	1,161	437	316	301	275	175	137	86					11
Manitoba.....	46	757	688	1,445	755	52-24	834	254	142	100	73	32	6	3					1
Saskatchewan.....	24	273	279	552	337	61-05	311	87	52	58	26	10	2	6					
Alberta.....	2	16	19	35	24	68-57	12	8		2	3		6						
Northwest Territories.....	4	17	26	43	26	60-45	32	7	3	1									
British Columbia.....	55	825	863	1,688	917	54-32	901	263	220	137	89	48	19						
Yukon.....	6	65	62	127	63	49-60	88	24	5	10									
Total, day schools.....	275	4,493	4,534	9,027	5,644	62-52	4,242	1,418	1,028	888	652	383	255	146					15

COMBINED WHITE AND INDIAN DAY SCHOOLS

Ontario.....	5	88	67	155	107	69-03	44	25	17	25	15	7	12	8					2
Manitoba.....	3	26	23	49	25	51-02	29	6	7	1	4								
Saskatchewan.....	1	4	6	10	6	60-00	7					1		1					1
British Columbia.....	1	6	10	16	8	50-00	12	3											
Total, combined white and Indian day schools.....	10	124	106	230	146	63-47	92	34	24	26	20	10	12	9					3

Summary of School Statement

Province	Classes of Schools			Total Number of Schools	Number on Roll			Average Attendance	Percentage of Attendance	Grades								
	Day	Residential	Combined		Boys	Girls	Total			I	II	III	IV	V	VI	VII	VIII	IX
Prince Edward Island.....	1			1	7	12	19	14	73.68	9	1	3	2	3		1		
Nova Scotia.....	10	1		11	226	224	450	341	75.77	173	77	45	63	58	14	15	5	
New Brunswick.....	11			11	157	181	338	262	77.51	99	55	46	39	35	31	26	7	
Quebec.....	31	1		32	828	823	1,651	1,235	74.80	696	239	223	199	135	74	58	24	3
Ontario.....	85	13	5	103	2,292	2,373	4,665	3,487	74.75	1,660	647	543	545	482	381	263	160	34
Manitoba.....	46	9	3	58	1,253	1,248	2,501	1,709	68.33	1,165	443	303	225	176	117	36	27	9
Saskatchewan.....	24	14	1	39	1,114	1,222	2,336	1,940	83.05	942	306	277	321	213	144	77	40	16
Alberta.....	2	19		21	931	1,055	1,986	1,786	89.92	710	256	285	242	170	145	102	55	21
Northwest Territories.....	4	5		9	99	123	222	182	81.98	120	34	33	24	7	3	1		
British Columbia.....	55	16	1	72	1,923	2,011	3,934	2,887	73.38	1,667	622	520	414	296	214	131	48	22
Yukon.....	6	2		8	100	95	195	123	63.08	107	40	19	14	8	2	4	1	
Total.....	275	80	10	365	8,930	9,367	18,297	13,966	76.33	7,348	2,720	2,297	2,088	1,583	1,075	714	367	105

Expenditure—Votes 166 and 378—By Primary Allotments and Provinces, 1936-37

Province	Admin- stration	Training	Medical	Welfare	British Columbia Special	Irrigation Roads and Surveys	Total
	\$	\$	\$	\$	\$	\$	\$
Prince Edward Island...	1,357 50	1,882 52	5,074 47	6,231 76			14,546 25
Nova Scotia.....	4,934 42	40,943 66	35,941 00	76,024 84		2,253 34	160,097 26
New Brunswick.....	5,674 85	17,429 26	24,136 76	62,184 42		264 15	109,689 44
Quebec.....	24,267 48	69,482 97	77,227 80	202,228 89		8,295 48	381,502 62
Ontario.....	81,731 71	370,401 35	208,602 03	158,955 76		5,818 46	825,509 31
Manitoba.....	61,213 61	218,296 20	110,864 01	93,020 81		1,433 88	484,828 51
Saskatchewan.....	122,315 06	330,810 77	131,529 12	82,297 64		193 06	667,145 65
Alberta.....	92,566 70	316,615 95	114,262 30	133,970 50			657,415 45
British Columbia.....	131,795 64	396,481 15	208,168 34	123,124 50	99,504 09	4,156 87	963,230 59
Yukon.....	1,168 47	19,639 91	12,207 07	8,703 74			41,719 19
Northwest Territories.....	24,756 63	38,994 06	43,819 31	26,444 04			134,014 04
General.....	34,896 45		12,501 96	10,350 94		607 74	58,357 09
	586,678 52	1,820,977 80	984,334 17	983,537 84	99,504 09	23,022 98	4,498,055 40

Annuities Paid and Interest on Indian Trust Funds 1936-37

ALBERTA

Athabaska.....	\$ 7,685 00
Blackfoot.....	121,086 74
Blood.....	7,763 94
Edmonton.....	23,009 16
Hobbema.....	15,553 75
Lesser Slave Lake.....	15,025 00
Peigan.....	6,276 71
Saddle Lake.....	7,236 13
Sarcee.....	2,395 92
Stony.....	4,906 15
	\$ 210,938 50

BRITISH COLUMBIA

Babine.....	\$ 584 77
Bella Coola.....	301 03
Cowichan.....	5,499 06
Fort St. John.....	1,812 51
Kamloops.....	908 88
Kootenay.....	659 77
Kwawkwalth.....	3,337 23
Lytton.....	4,001 17
New Westminster.....	15,217 24
Nicola.....	92 55
Okanagan.....	1,069 10
Queen Charlotte.....	281 40
Skeena River.....	2,748 53
Stikine.....	83
Stuart Lake.....	1,506 97
Vancouver.....	10,009 58
West Coast.....	1,333 83
Williams Lake.....	113 50
	\$ 49,477 95

MANITOBA

Birtle.....	\$ 3,447 01
Clandeboye.....	18,098 14
Fisher River.....	9,721 13
Fort Churchill.....	1,090 00
Griswold.....	393 63
Manitowapah.....	11,241 92
Norway House.....	15,972 42
The Pas.....	24,265 02
Portage la Prairie.....	8,139 52
York Factory.....	2,250 00
	\$ 94,619 69

*Annuities Paid and Interest on Indian Trust Funds 1936-37—Concluded*SASKATCHEWAN—*Concluded*

Onion Lake..	\$	6,064 87
Pelly..		12,204 32
Qu'Appelle..		26,030 31
Touchwood..		19,281 24
Wood Mountain..		3 07
		<hr/>
	\$	146,823 26

INDIAN TRUST FUND

Showing Transactions in Connection with the Fund during the Fiscal Year ending March 31, 1937

Service	Debit	Credit
Balance, March 31, 1936..		\$13,877,868 60
Collections on land sales, timber, and stone dues, rents, fines, fees, etc..		480,005 63
Interest for year ending March 31, 1937..		704,791 63
Credit transfers during year..		20,390 43
Expenditure during year..	\$ 1,073,784 80	
Transfers by warrant, etc..	11,627 36	
Balance, March 31, 1937..	13,997,644 13	
	<hr/>	<hr/>
	\$15,083,056 29	\$15,083,056 29

IMMIGRATION BRANCH

F. C. BLAIR, DIRECTOR

On December 1, 1936, the Department of Immigration and Colonization became the Immigration Branch of the Department of Mines and Resources then created. Between Confederation in 1867 and March 1892, immigration was under the control of the Department of Agriculture. From 1892 until October 1917, it was a branch of the Department of the Interior, being then created the Department of Immigration and Colonization. The Immigration Branch is responsible for the administration of the Immigration Act and Regulations, the Chinese Immigration Act and Regulations, and all matters related to the encouragement of immigration, the inspection of immigrants, tourists, and other travellers seeking entry to Canada, the exclusion of the prohibited and undesirable classes, the investigation of complaints subsequently arising in Canada, and the deportation of undesirables; also general matters relating to colonization in Canada.

The organization through which the Branch functions under the Minister and the Deputy Minister, consists of a Head Office in Ottawa with four District Offices in Canada and one in London, England. The Head Office organization includes a Director of Immigration, a Commissioner of Immigration and his Assistant with the necessary staff and units dealing with the collection and preparation of statistics, the oversight of juvenile immigration, and women's work. The four Districts in Canada are known as the Atlantic, the Eastern, the Western, and the Pacific, concerning which further information will be found in the Report of the Commissioner of Immigration.

All immigration work in the British Isles and in Continental Europe comes under the immediate direction of the Commissioner of European Emigration, W. R. Little, Oceanic House, 1 A. Cockspur St., London. A special office is maintained at Hong Kong as required by the Chinese Immigration Act and Regulations. The immigration officer there is a Controller of Chinese Immigration.

There have been no important changes in immigration regulations or policy during the year.

Immigration reached its lowest point since statistics were collected in 1935-36 when the total admissions from all countries was 11,103. In the year under review the number was 12,023. The statistical tables show the racial origin of these immigrants and also that dependants continue to form the bulk of the present day movement.

The Immigration Regulations affecting the admission of immigrants from the British Isles, self-governing British Dominions, and the United States of America, have remained unchanged for many years. The question is often asked in view of this fact, why there is not a larger British immigration. The answer is found in the following:

- (a) Between 1929 and 1931 all governmental immigration propaganda was discontinued, agencies and staffs in the British Isles were reduced, and agencies in the United States were closed altogether.

- (b) Passage assistance was discontinued. This was finally terminated in 1931 after being in effect for 8 years. Between 1923 and 1931 transportation assistance was given to approximately 120,000 British immigrants. Some of these came on free tickets, whereas others paid as low as £2 towards ocean fare, the normal cost of which was between £16 and £17.
- (c) Unemployment conditions prevailing in Canada in common with most other countries. To prevent disappointment to the prospective immigrant and to protect Canada against an influx of unwanted labour, greater care was taken to check up on the possession of funds, the prospects of employment, and the settlement conditions in general.
- (d) A growing demand in the British Isles for skilled and unskilled labour. There is not much incentive to move when employment conditions at home are as good if not better than those abroad.

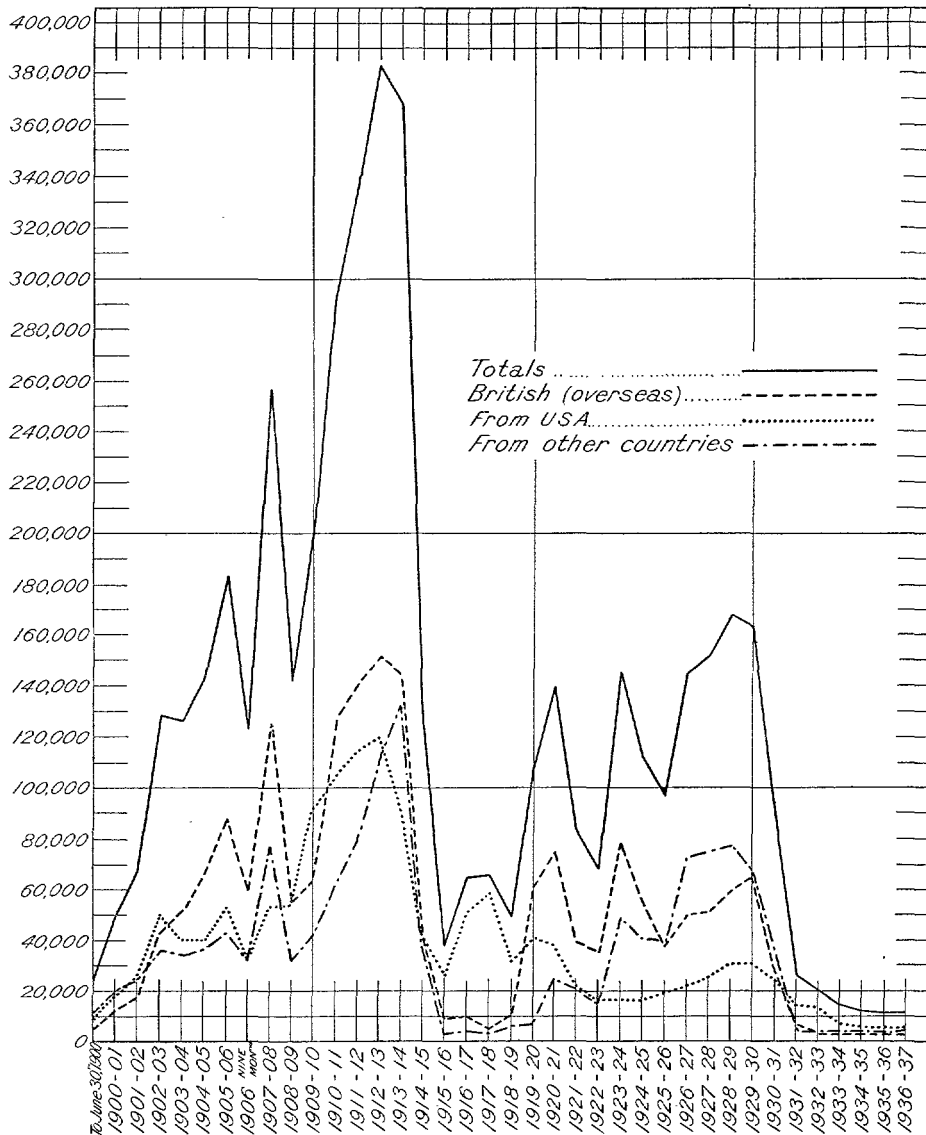
The statistical data presented have been prepared with a view to supplying the information most frequently asked for and at the same time provide a basis of comparison between pre-war and post-war immigration. In earlier reports reference was made to the impossibility of supplying complete immigration figures over a longer period than that shown in Table 1. This is due to the fact that only in the opening years of this century was an effort made to examine all passengers and record the immigration movement across the International Boundary. In the movement of persons between the United States and Canada prior to 1900 there is no way of distinguishing between immigrants and visitors. In these circumstances figures are now published back only to 1900. A glance at the graph on page 237 will show the wide variations in Canada's immigration in the last 36 years. Many factors have contributed to the ebb and flow since its heyday in 1912-13 when the arrivals of one year totalled 382,841, of which almost 160,000 were British, 92,000 were United States citizens, and the remaining 130,000 came from all other parts of the world. At the other end of the scale is the record of 1936 when immigration fell to the lowest point since Confederation.

Although there are many conflicting opinions as to how far immigration should be encouraged or allowed, there are no two opinions as to the value to Canada of another larger, and for the time being a more important, movement of people—the tourist. Varying estimates are placed upon the monetary value to Canada of the tourist. There is no doubt that our National Parks, our lakes and streams, and picturesque country are yearly becoming more popular as a playground for millions of visitors from the United States and many thousands from overseas. It should be more generally recognized that Canada's continued appeal to the tourist will depend to a certain extent upon the friendly welcome and courteous treatment extended by her people. Inconsiderate treatment and an unfriendly attitude to the individual, do incalculable harm both to the visitor of this year and his friends who might come next year.

A movement not included in the immigration statistics, in other words not counted as immigrants, is that of the returning Canadian. An effort to collect and tabulate this information was commenced at the beginning of the fiscal year 1924-25. The following table shows the number of returning Canadians who left Canada to reside in the United States and who returned to Canada declaring their intention to resume permanent residence in Canada. Canadian citizens as defined in the Immigration Act are divided into three classes, as the heading of the table indicates.

Returning Canadians

	Canadian Born	British Born Outside Canada	Canadians Naturalized	Totals
Fiscal year, 1924-25.....	36,473	4,487	2,815	43,775
Fiscal year, 1925-26.....	40,246	4,102	2,873	47,221
Fiscal year, 1926-27.....	49,255	5,326	2,376	56,957
Fiscal year, 1927-28.....	35,137	3,280	1,470	39,887
Fiscal year, 1928-29.....	30,008	2,795	995	33,798
Fiscal year, 1929-30.....	26,959	2,030	841	29,830
Fiscal year, 1930-31.....	26,811	2,111	1,287	30,209
Fiscal year, 1931-32.....	17,691	1,069	651	19,411
Fiscal year, 1932-33.....	16,320	757	548	17,625
Fiscal year, 1933-34.....	8,366	397	409	9,172
Fiscal year, 1934-35.....	5,811	937	370	7,618
Fiscal year, 1935-36.....	4,854	418	542	5,814
Fiscal year, 1936-37.....	4,522	319	223	5,064



Immigration to Canada, from January 1, 1900, to March 31, 1937.

TABLE 1

Immigration to Canada from 1900 to 1937

	Via Ocean Ports			From U.S.A.				Grand Totals
	British Nationals	Others	Totals	U.S.A. Citizens	British Nationals	Others	Totals	
Six months ended June 30, 1900..	5,141	10,211	15,352				8,543	23,895
Fiscal year ended June 30, 1901..	11,813	19,349	31,162				17,987	49,149
“ “ 1902..	17,270	23,721	40,991				26,388	67,379
“ “ 1903..	42,200	36,691	78,891				49,473	128,364
“ “ 1904..	51,050	34,110	85,160	12,648	4,145	23,946	40,739	125,899
“ “ 1905..	65,967	36,756	102,723	15,477	2,263	22,190	39,930	142,653
“ “ 1906..	88,174	43,094	131,268	33,013	2,108	17,675	52,796	184,064
Nine months ended March 31, 1907..	59,272	30,736	90,008	20,479	1,309	10,369	32,157	122,165
Fiscal year ended March 31, 1908..	126,783	77,374	204,157	31,411	2,674	19,067	53,152	257,309
“ “ 1909..	55,463	31,613	87,076	33,474	2,894	17,926	54,294	141,370
“ “ 1910..	63,757	41,239	104,996	65,190	3,662	22,196	91,048	196,044
“ “ 1911..	126,170	63,463	189,633	77,353	5,007	22,524	104,884	294,517
“ “ 1912..	141,504	79,023	220,527	91,840	6,236	16,250	114,326	334,853
“ “ 1913..	152,373	111,050	263,423	92,061	7,398	19,959	119,418	382,841
“ “ 1914..	144,513	132,835	277,348	74,745	6,374	8,773	89,892	367,240
“ “ 1915..	44,117	40,893	85,010	34,745	3,541	3,482	41,768	126,778
“ “ 1916..	9,032	2,568	11,600	21,370	2,796	1,687	25,853	37,453
“ “ 1917..	9,980	4,005	13,985	43,261	3,324	4,558	51,143	65,128
“ “ 1918..	4,879	2,881	7,760	47,818	3,444	6,923	58,185	65,945
“ “ 1919..	10,701	6,286	16,987	28,280	1,725	1,950	31,955	48,942
“ “ 1920..	60,659	7,021	67,680	36,628	2,250	1,850	40,728	108,408
“ “ 1921..	75,783	24,635	100,418	33,891	2,768	1,651	38,310	138,728
“ “ 1922..	39,606	21,048	60,654	18,782	1,825	1,063	21,670	82,324
“ “ 1923..	36,360	14,520	50,880	14,095	1,641	830	16,566	67,446
“ “ 1924..	78,740	49,299	128,039	14,928	1,478	805	17,211	145,250
“ “ 1925..	54,943	40,601	95,544	13,171	1,794	853	15,818	111,362
“ “ 1926..	37,569	39,717	77,286	15,442	2,251	1,085	18,778	96,064
“ “ 1927..	50,378	72,586	122,964	17,820	2,239	966	21,025	143,989
“ “ 1928..	51,552	75,041	126,593	21,260	2,696	1,051	25,007	151,600
“ “ 1929..	59,497	77,666	137,163	26,539	3,061	960	30,560	167,723
“ “ 1930..	64,962	67,599	132,561	26,751	3,121	855	30,727	163,288
“ “ 1931..	28,144	35,799	63,943	20,723	2,938	619	24,280	88,223
“ “ 1932..	7,332	4,123	11,455	12,277	1,815	205	14,297	25,752
“ “ 1933..	3,283	3,303	6,586	11,172	1,806	218	13,196	19,782
“ “ 1934..	2,454	3,709	6,163	6,545	1,032	163	7,740	13,903
“ “ 1935..	2,408	3,768	6,176	5,104	769	87	5,960	12,136
“ “ 1936..	2,264	3,718	5,982	4,322	709	90	5,121	11,103
“ “ 1937..	2,521	4,389	6,910	4,301	742	70	5,113	12,023

TABLE 2

Immigration to Canada for the Period July 1, 1900, to March 31, 1910

	Fiscal Years										Totals
	1900-1901	1901-1902	1902-1903	1903-1904	1904-1905	1905-1906	Nine Months Ended March 31, 1907	1907-1908	1908-1909	1909-1910	
English.....	9,331	12,783	32,087	36,003	48,847	65,135	41,156	90,380	37,019	40,416	413,157
Irish.....	933	1,311	2,236	3,128	3,998	5,018	3,404	6,547	3,609	3,940	34,124
Scottish.....	1,476	2,853	7,046	10,552	11,744	15,846	10,729	22,223	11,810	14,706	108,985
Welsh.....	70	312	423	691	770	797	502	1,032	463	728	5,788
Totals.....	11,810	17,259	41,792	50,374	65,359	86,796	55,791	120,132	52,901	59,790	562,054
African, South.....				21	35	46	23	76	53	97	351
Arabian.....	98	70	46	58	48	19	31	50	4	14	438
Armenian.....	62	112	113	81	78	82	208	563	79	75	1,453
						322	185	180	171	203	1,383
						10,170	4,045	21,376	10,798	9,757	104,716
						2	5	1	4		15
						71	179	2,529	56	557	3,416
						18	92	1,884	1,887	2,156	6,046
						204					240
Dutch.....	25	35	223	169	281	389	394	1,212	495	741	3,964
East Indian.....	1	1,292			45	387	2,124	2,623	6	10	5,195
Egyptian.....		3	1	3	2	18	10	8	2	2	50
Finnish.....	682	1,292	1,734	845	1,323	1,103	1,049	1,212	669	1,457	11,366
French and Belgian.....	492	654	1,240	2,392	2,539	2,754	1,964	3,885	2,658	2,637	21,215
German.....	984	1,048	1,837	2,985	2,759	1,796	1,903	2,377	1,340	1,533	18,612
Greek.....	81	161	193	191	98	364	241	1,052	159	452	3,220
Hebrew.....	2,765	1,015	2,066	3,727	7,715	7,127	6,584	7,712	1,636	3,182	43,529
Italian.....	4,710	3,828	3,371	4,445	3,473	7,959	5,114	11,212	4,228	7,118	55,458
Japanese.....	6				354	1,922	2,042	7,601	495	271	12,691
Malay.....		5									5
Maltese.....			9								2
Mennonite.....		52									101
Negro.....											371
Newfoundland.....			3								11,267
New Zealand.....											418
Persian.....		1									105
Polish.....	162	230	2								7,214
P.....					1	6	2	2	2	2	15
P.....					270	396	431	949	278	293	4,377
P.....					1,887	3,152	1,927	6,281	3,547	4,564	32,529
P.....					4,118	3,859	2,296	4,073	2,082	3,782	34,062
P.....					7	19	4	48	31	76	220
P.....					10	12	29	61	32	49	213
Spanish.....	14	1	7	5	10	172	112	195	129	211	1,217
Swiss.....	30	17	73	128	150	172	112	195	129	211	1,217
Syrian.....	464	1,066	847	369	630	336	277	732	189	195	5,105
Turkish.....	37	17	43	29	30	357	232	489	236	517	1,987
U.S.A. citizens, via ocean ports.....	63	73		58	109	123	89	133	94	186	933
West Indian.....			23	55	77	194	90	278	159	203	1,079
Total Continental, etc....	19,352	23,732	37,099	34,786	37,364	44,472	34,217	83,975	34,175	45,206	394,378
From the United States.....	17,987	26,388	49,473	40,739	39,930	52,796	32,157	53,152	54,294	91,048	457,964
Total immigration.....	49,149	67,379	128,364	125,899	142,653	184,064	122,165	257,309	141,370	196,044	1,414,396

TABLE 3

Immigration to Canada for the Period April 1, 1910, to March 31, 1920

	Fiscal Years										Totals
	1910-1911	1911-1912	1912-1913	1913-1914	1914-1915	1915-1916	1916-1917	1917-1918	1918-1919	1919-1920	
English.....	84,707	95,107	108,082	102,122	30,807	5,857	5,174	2,477	7,954	45,173	487,460
Irish.....	6,877	8,327	9,706	9,585	3,525	818	958	174	336	2,751	43,057
Scotch.....	29,924	32,988	30,735	29,128	8,346	1,887	2,062	473	1,518	10,997	148,058
Welsh.....	1,505	1,699	2,019	1,787	598	102	88	54	106	682	8,640
Totals.....	123,013	138,121	150,542	142,622	43,276	8,664	8,282	3,178	9,914	59,603	687,215
African, South.....	86	144	22	56	23	11	1	4		23	370
Albanian.....				3	4						7
Arabian.....	3	2	10	16							31
Argentinian.....				2	5						9
Armenian.....	20	60	100	139	36		3	2			370
Australian.....	266	184	106	106	51	32	18	34	35	88	920
Austro-Hungarian.....	16,285	21,651	21,875	28,323	7,150	15	1		2	8	95,310
Belgian.....	1,563	1,601	1,826	2,651	1,149	172	126	19	48	1,532	10,687
Brazilian.....	13			5		2					20
Bulgarian.....	1,068	3,295	4,616	1,727	4,048	1				1	14,756
Chinese.....	5,278	6,247	7,445	5,512	1,258	88	393	769	4,333	544	31,867
Cuban.....				10	1	1	3	1			18
Doukhobor.....	41	24	108	4							177
Dutch.....	931	1,077	1,524	1,506	605	186	151	94	59	164	6,287
East Indian.....	5	3	5	88		1					102
Egyptian.....	3		7	5							15
Finnish.....	2,132	1,646	2,391	3,183	459	139	249	113	2	44	10,358
French.....	2,041	2,094	2,755	2,683	1,206	180	199	114	222	1,584	13,078
German.....	2,533	4,664	4,953	5,537	2,472	27	9	1	1	12	20,209
Greek.....	777	693	1,390	1,102	1,147	145	258	45	4	39	5,600
Hebrew.....	5,146	5,322	7,387	11,252	3,107	65	136	32	22	116	32,585
Italian.....	8,359	7,590	16,601	24,722	6,228	388	758	189	49	1,165	66,049
Japanese.....	437	765	724	856	592	401	648	883	1,178	711	7,195
Macedonian.....			17	132							149
Maltese.....			128	402	19	4	109	144	2	406	1,213
Mexican.....		3	9	9				1	3		25
Montenegrin.....			36	13	9						59
Negro.....	12	138	211	266	202	34	98	35	22	61	1,079
Newfoundland.....	2,229	2,598	1,036	496	338	255	1,243	1,199	512	443	10,349
New Zealand.....	116	61	39	24	21	18	12	13	15	31	350
Persian.....	19	19	20	19	7	3		2	2		91
Polish.....	2,177	5,060	9,945	9,793	1,976	8	12		4	76	29,051
Portuguese.....	13	6	9	58	8		1	1		3	99
Roumanian.....	511	793	1,116	1,504	361	4	4			21	4,314
Russian.....	6,621	9,805	18,623	24,485	5,201	40	25	42	42	51	64,985
Scandinavian—											
Danish.....	535	628	798	871	326	167	145	74	44	233	3,821
Icelandic.....	250	205	231	292	145	15	9	3	12	11	1,173
Norwegian.....	2,169	1,692	1,832	1,647	788	232	303	235	91	179	9,168
Swedish.....	3,213	2,394	2,477	2,435	916	177	332	156	101	241	12,442
Serbian.....	50	209	366	193	220	6	1		1	12	1,058
Spanish.....	197	191	296	1,138	755	11	76	28	12	15	2,719
Swiss.....	270	230	246	269	209	42	30	12	11	100	1,419
Syrian.....	124	144	232	278	79	3	9	2			889
Turkish.....	469	632	770	187	33		5			1	2,697
U.S.A. citizens, via ocean ports..	203	143	121	121	41	15	20	28	21	55	768
West Indian.....	455	393	495	719	389	47	315	307	223	66	3,409
Others.....				2	18	1				20	41
Total, Continental, etc.....	66,620	82,406	112,881	134,726	41,734	2,936	5,703	4,582	7,073	8,077	466,738
From the United States.....	104,884	114,326	119,418	89,892	41,768	25,853	51,143	58,185	31,955	40,728	678,152
Total immigration.....	294,517	334,853	382,841	367,240	126,778	37,453	65,128	65,945	48,942	108,408	1,832,106

IMMIGRATION BRANCH

241

TABLE 4

Immigration to Canada for the Period April 1, 1920, to March 31, 1925

	Fiscal Years					Totals
	1920-1921	1921-1922	1922-1923	1923-1924	1924-1925	
English.....	47,687	23,225	19,188	37,030	26,466	153,596
Irish.....	6,384	3,572	3,668	9,719	9,379	32,722
Scottish.....	19,248	11,596	11,071	25,057	16,174	83,146
Welsh.....	943	627	581	1,113	1,159	4,423
Totals.....	74,262	39,020	34,508	72,919	53,178	273,887
African, South.....	63	32	41	60	87	283
Albanian.....	6	6	1	7	2	22
Arabian.....	8	5	2			15
Argentinian.....	4		4			8
Armenian.....	85	70	57	436	304	1,004
Australian.....	90	76	67	112	162	507
Austrian.....	26	14	23	82	75	220
Belgian.....	1,645	503	316	1,682	1,300	5,426
Bulgarian.....		2	7	4	4	25
Canadian.....		27	19	267	69	386
Chinese.....	2,435	1,746	711	674	3	5,566
Cuban.....				1		1
Czecho-Slovak.....	308	152	101	2,757	2,084	5,402
Dutch.....	595	183	119	1,149	1,637	3,683
East Indian.....	10	13	21	40	46	130
Egyptian.....	9	2		3	3	17
Estonian.....			12	51	49	112
Finnish.....			1,171	7,640	4,261	14,747
French.....			281	370	326	2,170
German.....	137	178	216	1,769	2,215	4,515
Greek.....	357	209	177	292	237	1,272
Hebrew.....	2,763	8,404	2,793	4,255	4,459	22,674
Hungarian.....	23	48	23	364	1,052	1,510
Italian.....	3,880	2,413	2,074	6,379	2,349	17,095
Jamaican.....	18	13	30	24	8	93
Japanese.....	532	471	369	448	501	2,321
Jugo-Slav.....	89	180	136	1,306	1,620	3,331
Latvian.....			1	11	20	32
Lettish.....				6	2	8
..		19	106	236	125	486
..		5	3	85	35	144
..		34	57	148	26	405
Mexican.....	1			1		2
Negro.....	144	42	42	42	39	309
Newfoundland.....	1,042	367	1,552	5,346	1,288	9,595
New Zealand.....	40	25	33	50	107	255
Persian.....	1	9	1	5	18	34
Polish.....	4,061	2,707	2,921	4,211	2,734	16,634
Portuguese.....	4		2		3	9
Roumanian.....	969	759	427	1,431	2,056	5,642
Russian.....	1,077	321	222	3,058	5,411	10,089
Scandinavian—						
Danish.....	511	541	382	1,355	1,830	4,619
Icelandic.....	50	31	21	27	49	178
Norwegian.....	429	480	507	2,424	2,550	6,390
Swedish.....	715	442	948	3,536	2,138	7,779
Spanish.....	202	6	15	39	3	265
Swiss.....	235	187	152	1,585	680	2,839
Syrian.....	443	123	91	286	210	1,153
Turkish.....	8	3	3	27	29	70
Ukrainian.....	491	89	36	832	26	1,474
U.S.A. citizens, via ocean ports.....	110	67	32	134	96	439
Venezuelan.....				6		7
West Indian.....	110	24	44	37	37	252
Total, Continental, etc.....	26,156	21,634	16,372	55,120	42,366	161,648
From the United States.....	38,310	21,670	16,566	17,211	15,818	109,575
Total immigration.....	138,728	82,324	67,446	145,280	111,362	548,110

TABLE 5

Immigration to Canada for the Period April 1, 1925, to March 31, 1930

Racial Origin	Fiscal Years					Totals
	1925-1926	1926-1927	1927-1928	1928-1929	1929-1930	
English.....	19,689	24,890	25,991	30,355	32,278	133,203
Irish.....	5,993	9,187	8,756	9,199	10,159	43,294
Scottish.....	10,295	14,296	14,341	16,137	18,640	73,709
Welsh.....	1,053	1,411	1,784	3,189	3,005	10,442
Totals.....	37,030	49,784	50,872	58,880	64,082	260,648
Albanian.....	14	17	30	28	26	115
Arabian.....	10	4	6	1	7	28
Armenian.....	85	65	44	17	14	225
Belgian.....	1,063	2,080	2,171	1,222	696	7,232
Bohemian.....	8	22	7	8	20	65
Bulgarian.....	47	126	249	282	296	1,000
Chinese.....			3	1		4
Croatian.....	1,006	1,085	902	990	771	4,754
Czech.....	805	721	714	846	434	3,520
Dalmatian.....	1			1	7	9
Dutch.....	1,180	1,674	1,928	1,599	1,755	8,136
East Indian.....	62	60	56	52	58	288
Estonian.....	28	92	110	92	117	439
Finnish.....	1,617	5,180	4,765	3,651	4,565	19,778
French.....	498	548	868	745	697	3,356
German.....	7,431	12,941	12,638	13,215	14,718	60,943
Greek.....	217	340	583	736	634	2,510
Hebrew.....	3,587	4,471	4,296	3,301	3,544	19,199
Herzegovinian.....		3	4			7
Italian.....	1,638	3,301	3,593	792	1,277	10,601
Japanese.....	421	475	478	445	194	2,013
Jugo-Slav.....	1,604	2,084	1,450	2,824	921	8,883
Korean.....		1				1
Lettish.....	24	60	77	74	70	305
Lithuanian.....	165	842	1,037	1,608	964	4,616
Magyar.....	4,112	4,863	5,318	6,242	5,688	26,223
Maltese.....	21	33	39	18	40	151
Mexican.....		1				1
Montenegrin.....		5				5
Moravian.....	6	36	33	4	23	102
Negro.....	53	51	88	96	195	483
Persian.....	11	6	4	1	1	23
Polish.....	2,535	6,505	6,733	8,269	6,610	30,652
Portuguese.....	3	14	7	12	13	49
Roumanian.....	265	292	237	284	383	1,461
Russian.....	925	1,127	948	908	765	4,673
Ruthenian.....	4,259	9,995	10,128	15,571	11,291	51,244
Scandinavian—						
Danish.....	1,112	2,030	3,835	3,311	2,685	12,973
Icelandic.....	53	30	28	24	6	141
Norwegian.....	1,072	3,384	4,327	2,434	2,256	13,473
Swedish.....	1,335	2,628	3,134	3,297	2,918	13,312
Serbian.....	454	885	411	390	375	2,515
Slovak.....	2,046	4,274	3,714	4,303	2,879	17,216
Spanish.....	12	29	28	18	26	113
Spanish American.....	6	6		3		9
Swiss.....	320	568	614	490	473	2,465
Syrian.....	134	218	82	75	61	570
Turkish.....	17	8	4	3	6	38
Total, Continental, etc.....	40,256	73,180	75,721	78,283	68,479	335,919
From the United States.....	18,778	21,025	25,007	30,560	30,727	126,097
Total immigration.....	96,064	143,989	151,600	167,723	163,288	722,664

TABLE 6

Immigration to Canada for the Period April 1, 1930, to March 31, 1937

Racial Origin	Fiscal Years							Totals
	1930-1931	1931-1932	1932-1933	1933-1934	1934-1935	1935-1936	1936-1937	
English.....	14,662	4,275	1,940	1,375	1,380	1,286	1,445	26,363
Irish.....	4,233	791	323	283	291	249	262	6,432
Scotch.....	7,872	1,843	764	547	472	484	519	12,501
Welsh.....	817	179	70	55	55	30	38	1,244
Totals.....	27,584	7,088	3,097	2,260	2,198	2,049	2,264	46,540
Albanian.....	25	5		1	3	1	4	39
Arabian.....	2		2		1			5
Armenian.....	21	4	1	7	1	4	3	41
Belgian.....	255	47	37	41	61	72	93	606
Bohemian.....	11		7			1	1	20
Bulgarian.....	295	15	3	12	5	22	18	370
Chinese.....			1	2			1	4
Croatian.....	482	106	96	108	155	157	240	1,344
Czech.....	225	69	65	52	77	106	134	728
Dalmatian.....							1	1
Dutch.....	344	33	33	27	44	111	90	682
East Indian.....	80	47	62	33	33	20	13	288
Estonian.....	63	6		2	2		5	80
Finnish.....	2,297	92	30	51	50	43	49	2,621
French.....	347	87	88	74	86	95	135	912
German.....	7,840	727	518	401	301	209	367	10,363
Greek.....	388	20	37	34	35	53	75	642
Hebrew.....	2,908	202	346	599	335	655	391	5,436
Italian.....	1,007	414	255	267	325	341	299	2,908
Japanese.....	304	195	115	104	93	83	103	897
Jugo-Slav.....	364	57	56	63	120	106	106	872
Lettish.....	28	4		4		3	2	41
Lithuanian.....	466	45	57	37	37	22	42	706
Magyar.....	2,401	397	364	509	362	314	328	4,675
Maltese.....	13	5	2				4	24
Mexican.....							6	6
Montenegrin.....	3							3
Moravian.....	2		3					5
Negro.....	120	15	9	19	5	3	5	176
Persian.....	2		1				1	4
Polish.....	3,997	554	360	374	406	362	432	6,485
Portuguese.....	5	2	1	2	2	4	2	18
Roumanian.....	179	22	26	27	52	33	65	404
Russian.....	879	74	62	61	60	84	79	1,299
Ruthenian.....	6,413	502	414	421	586	418	855	9,609
Scandinavian—								
Danish.....	820	53	55	43	21	21	22	1,035
Icelandic.....	25		1		1	6		33
Norwegian.....	740	70	44	31	37	31	25	978
Swedish.....	730	79	17	19	10	26	16	897
Serbian.....	140	31	26	37	26	29	35	324
Slovak.....	1,957	337	252	395	595	432	520	4,486
Spanish.....	8	9	7	7	7	6	10	54
Spanish American.....	1	2		4				7
Swiss.....	211	24	17	19	22	32	49	374
Syrian.....	54	15	19	14	13	26	19	160
Turkish.....	7	1		2			1	11
Total, Continental, etc.....	36,359	4,367	3,489	3,903	3,978	3,933	4,646	60,676
From the United States.....	24,280	14,297	13,196	7,740	5,960	5,121	5,113	75,707
Total immigration.....	88,223	25,752	19,782	13,903	12,136	11,108	12,023	182,922

Immigration to Canada, by Origins, via Ocean Ports, and from

	1927-28			1928-29			1929-30			1930-31		
	Via Ocean Ports	From U.S.A.	Totals	Via Ocean Ports	From U.S.A.	Totals	Via Ocean Ports	From U.S.A.	Totals	Via Ocean Ports	From U.S.A.	Totals
English.....	25,991	7,291	33,282	30,355	9,181	39,536	32,278	9,379	41,657	14,662	7,498	22,160
Irish.....	8,756	2,936	11,722	9,199	3,767	12,966	10,159	3,762	13,921	4,233	2,904	7,137
Scottish.....	14,341	2,856	17,197	16,137	3,453	19,590	13,640	3,638	22,278	7,872	2,917	10,789
Welsh.....	1,784	289	2,073	3,189	300	3,489	3,005	332	3,337	817	231	1,048
Totals.....	50,872	13,402	64,274	58,880	16,701	75,581	64,082	17,111	81,193	27,584	13,550	41,134
Belgian.....	2,171	78	2,249	1,222	79	1,301	696	92	788	255	105	360
Danish.....	3,835	234	4,119	3,311	351	3,662	2,685	319	3,004	820	184	1,004
Dutch.....	1,928	537	2,465	1,599	741	2,340	1,755	703	2,458	344	444	788
Finnish.....	4,765	112	4,877	3,651	100	3,751	4,565	82	4,647	2,297	57	2,354
French.....	868	3,138	4,006	745	3,934	4,679	697	4,419	5,116	347	4,391	4,738
German.....	12,032	3,190	15,222	12,806	3,803	16,609	14,281	3,733	18,014	7,734	2,673	10,397
.....	28	18	46	24	23	47	6	28	34	25	17	42
.....	4,327	1,330	5,657	2,434	1,419	3,853	2,256	1,149	3,405	740	645	1,385
.....	3,134	757	3,891	3,297	874	4,171	2,918	736	3,654	730	366	1,096
Swiss.....	614	134	748	490	156	646	473	117	590	211	83	294
Totals.....	33,702	9,578	43,280	29,579	11,480	41,059	30,332	11,378	41,710	13,493	8,965	22,458
Albanian.....	30	3	33	28	7	35	26	1	27	25	1	26
Arabian.....	6	1	7	1	1	2	7	2	9	.....	.....	2
Armenian.....	44	9	53	17	10	27	14	16	30	21	1	22
Austrian.....	606	153	759	409	100	509	437	75	512	116	68	184
Bohemian.....	7	67	74	8	86	94	20	81	101	11	57	68
Bulgarian.....	249	2	251	282	2	284	296	10	306	.....	.....	295
Chinese.....	3	.....	3	1	.....	1	.....	.....	.....	.....	.....	.....
Croatian.....	902	5	907	990	24	1,014	771	11	782	432	2	484
Czech.....	714	13	727	846	5	851	434	14	448	225	8	233
.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	52	.....	53	.....	.....	.....	.....	.....	80
.....	.....	.....	.....	92	.....	92	.....	.....	.....	.....	.....	65
Greek.....	583	72	655	736	70	806	634	48	682	388	48	436
Hebrew.....	4,296	470	4,766	3,301	547	3,848	3,544	620	4,164	2,908	513	3,421
Herzegovinian.....	4	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....
Italian.....	3,593	190	3,783	.....	.....	.....	.....	.....	.....	.....	.....	.....
Japanese.....	478	.....	478	.....	.....	.....	.....	.....	.....	.....	.....	.....
Jugo-Slav.....	1,450	19	1,469	2,324	32	2,356	921	35	956	364	27	391
Lettish.....	77	8	85	74	3	77	70	8	78	28	1	29
Lithuanian.....	1,037	15	1,052	1,608	18	1,626	964	22	986	466	11	477
Magyar.....	5,318	103	5,421	6,242	106	6,348	5,688	99	5,787	2,401	71	2,472
Maltese.....	39	1	40	18	1	19	40	1	41	13	6	19
Mexican.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	158
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
North American Indian.....	.....	28	28	.....	23	23	.....	22	22	.....	.....	8
Persian.....	4	.....	4	1	.....	1	.....	1	1	.....	.....	2
Polish.....	6,733	254	6,987	8,269	246	8,515	6,610	227	6,837	3,997	226	4,223
Portuguese.....	7	4	11	12	10	22	13	11	24	5	10	15
Roumanian.....	237	38	275	284	48	332	383	62	445	179	44	223
Russian.....	948	184	1,132	908	285	1,193	765	173	938	879	97	976
Ruthenian.....	10,128	61	10,189	15,571	39	15,610	11,291	41	11,332	6,413	78	6,491
Serbian.....	411	15	426	390	20	410	375	29	404	140	18	158
Slovak.....	3,714	20	3,734	4,303	40	4,343	2,879	46	2,925	1,957	32	1,989
Spanish.....	28	17	45	18	49	67	26	37	63	8	26	34
.....	.....	.....	.....	3	4	7	.....	4	4	.....	.....	2
.....	.....	.....	.....	75	44	119	61	51	112	54	22	76
.....	.....	.....	.....	3	4	7	6	1	7	.....	.....	7
Totals.....	42,019	2,027	44,046	48,704	2,379	51,083	38,147	2,238	40,385	22,866	1,765	24,631
Grand totals.....	126,593	25,007	151,600	137,163	30,560	167,723	132,561	30,727	163,288	63,943	24,280	88,223

7

the United States, for the Period April 1, 1927, to March 31, 1937

1931-32			1932-33			1933-34			1934-35			1935-36			1936-37		
Via Ocean Ports	From U.S.A.	Totals	Via Ocean Ports	From U.S.A.	Totals	Via Ocean Ports	From U.S.A.	Totals	Via Ocean Ports	From U.S.A.	Totals	Via Ocean Ports	From U.S.A.	Totals	Via Ocean Ports	From U.S.A.	Totals
4,275	4,525	8,800	1,940	4,153	6,093	1,375	2,623	3,998	1,380	2,053	3,433	1,286	1,744	3,030	1,445	1,738	3,183
791	1,716	2,507	323	1,512	1,835	283	905	1,188	291	727	1,018	249	626	875	262	617	879
1,843	1,732	3,575	764	1,747	2,511	547	1,038	1,585	472	734	1,206	484	677	1,161	639	519	1,158
179	147	326	70	92	162	55	77	132	55	55	110	30	56	86	38	69	107
7,088	8,120	15,208	3,097	7,504	10,601	2,260	4,643	6,903	2,198	3,569	5,767	2,049	3,103	5,152	2,264	3,063	5,327
47	31	78	37	42	79	41	23	64	61	18	79	72	9	81	93	13	106
53	87	140	55	53	108	43	47	90	21	28	49	21	33	54	22	44	66
33	236	269	33	226	259	27	137	164	44	104	148	111	97	208	90	102	192
92	38	130	30	29	59	51	16	67	59	21	80	43	24	67	49	16	65
87	2,734	2,821	88	2,702	2,790	74	1,130	1,204	86	809	895	95	724	819	135	711	846
727	1,532	2,259	518	1,180	1,698	401	755	1,156	301	656	957	209	471	680	367	529	896
.....	10	10	1	6	7	.....	10	10	12	13	25	6	6	12	.....	2	2
70	171	241	44	218	262	31	108	139	37	93	130	31	94	125	25	74	99
79	195	274	17	165	182	19	110	129	10	83	93	26	89	115	16	73	89
24	28	52	17	41	58	19	30	49	22	21	43	32	18	50	49	16	65
1,212	5,062	6,274	840	4,662	5,502	706	2,366	3,072	642	1,845	2,487	646	1,565	2,211	846	1,580	2,426
5	.....	5	.....	.....	.....	1	.....	1	3	.....	3	1	.....	1	4	.....	4
4	1	5	2	1	3	2	7	9	1	4	5	1	1	2	3	1	4
.....	21	21	7	16	23	10	10	20	9	9	18	6	7	13	1	13	14
15	3	18	3	5	8	12	2	14	5	5	10	22	2	24	18	1	19
.....
106	5	111	96	4	100	108	6	114	155	4	159	157	1	158	240	4	244
69	9	78	65	7	72	52	7	59	77	4	81	106	1	107	134	4	138
.....
47	47	94	62	1	63	39	2	41	39	2	41	20	1	21	13	.....	13
6	1	7	1	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
26	43	69	37	32	69	34	26	60	35	17	52	53	19	72	75	20	95
202	447	649	346	426	772	599	344	943	335	289	624	655	225	880	391	228	619
.....
414	166	580	255	142	397	267	109	376	325	56	381	341	49	390	299	58	357
185	.....	185	115	.....	115	104	1	105	93	.....	93	83	.....	83	103	.....	103
57	9	66	56	11	67	63	3	66	120	2	122	106	3	109	106	3	109
4	2	6	4	4	8	4	4	8	4	4	8	3	3	6	2	3	5
45	5	50	57	6	63	37	2	39	37	5	42	22	3	25	42	10	52
397	41	438	364	20	384	509	18	527	362	20	382	314	22	336	328	11	339
5	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....
15	83	98	9	60	69	19	57	76	5	16	21	3	20	23	5	17	22
.....	34	34	20	20	40	8	8	16	6	6	12	2	2	4	2	2	4
.....
554	108	662	360	99	459	374	50	424	406	40	446	382	42	424	432	35	467
2	2	4	1	6	7	2	2	4	6	3	9	4	3	7	2	2	4
22	15	37	26	11	37	27	7	34	52	5	57	33	4	37	65	2	67
74	32	106	62	35	97	61	16	77	60	25	85	84	13	97	79	19	98
502	38	540	414	47	461	421	8	429	586	15	601	418	8	426	855	15	870
31	16	47	26	18	44	37	10	47	26	3	29	29	3	32	35	3	38
337	9	346	252	8	260	395	6	401	595	12	607	432	11	443	520	7	527
9	11	20	7	16	23	7	6	13	7	7	14	6	5	11	10	11	21
2	2	4	1	1	2	4	4	8	4	4	8	4	4	8	1	1	2
15	16	31	19	26	45	14	26	40	13	7	20	26	10	36	19	5	24
1	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
3,155	1,115	4,270	2,649	1,030	3,679	3,197	731	3,928	3,336	546	3,882	3,287	453	3,740	3,800	470	4,270
11,455	14,297	25,752	6,586	13,196	19,782	6,163	7,740	13,903	6,176	5,960	12,136	5,982	5,121	11,103	6,910	5,113	12,023

TABLE 8

Number of Arrivals via Ocean Ports, Classified by Port of Entry and Class, for the Fiscal Year Ended March 31, 1937

Port of Entry	Number of Arrivals	Rejections	Admissions	Returned Canadians					Tourists	Professional	Students	Diplomatic Corps	Other Transients
				Totals	Canadian Born	British Born	British National	Alien National					
Quebec.....	37,840	56	3,467	26,150	10,684	13,362	1,342	762	7,474	9	8	16	660
Halifax.....	6,319	23	1,728	3,726	1,304	1,678	405	339	775			5	62
St. John.....	788	8	23	535	391	88	53	3	214		1		7
North Sydney.....	610	47	365	82	26	19	14	23	84				32
Vancouver.....	4,823	19	206	1,747	853	262	343	289	635				2,216
Victoria.....	933	1	36	352	162	68	79	23	206		5		353
Montreal.....	1,750	36	52	1,344	917	338	64	25	315		1		2
Sydney.....	5	1											
New York.....	945	27	918										
Boston.....	11	4											
Charlottetown.....	5			5	4	1							
Sorel.....	7			7	4	2							
Other ports.....	129	25	104				1						
Totals.....	54,165	247	6,910	33,928	14,345	15,818	2,301	1,464	9,703	9	15	21	3,332

TABLE 9

Immigration to Canada for the Fiscal Year Ended March 31, 1937, Showing Sex, Occupation, and Destination

	Via Ocean Ports	From United States	Totals
Sex—			
Adult males.....	1,352	1,499	2,851
Adult females.....	2,858	2,123	4,981
Children under 18 years.....	2,700	1,491	4,191
Totals.....	6,910	5,113	12,023
Occupation—			
Farming Class—			
Males.....	523	312	835
Females.....	335	154	489
Children.....	591	166	757
Labouring Class—			
Males.....	151	130	281
Females.....	18	39	57
Children.....	33	38	71
Mechanics—			
Males.....	184	239	423
Females.....	68	112	180
Children.....	47	74	121
Trading Class—			
Males.....	198	379	577
Females.....	70	175	245
Children.....	45	118	163
Mining Class—			
Males.....	13	19	32
Females.....	5	6	11
Children.....	4		4
Female Domestic Servants—			
18 years and over.....	440	61	501
Under 18 years.....	79		79
Other Classes—			
Males.....	283	420	703
Females.....	1,922	1,576	3,498
Children.....	1,901	1,095	2,996
Destination—			
Nova Scotia.....	374	309	683
New Brunswick.....	55	215	270
Prince Edward Island.....	8	53	61
Quebec.....	1,065	968	2,033
Ontario.....	2,835	2,305	5,140
Manitoba.....	851	156	1,007
Saskatchewan.....	354	171	525
Alberta.....	570	353	923
British Columbia.....	793	580	1,373
Yukon Territory.....		3	3
Northwest Territories.....	5		5

TABLE 10

Immigration to Canada for the Fiscal Year 1936-37, Showing Racial Origin and Sex

Racial Origin	Via Ocean Ports					From the United States					Grand Totals
	Totals	18 Years and Over		Under 18 Years		Totals	18 Years and Over		Under 18 Years		
		M.	F.	M.	F.		M.	F.	M.	F.	
Albanian.....	4		1	2	1						4
Armenian.....	3	2	1			1				1	4
Belgian.....	93	30	32	15	16	13	5	5	3		106
Bohemian.....	1			1		13	5	6	1	1	14
British—											
English.....	1,445	444	692	143	166	1,738	489	733	278	238	3,183
Irish.....	262	100	121	16	25	617	173	248	114	82	879
Scotch.....	519	148	237	69	65	639	186	262	99	92	1,158
Welsh.....	38	13	19	1	5	69	28	24	6	11	107
Bulgarian.....	18		12	4	2	1					19
Chinese.....	1	1									1
Croatian.....	240	2	107	73	58						240
Czech.....	134	20	51	30	33	4	2	1	1		138
Dalmatian.....	1		1								1
Dutch.....	90	13	22	22	33	102	34	39	18	11	192
East Indian.....	13		4	9							13
Estonian.....	5	1	1	2	1						5
Finnish.....	49	6	17	12	14	16	4	8	1	3	65
French.....	135	50	50	15	20	711	156	294	131	130	846
German.....	367	62	133	98	74	529	174	237	61	57	896
Greek.....	75	8	34	19	14	20	6	4	5	5	95
Hebrew.....	391	108	148	65	70	228	99	82	27	20	619
Italian.....	299	21	133	73	72	58	23	22	7	6	357
Japanese.....	103	24	61	15	3						103
Jugo-Slav.....	106	3	51	23	29	3	1	2			109
Lettish.....	2		2			3	3				5
Lithuanian.....	42	1	20	10	11	10	1	2	2	5	52
Magyar.....	328	9	126	98	95	11	5	4	2		339
Maltese.....	4	1	1	1	1	1	1				5
Mexican.....	6			4	2						6
Negro.....	5	3	2			17	7	7	1	2	22
North American Indian.....						2	1			1	2
Persian.....	1				1						1
Polish.....	432	51	149	121	111	35	16	14	2	3	467
Portuguese.....	2		2								2
Roumanian.....	65	5	24	19	17	2		1		1	67
Russian.....	79	12	28	20	19	19	3	8	4	4	98
Ruthenian.....	855	116	292	210	237	15	4	5	4	2	870
Scandinavian—											
Danish.....	22	6	11	3	2	44	15	18	7	4	66
Icelandic.....						2		2			2
Norwegian.....	25	6	14	1	4	74	23	41	6	4	99
Swedish.....	16	4	6	2	4	73	27	31	7	8	89
Serbian.....	35	1	18	8	8	3		2		1	38
Slovak.....	520	59	201	141	119	7		5		2	527
Spanish.....	10	3	5	1	1	11	2	6	1	2	21
Spanish American.....						1	1				1
Swiss.....	49	17	17	11	4	16	2	8	3	3	65
Syrian.....	19	2	11	3	3	5	3	1		1	24
Turkish.....	1		1								1
Totals.....	6,910	1,352	2,858	1,360	1,340	5,113	1,499	2,123	791	700	12,023

TABLE 11

Comparative Statement—Immigration Via Ocean Ports, by Months, for the Fiscal Year 1936-37, Compared with That of the Preceding Fiscal Year

	1935-36				1936-37			
	M.	F.	C.	Totals	M.	F.	C.	Totals
April.....	113	214	190	517	157	234	208	599
May.....	99	217	208	524	177	339	351	867
June.....	98	238	200	536	129	276	268	673
July.....	89	233	234	556	140	324	296	760
August.....	124	311	286	721	112	242	202	556
September.....	116	262	298	676	127	308	280	715
October.....	102	244	256	602	141	306	334	781
November.....	95	223	189	507	87	187	204	478
December.....	61	155	143	359	65	147	142	354
January.....	41	109	86	236	52	133	106	291
February.....	44	162	121	327	55	141	122	318
March.....	106	157	158	421	110	221	187	518
Totals....	1,088	2,525	2,369	5,982	1,352	2,858	2,700	6,910

TABLE 12

Comparative Statement—Immigration from the United States to Canada, by Months, for the Fiscal Year 1936-37, Compared with That of the Preceding Fiscal Year

	1935-36				1936-37			
	M.	F.	C.	Totals	M.	F.	C.	Totals
April.....	129	162	156	447	117	158	141	416
May.....	142	228	126	496	123	192	158	473
June.....	131	216	178	525	134	206	142	482
July.....	141	196	157	494	117	210	152	479
August.....	169	218	216	603	142	204	127	473
September.....	125	193	166	484	135	216	161	512
October.....	161	194	203	558	158	209	152	519
November.....	126	150	133	409	128	181	114	423
December.....	87	142	118	347	103	133	105	341
January.....	81	120	62	263	115	141	68	324
February.....	50	111	62	223	103	112	84	299
March.....	77	99	96	272	124	161	87	372
Totals....	1,419	2,029	1,673	5,121	1,499	2,123	1,491	5,113

TABLE 13

Comparative Statement—Total Immigration to Canada, by Months, for the Fiscal Year 1936-37, Compared with That of the Preceding Fiscal Year

	1935-36				1936-37			
	M.	F.	C.	Totals	M.	F.	C.	Totals
April.....	242	376	346	964	274	392	349	1,015
May.....	241	445	334	1,020	300	531	509	1,340
June.....	229	454	378	1,061	263	482	410	1,155
July.....	230	429	391	1,050	257	534	448	1,239
August.....	293	529	502	1,324	254	446	329	1,029
September.....	241	455	464	1,160	262	524	441	1,227
October.....	263	438	459	1,160	299	515	486	1,300
November.....	221	373	322	916	215	368	318	901
December.....	148	297	261	706	168	280	247	695
January.....	122	229	148	499	167	274	174	615
February.....	94	273	183	550	158	253	206	617
March.....	183	256	254	693	234	382	274	890
Totals....	2,507	4,554	4,042	11,103	2,851	4,981	4,191	12,023

TABLE

Immigration via Ocean Ports, showing Country of

Country of Birth	Totals	Bohemian	Slovak	Hebrew	English	Irish	Scotch	Welsh	Mexican	Croatian	Dalmatian	Serbian	Belgian	Bulgarian	Czech	Finnish	French
Africa (British)	19				17		1										
Africa (not British)	1																1
Albania	4																
Asia	6			6													
Australia	16				11	2	3										
Austria	38		1	2													
Barbados	3				1		1										
Belgium	103				1								89				9
Bermuda	2				1		1										
Bulgaria	12													12			
Canada	9						3										3
Central America	3				1												
Chile	3																
China																	
Czecho-Slovakia															99		
Denmark	19																
England	1,019			21	953	12	24	4					1				1
Estonia	3																
Finland	52															47	
France	99			1	5		2						1				86
Germany	96			18	1		1										1
Greece	79																
Guiana (British)	3				1									6			
Holland	45			1	1								2				
Hungary	270		1														
India (British)	34				13		8										
Ireland (Free State)	98				2	95	1										
Ireland (Northern)	105				3	97											
Italy	301				3	1											
Jamaica	5				3												
Japan	108				3	1											
Jugo-Slavia	454		30		3												
Korea	2						2			239	1	33					
Latvia	3			1													
Lesser British Isles	10				10												
Lithuania	63			23													
Mexico	73				5	1	3		6								
Newfoundland	401				343	39	3										11
New Zealand	5				4		1										
Norway	25																1
Persia	7																
Poland															34		1
Roumania												2					
Russia																	
St. Pierre and Miquelon	12																12
Scotland	450			1	7	5	436										
South America	3				1	2											
Spain	4																
Sweden	10																
Switzerland	106				1												6
Syria	18							5									
Trinidad	5																
Turkey	13				2												
Ukraine	9																
United States	4																
Wales	4																
	5				2	2											
	4			1	1	1											
	1																
Other countries (not British)																	
Born at sea																	
Totals	6,910	1	520	391	1,445	262	519	38	6	240	1	35	93	18	134	49	135

14

Birth by Racial Origin, for the Fiscal Year 1936-37

German	Greek	Dutch	Magyar	Italian	Jugo-Slav	Polish	Roumanian	Russian	Danish	Norwegian	Swedish	Swiss	Ruthenian	Albanian	Esthonian	Lettish	Lithuanian	Maltese	Portuguese	Spanish	Negro	Armenian	Chinese	East Indian	Japanese	Persian	Syrian	Turkish		
	1													4																
34		1																			1									
1																														
1								1													1									
20			38		11	23		1	1				96								1		1							
2		1							19																					
	73																					2								
20	41		248		1																									
				297		1																1								
37		1	12		93	1	5													2						103				
																	2													
13		40						5									40				3									
										1																				
										24																				
											10							1												
50		3		1									48								4									
5	1		1	1	1				1					2																
																					1									
367	75	90	328	299	106	432	65	79	22	25	16	49	855	4	5	2	42	4	4	2	10	5	3	1	13	103	1	19	1	

Immigration from the United States, showing Country

Country of Birth	Totals												
		Bohemian	Slovak	Hebrew	English	Irish	Scotch	Welsh	Mexican	Spanish American	Serbian	Belgian	Bulgarian
Africa (British).....	3			1	1		1						
Argentina.....	1						1						
Asia.....	1						1						
Australia.....	4				2		1		1				
Austria.....	10			4									
Barbados.....	2				1								
Belgium.....	6											6	
Brazil.....	2												
Bulgaria.....	1									1			1
Canada.....	546			9	183	97	100	4				1	
China.....	3						1						
Czecho-Slovakia.....	6		3	1									
Denmark.....	9												
Egypt.....	1												
England.....	325			4	301	4	6						
Finland.....	5												
France.....	11								2				
Germany.....	32			1									
Greece.....	8												
Guiana (British).....	1				1								
Holland.....	9												
Honduras (British).....	2				1	1							
Hungary.....	5												
Iceland.....	1												
India (British).....	6				3	1	2						
Ireland (Free State).....	33				1	31	1						
Ireland (Northern).....	22				1	19	2						
Italy.....	18				1	1							
Jamaica.....	5				4								
Jugo-Slavia.....	5										1		
Latvia.....	4												
Lesser British Isles.....	1				1								
Lithuania.....	1			1									
Malta.....	1												
Newfoundland.....	21					17	3	1					
New Zealand.....	10					8	1						
Norway.....	13												
Poland.....	32			18									
Roumania.....	7			6									
Russia.....	37	1		26									
Scotland.....	123			1		2	119						
South America.....	3												
Spain.....	2												
Sweden.....	8												
Switzerland.....	4												
Syria.....	2												
Trinidad.....	2					2							
Turkey.....	1												
Ukraine.....	1			1									
United States.....	3,734	12	4	155	1,199	463	400	51	2		2	6	
Wales.....	15				5			10					
West Indies (British).....	1												
West Indies (not British).....	3												
Other countries (British).....	1				1								
Other countries (not British).....	1				1								
Born at sea.....	2				2								
Totals.....	5,113	13	7	228	1,738	617	639	69	2	1	3	13	1

15

of Birth by Racial Origin, for the Fiscal Year 1936-37

Czech	Finnish	French	German	Greek	Dutch	Hungary	Italian	Jugo-Slav	Polish	Roumanian	Russian	Danish	Icelandic	Norwegian	Swedish	Swiss	Ruthenian	Lettish	Lithuanian	Maltese	Spanish	Negro	Armenian	Syrian	
1		117	22	4	5	1					1	1	1	1	1		2				1				
	5	7	1	8	2							2			1						1	3			1
			20			5							1									1			
			4				17																1		
			1						11		1	1			13				2				1		
			6						1		3						2				1				
			2													8	2					1			
			1																			2			
			1																						
			1																						
3	11	584	452	11	86	5	41	3	22	1	14	32		60	63	14	9	1	10		4	11	1	2	
			1																		2	1			
4	16	711	529	20	102	11	58	3	35	2	19	44	2	74	73	16	15	3	10	1	11	17	1	5	

Total Immigration to Canada, showing Country of

Country of Birth	Totals	Bohemian	Slovak	Hebrew	English	Irish	Scotch	Welsh	Mexican	Spanish American	Croatian	Dalmatian	Serbian	Belgian	Bulgarian	Czech	Finnish	French	German	Greek
Africa (British)	22			1	18		2													1
Africa (not British)	1																		1	
Albania	4																			
Argentine	1						1													
Asia	7			6			1													
Australia	20				13	2	4	1												
Austria	48		1	6																38
Barbados	5				2		1													
Belgium	109				4									95				9	1	
Bermuda	2				1		1													
Brazil	2																			
Bulgaria	13									1					13					
Canada	555			9	183	97	103	4						1				120	23	
Central America	3				1															
Chile	3						2													1
China	29				11		10													3
Czecho-Slovakia	777	1	483	4												100				21
Denmark	28																			
Egypt	1																			
England	1,344			25	1,254	16	30	4						1				2	6	
Estonia	3																			
Finland	57																52			
France	110			1	5		2	2						1				93	2	
Germany	128			19	1		1											1	99	
Greece	87														6					81
Guiana (British)	4				2															
Holland	54			1	1									2						
Honduras (British)	2				1	1														
Hungary	275		1																20	
Iceland	1																			
India (British)	40				16	1	10													
Ireland (Free State)	131				3	126	2													
Ireland (Northern)	127				9	116	2													
Italy	319				4															
Jamaica	10				7	1														
Japan	106				3															
Jugo-Slavia	459		30								239	1	34						41	
Korea	2						2													
Latvia	7			1																1
Lesser British Isles	11				11															
Lithuania	64			24																
Malta	1																			
Mexico	76				5	1	3		6											13
Newfoundland	422				360	39	8	1										11		
New Zealand	15				12	1	2													
Norway	38																			
Persia	1																			
Poland	1,627		4	297	1	1														
Roumania	169			25										2						77
Russia	68	1		41																32
St. Pierre and Miquelon	12																			7
Scotland	573			2	9	5	555											12	1	
South America	6				1	2														2
Spain	6																			
Sweden	18																			
Switzerland	110				1														7	51
Syria	20						5													
Trinidad	7				2															
Turkey	14				2															1
Ukraine	3			1																
United States	3,781	12	8	155	1,212	468	407	51	2		1		2	6		4	13	587	457	12
Wales	64				20	1		43												
West Indies (British)	6				2		2													
West Indies (not British)	7			1	1	1														1
Other countries (British)	2				1		1		1											
Other countries (not British)	3				2															
Born at sea	3				2		1													
Totals	12,023	14	527	619	3,183	879	1,158	107	8	1	240	1	38	106	19	138	65	846	896	95

Birth by Racial Origin, for the Fiscal Year 1936-37

Dutch	Magyar	Italian	Jugo-Slav	Polish	Roumanian	Russian	Danish	Icelandic	Norwegian	Swedish	Swiss	Ruthenian	Albanian	Estonian	Lettish	Lithuanian	Maltese	Portuguese	Spanish	Negro	Armenian	Chinese	East Indian	Japanese	Persian	Syrian	Turkish
1												2								2							
6	1					1	2	1	1										1		3						
3	38		11	23		1	1					96						2				1				1	
	1			1		1				5	1	1		3				1									
50				3								2								2							
	253		1					1																			
		314		1																							
1	12		93	1	5										4			2						103			
				1												40					2						
40						5				1					1				3								2
									37																		
1	26			411	64	61				1		737															
1	1			4	1	11						21		1		1											
										18									1	6							
3		1									50																17
												2					4					3				1	2
86	6	42	4	22	1	14	33		60	63	14	9		1	10			4		4	11	1			2	1	
																			3		2					2	
192	339	357	109	467	67	98	66	2	99	89	65	870	4	5	5	52	5	2	21	22	4	1	13	103	1	24	1

TABLE 17

Immigration via Ocean Ports, showing Destination by Intended Occupation and Sex, for the Fiscal Year Ended March 31, 1937

Destination	Totals	Farming Class				Labouring Class				Mechanics				Trading and Clerical Classes				Mining Class				Female Domestic		Other Classes			
		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years			
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
Nova Scotia.....	374	14	6	6	1	50	1	1	2	9	1	.....	.....	14	6	.....	1	1	.....	.....	127	27	11	51	19	26
New Brunswick.....	55	3	1	.....	.....	2	.....	.....	.....	2	1	1	.....	3	1	.....	.....	.....	.....	.....	6	.....	5	17	6	7
Prince Edward Island.....	8	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	1	2	2
Quebec.....	1,065	33	17	15	8	39	3	6	2	54	23	10	9	89	23	11	12	.....	.....	.....	80	8	66	302	112	143
Ontario.....	2,835	158	91	91	53	33	7	10	3	93	35	10	13	58	23	5	5	9	3	3	1	164	20	95	896	479	477
Manitoba.....	851	163	134	143	125	6	.....	2	.....	1	1	.....	.....	9	1	1	.....	1	.....	.....	11	8	18	112	55	60
Saskatchewan.....	354	36	20	21	22	.....	1	1	2	.....	.....	.....	.....	1	1	1	.....	.....	.....	.....	7	1	22	98	62	58
Alberta.....	570	61	40	39	27	2	.....	1	.....	3	.....	.....	.....	8	4	6	2	.....	.....	.....	20	7	12	172	82	84
British Columbia.....	793	55	25	30	10	19	6	3	.....	22	7	2	2	16	11	.....	1	3	1	.....	24	8	50	272	124	102
Northwest Territories.....	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	1	.....	1
Totals.....	6,910	523	335	345	246	151	18	24	9	184	68	23	24	198	70	24	2	13	5	3	1	440	79	283	1,922	941	960

TABLE 18

Immigration from the United States to Canada, showing Destination by Intended Occupation and Sex, for the Fiscal Year Ended March 31, 1937

Destination	Totals	Farming Class				Labouring Class				Mechanics				Trading and Clerical Classes				Mining Class				Female Domestic		Other Classes			
		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years			
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
Nova Scotia.....	309	28	13	11	8	7	2	4	3	4	1	8	4	1	1	5	22	86	55	46
New Brunswick.....	215	18	10	3	6	6	.....	1	1	6	1	.....	.....	5	4	1	.....	.....	.....	.....	4	.....	8	62	43	36
Prince Edward Island.....	53	6	3	8	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	2	17	6	6
Quebec.....	968	29	11	7	8	39	9	10	4	52	18	6	4	64	27	15	9	2	.....	.....	10	.....	95	337	109	103
Ontario.....	2,305	74	37	20	8	51	19	7	5	144	63	20	23	229	101	42	27	11	4	30	191	693	261	245
Manitoba.....	156	17	7	4	6	6	4	.....	.....	4	5	1	2	8	8	.....	1	.....	.....	.....	.....	.....	16	46	13	8
Saskatchewan.....	171	33	13	6	6	.....	.....	.....	.....	2	3	.....	4	12	7	2	2	.....	.....	.....	2	.....	8	52	10	9
Alberta.....	353	67	37	21	19	7	2	.....	.....	9	3	1	1	10	4	2	3	2	1	.....	5	.....	21	85	21	32
British Columbia.....	580	40	23	12	10	14	3	1	2	18	18	8	4	43	20	6	6	2	.....	.....	3	.....	57	198	53	39
Yukon Territory.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	1	.....	.....	.....	.....	.....	.....	.....
Totals.....	5,113	312	154	92	74	130	39	23	15	239	112	36	38	379	175	69	49	19	6	.....	61	.....	420	1,576	571	524

TABLE 19

Total Immigration, showing Destination by Intended Occupation and Sex, for the Fiscal Year Ended March 31, 1937

Destination	Totals	Farming Class				Labouring Class				Mechanics				Trading and Clerical Classes				Mining Class				Female Domestic		Other Classes			
		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years			
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Over	Years	M.	F.	M.	F.
Nova Scotia.....	683	42	19	17	9	57	3	5	5	13	2	22	10	1	2	1					132	27	33	137	74	72	
New Brunswick.....	270	21	11	3	6	8		1	1	8	2	8	5	1							10		13	79	49	43	
Prince Edward Island.....	61	6	4	8	3																3		3	18	8	8	
Quebec.....	2,033	62	28	22	16	78	12	16	6	106	41	153	50	26	21	2					90	8	161	639	221	246	
Ontario.....	5,140	232	128	111	61	84	26	17	8	237	98	287	124	47	32	20	7	3	1	194	20	286	1,589	740	722		
Manitoba.....	1,007	180	141	147	131	12	4	2		5	6	17	9	1	1					11	8	34	158	68	68		
Saskatchewan.....	525	69	33	27	28		1	1	2	2	3	4	13	8	3	2				9	1	30	150	72	67		
Alberta.....	923	128	77	60	46	9	2	1		12	3	18	8	8	5	2	1			25	7	33	257	103	116		
British Columbia.....	1,373	95	48	42	20	33	9	4	2	40	25	59	31	6	7	5	1			27	8	107	470	177	141		
Yukon Territory.....	3															2	1										
Northwest Territories.....	5																						3	1		1	
Totals.....	12,023	835	489	437	320	281	57	47	24	423	180	577	245	93	70	32	11	3	1	501	79	703	3,498	1,512	1,484		

TABLE 20

Immigration via Ocean Ports, showing Intended Occupation, by Province of Destination, for the Fiscal Year Ended March 31, 1937

Intended Occupation	Totals	Nova Scotia	Prince Edward Island	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Northwest Territories
Farming class.....	604	16		3	40	186	175	44	69	71	
Clerical class.....	93	8		2	34	27			5	15	
Professional class.....	149	9		1	49	40	8	10	6	22	3
Merchant class.....	135	10		1	57	43	7	1	5	11	
Miscellaneous.....	72	8		2	18	21	5	4	5	9	
SKILLED WORKERS											
Skilled workers, N.E.S.....	46	3			10	24			1	8	
Bakers.....	2					2					
Barbers.....	12	1			1	8			1	1	
Blacksmiths.....	1				1						
Bookbinders.....	1					1					
Butchers.....	8	1			3	3				1	
Cabinetmakers.....	2					2					
Carpenters.....	12				3	7				2	
Dressmakers.....	4				4						
Engineers, locomotive.....	2					1				2	
Engineers, marine.....	7				2	1				4	
Engineers, stationary.....	3				1	2					
Electricians.....	8	2			2	4					
Fur workers.....	3				1	1				1	
Machinists.....	9				1	6				2	
Masons and bricklayers.....	1					1					
Milliners.....	2				2						
Painters and glaziers.....	3	1		1		1					
Photographers.....	1									1	
Plasterers.....	4				3	1					
Plumbers.....	8			1	2	5					
Printers, pressmen, and printing trades.....	5				3	2					
Shoemakers.....	9				3	6					
Seamstresses.....	1				1						
Sheet metal workers.....	1				1						
Tailors.....	15				6	8	1				
Tanners.....	1				1						
Textile workers, including weavers and spinners.....	13				7	5				1	
Tobacco workers, including cigarette, cigar makers.....	1									1	
Upholsterers.....	1					1					
Watch and clock makers.....	2	1			1						
Woodworkers, N.E.S.....	1				1						
Automobile workers.....	8				3	4			1		
Iron workers, N.E.S.....	5				3	5					
UNSKILLED AND SEMI-SKILLED WORKERS											
Unskilled and semi-skilled, N.E.S.....	23				2	5			1	15	
Lumbermen.....	2					1	1				
Miners.....	11	1				7				3	
Fishermen.....	23	20			2					1	
General labourers.....	52	2		1	20	20	7	1	1		
Manufacturing.....	15				4	10			1		
Transportation.....	56	30		1	14	6				5	
Apprentices to skilled trades.....	3				1			1		1	
Domestic servants.....	519	154	1	6	88	184	19	8	27	32	
Dependant children.....	2,501	54	4	14	313	1,107	373	153	226	256	1
Dependant wives.....	1,738	31	1	13	241	783	207	92	162	207	1
Occupation not given.....	712	22	2	8	119	295	46	40	59	121	
Totals.....	6,910	374	8	55	1,065	2,835	851	354	570	793	5

TABLE 21

Immigration from the United States, showing Intended Occupation, by Province of Destination, for the Fiscal Year Ended March 31, 1937

Intended Occupation	Totals	Nova Scotia	Prince Edward Island	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon Territory
Farming class.....	328	29	6	18	31	79	17	33	72	43	.....
Clerical class.....	126	5	.....	2	24	76	1	2	4	12	.....
Professional class.....	200	3	3	2	45	87	12	5	18	20	.....
Merchant class.....	301	4	.....	5	47	185	3	11	6	35	.....
Miscellaneous.....	129	1	.....	1	69	49	2	1	2	4	.....
SKILLED WORKERS											
Skilled workers, N.E.S.....	114	.....	.....	3	24	67	1	2	8	9	.....
Bakers.....	3	.....	.....	.....	.....	1	.....	.....	.....	2	.....
Barbers.....	16	.....	.....	1	4	8	1	.....	.....	2	.....
Butchers.....	7	.....	.....	.....	.....	5	.....	.....	.....	2	.....
Cabinetmakers.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
Carpenters.....	2	2	.....	1	1	3	.....	.....	.....	.....	.....
Dressmakers.....	2	.....	.....	.....	1	1	.....	.....	.....	.....	.....
Engravers.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
Engineers, locomotive.....	3	.....	.....	.....	1	1	.....	.....	.....	1	.....
Engineers, stationary.....	2	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
Electricians.....	4	.....	.....	.....	3	1	.....	.....	.....	.....	.....
Fur workers.....	8	.....	.....	.....	2	4	1	.....	.....	1	.....
Hat and cap workers.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
Machinists.....	17	2	.....	1	5	9	.....	.....	.....	.....	.....
Millers.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
Painters and glaziers.....	6	.....	.....	.....	3	3	.....	.....	.....	.....	.....
Photographers.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
Plumbers.....	4	.....	.....	.....	1	3	.....	.....	.....	.....	.....
Printers, pressmen, and printing trades.....	6	.....	.....	.....	1	4	.....	.....	.....	1	.....
Shoemakers.....	4	.....	.....	.....	2	2	.....	.....	.....	.....	.....
Seamstresses.....	2	.....	.....	.....	1	.....	.....	1	.....	.....	.....
Tailors.....	2	.....	.....	.....	1	1	.....	.....	.....	.....	.....
Textile workers, including weavers and spinners.....	10	.....	.....	.....	.....	2	7	.....	.....	1	.....
Tobacco workers, including cigarette, cigar makers.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
Watch and clock makers.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
Automobile workers.....	19	.....	.....	.....	1	16	.....	.....	.....	2	.....
Iron workers, N.E.S.....	8	.....	.....	.....	1	7	.....	.....	.....	.....	.....
Moulders.....	2	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
UNSKILLED AND SEMI-SKILLED WORKERS											
Unskilled and semi-skilled, N.E.S.....	16	.....	.....	.....	5	9	.....	.....	2	.....	.....
Lumbermen.....	4	.....	.....	.....	1	.....	2	.....	.....	1	.....
Miners.....	20	.....	.....	1	2	12	.....	.....	2	2	.....
Fishermen.....	4	2	.....	1	.....	.....	.....	.....	.....	1	.....
General labourers.....	36	1	.....	4	11	12	2	.....	2	4	.....
Manufacturing.....	32	1	.....	.....	3	18	1	.....	3	6	.....
Construction.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....
Transportation.....	40	3	.....	1	20	13	1	.....	.....	2	.....
Apprentices to skilled trades.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
Domestic servants.....	61	5	2	4	10	30	.....	2	5	3	.....
Dependant children.....	1,438	128	23	89	244	646	35	39	95	139	.....
Dependant wives.....	1,498	84	13	63	225	688	53	55	108	208	1
Occupation not given.....	625	34	6	19	175	250	18	20	25	78	.....
Totals.....	5,113	309	53	215	968	2,305	156	171	353	580	3

TABLE 22

Total Immigration, showing Intended Occupation, by Province of Destination, for the Fiscal Year Ended March 31, 1937

Intended Occupation	Totals	Nova Scotia	Prince Edward Island	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon Territory	Northwest Territories
Farming class.....	932	45	6	21	71	265	192	77	141	114		
Clerical class.....	219	13		4	58	103	3	2	9	27		
Professional class.....	349	17	3	4	94	127	20	15	24	42		3
Merchant class.....	436	14		6	104	228	15	12	11	46		
Miscellaneous.....	201	9		3	87	70	7	5	7	13		
SKILLED WORKERS												
Skilled workers, N.E.S.....	160	3		3	34	91	1	2	9	17		
Bakers.....	5				3	3				2		
Barbers.....	28	1		1	5	16	1		1	3		
Blacksmiths.....	1				1					3		
Bookbinders.....	1					1						
Butchers.....	15	1			3	8				3		
Cabinetmakers.....	3					2			1			
Carpenters.....	19	2		1	4	10				2		
Dressmakers.....	6				5	1						
Engravers.....	1					1						
Engineers, locomotive.....	5				1	1				3		
Engineers, marine.....	7				2	1				4		
Engineers, stationary.....	5				1	4						
Electricians.....	12	2			5	5						
Fur workers.....	11				3	5	1			2		
Hat and cap workers.....	1					1						
Machinists.....	26	2		1	6	15				2		
Masons and bricklayers.....	1					1						
Millers.....	1					1						
Milliners.....	2				2							
Painters and glaziers.....	9	1		1	3	4						
Photographers.....	2									2		
Plasterers.....	4				3	1						
Plumbers.....	12			1	3	8						
Printers, pressmen, and printing trades.....	11				4	6				1		
Shoemakers.....	13				5	8						
Seamstresses.....	3				2			1				
Sheet metal workers.....	1											
Tailors.....	17				7	9	1					
Tanners.....	1											
Textile workers, including weavers and spinners.....	23				9	12				2		
Tobacco workers, including cigarette, cigar makers.....	2					1				1		
Upholsterers.....	1					1						
Watch and clock makers.....	3	1			2					1		
Woodworkers, N.E.S.....	1				1							
Automobile workers.....	27				4	20			1	2		
Iron workers, N.E.S.....	13				1	12						
Moulders.....	2					2						
UNSKILLED AND SEMI-SKILLED WORKERS												
Unskilled and semi-skilled, N.E.S.....	39				7	14			3	15		
Lumbermen.....	6				1	1	3			1		
Miners.....	31	1			2	19			2	5	2	
Fishermen.....	27	22		1	2					2		
General labourers.....	88	3		5	31	32	9	1	3	4		
Manufacturing.....	47	1			7	28	1		4	6		
Construction.....	1				1							
Transportation.....	96	33		2	34	19	1			7		
Apprentices to skilled trades.....	4				1	1		1		1		
Domestic servants.....	580	159	3	10	98	214	19	10	32	35		
Dependant children.....	3,939	182	27	103	557	1,753	408	192	321	395		1
Dependant wives.....	3,236	115	14	76	466	1,471	260	147	270	415	1	1
Occupation not given.....	1,337	56	8	27	294	545	64	60	84	199		
Totals.....	12,023	683	61	270	2,033	5,140	1,007	525	923	1,373	3	5

TABLE 23

Immigration, showing Nationality and Sex, for the Fiscal Year Ended March 31, 1937

Nationality	Via Ocean Ports					From the United States					Grand Totals
	Totals	18 Years and Over		Under 18 Years		Totals	18 Years and Over		Under 18 Years		
		M.	F.	M.	F.		M.	F.	M.	F.	
African (not British).....						1	1				1
Albanian.....	4		1	2	1						4
Austrian.....	37	3	14	10	10	4	2	2			41
Belgian.....	98	32	36	15	15	1		1			99
Brazilian.....						1	1				1
British.....	2,521	739	1,216	277	289	742	271	424	27	20	3,263
Bulgarian.....	14		9	3	2						14
Chinese.....	1	1									1
Cuban.....	6	3	2		1	1	1				7
Czecho-Slovakian.....	787	81	307	206	193	4	1	2		1	791
Danish.....	18	5	9	2	2	2		2			20
Dutch.....	36	12	16	5	3	4	4				40
Estonian.....	5	1	1	2	1						5
Finnish.....	49	7	15	11	16	2	1	1			51
French.....	100	36	37	11	16	2	1	1			102
German.....	72	21	36	10	5	10	4	5		1	82
Greek.....	75	6	35	20	14	4	2	2			79
Hungarian.....	253	4	95	75	79	3	2	1			256
Italian.....	272	21	111	68	72	6	3	3			278
Japanese.....	80	24	42	11	3						80
Jugo-Slavian.....	437	15	190	126	106						437
Latvian.....	2	1	1			1	1				3
Lithuanian.....	64	5	27	15	17	1		1			65
Mexican.....	49	1	1	20	27						49
Norwegian.....	25	7	13	1	4	4	2	2			29
Panamaan.....	1			1							1
Polish.....	1,579	256	537	389	397	4	2	1	1		1,583
Roumanian.....	164	16	56	46	46						164
Russian.....	15	7	6	2		5	2	3			20
Spanish.....	5	2	2		1	4	1	1	1	1	9
Swedish.....	9	1	5	1	2	1	1				10
Swiss.....	105	34	29	29	13	3	1	2			108
Syrian.....	9	2	4	1	2	2	2				11
Turkish.....	1	1									1
U.S.A. citizens.....	17	8	5	1	3	4,301	1,193	1,669	762	677	4,318
Totals.....	6,910	1,352	2,858	1,360	1,340	5,113	1,499	2,123	791	700	12,023

TABLE 24

Immigration from the United States, showing State of Last Residence, by Intended Occupation and Sex, for the Fiscal Year 1936-37

State of Last Residence	Farming Class				Labouring Class				Mechanics				Trading and Clerical Classes				Mining Class				Female Domestic		Other Classes			
	18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years			
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
Alabama.....										2																
Alaska.....	1																									
Arizona.....	1																									
Arkansas.....	2	1			2																					
California.....	21	15	4	6	3	2	1			12	4	2	2	19	10	3	3			1	1			3		
Colorado.....	1									2	1	1		1	1											
Connecticut.....	5	5			1					3	3			9	3	2	1							1		
Delaware.....	1									1	1			2												
District of Columbia.....	1	1			2									1												
Florida.....	2	1	2											1	3	1										
Georgia.....										1	1			1												
Idaho.....	6	5	3		1	1				2	2		1	2	1	1										
Illinois.....	7	3	2	1	4					14	4	7	1	26	12	1	5	1							1	
Indiana.....	2	2	2							2	1			3	2	1	1									
Iowa.....	13	6	2	7	1					1	2		2	4	3											
Kansas.....	2	1	2	1																						
Kentucky.....	1				1									1	1											
Louisiana.....	1														1											
Maine.....	11	5	1	3	11	4	4	1	6	6	3			2	2	1								6		
Maryland.....														3												
Massachusetts.....	25	11	20	12	8		4	3	11	1		1	19	8	2											
Michigan.....	36	19	16	5	13	4			69	26	7	10	33	42	21	9	3							11		
Minnesota.....	9	11	4	4	2	3				5	2		1	10	7	5	3									
Mississippi.....	1													1												
Missouri.....	9	2		1	1	1	2			1	1		1	3	1	1	1									
Montana.....	6	4	1	3	1					4	1			3	1		1	2	1							
Nebraska.....	7	4	1	6																						
Nevada.....										1	1	2														

TABLE 24—*Conc.*

Immigration from the United States, showing State of Last Residence, by Intended Occupation and Sex, for the Fiscal Year 1936-37—Conc.

State of Last Residence	Farming Class				Labouring Class				Mechanics				Trading and Clerical Classes				Mining Class				Female Domestic		Other Classes			
	18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years			
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
New Hampshire.....	2	1			1	1	6	3	3	1			1	2	1	1					13	44	6	11		
New Jersey.....	8	3	1		5				12	9	2	2	11	4	6	2			2		11	39	24	14		
New Mexico.....	1																						1			
New York.....	33	12	6	6	38	13	5	4	43	18	8	5	90	33	12	8	2		8		77	284	90	78		
North Carolina.....					1	1			1					2	1				1				5	1		
North Dakota.....	10	5	3	2									6	3	1	1			2		3	21	5			
Ohio.....	7				5	1		1	7	4			12	5	3	1	2	1	4		17	53	12	11		
Oklahoma.....	2	2	1						1	1		1	2								2	5	2	2		
Oregon.....	16	8	3	4		1							7	4	3	3					6	20	3	7		
Pennsylvania.....	5	5	2	3	6	1			11	7	2	2	15	7	3	5	2	1			23	68	21	21		
Rhode Island.....	3	1	1		3	1			2	1			3	3		1					6	35	14	12		
South Carolina.....	1																					2	1	1		
South Dakota.....	7	4	2										1								1	8	1			
Tennessee.....	1	1	2	1																	2	1				
Texas.....	1												2						1		2	13	5	1		
Utah.....	1	1	4		1								1	1		1					1	2				
Vermont.....	5	2	1		2	1			4	2	1	1	4			1			1		3	23	27	10		
Virginia.....	1	1		1									1	1	1				1			5	3	1		
Washington.....	24	9	5	4	15	3	1	2	9	10	4	1	18	7		2	3	1		2	16	87	23	23		
West Virginia.....													1	1								1	1	1	1	
Wisconsin.....	3		1		2								1	2					1		4	14	5	3		
Wyoming.....	4	1							4	3		4									1	3				
Not given.....	6	2	1	1	2	1		1	5	2			3	3					3		8	21	4	7		
Totals.....	312	154	92	74	130	39	23	15	239	112	36	38	379	175	69	49	19	6		61		420	1,576	571	524	

TABLE 25

Immigration via Ocean Ports, showing Age Groups by Racial Origin, Sex, and Literacy, for the Fiscal Year 1936-37

Racial Origin	10 to 14 Years		15 to 19 Years				20 to 24 Years				25 to 29 Years				30 to 39 Years				40 to 49 Years				50 Years and Over			
	Male		Female		Male		Female		Male		Female		Male		Female		Male		Female		Male		Female			
	Lit.	Ill.	Lit.	Ill.	Lit.	Ill.	Lit.	Ill.	Lit.	Ill.	Lit.	Ill.	Lit.	Ill.	Lit.	Ill.	Lit.	Ill.	Lit.	Ill.	Lit.	Ill.	Lit.	Ill.		
Albanian.....			1		1										1											
Armenian.....																								1		
Belgian.....	3		2		3		3		3		1		6		8		12		14		5		4			
British—																										
English.....	46		33		44		117		103		143		89		90		84		133		65		95			
Irish.....	3		3		7		18		25		28		20		26		32		18		8		12			
Scotch.....	14		14		18		20		23		26		29		29		43		68		25		31			
Welsh.....			1				1		2		2		5		2		2		4		4		6			
Bulgarian.....			1						2		2				2				5				2			
Chinese.....												1														
Croatian.....	33		25		14		7	1		14		2		27	1			46	6			7	2			
Czech.....	9		7		2		1		2		5		4		18		6		24		7		4			
Dalmatian.....																										
Dutch.....	2		7		2		1		1		2		4		9		5		5		1		1			
East Indian.....	4				1	2		2							1											
Estonian.....	1		1																							
Finnish.....	4		4		3		3			3				3		2		6		3		4				
French.....	4		4				9		4		10		17		7		12		9		4		13			
German.....	31		27		17		19		8		22		6		26		25		48	1	16	1	22			
Greek.....	6		4		3		4		1		8	1	3		4	2	3		12	3	1		1			
Hebrew.....	26		21		16		30		18		21		28		26		29		42	1	13		20	1		
Italian.....	30		26		16		21		1		20		7		21		9		56		1		13			
Japanese.....					15		7		11		38		6		11		1		4				2			
Jugo-Slav.....	8		13		7		7				15				11				18	1	1		3			
Lettish.....																										
Lithuanian.....	3		4		3		3		1		5				4				8	1			2			
Magyar.....	44		45		24		19		1		10		1		29		5		72		1		9			
Maltese.....					1		2																			
Negro.....																										
Persian.....																										
Polish.....	47		49		17	2	18		3		17		17		29	1	15		70	5	9		13	1		
Portuguese.....											1				1											
Roumanian.....	7		6		7		5				1				6				12		2		5			
Russian.....	7		6		3		3				1		3		8	2	5		10	2	1		2	1		
Ruthenian.....	82	3	97	1	30		25		12		25		22		58	5	45	1	141	8	17		31	6		
Scandinavian—																										
Danish.....			1		1						2		1		2		2		5		1		1			
Norwegian.....			2		1		1		1		1		1		6		2		5		1		1			
Swedish.....			1		2		3						1		1		1		2		1		2			
Serbian.....	4		3		3		1				4	1			4				4	2			3			
Slovak.....	53	1	40	1	20		17		8		21		9		54		26		97		8		16			
Spanish.....																			2		1		1			
Swiss.....	2								2		3		4		3		9		7				2			
Syrian.....	1		1				1				6		1		1				1	1	1			1		
Turkish.....																										
Totals.....	474	4	449	2	281	4	364	3	230		457	2	287		541	12	376	1	955	31	198	1	327	11		

TABLE 26

Immigration from the United States, showing Age Groups by Racial Origin, Sex, and Literacy, for the Fiscal Year 1936-37

Racial Origin	10 to 14 Years				15 to 19 Years				20 to 24 Years				25 to 29 Years				30 to 39 Years				40 to 49 Years				50 Years and Over			
	Male		Female		Male		Female		Male		Female		Male		Female		Male		Female		Male		Female		Male		Female	
	Lit.	Ill.	Lit.	Ill.	Lit.	Ill.	Lit.	Ill.	Lit.	Ill.	Lit.	Ill.	Lit.	Ill.	Lit.	Ill.	Lit.	Ill.	Lit.	Ill.	Lit.	Ill.	Lit.	Ill.	Lit.	Ill.	Lit.	Ill.
Belgian.....																												
Bohemian.....									1			2																
British—																												
English.....	51		64		35		36		36		86		41		112		132		198		119		107		152		209	
Irish.....	19		16		15		19		16		33		21		32		39		73		40		37		50		63	
Scotch.....	21		20		6		11		12		15		15		42		57		80		42		42		57		77	
Welsh.....	1		2				1		3		5		2		2		10		7		7		3		6		7	
Bulgarian.....											1																	
Czech.....																												
Dutch.....	6		4		3		1		4		9		4		11		9		9		10		5		6		5	
Finnish.....																												
French.....	34		27		28		65		21		63		18		46		31		68		30		28		46		42	
German.....	15		14		8		11		22		38		23		32		58		79		31		39		33		39	
Greek.....																												
Hebrew.....	10		3		7		10		7		22		18		19		28		23		28		11		15		1	
Italian.....	2				1		1		1		12		6		6		8		2		4		1		3		1	
Jugo-Slav.....											1																	
Lettish.....																												
Lithuanian.....			2																									
Magyar.....											1		1		2		2						1		2			
Maltese.....													1															
Negro.....							1							2		3		2		2		1		2		2		
North American Indian.....																												
Polish.....	1						2		1		1		3		4		7		2		2		2		3		4	
Roumanian.....																												
Russian.....	1		1											5		1		2		1				1				
Ruthenian.....	1						1				1			1		2							1		2		1	
Scandinavian—																												
Danish.....			1		1		1		1		1		1		4		3		7		5				5		5	
Icelandic.....																												
Norwegian.....	1		2		3		1		3		5		6		8		3		7		4		8		6		12	
Swedish.....							1		1		5		9		6		7		11		6		7		4		1	
Serbian.....			1								1				1													
Slovak.....															4								1					
Spanish.....	1		1				1				1		1		4				2		1		1				2	
Spanish American.....																												
Swiss.....	2		2										1		2				5		1						1	
Syrian.....							1																					
Totals.....	166		161		107		165		129		308		174		346		412		586		346		299		401		479	

TABLE 27

Immigration via Ocean Ports, showing Language of Immigrants 10 Years and Over by Origin, for the Fiscal Year 1936-37

Origins	Totals																																				
		French	English	German	Norwegian	Swedish	Flemish	Dutch	Danish	Finnish	Esthonian	Lettish	Lithuanian	Russian	Hebrew	Ruthenian Russo- Ukrainian	Polish	Roumanian	Slovenian	Croat (Serbian)	Czech (Bohemian)	Hungarian (Magyar)	Italian	Spanish	Greek	Albanian	Turkish	Bulgarian	Japanese	East Indian	Armenian (Aramaic)	Syrian (Arabic)	Chinese				
Albanian	3																																				
Armenian	3																																				
Belgian	73		4																																		
British—																																					
English	1,279		1,279																																		
Irish	238		238																																		
Scotch	435		435																																		
Welsh	34		34																																		
Bulgarian	13																																				
Chinese	1																																				
Croatian	186																																				
Czech	90																																				
Dalmatian	1																																				
Dutch	46		4	8																																	
East Indian	11																																				
Esthonian	4																																				
Finnish	37				1																																
French	117	96	20	1																																	
German	281	1	16	240																																	
Greek	56		3																																		
Hebrew	332	2	27	26																																	
Italian	239		1																																		
Japanese	95																																				
Jugo-Slav	85			1																																	
Lettish	2																																				
Lithuanian	34		1	1																																	
Magyar	265		4	1																																	
Maltese	4																																				
Negro	5		5																																		
Persian	1	1																																			
Polish	328			5																																	
Portuguese	2																																				
Roumanian	52			4																																	
Russian	55		4																																		
Ruthenian	636		3																																		
Scandinavian—																																					
Danish	19		4																																		
Norwegian	23		2		21																																
Swedish	15				2	11																															
Serbian	29																																				
Slovak	384		2																																		
Spanish	8		2																																		
Swiss	36	8	4	24																																	
Syrian	15		2																																		
Turkish	1		1																																		
Totals	5,573	131	2,095	311	24	11	48	33	15	38	3	2	36	29	172	280	785	69	4	313	468	266	237	6	56	3	4	11	95	11	3	13		1			

TABLE 28

Immigration from the United States, showing Language of Immigrants 10 Years and Over by Origin, for the Fiscal Year 1936-37

Racial Origin	Totals																											
		French	English	German	Norwegian	Swedish	Flemish	Dutch	Danish	Finnish	Lettish	Lithuanian	Russian	Hebrew	Ruthenian	Rusnak	Ukrainian	Polish	Roumanian	Croat (Serbian)	Czech (Bohemian)	Hungarian (Magyar)	Italian	Spanish	Greek	Bulgarian	Syrian (Arabic)	
Belgian.....	10	3	6				1																					
Bohemian.....	11		10																		1							
British—																												
English.....	1,378		1,378																									
Irish.....	473		473																									
Scotch.....	497	2	495																									
Welsh.....	56		56																									
Bulgarian.....	1																									1		
Czech.....	3		2																		1							
Dutch.....	86		81	1						4																		
Finnish.....	13		9						4																			
French.....	548	343	205																									
German.....	447		416	32																								
Greek.....	10		6																							4		
Hebrew.....	203		179											23														
Italian.....	48		36																					12				
Jugo-Slav.....	3		3																									
Lettish.....	3		2								1																	
Lithuanian.....	5		4									1																
Magyar.....	9		6	1																								
Maltese.....	1																											
Negro.....	15		15																									
North American Indian.....	1		1																									
Polish.....	32		21	1																								
Roumanian.....	1																											
Russian.....	13		12										1															
Ruthenian.....	10		6												4													
Scandinavian—																												
Danish.....	35		28	1					6																			
Icelandic.....	2	1	1																									
Norwegian.....	69		61		7		1																					
Swedish.....	59		54		1		4																					
Serbian.....	3		2																		1							
Slovak.....	5		3																									
Spanish.....	11		9																					2				
Spanish American.....	1		1																									
Swiss.....	14		13	1																								
Syrian.....	4		2																									2
Totals.....	4,080	340	3,595	37	8	5	1	4	6	4	1	1	1	23	4	10	1	1	1	4	3	13	2	4	1		2	

TABLE 29

Immigration via Ocean Ports, showing Conjugal Condition by Age Groups and Sex, for the Fiscal Year 1936-37

Age Groups	Males					Females				
	Married	Single	Widowed	Divorced	Totals	Married	Single	Widowed	Divorced	Totals
Years 15-19.....		285			285	40	327			367
" 20-24.....	14	215	1		230	186	272	1		459
" 25-29.....	97	189	1		287	368	182		3	553
" 30-39.....	263	109	5		377	804	169	9	4	986
" 40-49.....	158	33	6	2	199	245	65	27	1	338
50 years and over	125	25	39	2	191	124	62	183	3	372

TABLE 30

Immigration from the United States, showing Conjugal Condition by Age Groups and Sex, for the Fiscal Year 1936-37

Age Groups	Males					Females				
	Married	Single	Widowed	Divorced	Totals	Married	Single	Widowed	Divorced	Totals
Years 15-19.....		107			107	45	119	1		165
" 20-24.....	29	100			129	221	84		3	308
" 25-29.....	94	78		2	174	276	60	4	6	346
" 30-39.....	320	81	3	8	412	486	63	21	16	586
" 40-49.....	285	43	10	8	346	253	18	20	8	299
50 years and over	290	48	58	5	401	249	45	180	6	480

TABLE 31

*Rejections at Ocean Ports, showing Nationality and Sex, for the
Fiscal Year 1936-37*

Nationality	Totals	18 Years and Over		Under 18 Years	
		Male	Female	Male	Female
Argentinian.....	2	2			
Austrian.....	1	1			
Belgian.....	1		1		
British.....	138	93	32	5	8
Bulgarian.....	3	3			
Chinese.....	4	4			
Cuban.....	5	3	1		1
Czecho-Slovakian.....	1	1			
Danish.....	4	2	1	1	
Finnish.....	4	2	2		
French.....	4	2	2		
German.....	14	10	4		
Greek.....	3	3			
Hungarian.....	1	1			
Italian.....	9	6	2	1	
Japanese.....	2	2			
Latvian.....	1		1		
Mexican.....	14	9	2	1	2
Norwegian.....	5	4	1		
Polish.....	6	4	2		
Roumanian.....	1	1			
Russian.....	4	2	2		
Spanish.....	5	4	1		
Swedish.....	3	2	1		
Swiss.....	3	2	1		
Syrian.....	1	1			
United States America citizens.....	7	5	2		
Uruguayan.....	1	1			
Totals.....	247	170	58	8	11

TABLE 32

Non-Immigrants, via Ocean Ports, showing Sex and Class of Travel, for the Fiscal Year 1936-37

	Salon				Cabin Class				Third Class			
	18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Canadian born returning.....	525	1,075	35	40	1,578	2,092	199	237	2,421	3,025	1,522	1,596
British born returning.....	148	154	1	1	965	932	16	31	5,903	7,393	105	169
British national returning.....	61	93	3	4	217	218	7	14	1,018	599	34	33
Alien national returning.....	13	16		2	58	56	5	6	783	480	24	21
Non-immigrant tourist.....	278	340	59	67	2,000	1,891	141	156	1,737	2,689	208	137
" professional.....									4	5		
" student.....		1			1		2	4	4	1	2	
" in transit.....	757	591	40	43	743	654	65	75	209	130	11	14
" diplomatic corps.....	1				7	9	2	2				
Totals.....	1,783	2,270	138	157	5,569	5,852	437	525	12,079	14,322	1,906	1,970

IMMIGRATION BRANCH

Origin, Sex, Occupation, and Destination of Immigrant Arrivals

Racial Origin	Sex				Totals	Trade or								
	18 Years and Over		Under 18 Years			Farming Class			Labouring Class			Mechanics		
	Males	Females	Males	Females		Males	Females	Children	Males	Females	Children	Males	Females	Children
Albanian.....		1	2	1	4									
Armenian.....	2	1			3							1		
Belgian.....	30	32	15	16	93	21	16	20				1	1	
Bohemian.....			1		1									
British—														
English.....	444	692	143	166	1,445	87	21	29	74	3	8	30	33	19
Irish.....	100	121	16	25	262	34	4	3	13	1	1	8	3	2
Scotch.....	148	237	69	65	519	22	4	4	22	1	4	35	10	8
Welsh.....	13	19	1	5	38	3	1		2			3	1	3
Bulgarian.....		12	4	2	18									
Chinese.....	1				1									
Croatian.....	2	107	73	58	240	2	1	7			1			
Czech.....	20	51	30	33	134	18	15	31				1		
Dalmatian.....		1			1									
Dutch.....	13	22	22	33	90	11	6	2						
East Indian.....		4	9		13		1							
Estonian.....	1	1	2	1	5	1	1	2						
Finnish.....	6	17	12	14	49	4	4	3			3	1	1	
French.....	50	50	15	20	135	14	8	13	4			3	3	2
German.....	62	133	93	74	367	41	36	70	2		2	4	2	
Greek.....	8	34	19	14	75				1		1	1		
Hebrew.....	108	148	65	70	391	3	1	3	9	1	1	30	7	11
Italian.....	21	133	73	72	299	2	1		8		2	7	1	
Japanese.....	24	61	15	3	103	12	2	6	12	6	1		1	
Jugo-Slav.....	3	51	23	29	106	2	2	4						
Lettish.....		2			2									
Lithuanian.....	1	20	10	11	42	1							1	
Magyar.....	9	126	98	95	328	5	7	16				1		
Maltese.....	1	1	1	1	4								1	
Mexican.....			4	2	6			6						
Negro.....	3	2			5	1			1					
Persian.....				1	1									
Polish.....	51	149	121	111	432	37	35	62	1	1	1	2		
Portuguese.....		2			2									
Roumanian.....	5	24	19	17	65									
Russian.....	12	28	20	19	79	9	7	13			1	1	2	1
Ruthenian.....	116	292	210	237	855	109	100	199		2	4			1
Scandinavian—														
Danish.....	6	11	3	2	22	4	3	1	1			1	1	
Norwegian.....	6	14	1	4	25	4	2							
Swedish.....	4	6	2	4	16	2					1			
Serbian.....	1	18	8	8	35	1	1	2						
Slovak.....	59	201	141	119	520	58	45	81		2	2	1		
Spanish.....	3	5	1	1	10							2		
Swiss.....	17	17	11	4	49	15	11	14	1			1		
Syrian.....	2	11	3	3	19					1				
Turkish.....		1			1									
Totals.....	1,352	2,858	1,360	1,340	6,910	523	335	591	151	18	33	184	68	47

at Ocean Ports, for the Fiscal Year Ended March 31, 1937

Occupation											Destination										
Trading and Clerical Classes			Mining Class			Female Domestic Servants		Other Classes			Nova Scotia	New Brunswick	Prince Edward Island	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon Territory	Northwest Territories
Males	Females	Children	Males	Females	Children	18 Years and Over	Under 18 Years	Males	Females	Children											
									1	3			3	1							
								1	1				3								
4	2	2				2		4	11	9	4		19	64	1	1	1	3			
										1				1							
76	26	8	8	3	2	231	30	119	375	213	275	25	1	217	478	50	37	61	300	1	
24	5	4	1			50	3	20	58	28	24	7		61	119	10	10	10	21		
31	11	6	1			68	3	37	143	109	21	6	5	83	253	27	16	27	81		
2	1					5		3	11	3	1		1	7	15	1	4	3	6		
										12	6				18						
1									104	121	7			17	136		7	21	50	1	
			1	1		1	1	1	35	31				19	51	26	19	14	5	2	
									1						1						
1	1	1				2		1	13	52				6	28	31	15	6	4		
									3	9									13		
									1						1	4					
					1			1	11	18				7	33	1		2	6		
5	2	5				10	3	24	27	12	14			79	6	4	10	8	13	1	
2				1		8	4	13	86	96	7			36	138	70	14	53	49		
4								2	34	32		1		6	66	2					
40	15	10	3			35	6	23	89	104	5	2		191	161	20	3	6	3		
	1					1	3	4	129	140	3			59	185	3	2	11	36		
	1					3			48	11					2			101			
								1	49	48				7	88		4	2	5		
									2					2							
								1	19	20				14	10	1	7	10			
							2	3	119	175	1	4		39	160	12	23	73	16		
1		2												4							
						1		1	1		1			2	2						
									1												
2						5	5	9	103	164		2		39	179	119	48	41	3	1	
						1			1						2						
2	2	5				2	1	3	20	30				16	35	3	8		3		
						1		2	18	24				7	13	30	10	9	10		
						6	10	7	184	233				54	237	319	83	139	23		
						1			6	4	1	2	1	5	8	1		3	1		
1						1		1	11	5	3	1		1	3	5	3	9			
								2	6	5				2	1	3	3	7			
									17	14				7	26	1		1			
						3	5		151	172		3		43	296	80	23	57	18		
1	2	1							3	1				6	2	1		1			
						1			5	1				4	11	24	1	5	4		
1	1	1						1	9	5	7	2		3	7						
									1					1							
198	70	45	13	5	4	440	79	283	1,922	1,901	374	55	8	1,065	2,835	851	354	570	793	5	

TABLE

Origin, Sex, Occupation, and Destination of Immigrant Arrivals

Racial Origin	Sex				Totals	Trade or								
	18 Years and Over		Under 18 Years			Farming Class			Labouring Class			Mechanics		
	Males	Females	Males	Females		Males	Females	Children	Males	Females	Children	Males	Females	Children
Armenian.....				1	1									
Belgian.....	5	5	3		13	2	1		1				1	
Bohemian.....	5	6	1	1	13	2	1	1					1	
British—														
English.....	489	733	278	238	1,738	101	64	56	46	18	13	77	39	30
Irish.....	173	248	114	82	617	34	12	27	14	5	5	27	12	7
Scotch.....	186	262	99	92	639	32	13	6	15	4	2	42	15	14
Welsh.....	28	24	6	11	69	8	1	3	1			5		
Bulgarian.....		1			1									
Czech.....	2	1	1		4	1			1					
Dutch.....	34	39	18	11	102	8	3	5	4			6	2	
Finnish.....	4	8	1	3	16		1		1					1
French.....	156	294	131	130	711	32	14	22	19	6	13	23	13	7
German.....	174	237	61	57	529	51	28	32	13	3	3	27	13	3
Greek.....	6	4	5	5	20				1					1
Hebrew.....	99	82	27	20	228				6	1	1	8	3	6
Italian.....	23	22	7	6	58	1	1	1	2	1		5	2	1
Jugo-Slav.....	1	2			3									
Lettish.....	3				3	3								
Lithuanian.....	1	2	2	5	10									
Magyar.....	5	4	2		11	3						1		2
Maltese.....	1				1									
Negro.....	7	7	1	2	17	1	1		2					
North American Indian.....	1			1	2	1		1						
Polish.....	16	14	2	3	35	2			1			3	2	2
Roumanian.....		1		1	2									
Russian.....	3	8	4	4	19								1	
Ruthenian.....	4	5	4	2	15	4	2	3						
Scandinavian—														
Danish.....	15	18	7	4	44	5	3	3	2		1	3	1	
Icelandic.....		2			2									
Norwegian.....	23	41	6	4	74	7	3	1	1	1		5	2	1
Swedish.....	27	31	7	8	73	11	6	5				3	3	
Serbian.....		2		1	3									
Slovak.....		5		2	7									1
Spanish.....	2	6	1	2	11	1								1
Spanish American.....	1				1									
Swiss.....	2	8	3	3	16	1						1	1	
Syrian.....	3	1		1	5	1						1		
Totals.....	1,499	2,123	791	700	5,113	312	154	166	130	39	38	239	112	74

TABLE

Origin, Sex, Occupation, and Destination of Total Immi

Racial Origin	Sex				Totals	Trade or								
	18 Years and Over		Under 18 Years			Farming Class			Labouring Class			Mechanics		
	Males	Females	Males	Females		Males	Females	Children	Males	Females	Children	Males	Females	Children
Albanian.....		1	2	1	4									
Armenian.....	2	1		1	4							1		
Belgian.....	35	37	18	16	106	23	17	20	1			2	1	
Bohemian.....	5	6	2	1	14	2	1	1				1		
British—														
English.....	933	1,425	421	404	3,183	188	85	85	120	21	21	157	72	49
Irish.....	273	369	130	107	879	68	16	30	27	6	6	35	15	9
Scotch.....	334	499	168	157	1,158	54	17	10	37	5	6	77	25	22
Welsh.....	41	43	7	16	107	11	2	3	3			8	1	3
Bulgarian.....		13	4	2	19									
Chinese.....	1				1									
Croatian.....	2	107	73	58	240	2	1	7			1			
Czech.....	22	52	31	33	138	19	15	31	1			1		
Dalmatian.....		1			1									
Dutch.....	47	61	40	44	192	19	9	7	4			6	2	
East Indian.....		4	9		13		1							
Estonian.....	1	1	2	1	5	1	1	2						
Finnish.....	10	25	13	17	65	4	5	3	1		3	1	2	
French.....	206	344	146	150	846	46	22	35	23	6	13	26	16	9
German.....	236	370	159	131	896	92	64	102	15	3	5	31	15	3
Greek.....	14	38	24	19	95				2		1	1		1
Hebrew.....	207	230	92	90	619	3	1	3	15	2	2	38	10	17
Italian.....	44	155	80	78	357	3	2	1	10	1	2	12	3	1
Japanese.....	24	61	15	3	103	12	2	6	12	6	1		1	
Jugo-Slav.....	4	53	23	29	109	2	2	4						
Lettish.....	3	2			5	3								
Lithuanian.....	2	22	12	16	52	1							1	
Magyar.....	14	130	100	95	339	8	7	16				2		2
Maltese.....	2	1	1	1	5								1	
Mexican.....			4	2	6			6						
Negro.....	10	9	1	2	22	2	1		3					
North American Indian.....	1			1	2	1		1						
Persian.....				1	1									
Polish.....	67	163	123	114	467	39	35	62	2	1	1	5	2	2
Portuguese.....		2			2									
Roumanian.....	5	25	19	18	67									
Russian.....	15	36	24	23	98	9	7	13			1	1	3	1
Ruthenian.....	120	297	214	239	870	113	102	202		2	4			1
Scandinavian—														
Danish.....	21	29	10	6	66	9	6	4	3		1	4	2	
Icelandic.....		2			2									
Norwegian.....	29	55	7	8	99	11	5	1	1	1		5	2	1
Swedish.....	31	37	9	12	89	13	6	5			1	3	3	
Serbian.....	1	20	8	9	38	1	1	2						
Slovak.....	59	206	141	121	527	58	45	81		2	2	1	1	
Spanish.....	5	11	2	3	21	1						2	1	
Spanish American.....	1				1									
Swiss.....	19	25	14	7	65	16	11	14	1			2	1	
Syrian.....	5	12	3	4	24	1				1		1		
Turkish.....		1			1									
Totals.....	2,851	4,981	2,151	2,040	12,023	835	489	757	281	57	71	423	180	121

grant Arrivals for the Fiscal Year Ended March 31, 1937

Occupation										Destination													
Trading and Clerical Classes			Mining Class			Female Domestic Servants		Other Classes															
Males	Females	Children	Males	Females	Children	18 Years and Over	Under 18 Years	Males	Females	Children	Nova Scotia	New Brunswick	Prince Edward Island	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon Territory	Northwest Territories		
								1	1	3				3	1								
								1	1	1				3	1								
4	2	2				2		5	15	12	5	1		22	67	4	2	2		3			
1	1							1	4	2				1	6		2	4	1				
195	83	64	14	9	2	255	30	259	900	574	416	136	14	418	1,323	96	79	155	543	2	1		
68	27	12	3			55	3	72	250	177	62	38	22	131	442	28	24	44	88				
77	39	24	2			77	3	87	336	260	86	30	20	136	566	40	32	64	184				
6	2	1	2			5		11	33	16	7		1	15	48	2	6	10	18				
									13	6					19								
1				1	1	1	1		104	121	7			17	136		7	21	50		2		
						1	1	1	36	32				20	52	26	21	14	5				
									1	1					1					1			
8	5	2	1			3		9	42	75	7			14	78	35	25	15	18				
									3	9									13				
									1	1					1	4							
					1	1	1	4	17	22	1			8	44	1		3	8				
25	15	16				19	3	86	266	220	36	33	1	535	152	9	18	23	38		1		
44	21	4	3	1		12	4	51	254	172	20	4	1	81	395	101	47	154	92	1			
8		1						3	38	40	1	1		10	79	4							
107	26	18	5			35	6	29	156	136	11	4		261	291	25	6	7	14				
11	3	1				1	3	8	145	150	4	4		74	220	3	2	11	39				
	1					3			48	11								2	101				
								2	51	48				8	89		4	3	5				
									2	2				2	1	1			1				
								1	1	21	27			14	20	1	7	10					
							2	4	123	175	1	4		40	167	13	25	73	16				
1		2						1						4	1								
						4		5	4	1	4			3	14				1				
		2													2								
									1								1						
4	2	2	1			7	5	16	116	165		2		45	199	124	51	41	4		1		
						1			1						2								
2	2	5				2	1	3	21	31				16	36	3	8		4				
	1					1		5	24	32			1	9	23	33	11	9	12				
	1					6	10	7	186	236				54	248	321	84	140	23				
		1	2			1		5	19	9	2	3	1	9	20	6	4	11	10				
									2							2							
7	6	3				4		5	37	10	3	2			14	7	19	23	31				
4	3		1			1		10	24	15	1	1		5	22	5	14	21	20				
									19	15				7	29	1			1				
						3	5		155	174	1	3		46	299	80	23	57	18				
2	2	1							8	4	1			7	6	1	1		5				
								1						1									
	1					1			11	7		2		10	16	24	1	6	6				
2	1	1						1	10	6	7	2		4	9	1	1						
									1						1								
577	245	163	32	11	4	501	79	703	3,498	2,996	683	270	61	2,033	5,140	1,007	525	923	1,373	3	5		

Immigration via Ocean Ports, showing Origin

Racial Origin	Totals											
		British	U.S.A.	Cuban	Mexican	Panamaan	Austrian	Belgian	Bulgarian	Czecho-Slovakian	Finnish	French
Albanian.....	4											
Armenian.....	3											
Belgian.....	93	4						89				
Bohemian.....	1	1										
British—												
English.....	1,445	1,436	6				2					1
Irish.....	262	260	2									
Scotch.....	519	515	2									1
Welsh.....	38	37	1									
Bulgarian.....	18								14			
Croatian.....	240	7										
Chinese.....	1											
Czech, N.E.S.....	134	2								104		
Dalmatian.....	1											
Dutch.....	90	12			40		1					
East Indian.....	13	13										
Esthonian.....	5											
Finnish.....	49	2									46	
French.....	135	25	1					8				94
German.....	367	37	3		1		33	1		22		1
Greek.....	75	5										
Hebrew.....	391	41		6			1			3		1
Italian.....	299	27										
Japanese.....	103	23										
Jugo-Slav.....	106	6								11		
Lettish.....	2	2										
Lithuanian.....	42	2										
Magyar.....	328	10				1				42		
Maltese.....	4	4										
Mexican.....	6	6										
Negro.....	5	5										
Persian.....	1	1										
Polish.....	432	1								23		
Portuguese.....	2											
Roumanian.....	65	1										
Russian.....	79	3			5							2
Ruthenian.....	855	5								96		
Scandinavian—												
Danish.....	22	4										
Norwegian.....	25	4										
Swedish.....	16	1	1								3	
Serbian.....	35	1										
Slovak.....	520	3								486		
Spanish.....	10	2	1		3							
Swiss.....	49	1										
Syrian.....	19	12										
Turkish.....	1	1										
Totals.....	6,910	2,521	17	6	49	1	37	98	14	787	49	100

by Nationality, for the Fiscal Year 1936-37

German	Greek	Dutch	Hungarian	Italian	Jugo-Slavian	Polish	Roumanian	Russian	Danish	Norwegian	Swedish	Swiss	Albanian	Esthonian	Latvian	Lithuanian	Spanish	Chinese	Japanese	Syrian	Turkish	
62	1				233								4								2	1
10	4				1	28												1				
		35			1	1	1															
			16		34	73	32	1		1		6										
	70				272	277	20	5		1		51		5		2						
		1			89											24						
					237		26									40				80		
					12																	
					1	404		3														
					2		60															
					4		21	5										1				
						63		1														
						732		1		18												
										21												
						1				2		9										
					30		4															
					30	1											4					
												48										
																					7	
72	75	36	253	272	437	1,579	164	15	18	25	9	105	4	5	2	64	5	1	80	9	1	

TABLE

Immigration from the United States, showing Racial

	Total	British	U.S.A.	African (not British)	Cuban	Brazilian	Austrian	Belgian
Armenian.....	1		1					
Belgian.....	13	3	9					1
Bohemian.....	13	2	11					
British--								
English.....	1,738	362	1,375					
Irish.....	617	70	547					
Scotch.....	639	140	499					
Welsh.....	69	15	54					
Bulgarian.....	1		1					
Czech.....	4		3					
Dutch.....	102	8	90					
Finnish.....	16	1	13					
French.....	711	20	689					
German.....	529	45	479				1	
Greek.....	20		17					
Hebrew.....	228	20	200		1		1	
Italian.....	58	5	47					
Jugo-Slav.....	3	1	2					
Lettish.....	3		2					
Lithuanian.....	10	1	9					
Magyar.....	11	1	8					
Maltese.....	1		1					
Negro.....	17	3	14					
North American Indian.....	2		2					
Polish.....	35	2	29					
Roumanian.....	2		2					
Russian.....	19	1	17					
Ruthenian.....	15	4	9				2	
Scandinavian--								
Danish.....	44	7	35					
Icelandic.....	2	1	1					
Norwegian.....	74	12	58					
Swedish.....	73	13	59					
Serbian.....	3		3					
Slovak.....	7	1	4					
Spanish.....	11	4	3					
Spanish American.....	1					1		
Swiss.....	16		15					
Syrian.....	5		2	1				
Totals.....	5,113	742	4,301	1	1	1	4	1

37

Origin by Nationality, for the Fiscal Year 1936-37

Czecho-Slovakian	Finnish	French	German	Greek	Dutch	Hungarian	Italian	Polish	Russian	Danish	Norwegian	Swedish	Swiss	Latvian	Lithuanian	Spanish	Syrian
	1																
	1				4												
		2															
			2														
				10													
					1												
					3												
							1										
								6		4							
						2											
									3	1							
															1		
											2						
												4					
													1				
	2																
																4	
														1			
																	2
4	2	2	10	4	4	3	6	4	5	2	4	1	3	1	1	4	2

Immigration via Ocean Ports, showing Intended Occu

Intended Occupation	Totals	Bohemian	Slovak	Hebrew	English	Irish	Scotch	Welsh	Mexican	Croatian	Dalmatian	Serbian	Belgian	Bulgarian	Czech	Finnish	French
Farming class.....	604	66		6	100	35	24	4		3		1	23		20	4	14
Clerical class.....	93			4	54	11	18	1					2				1
Professional class.....	149			11	58	11	12	1					1		1		20
Merchant class.....	135			38	39	14	22	2					2				4
Miscellaneous.....	72			2	32	12	8	1					1			1	9
SKILLED WORKERS																	
Skilled workers, N.E.S.....	46			5	25		8	2								1	
Bakers.....	2						2										
Barbers.....	12			2	7		1										1
Blacksmiths.....	1	1															
Bookbinders.....	1						1										
Butchers.....	8				3	1	1	1						1			
Cabinetmakers.....	2				2												
Carpenters.....	12			2	5		3										
Dressmakers.....	4			1	3												
Engineers, locomotive.....	2				1		1										
Engineers, marine.....	7				4		3										
Engineers, stationary.....	3				1		2										
Electricians.....	8				4	1	2										
Fur workers.....	3			2													
Machinists.....	9				6	2	1										
Masons and bricklayers.....	1				1												
Milliners.....	2																2
Painters and glaziers.....	3				3												
Photographers.....	1																
Plasterers.....	4				1		1										
Plumbers.....	8				3	2	3										
Printers, pressmen, and printing trades.....	5				1	2											
Shoemakers.....	9			5											1		
Seamstresses.....	1																
Sheet metal workers.....	1			1													
Tailors.....	15			11	2												
Tanners.....	1			1													
Textile workers, including weavers and spinners.....	13			1	8	1	1										2
Tobacco workers, including cigarette, cigar makers.....	1				1												
Upholsterers.....	1						1										
Watch and clock makers.....	2			1													
Woodworkers, N.E.S.....	1				1												
Automobile mechanics.....	8				4		4										
Iron workers, N.E.S.....	5				2	1	2										
UNSKILLED AND SEMI-SKILLED WORKERS																	
Unskilled and semi-skilled, N.E.S.....	23				3		6										
Lumbermen.....	2				2												
Miners.....	11			2	7	1	1										
Fishermen.....	23				21	1											1
General labourers.....	52		1	4	9	8	8	1		1						3	
Manufacturing.....	15			3	4	1	4										
Transportation.....	56			2	40	3	4	1									3
Apprentices to skilled trades.....	3						3										
Domestic servants.....	519			8	41	261	53	71	5	2			2		2	2	13
Dependant children.....	2,501	1	248	124	267	34	120	6	6	125		16	29	6	61	22	31
Dependant wives.....	1,738		181	73	193	26	80	5		96		13	27	9	43	13	21
Occupation not given.....	712		15	49	267	42	101	8		13	1	5	5	3	6	3	13
Totals.....	6,910	1	520	391	1,445	282	519	38	6	240	1	35	93	18	134	49	135

patation by Racial Origin, for the Fiscal Year 1936-37

German	Greek	Dutch	Magyar	Italian	Jugo-Slav	Polish	Roumanian	Russian	Danish	Norwegian	Swedish	Swiss	Ruthenian	Albanian	Estonian	Lettish	Lithuanian	Maltese	Portuguese	Spanish	Negro	Armenian	Chinese	East Indian	Japanese	Persian	Syrian	Turkish	
49	11	12	2	2	47	10	4	4	2	15	125	6	1	1	1	1	1	1	1	1	1	1	1	1	18	1	1	1	1
11	4	3	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	31	55	181	140	51	218	34	37	5	5	5	15	16	3	3	1	20	2	1	2	1	1	1	1	3	11	6	6	1
103	25	14	111	116	38	119	18	25	9	12	3	15	256	1	1	2	12	8	1	4	1	1	1	1	9	57	1	10	1
26	10	7	18	18	15	25	7	4	1	2	4	1	31	1	1	1	8	1	1	1	1	1	1	1	1	4	1	1	1
367	75	90	328	299	106	432	65	79	22	25	16	49	855	4	5	2	42	4	2	10	5	3	1	13	103	1	19	1	1

Automobile mechanics	19				4	3	4											
Iron workers, N.E.S.	8				2	2	1	1										
Moulders	2				1	1												
UNSKILLED AND SEMI-SKILLED WORKERS																		
Unskilled and semi-skilled, N.E.S.	16			1	5	2	2											
Lumbermen	4						1											
Miners	20			2	7	2	1	2										
Fishermen	4				1		1											1
General labourers	36			1	14	6	4											
Manufacturing	32			4	9	5	3											
Construction	1																	
Transportation	40			1	16	1	4	1										
Apprentices to skilled trades	1				1													
Domestic servants	61				24	5	9											
Dependant children	1,438	2	2	44	512	189	190	17	1					1				3
Dependant wives	1,498	5	5	70	534	174	174	19						2				5
Occupation not given	625	1		14	200	83	101	7		1								1
Totals	5,113	13	7	228	1,738	617	639	69	2	1	3	13						1

Total Immigration, showing Intended Occupation

Intended Occupation	Totals																				
		Bohemian	Slovak	Hebrew	English	Irish	Scotch	Welsh	North American	Indian	Spanish American	Croatian	Dalmatian	Serbian	Belgian	Bulgarian	Czech	Finnish	French	German	Greek
Farming class.....	932	2	66	6	205	73	57	12	1	3	1	25	21	4	49	104	.....	.....	.....	.....	.....
Clerical class.....	219	.....	.....	14	108	22	36	2	.....	.....	.....	.....	.....	2	.....	.....	.....	13	13	.....	.....
Professional class.....	349	1	.....	16	124	25	28	5	.....	.....	.....	.....	.....	2	.....	.....	1	3	54	31	2
Merchant class.....	436	1	.....	97	123	51	57	5	.....	.....	.....	.....	.....	2	.....	.....	.....	20	34	3	8
Miscellaneous.....	201	.....	.....	9	56	34	13	3	.....	.....	.....	.....	.....	1	.....	.....	.....	1	60	13	1
SKILLED WORKERS																					
Skilled workers, N.E.S..	160	1	.....	7	66	12	28	3	.....	.....	.....	.....	.....	1	.....	.....	.....	1	10	20	.....
Bakers.....	5	.....	.....	1	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Barbers.....	28	.....	.....	2	12	3	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....
Blacksmiths.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bookbinders.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Butchers.....	15	.....	1	.....	5	1	3	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....
Cabinetmakers.....	3	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Carpenters.....	19	.....	2	.....	6	1	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....
Dressmakers.....	6	.....	2	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Engravers.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Engineers, locomotive.....	5	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Engineers, marine.....	7	.....	.....	4	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Engineers, stationary.....	5	.....	.....	1	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Electricians.....	12	.....	.....	5	5	1	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
Fur workers.....	11	.....	5	.....	2	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hat and cap makers.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Machinists.....	26	.....	.....	11	7	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....
Masons and bricklayers.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Millers.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Milliners.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....
Painters and glaziers.....	9	.....	.....	6	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
Photographers.....	2	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Plasterers.....	4	.....	.....	5	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Plumbers.....	12	.....	.....	5	2	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....
Printers, pressmen, and printing trades.....	11	.....	1	.....	4	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
Shoemakers.....	13	.....	5	.....	3	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Seamstresses.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sheet metal workers.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tailors.....	17	.....	13	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Tanners.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Textile workers, including weavers and spinners.....	23	.....	1	.....	10	1	3	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....
Tobacco workers, including cigarette, cigar makers.....	2	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Upholsterers.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Watch and clock makers.....	3	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Woodworkers, N.E.S..	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Automobile mechanics.....	27	.....	8	.....	3	.....	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	2
Iron workers, N.E.S..	13	.....	4	.....	3	.....	3	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Moulders.....	2	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
UNSKILLED AND SEMI-SKILLED WORKERS																					
Unskilled and semi-skilled, N.E.S..	39	.....	1	.....	8	2	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
Lumbermen.....	6	.....	.....	2	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
Miners.....	31	.....	4	.....	14	3	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
Fishermen.....	27	.....	.....	22	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
General labourers.....	88	1	5	.....	23	14	12	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....	4	7	1
Manufacturing.....	47	.....	7	.....	13	6	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	4	.....
Construction.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Transportation.....	96	.....	3	.....	56	4	8	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13	2
Apprentices to skilled trades.....	4	.....	.....	1	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Domestic servants.....	580	.....	8	.....	285	58	80	5	.....	.....	2	.....	.....	2	.....	.....	2	.....	2	22	16
Dependant children.....	3,939	3	250	168	779	223	310	23	7	.....	125	.....	.....	17	32	6	62	25	260	270	41
Dependant wives.....	3,236	5	186	143	727	200	254	24	.....	.....	96	.....	.....	15	32	9	44	21	161	297	28
Occupation not given.....	1,337	1	15	63	467	125	202	15	.....	1	13	.....	.....	5	5	4	6	3	152	65	11
Totals.....	12,023	14	527	619	3,183	879	1,158	107	8	1	240	1	38	106	19	138	65	846	896	95	.....

TABLE

Immigration via Ocean Ports, showing Racial Origin, Sex, and Age, 18 Years and

	Nova Scotia				New Brunswick				Prince Edward Island				Quebec			
	18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Albanian.....														1	1	1
Armenian.....													2	1		
Belgian.....	2	1	1										9	6	2	2
Bohemian.....																
British—																
English.....	72	148	14	41	8	13	2	2	1				80	103	16	18
Irish.....	4	10	3	7	4	2	1						25	29	3	4
Scotch.....	7	11	2	1	1	3	1	1	1		2	2	31	38	2	12
Welsh.....		1							1				3	4		
Bulgarian.....																
Chinese.....																
Croatian.....		3	2	2										7	7	3
Czech.....													1	11	1	6
Dalmatian.....																
Dutch.....													1	2	2	1
East Indian.....																
Esthonian.....																
Finnish.....													1	1	2	3
French.....	6	6		2									24	36	7	12
German.....	3	3	1										8	12	11	5
Greek.....						1							3	3		
Hebrew.....	4	1			1	1							56	71	27	37
Italian.....		2		1									13	19	15	12
Japanese.....																
Jugo-Slav.....														5	2	
Lettish.....														2		
Lithuanian.....														5	3	6
Magyar.....		1				1	1	2					2	16	8	13
Maltese.....													1	1	1	1
Mexican.....																
Negro.....	1												1	1		
Persian.....																
Polish.....						1	1						4	13	15	7
Portuguese.....																
Roumanian.....													1	5	4	6
Russian.....													2	2	2	1
Ruthenian.....													2	24	10	18
Scandinavian—																
Danish.....			1		1	1				1			2	2		1
Norwegian.....		1		2		1										
Swedish.....																
Serbian.....														3	2	2
Slovak.....						1	1	1					2	20	10	11
Spanish.....													3	2	1	
Swiss.....													3	1		
Syrian.....		4	2	1		1		1					1	2		
Turkish.....																
Totals.....	99	192	26	57	15	26	7	7	1	3	2	2	281	448	154	182

NOTE: In the Northwest Territories, 18 years and over: 1 English male, 1 French male, 1 Polish male, and 1 Croatian female; under 18 years, 1 Croatian female.

Over, and Under 18 Years, by Province of Destination,¹ for the Fiscal Year 1936-37

Ontario				Manitoba				Saskatchewan				Alberta				British Columbia			
18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
			1																
17	21	12	14		1			1				1				2	1		
		1																	
163	230	44	41	16	24	2	8	12	18	4	3	14	35	7	5	78	120	54	48
41	60	7	11	5	4		1	7	2		1	5	5			9	9	2	1
69	111	40	33	4	17	5	1	2	5	5	4	11	11	2	3	22	41	10	8
6	5		4	1				1	3				2		1	2	3	1	
	12	4	2																
																1			
	06	39	31					1	2	3	1	1	8	6	6		20	16	14
6	18	16	11	6	7	5	8	5	5	4	5	2	7	3	2		3	1	1
	1																		
8	10	3	7	2	1	9	19	1	2	7	5	1	5				2	1	1
																	4	9	
			1	1	1	2													
4	11	7	11			1							2				1	3	2
2	1	2	1	3		1		5	4		1	4	1	2	1	5	2	3	3
16	52	34	36	12	21	24	13		9	2	3	10	23	11	9	13	13	15	8
4	29	19	14	1	1														
38	63	32	28	7	5	6	2	2		1	1	3		2	1	2			
6	89	45	45		2	1				1	1		6	4	1	2	15	7	12
													1		1	24	60	15	2
3	41	19	25					1	1	2		1		1		3	1	1	
	8	1	1				1	3	2	2	1	4	4	1					
3	61	44	52	1	7	3	1	1	9	10	3	1	26	25	21	1	5	7	3
						4	2												
1	1																		
											1								
9	67	54	49	26	38	27	28	8	14	10	16	3	15	12	11		1	2	
2																			
2	12	13	8		2		1	2	3	2	1						2		1
	6	4	3	6	7	9	8	3	4	1	2	1	3	3	2		6	1	3
7	96	65	60	79	87	69	84	8	26	26	23	20	49	36	34		10	4	9
2	4	2			1							1	2						1
1					1	1	1	1	4			2	1			2	6		1
			2		1			1	1	1		2		1		1	4		2
1	13	6	6		1												1		
32	117	81	66	19	22	26	13	1	8	6	8	5	23	12	17		10	5	3
					1														1
4	5	2		8	8	6	2		1			1	2		2	1		3	
1	4	1	1																
	1																		
446	1,219	598	572	197	260	201	193	59	127	85	83	86	236	128	120	165	346	159	123

TABLE

Immigration from the United States, showing Racial Origin, Sex, and Age, 18 Year

Racial Origin	Nova Scotia				New Brunswick				Prince Edward Island				Quebec				Ontario				
	18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
Armenian.....																				1	
Belgian.....	1				1								1	1	1				1	2	
Bohemian.....													1					1	3	1	
British—																					
English.....	33	52	29	27	24	41	21	25	1	6	5	1	59	92	28	22	249	337	138	121	
Irish.....	5	13	16	4	5	11	9	6	5	5	8	4	19	35	10	6	103	120	58	42	
Scotch.....	15	27	14	9	3	8	8	5	1	9	1	4	18	21	9	5	91	129	47	46	
Welsh.....			1	5									2	5		1	16	12	3	2	
Bulgarian.....																					
Czech.....														1				1			
Dutch.....	1	3	1	2									5	3				13	24	8	5
Finnish.....		1												1				3	5	3	
French.....		6	7	9	6	13	8	6		1			107	187	84	78	27	66	25	28	
German.....	7	2	2	2	1	2		1	1				17	22	3	3	84	127	27	19	
Greek.....	1												1	2		1	2	2	5	4	
Hebrew.....	2	3	1			2							30	26	9	5	57	43	16	14	
Italian.....		1			2	1	1						9	5		1	10	14	6	5	
Jugo-Slav.....														1				1			
Lettish.....																		1			
Lithuanian.....																		1	2	2	5
Magyar.....													1					2	3	2	
Maltese.....																		1			
Negro.....	2	1											1					4	5	1	2
North American Indian.....																		1			1
Polish.....													3	1	1	1	8	9	1	2	
Roumanian.....																			1		
Russian.....									1				1			1	2	5	1	2	
Ruthenian.....																		1	4	4	2
Scandinavian—																					
Danish.....	1				1								1	3				5	5	1	1
Icelandic.....																					
Norwegian.....						1												6	6	1	
Swedish.....	1												2	3				8	10	1	1
Serbian.....																			2		1
Slovak.....		1												2			1		2		1
Spanish.....		1											1					1	3		
Spanish American.....													1								
Swiss.....						1	1							1	2	3	1	4			
Syrian.....													1					1	1		
Totals.....	69	111	71	58	43	81	48	43	8	22	14	9	281	412	147	128	700	947	350	308	

Years and Over, and Under 18 Years, by Province of Destination, for the Fiscal 1936-37

Manitoba				Saskatchewan				Alberta				British Columbia				Yukon Territory			
18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years		18 Years and Over		Under 18 Years	
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
2	1				1				1										
				1	1			1	2			1	1						
13	26	2	5	11	19	6	6	29	44	10	11	69	115	39	20	1	1		
5	10	1	2	4	7		3	11	15	4	4	18	32	8	11				
4	9			4	7	2	3	12	12	3	10	38	40	15	10				
1				2				2	3		2	5	4	2	1				
				1		1													
1	1	2		3	2	4	1	3	2	2	2	8	4	1	1				
												1	1						
1	3		1	4	3	1		6	3	3	3	5	12	3	5				
10	7	10	4	11	19	1	2	32	37	14	18	10	21	4	8	1			
2																			
1	2	1	1	2	1			1				6	5						
												2	1						
1												1							
	1			2															
													1						
4	1			1	2								1						
		2	1		1									1	1				
1	1			1				1											
1	3		1		2	1	1	4	2	2		2	3	3	1				
	2																		
1	1		2	3	9	1	1	6	9	4	1	7	15						
2	2			5	2	1	3	6	7	2	3	3	6	3	1				
					1								1	1	2				
									1				2						
1								1											
51	70	18	17	55	77	18	21	116	137	45	55	174	265	80	61	2	1		

TABLE 43

Immigration via Ocean Ports, showing Origin and Person to Whom Destined, for the Fiscal Year 1936-37

Racial Origin	Totals	Husband	Parents	Brother	Sister	Fiancée	Friend	Relative	Employer	Others
Albanian.....	4	1	3							
Armenian.....	3	1	1						1	
Belgian.....	93	5	9	5		1	5	20	2	46
Bohemian.....	1		1							
British—										
English.....	1,445	78	123	94	96	52	139	417	199	242
Irish.....	262	10	26	21	19	5	26	70	32	53
Scottish.....	519	36	91	39	47	27	47	153	31	48
Welsh.....	38	3	2	3	4	2	3	10	6	5
Bulgarian.....	18	8	5	1		3		1		
Chinese.....	1									1
Croatian.....	240	87	127	1		12		4		9
Czech.....	134	27	29	3		6	7	9	1	52
Dalmatian.....	1					1				
Dutch.....	90	6	27	2		4	5	13	1	32
East Indian.....	13	1	3				4	3		2
Estonian.....	5		1							4
Finnish.....	49	6	23	1	1	2	1	7	1	7
French.....	135	3	9	4	6	1	11	34	13	54
German.....	367	58	101	11	3	17	7	39	5	126
Greek.....	75	24	31	2	1	8	1	5		3
Hebrew.....	391	40	109	48	12	34	3	119	3	23
Italian.....	299	107	146	3		13	2	16	7	5
Japanese.....	103	47	13	1			10	26	4	2
Jugo-Slav.....	106	32	47			14	5			8
Lettish.....	2	2								
Lithuanian.....	42	10	19	1		8		2		2
Magyar.....	328	98	181			16	4	7	1	21
Maltese.....	4						4			
Mexican.....	6		6							
Negro.....	5							3	1	1
Persian.....	1	1								
Polish.....	432	83	181	4	1	18	13	26	1	105
Portuguese.....	2		1			1				
Roumanian.....	65	16	32	1		3		12	1	
Russian.....	79	14	27	1	1		4	18		14
Ruthenian.....	855	167	267	6	2	26	45	66		282
Scandinavian—										
Danish.....	22	3	4			1	1	1	1	11
Norwegian.....	25	10	5				2	4	1	3
Swedish.....	16	2	4	1		1		4		4
Serbian.....	35	11	15			5		1		3
Slovak.....	520	134	179	1		9	1	9	1	186
Spanish.....	10	2					3	1	2	2
Swiss.....	49	3	1	2			4	8		31
Syrian.....	19	5	6				1	4		3
Turkish.....	1	1								
Totals.....	6,910	1,142	1,860	256	193	284	358	1,112	315	1,390

TABLE 44

Immigration from the United States, showing Origin and Person to Whom Destined, for the Fiscal Year 1936-37

Racial Origin	Totals	Husband	Parents	Brother	Sister	Fiancée	Friend	Relative	Employer	Others
Armenian.....	1		1							
Belgian.....	13	3	2					4	1	3
Bohemian.....	13	2	2	2				4		3
British—										
English.....	1,738	257	336	46	45	20	54	298	116	506
Irish.....	617	90	122	17	21	7	19	125	26	190
Scotch.....	639	91	135	19	32	8	19	139	29	167
Welsh.....	69	10	10	1	2	1	2	19	6	18
Bulgarian.....	1					1				
Czech.....	4	1	1					1		1
Dutch.....	102	16	14	1	1	4	5	21	5	35
Finnish.....	16	4	3					1	3	5
French.....	711	79	175	11	7	5	8	107	29	290
German.....	529	114	81	8	7	13	13	102	45	146
Greek.....	20	3	8	2				1	4	1
Hebrew.....	228	54	44	6	3	6	9	29	11	66
Italian.....	58	14	13					3	7	14
Jugo-Slav.....	3	2								1
Lettish.....	3							3		
Lithuanian.....	10	2	3					4		1
Magyar.....	11	3	1	1		1			2	3
Maltese.....	1									1
Negro.....	17	3		1					6	7
North American Indian.....	2							2		
Polish.....	35	5	4			1	2	6	4	13
Roumanian.....	2	1						1		
Russian.....	19	3	7					4		5
Ruthenian.....	15	3	5					5	2	
Scandinavian—										
Danish.....	44	8	7	1	1	1	1	8	2	15
Icelandic.....	2		1					1		
Norwegian.....	74	11	8	7	1	1	4	17	2	23
Swedish.....	73	12	9	4	1		1	13	11	22
Serbian.....	3	1						1		1
Slovak.....	7	3	2							2
Spanish.....	11	2	3					4		2
Spanish American.....	1						1			
Swiss.....	16	4	5	1		1		2	1	2
Syrian.....	5							1		4
Totals.....	5,113	801	1,002	128	121	70	147	930	307	1,607

TABLE 45

Immigration via Ocean Ports, 18 Years of Age and Over, showing Racial Origin, Sex, and Conjugal Condition, for the Fiscal Year 1936-37

	Adult Males					Adult Females				
	Totals	Married	Single	Widowed	Divorced	Totals	Married	Single	Widowed	Divorced
Albanian.....						1	1			
Armenian.....	2		2			1	1			
Belgian.....	30	21	7	2		32	27	3	2	
British—										
English.....	444	167	249	26	2	692	211	379	96	6
Irish.....	100	30	66	4		121	29	72	20	
Scotch.....	148	62	78	7	1	237	83	115	39	
Welsh.....	13	4	9			19	5	11	3	
Bulgarian.....						12	9	3		
Chinese.....	1	1								
Croatian.....	2	2				107	94	12	1	
Czech.....	20	14	6			51	44	7		
Dalmatian.....						1		1		
Dutch.....	13	8	4	1		22	14	6	2	
East Indian.....						4	4			
Estonian.....	1	1				1	1			
Finnish.....	6	5	1			17	13	3	1	
French.....	50	22	24	3	1	50	21	23	4	2
German.....	62	44	18			133	101	28	3	1
Greek.....	8	1	7			34	24	10		
Hebrew.....	108	43	62	3		148	73	55	20	
Italian.....	21	15	6			133	116	15	2	
Japanese.....	24	1	23			61	57	4		
Jugo-Slav.....	3	2	1			51	37	14		
Lettish.....						2	2			
Lithuanian.....	1		1			20	12	8		
Magyar.....	9	4	5			126	108	16	2	
Maltese.....	1	1				1		1		
Negro.....	3	3				2		1	1	
Polish.....	51	34	17			149	120	24	5	
Portuguese.....						2		2		
Roumanian.....	5	2	2	1		24	18	4	1	1
Russian.....	12	8	2	2		28	25	1	2	
Ruthenian.....	116	87	27	2		292	257	27	7	1
Scandinavian—										
Danish.....	6	3	3			11	9	2		
Norwegian.....	6	4	2			14	12	2		
Swedish.....	4	2	1	1		6	3	2	1	
Serbian.....	1		1			18	13	5		
Slovak.....	59	48	11			201	182	14	5	
Spanish.....	3	3				5	4		1	
Swiss.....	17	14	3			17	15	1	1	
Syrian.....	2	1	1			11	10		1	
Turkish.....						1	1			
Totals.....	1,352	657	639	52	4	2,858	1,756	871	220	11

TABLE 46

Immigration from the United States, 18 Years of Age and Over, showing Racial Origin, Sex, and Conjugal Condition, for the Fiscal Year 1936-37

	Adult Males					Adult Females				
	Totals	Married	Single	Widowed	Divorced	Totals	Married	Single	Widowed	Divorced
Belgian.....	5	3	2			5	5			
Bohemian.....	5	4	1			6	5		1	
British—										
English.....	489	355	92	34	8	733	543	87	86	17
Irish.....	173	110	53	4	6	248	172	34	35	7
Scotch.....	186	123	49	14		262	178	38	39	7
Welsh.....	28	24	4			24	19	2	3	
Bulgarian.....						1		1		
Czech.....	2	2				1	1			
Dutch.....	34	22	11		1	39	30	7	2	
Finnish.....	4	4				8	7	1		
French.....	156	98	50	7	1	294	144	125	24	1
German.....	174	117	48	5	4	237	198	15	19	5
Greek.....	6	3	3			4	3		1	
Hebrew.....	99	73	22	2	2	82	70	9	2	1
Italian.....	23	13	9		1	22	21	1		
Jugo-Slav.....	1		1			2	2			
Lettish.....	3	3								
Lithuanian.....	1	1				2	2			
Magyar.....	5	3	2			4	3	1		
Maltese.....	1		1							
Negro.....	7	5	1	1		7	5	2		
North American Indian.....	1	1								
Polish.....	16	5	10	1		14	9	1	4	
Roumanian.....						1	1			
Russian.....	3	3				8	7		1	
Ruthenian.....	4	3	1			5	5			
Scandinavian—										
Danish.....	15	11	3	1		18	15	2	1	
Icelandic.....						2		1	1	
Norwegian.....	23	12	11			41	29	5	6	1
Swedish.....	27	17	9	1		31	29	2		
Serbian.....						2	2			
Slovak.....						5	5			
Spanish.....	2	1	1			6	5		1	
Spanish American.....	1		1							
Swiss.....	2	1	1			8	6	2		
Syrian.....	3	1	1	1		1	1			
Totals.....	1,499	1,018	387	71	23	2,123	1,522	336	226	39

TABLE 47

Admissions and Rejections, by Divisions, for the Fiscal Year 1936-37

	Ocean Ports		International Boundary Ports		Ocean Ports and International Boundary Ports	
	Admissions	Rejections	Admissions	Rejections	Admissions	Rejections
Atlantic Division—						
Quebec.....	3,467	56				
Halifax.....	1,728	23				
St. John.....	23	8				
North Sydney.....	365	47				
Montreal.....	52	36				
Sydney.....	4	1				
New York.....	918	27				
Boston.....	7	4				
International Boundary ports.....			1,481	2,894		
Totals.....	6,564	202	1,481	2,894	8,045	3,096
Eastern Division—						
International Boundary ports.....			2,372	8,979	2,372	8,979
Western Division—						
International Boundary ports.....			677	548	677	548
Pacific Division—						
Vancouver.....	206	19				
Victoria.....	36	1				
International Boundary ports.....			583	757		
Totals.....	242	20	583	757	825	777
Other ocean ports.....	104	25			104	25
Grand totals.....	6,910	247	5,113	13,178	12,023	13,425

TABLE 48

Rejections, at Ocean Ports, by Causes and Nationalities, from 1902-03 to 1936-37

	Fiscal Years															Totals	
	1902-3 to 1912-13	1913-14 to 1922-23	1923-1924	1924-1925	1925-1926	1926-1927	1927-1928	1928-1929	1929-1930	1930-1931	1931-1932	1932-1933	1933-1934	1934-1935	1935-1936		1936-1937
<i>By Causes</i>																	
Medical causes...	4,162	1,029	180	83	40	95	104	94	78	39	26	16	17	9	13	11	5,946
Civil causes.....	5,604	5,604	862	948	226	594	215	266	243	444	293	213	177	206	133	236	15,809
Totals.....	9,256	6,633	992	1,031	266	689	319	360	321	483	324	229	194	215	196	247	21,755
<i>By Nationalities</i>																	
British.....	1,240	978	187	199	109	209	180	154	160	251	180	126	123	150	123	138	4,477
American.....	175	134	6	11	.....	5	2	3	8	6	4	13	11	13	7	7	405
Other countries..	7,841	5,521	799	821	157	475	167	203	153	226	140	90	60	52	66	102	16,873
Totals.....	9,256	6,633	992	1,031	266	689	319	360	321	483	324	229	194	215	196	247	21,755

TABLE 49

Deportations, after Having Been Admitted, by Causes, Nationalities, and Provinces, from 1902-03 to 1936-37

	Fiscal Years															Totals	
	1902-03 to 1912-13	1913-14 to 1922-23	1923-1924	1924-1925	1925-1926	1926-1927	1927-1928	1928-1929	1929-1930	1930-1931	1931-1932	1932-1933	1933-1934	1934-1935	1935-1936		1936-1937
<i>By Causes</i>																	
Medical causes...	2,296	2,213	649	420	410	470	519	650	600	789	607	476	301	144	81	47	10,762
Public charges...	2,853	4,517	775	543	506	354	430	444	2,106	2,245	4,407	4,916	2,991	464	125	180	27,886
Criminality.....	1,033	3,939	511	320	453	447	426	411	591	966	1,666	836	466	267	207	117	12,255
Other civil causes.....	530	793	93	58	189	149	257	194	107	200	370	277	250	172	163	240	3,942
Accompanying deported persons.....	145	262	78	145	153	155	254	235	559	274	545	626	439	81	34	57	4,057
Totals.....	6,907	11,774	2,106	1,686	1,716	1,585	1,886	1,964	3,963	4,376	7,025	7,131	4,474	1,128	610	571	58,902
<i>By Nationalities</i>																	
British.....	4,358	5,226	1,377	985	899	898	1,047	1,083	2,933	3,099	4,248	4,251	2,718	345	157	202	33,826
American.....	1,066	4,566	417	321	330	351	297	294	228	279	260	334	319	189	146	167	9,571
Other countries..	1,433	1,982	312	380	487	426	542	587	752	993	2,517	2,540	1,437	544	307	202	15,505
Totals.....	6,907	11,774	2,106	1,686	1,716	1,585	1,886	1,964	3,963	4,376	7,025	7,131	4,474	1,128	610	571	58,902
<i>By Provinces</i>																	
Maritime Provinces.....	147	409	38	32	43	48	48	70	93	148	252	244	260	62	42	61	1,997
Quebec.....	1,589	2,197	301	206	233	233	240	255	480	509	984	1,343	596	163	106	129	9,564
Ontario.....	2,896	4,243	547	675	620	581	646	600	1,115	1,788	2,828	2,628	1,827	347	167	127	21,633
Manitoba.....	.....	1,316	302	242	195	177	279	403	1,296	625	1,014	858	408	71	43	32	.....
Saskatchewan.....	1,783	691	110	115	118	148	197	173	277	414	767	490	261	91	36	26	18,571
Alberta.....	.....	1,041	102	134	179	169	260	137	396	511	631	738	467	134	79	77	.....
British Columbia.....	494	1,876	206	288	334	290	276	276	306	381	549	832	556	210	137	119	7,129
Yukon Territory.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8
Totals.....	6,907	11,774	2,106	1,686	1,716	1,585	1,886	1,964	3,963	4,376	7,025	7,131	4,474	1,128	610	571	58,902

TABLE 50

Deportations (Excluding Person Accompanying), by Causes, for the Fiscal Year 1936-37

Countries to Which Departed	CAUSES																											Total Deports												
	Public Charges			Convicted of Criminal Offences			Opium and Narcotic Drug Act			Mental Causes						Medical Causes including Physically Defective			Misrepresentation and Stealth			Previously Reported			Other Causes				Ocean Port Totals			Boundary Totals								
										Insanity		Epilepsy		Feeble-minded																					Otherwise Mentally Defective					
	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.		M.	F.	C.									
Austria.....	1																																							
Belgium.....				3																																				
British—																																								
England.....	11	6	13	12						3	2								20	2	1	2	1		2		1				50	11	15							76
Ireland, Northern.....	4	2																	1	1		1			1	1	3				8	4	3							15
Ireland, Free State.....	1									1									2									1	2	5	4									4
Scotland.....	8	6	7	5						1	1								2			5						1	2	5	22	9	12							43
Wales.....	2			1															3			3									6									6
Australia.....																			2												2									2
Barbados.....																			1	1											1	1								2
Bermuda.....																			1												1									1
India.....	1		1																3									1	1	6	5	1	7							13
Jamaica.....							1												2												3									3
Malta.....																			2												2									2
Newfoundland.....				3									1						1			2	1		3						8	2	1							11
New Zealand.....	1																														1									1
China.....							18																					6			24									24
Czecho-Slovakia.....	2																		1	1		1									3	1								4
Eethonia.....										1									1												3									3
Finland.....	2	1								1															1						7	1								8
France.....				1																		3									1	3								4
Germany.....	3	1		2	1					1									4												10	2								12
Greece.....										1									3									2			6									6
Hungary.....				1	1					1	2								1				2								3	5								8
Italy.....				1															3									1			6									6
Japan.....																			15	1											16	1								16
Jugo-Slavia.....		1		2															3												5	1								6

TABLE 51

Deportations (Excluding Persons Accompanying), by Provinces, for the Fiscal Year 1936-37

Countries to Which Deported	Nova Scotia			Prince Edward Island			New Brunswick			Quebec			Ontario			Manitoba			Saskatch- ewan			Alberta			British Columbia			Ocean Port Totals			Boundary Totals			Total Deports
	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.	M.	F.	C.	
Austria													1			1			1														4	
Belgium												3																					3	
British—																																		
England	4						2	1	5	10	3	1	17	2	1	4	2	5	3	1	2	3	2		7		1	50	11	15			76	
Ireland, Northern	1	1	3							1			5	3											1			8	4	3			15	
Ireland, Free State												1												3				4					4	
Scotland	1						1	1	3	3	1	2	7	3	2	1			2			2	3	4	5	1	1	22	9	12			43	
Wales										2			1								1			2			6						6	
Australia												1												1			2						2	
Barbados	1												1												1			1					2	
Bermuda							1																				1						1	
India																									5	1	7	5	1	7			13	
Jamaica							2			1																	3						3	
Malta										1			1														2						2	
Newfoundland	5						1	2		1			1		1												8	2	1			11		
New Zealand																									1			1					1	
China										3			2						1					18			24						24	
Czechoslovakia												2	1								1						3	1					4	
Estonia										1			1						1							3							3	
Finland										3			1												3	1		7	1				8	
France							1			1	2																1	3					4	
Germany	2									2			1	2		2							3				10	2					12	
Greece										6																	6							6
Hungary												1	2						2		2	1					3	5					8	
Italy										4			2														6							6
Japan																			1															16
Jugo-Slavia										2			3	1											14	1		15	1					6
Luxembourg																1											1							1
Peru																										1		1						1
Philippine Islands																										1		1						1

Poland.....							2				6	4	1	6		1	2			7	4	2	2	1			25	9	4				38		
Portugal.....							2																				2							2	
Roumania.....											2	2		2										1				5	2					7	
Russia.....											1													2				3						3	
Scandinavian—																																			
Denmark.....																										3		3						3	
Norway.....												2												2	1			6	1					7	
Sweden.....											2														2			4						4	
Switzerland.....							1																					1						1	
Uruguay.....											1																	1							1
Ocean port totals.....	14	1	3				8	5	8	53	6	3	53	22	5	17	2	6	11	3	2	19	10	6	75	6	9	255	55	42				352	
U. S. A. citizens.....	5	1	3				4			42	8	10	26	8	4	4	1		7	1			6	6	8	13	3	2				107	28	27	162
Grand totals.....	19	2	6				12	5	8	95	14	13	84	30	9	21	3	6	18	4	2	25	16	14	88	9	11	255	55	42	107	28	27	514	
Totals by provinces.....	27						25			122			123			30			24				55		108			352			162			514	
Percentages.....	5						5			24			24			6			4				11		21			68			32			100	

REPORT OF THE CHIEF CONTROLLER OF CHINESE IMMIGRATION

Legislation governing the entry to Canada of persons of Chinese origin was first enacted in 1885, at which time the practice of imposing a head tax was adopted. The original tax was \$50 which was increased in January 1901 to \$100, and in January 1904, to \$500. The law provided that merchants, their families, university students, and persons of the non-immigrant classes, should be exempt from the payment of head tax. In June 1923, the present Chinese Immigration Act was passed. This Act abolished the head tax and provided for the entry to Canada of the following classes:

- (a) Members of the diplomatic corps, consuls, consular agents, and other government representatives, their suites and servants;
- (b) Children born in Canada of parents of Chinese origin or descent, who left Canada for educational or other purposes, on establishing their identity to the satisfaction of the controller at the port where they seek re-entry;
- (c) Merchants, as defined by regulations made by the minister, students entering Canada for the purpose of attendance, and while in actual attendance, at any Canadian university or college authorized by statute or charter to confer degrees;
- (d) Persons in transit through Canada.

During the fiscal year 1936-37 one Chinese immigrant was admitted. Three students were admitted during this period as non-immigrants to attend universities.

The minister has authority to grant temporary entry, under permit, for a specified period only, to persons of Chinese origin without such persons being subject to the provisions of the Act. Bonds are required in the case of actors, amahs, servants, teachers, etc., temporarily admitted under the Act, guaranteeing they will follow no occupation other than that for which temporary admission is allowed and will leave Canada within the period of validity of their permits. Forty-two permits were issued during 1936-37 as follows:

Actors and actresses.. . . .	14	Infants.. . . .	2
Agent, manufacturer's.. . . .	1	Merchants.. . . .	2
Artists.. . . .	2	Missionaries.. . . .	2
Carver, ivory.. . . .	1	Officials, Government.. . . .	6
Constructors, bamboo building.. . . .	3	Professor.. . . .	1
Consul, servant of.. . . .	1	Students.. . . .	5
Doctor, medical.. . . .	1	Teacher.. . . .	1

Of this number, 28 left Canada within the year.

The number of Chinese passing through Canada in transit has shown a considerable increase over the previous year.

Provision is made in the Chinese Immigration Act for registration, prior to departure, and the right to return within a period of 2 years, of Chinese legally admitted to and lawfully resident in Canada. The number of Chinese who registered prior to leaving Canada during this fiscal year and thus protected their right to re-entry totalled 1,887. One hundred and seventy-two Chinese employed on vessels trading in international waters also registered. During the same period, 246 Chinese sailed for China without registering, and 1,116 who had registered, failed to return within the period allowed by virtue of their registration, all of whom have thus forfeited the right of re-entry to Canada.

The Chinese Immigration Act, in common with the general Immigration Act, sets out specifically the classes whose entry to Canada is prohibited, provides machinery for the deportation of undesirables, and authorizes penalties for violations of the Act. A total of twenty-four Chinese were deported during the period

under review, six under the Chinese Immigration Act and eighteen following conviction under the Opium and Narcotic Drug Act, 1929. Four Chinese admitted as exempt from payment of the tax under previous Acts and who had ceased to belong to such exempt classes, paid the \$500 penalty provided in section 27 of the Act. Three administrative fines of \$1,000 each assessed under section 19 were deposited to the credit of the Receiver-General.

The Department maintains a special staff on the Pacific coast and in Hong Kong dealing with the administration of the Chinese Immigration Act, and there are also controllers at the principal Atlantic ports and at other points in Canada. The departmental machinery developed over a period of years for regulating the entry to Canada of persons coming within the scope of the Act, enables immigration officials to deal promptly and efficiently with all applicants. Special regulations are in effect for the purpose of facilitating the entry of Chinese of the non-immigrant classes.

For the purpose of comparison, the following table relating to Chinese immigration is furnished:

	Exemptions	Paying Tax	Percentage of Total Arrivals Admitted Exempt	Registered for Leave	Total Revenue
					\$
1912-13.....	367	7,078	4.93	3,742	3,549,242
1913-14.....	238	5,274	4.32	4,143	2,644,593
1914-15.....	103	1,155	8.19	4,373	588,124
1915-16.....	68	20	77.27	4,064	19,389
1916-17.....	121	272	30.79	3,312	140,487
1917-18.....	119	650	15.47	2,907	336,757
1918-19.....	267	4,066	6.16	3,244	2,609,669
1919-20.....	181	363	33.27	5,529	538,479
1920-21.....	1,550	885	63.56	6,807	474,332
1921-22.....	287	1,459	16.44	7,532	743,032
1922-23.....	59	652	8.30	6,682	434,557
1923-24.....	49	625	7.27	5,661	334,039
1924-25.....				5,992	308,659
1925-26.....				3,947	25,969
1926-27.....				5,987	14,844
1927-28.....	1	2	33.33	5,087	25,679
1928-29.....	1		100.00	5,480	30,795
1929-30.....				5,682	30,799
1930-31.....				5,783	28,846
1931-32.....				4,387	11,584
1932-33.....	1		100.00	3,626	9,152
1933-34.....	2		100.00	2,156	7,237
1934-35.....				2,103	6,506
1935-36.....				2,138	6,501
1936-37.....	1		100.00	2,059	9,893
Totals.....	3,415	22,501	13.17	112,423	12,929,164

REPORT OF THE COMMISSIONER OF IMMIGRATION

Immigration, although slightly higher than the previous fiscal year, still remains at a very low figure, being but 12,023, but the non-immigrant movement continues in increasing numbers. The development in road-building, the multiplication of highways crossing the International Boundary, and the tremendous increase in automobile traffic, have necessitated in recent years an increase in the inspectional staff on the International Boundary. There are now 224 ports of entry in Canada, of which 30 are seaports and 194 are boundary ports. Of the total, 89 are in the Atlantic, 46 in the Eastern, 50 in the Western, and 30 in the Pacific, Districts. Although there has been an increase in the staff of inspectors

on the boundary there have been material decreases in other directions, and it is noteworthy that the total immigration staff has been reduced from 1,179 in 1929-30 to 925 at the end of the fiscal year 1936-37. Total immigration expenditures in the same period have dropped from \$3,084,000 to \$1,311,000.

Certain restrictions of the Immigration Act and Regulations apply alike to persons of all races and nationalities, such restrictions having to do with mental and physical health, character, and literary. Other restrictions do not apply alike to all. The passport regulation, for example, does not apply to any class of non-immigrants or to immigrants who are British subjects coming to Canada from Great Britain, Northern Ireland, the Irish Free State, Newfoundland, New Zealand, Australia, the Union of South Africa, or the United States of America, nor does it apply to United States citizens. Regulations are made and changed from time to time by Order in Council. The most important restrictive regulation now in effect is known as P.C. 695 which limits immigration to:

1. British subjects from Great Britain or Northern Ireland, the Irish Free State, Newfoundland, New Zealand, Australia, the Union of South Africa, and the United States of America, who have sufficient means to maintain themselves until employment is secured.
2. American citizens entering Canada with sufficient means to maintain themselves until employment is secured.
3. Wives and unmarried children under 18 years of age, joining family heads legally resident in Canada, who are in a position to receive and care for their dependents.
4. Farmers bringing with them sufficient capital to begin farming in Canada.
5. Fiancées of adult males legally resident in Canada who are in a position to receive, marry, and care for intended wives.

From the above it will be observed that immigration from Continental Europe and many other countries as well, is restricted to classes 3, 4, and 5.

Asiatic immigration is controlled by special legislation, regulation, or arrangement. Apart from Chinese who are dealt with under separate legislation and Japanese whose entry is governed by an arrangement, the only Asiatic immigrants admissible are the wives and unmarried children, under 18, of Asiatics resident in and citizens of Canada.

An important change in the administrative work of the Department was made effective on December 1, 1936, with the division of what had hitherto been known as the Eastern Division into two districts now known as the Atlantic District and the Eastern District, each administered by a District Superintendent. In the last annual report some statistics were given for each of the three Divisions as they were then known. These figures showed, for example, that of the 11,103 immigrants admitted to Canada, 9,401 were admitted through ports in the Eastern Division and 22,536,719 of the total non-immigrant movement of 25,080,159 entered through ports in the same Division. The entire Canadian territory is now divided into four Districts, making it possible for each District Superintendent to give more personal supervision to the activities of his District. The Districts cover the following territory:

Atlantic District, includes all territory east of the Ontario-Quebec boundary.

District Superintendent, G. G. Congdon.

Eastern District, includes the area from the Quebec boundary on the east, to Schreiber, Ont., on the west. District Superintendent, J. S. Fraser.

Western District, extends from Schreiber, Ont., to Kingsgate, B.C. District Superintendent, C. E. S. Smith.

Pacific District, includes all territory west of Kingsgate, B.C. District Superintendent, F. W. Taylor.

The Superintendent of the Atlantic District reporting on the work of the year, calls attention to the admission of 8,045 immigrants and the entry of almost 9,000,000 non-immigrants. Rejections in his district during the year totalled 3,096, the figures covering both ocean and International Boundary ports. As an indication of the trend of the times there were 1,118 persons examined who arrived by aeroplane. Bus tours are also becoming popular.

The Superintendent of the Eastern District reports an increase in the total movement within his district of more than 2,000,000 persons. The immigrants admitted numbered 2,372 and the non-immigrants upwards of 16,000,000. Rejections totalled 8,979. The District Superintendent mentions that a great many of the visitors appear to be coming for longer periods, are better supplied with funds, and are travelling with better equipment than during the past six or seven years. A check-out system on doubtful temporary entry cases is reported as having proved most satisfactory. The work of the investigating staff of four officers has increased during the year, the total number of investigations being 1,459, in addition to which there were 294 Boards of Inquiry held. There were 193 employees, permanent and temporary, in the Eastern District at the close of the year.

In the Western District the admission of immigrants totalled only 677, and rejections numbered 548. This is a great change from the peak year of 1913 when 92,000 United States citizens entered Canada for declared permanent residence, many of them having crossed to the Prairie Provinces bringing with them millions of dollars in cash and settlers' effects. The non-immigrant movement in the Western District totalled approximately 1,400,000. In reporting on the year's work the District Superintendent calls attention to the large amount of investigational work required in his District, the investigations amounting to 6,259, in addition to which 134 Boards of Inquiry were held. During the year the Superintendent issued 372 letters to facilitate the entry of wives and minor children coming from Europe to join family heads established in Canada. In each case the local settlement arrangements were carefully inquired into before the letter was issued. There was a noticeable increase in the number of such letters during the year.

The work in the Pacific District varies considerably from that of any other as most of the problems relating to Oriental immigration arise in that District. The number of immigrants admitted was 825 and the rejections 777. The non-immigrant movement was 1,500,000. Boards of Inquiry numbered 182 and investigations totalled 1,273. The number deported from the Pacific District was 139, of which 21 were deported after conviction under the Opium and Narcotic Drug Act.

During the year in the Pacific District, 245 Chinese claiming Canadian birth registered outward and in the same period 232 were re-admitted. Two hundred and forty-six Chinese left Canada without applying for outward registration, thus forfeiting any right of re-admission. In the same period 1,116 outward registrations lapsed owing to failure of the registrants to return within the prescribed period. The number of new outward registrations granted at Vancouver and Victoria to Chinese (other than those claiming Canadian birth), totalled 1,848, a figure slightly under the outward registrations of the previous year. A total of 148 applications were received from Japanese for the admission of wives and children. Thirty of these were turned down due to unsatisfactory settlement arrangements. The District Superintendent reports a decided increase in travel by air. The number of planes inspected was 1,239 and the number of passengers examined was 4,492.

Much of the work done by immigration officers does not lend itself to statistical tabulation. An investigation begun at an Atlantic port may extend all the way to the Pacific coast and may call for action on the part of several officers. Similarly a deportation often involves many inquiries before deporta-

tion can be brought about. A great deal of investigational work has been called for during the year by numerous requests for the admission of relatives and friends from Europe. In no case is authority issued for the admission of a wife or child or other dependant relative from continental Europe, without inquiry having been made into local settlement conditions in Canada, and many applications have been refused because the applicants were not found in a position to give a home and maintenance to their relatives under conditions that would prevent them becoming a charge upon some municipality or province. The improvement of conditions in Canada has already resulted in a large increase in the number of requests for the admission of immigrants from Europe. Many of these requests involve persons not admissible under the general regulations and if admission is granted it can be done only by special Orders in Council. Every effort is made to deal with such requests in such a way that those admitted are not likely to become factors in the labour market to the detriment of residents of Canada.

The number deported in 1936-37 (571) is the lowest since the war years. In a period of 35 years deportations have amounted to upwards of 59,000 persons and a reference to statistical tables 48 and 49 will show the variation in numbers and the causes from year to year over that period. Becoming a public charge was for many years the principal cause for deportation. During the past year only 110 of the total of 571 were sent home because they were public charges. Of all public charges deported from Canada between November 1931, and March 1937, only 11 per cent were sent home against their own wishes.

With the steadily increasing air travel between Canada and the United States, the Branch has been called upon to extend inspectional facilities to take care of the same. There are at present 15 ports of entry where plane inspection is carried on and additional facilities are likely to be called for shortly. Every effort has been made during the year to maintain a high standard of efficiency on the part of Immigration officers. The Immigration Inspector cannot enjoy statutory and other holidays like his fellow-citizens and not even week-ends, as these are occasions when international traffic is always at its peak.

REPORT OF SUPERVISOR OF WOMEN'S DIVISION

The work of the Women's Division arises mainly out of the Empire Settlement Passage Scheme under which 23,804 British houseworkers came to Canada between 1923 and 1931.

In the autumn of 1930 the Immigration Regulations applicable to continental Europe stopped the movement of houseworkers from that area, but allowed the admission of wives and unmarried children under 18 joining family heads in Canada. These restrictions did not apply to the British Isles, but the discontinuance of passage assistance in 1931, available only to British immigrants, resulted in an immediate falling off in the movement of British houseworkers and others. This condition has continued until now and the movement of unaccompanied women and children during the year was reduced to 723 British and 1,726 aliens. The larger number of foreign immigrants is explained by the fact that most of them are the wives and children of immigrants who came to Canada from continental Europe some years ago.

A woman officer is on duty at Quebec in the summer and at Halifax in the winter. This officer during the year met 166 ships at the two ports and gave such assistance and care to unaccompanied women and children as was necessary. She was also present at 47 Boards of Inquiry where immigrant women

were being examined. It has long been the custom of our officer to visit women detained at the ports. Many travellers have expressed appreciation of the help given them on arrival.

Young women coming to be married are put in touch with the organizations that are likely to give them friendly assistance and direction, the names being sent to the Canadian Welfare Council, whereas the names of mothers coming with children are sent to the Provincial Public Health authorities or to the Victorian Order of Nurses according to location. When women settle in rural districts the Women's Institutes are advised.

Of the 23,804 British houseworkers who came between 1923 and 1931, the larger number (18,790) arrived after January 1, 1926, and came under what is known as the Aftercare Agreement which was a feature of the Empire Settlement Passage Scheme. Canada's monetary contribution was applicable to ocean passage only, whereas the British Government's contribution applied to Canadian rail fare as well as to ocean passage. Canada, therefore, agreed to give after-care and this is still a continuing obligation, but on a reduced scale.

During the year there has been a considerable reduction in the staff of the Women's Division owing to the falling-off in immigration and a reduction in the amount of work to be done. Several officers formerly attached to the Women's Division are now attached to local offices, particularly at Montreal, Toronto, and Winnipeg, where they work under the immediate direction of the local immigration office and their spare time is filled up with other duties. After-care which was undertaken by the Department was given through the Women's Division. Houseworkers assisted to Canada received loans totalling \$428,000, most of which has been recovered through the Women's Division.

In co-operation with the Women's Division valuable work in the establishment of houseworkers and others in Canada has been accomplished by the Women's Division of the Employment Service of Canada, the Young Women's Christian Association, the Catholic Women's League, the Travellers' Aid, and the Children's Aid Society.

The Supervisor of the Women's Division is the Canadian representative of the Service Women's Benevolent Fund. Women who during the war served with the following corps are eligible to apply for assistance: Women's Royal Naval Service, Queen Mary's Army Auxiliary Corps, Women's Legion (Motor Transport Section), Women's Forage Corps, and Women's Royal Air Force. Twenty-six cases have been investigated and granted some small assistance in time of illness or convalescence, and in some cases glasses or dentures have been supplied. A total of \$540.50 has been expended. Mr. Wilfred B. Haworth, Secretary of the Fund in London, England, resigned in May last after many years of splendid work in the interests of ex-service women.

The Canadian Red Cross Society continues at the port of Halifax to give a warm welcome to newcomers and renders a valuable service. During the past year the nursery has opened for the arrival of 63 ships and a total of 1,287 women and 889 children were cared for while waiting for their trains to leave the port.

The Society for the Oversea Settlement of British Women acts as the Women's Branch of the Oversea Settlement Department. Over a period of years they have taken an active interest in reuniting British families and have made many passage loans to women and children when the Department reported that settlement arrangements in Canada were satisfactory. During 1936 they assisted 16 persons to come to Canada. This Society also takes a very practical interest in the reception of deportees upon arrival at British ports.

A statistical review of houseworkers arriving between 1919-20 and 1936-37 will be found in the accompanying table.

Number of Houseworkers, Arrived in Canada, for the Eighteen Years Ended March 31, 1937

BY NATIONALITY	BY RACIAL ORIGIN																		Total
	1919-20	1920-21	1921-22	1922-23	1923-24	1924-25	1925-26	1926-27	1927-28	1928-29	1929-30	1930-31	1931-32	1932-33	1933-34	1934-35	1935-36	1936-37	
British—																			
English.....	3,093	4,607	2,537	2,129	3,187	3,230	2,351	2,758	2,859	2,677	3,107	1,861	582	250	206	226	226	261	
Irish.....	291	861	595	542	1,227	1,405	1,163	1,556	1,443	1,683	1,860	986	146	49	53	46	41	53	
Scotch.....	1,114	2,427	1,818	1,967	3,789	2,971	2,144	2,800	2,664	2,753	3,320	1,553	323	107	95	80	69	71	
Welsh.....	54	79	54	62	85	105	94	116	153	167	206	77	21	6	2	1	2	5	
Newfoundland.....	136	221	71	163	434	203												1,228	
Total.....	4,688	8,195	5,075	4,863	8,722	7,914	5,752	7,230	7,119	7,280	8,493	4,477	1,072	412	356	353	338	390	
Other races—																			
African, South.....	2	8		1	2	3												16	
Albanian.....								1	5	3								9	
Arabian.....							2	1	1		2							6	
Armenian.....		8	2	9	120	115	29	19	4	3	2	8			1		1	321	
Austrian.....		2	1	2	4	6	8											23	
Austrian.....	9	2	3	4	4	11												33	
Australian.....	51	73	29	28	77	70	34	40	58	42	22	19			1		2	546	
Bermudian.....		4	2															6	
Bohemian.....									2	1	2							5	
Bulgarian.....				2	11	5	3	9	9	18	14	12						83	
Chilean.....						2												2	
Croatian.....							8	13	17	31	37	42	2	1	2	2	6	163	
Czecho-Slovak.....		28	16	9	62	52	23	37	54	33	46	19	2		1	1	2	385	
Dalmatian.....										1								1	
Dutch.....	8	15	6	11	33	61	30	46	35	99	121	27	1		1		2	557	
East Indian.....								1		1								3	
Esthonian.....	7	77	81	94	551	703	271	873	1,279	1,288	1,686	688	5	2	1	3	1	147	
Finnish.....	44	38	22	22	32	30	34	35	47	46	47	31	8	2	7	5	6	7,612	
French.....	1	8	22	48	288	266	743	1,014	1,192	1,394	1,661	1,032	8	14	14	5	5	469	
German.....	1	10	35	37	78	64	50	46	65	56	67	38	2	5	4	2	1	7,727	
Greek.....		74	172	63	95	105	602	621	691	585	647	512	14	14	44	21	41	561	
Hebrew, N.E.S.....		86	519	199	233	168												4,342	
Hebrew, Polish.....		7	77	76	302	373												1,205	
Hebrew, Russian.....		2	4	5	26	58												925	
Hungarian.....	41	131	127	61	234	217	184	209	210	21	59	43	10	5	4	4	8	1,572	
Italian.....		5	7	9														4	
Jamaican.....		3	4	5	4	3	11	6	8	6	6	6	2	1	1	3	4	28	
Japanese.....		10	22	22	44	60	16	44	42	82	95	35		1	3		3	77	
Jugo-Slav.....					3	7												476	
Latvian.....																		10	
Lettish.....					1		5	20	18	14	16	6			1			81	
Lithuanian.....				6	35	43	48	109	201	162	203	114	2	2	1	1	1	929	
Luxembourg.....	1				7	1												9	
Magyar.....							87	203	212	253	316	261	7	6	5	6	1	1,359	
Maltese.....	1	6	2		6	4	2	1	3		3	2						30	
Mexican.....					1													1	

Moravian.....						1	2	3	1	3											10
Negro.....	18	46	25	28	29	24	34	28	67	80	152	89	2	2	3					1	623
New Zealand.....	1	1	1	1	3	8															15
Persian.....						1			2			1									4
Polish, N.E.S.....	1	261	359	421	1,010	776	253	557	745	839	1,014	732	9	9	6		9	7	10	7,018	
Polish, Russian.....	1	1																			2
Portuguese.....						1	1	2	2	3	4										14
Roumanian.....	2	65	64	57	138	163	28	20	20	26	31	24	2	1	3		1	3	3	651	
Russian.....	1	32	33	15	423	160	59	78	95	47	71	83	1	1	1		1	1	1	1,102	
Ruthenian.....							445	1,034	1,404	1,785	1,825	1,282	15	4	6		3	10	16	7,829	
Scandinavian—																					
Danish.....	17	27	30	22	45	114	87	113	266	391	368	126	7	5	4				1	1,623	
Icelandic.....	2	11	1	1	6	4	6	4	5	7		5								52	
Norwegian.....	25	32	35	38	88	164	95	192	327	359	356	146	1	4	2		4	1	1	1,870	
Swedish.....	29	57	45	73	181	160	130	244	289	352	373	118	6	1	3		3	3		2,069	
Serbian.....							11	9	14	11	21	10		2				1		79	
Slovak.....							17	60	144	198	253	146	4	1	5		4	5	8	845	
Spanish.....		1		2	2	1	2	1	1		1		1	1							13
Spanish American.....																					1
Swiss.....	9	18	20	15	69	69	32	46	56	49	66	20	1	1	2				1	474	
Syrian.....		34	14	7	37	34	22	25	11	12	8	20					1			225	
Turkish.....				2	6	12	4	3	1	1	1	3								33	
Ukranian.....		5	12	5	135	3															160
U.S.A. citizens.....	3	7	5		7	3															25
Venezuelan.....						3															3
West Indian.....	12	41	7	11	24	17															112
Total.....	290	1,237	1,805	1,410	4,562	4,156	3,423	5,789	7,679	8,335	9,621	5,723	113	85	122		78	109	129	54,671	
Grand total.....	4,978	9,432	6,880	6,273	13,284	12,070	9,180	13,019	14,798	15,015	18,114	10,200	1,185	497	478		431	447	519	137,400	
From U.S.A.....	1,076	1,010	755	701	581	363	506	538	516	626	634	636	298	207	134		95	81	61	8,818	
Grand total.....	6,054	10,442	7,635	6,974	13,865	12,433	9,686	13,557	15,314	16,241	18,748	10,836	1,483	704	612		526	528	580	146,218	

REPORT OF THE SUPERVISOR OF JUVENILE IMMIGRATION

The work of this unit during the fiscal year has continued much the same as for several years past. Many inquiries were received about the possibility of the revival of the juvenile movement and it is evident that many good British lads could have been suitably placed. Applications for help increased very materially over previous years and wages offered are distinctly on the upgrade. Quite a number of applications were received from older British boys in the Mother Country who were interested in coming to Canada to gain farming experience and later purchase farms of their own on capital they expect to have available. It has been possible to place all such applicants with good farmers here where the necessary experience can be acquired.

Nine of the British boys who came to Canada some years ago have during the year succeeded in securing a grant from the Lawrence Atwell Fund of London, the grant in each case being \$1,000; this with the addition of their savings should enable these youths to become established on the land. Many young men who were formerly juvenile immigrants have applied for replacement or for advice as to the rental or purchase of farms. Each case has been carefully gone into and such advice and encouragement given as the circumstances required. Many visits have been paid to boys in their situations and investigations have been held into complaints.

In addition to the regular departmental work, this unit has continued its efforts in closing up the affairs of the British Immigration and Colonization Association. A number of boys who came out under that Association still apply for directional help or for farm placement. Records of the Association have been carefully kept and audited as required.

The summary of the year's work is as follows:

Number of applications for farm help	207
Number of applicants for farm placement	203
Number of applicants successfully placed	143
Visits, inspections, and investigations.....	118
Number of approvals for Lawrence Atwell Charity Fund.....	9
Total amount of money in B.I.C.A. trust account	\$1,901 14
Accounts closed out during the year	1

Table showing Number of Juvenile Immigrants Who Have Arrived in Canada during the Past 69 Years and the Agencies Through Which this Immigration Was Effected

	Year	Number Who Migrated
Miss Macpherson and Mrs. Birt, London and Liverpool (Canadian Headquarters, Marchmont Home, Belleville).....	1868 to 1926	14,578
Miss Rye and Church of England, Niagara-on-the-Lake and Toronto, Ontario, and Sherbrooke, Quebec.....	1868 to 1932	4,444
Mr. (later) Sir J. T. Middlemore, Fairview, Halifax, Nova Scotia.....	1873 to 1933	5,155
The National Children's Home and Orphanage (formerly Dr. T. Bowman Stephenson), Hamilton, Ont.....	1873 to 1932	3,377
Mrs. Bilbrough-Wallace (Marchmont Home), Belleville, Ont.....	1878 to 1915	5,529
Cardinal Manning (Ottawa and Montreal).....	1880 to 1888	1,403
Dr. Barnardo, Toronto, Ont., and Winnipeg, Man.....	1882 to 1934	27,176
Mr. J. W. C. Fegan, Toronto, Ont.....	1884 to 1933	3,216
Mr. Wm. Quarrier, Brockville, Ont.....	1890 to 1933	4,484
The Catholic Emigration Association and Amalgamated Societies (St. George's Home), Ottawa, Ont.....	1897 to 1933	8,228
The Salvation Army.....	1905 to 1933	4,040
Dr. Cossar, Lower Gagetown, New Brunswick.....	1910 to 1933	1,049
Captain Oliver Hind, The Dakeyne Farm, Falmouth (near Windsor), Nova Scotia.....	1913 to 1931	128
British Immigration and Colonization Association, Montreal, Quebec (now Ottawa, Ont.).....	1923 to 1931	5,358
Church Army, Winnipeg, Manitoba.....	1925 to 1931	929
Church of England Council of Empire Settlement, Edmonton, Alta., Indian Head and North Battleford, Sask.....	1926 to 1932	766
United Church of Canada, Norval, Ontario, and Georgetown, Ontario.....	1928 to 1933	1,284
National Association of Boys' Clubs, Falmouth, N.S.....	1930 to 1934	57
Minor Agencies (including unaccompanied).....	1897 to 1937	6,681
Total.....		97,882

REPORT OF THE COMMISSIONER OF EUROPEAN EMIGRATION FOR CANADA

There has been a notable increase in the number of inquiries, especially on the part of people who have capital, with a view to settlement in the various provinces. Inquirers included those who had substantial capital, professional men, merchants, retired civil servants, farmers, farm workers, skilled and unskilled labourers, and also a considerable number of houseworkers, notwithstanding the fact that there has been a general demand for domestics in the United Kingdom. There have been over 6,000 inquiries in the London office alone.

Another feature of the work is the number of former residents of Canada who have declared their intention to retain Canadian domicile. There has also been an increase in the correspondence from British Consuls in continental countries, regarding persons who have been naturalized in Canada and who have returned, temporarily, to the country of their former citizenship. In many cases the applicant has not reported within the period prescribed by the regulation, but full information is obtained and each case is dealt with on its merits.

Monthly reports are submitted showing the names of prospective migrants who have a minimum capital of over \$500. These reports show that inquirers had an aggregate capital of \$10,760,282.75, as against \$4,827,290.10 for the preceding fiscal year, and an annual income of \$261,648.58. The declared capital actually carried to Canada by migrants from Continental Europe was \$1,835,075. It is known that further capital was transferred after arrival in Canada.

BRITISH ISLES

Of the total number of inquiries, a comparatively small number was from farmers and experienced farm workers. Requests were received covering such questions as means of distribution and certain features of the cost of production, particularly on mixed farming, dairying, fruit and tobacco farming.

There has been a diversion of farm workers to other industries which offer higher wages and this means higher wages for farm workers who remain on the land. The newspapers carry columns of advertisements for boys who have just left school. There is also a demand for secondary school boys in city offices.

A total of 57 children proceeded to the Fairbridge Farm School on Vancouver Island, the first party, 14 boys and 14 girls, sailed on October 9, and the second party, 16 boys and 13 girls, sailed on October 23, 1936.

Most of the women who called at the London office were persons desirous of joining relatives or friends already established in Canada. In some cases it was necessary to investigate the settlement arrangements. Those seeking employment were largely governesses and shop assistants who were advised regarding employment conditions.

The following statement shows British migrants who did not pass medical inspection and who were certified by medical examiners under the following clauses of section 3 of the Immigration Act:

(a) Mental	11
(b) Infectious or contagious disease	5
(c) Physically defective	196
(k) Constitutional psychopathic inferiority	2

In the London office 47,652 letters were received and 36,997 were dispatched during the fiscal year 1936-37, and 2,740 parcels were sent out.

There are district agents in Belfast, Liverpool, and Glasgow. Their work includes granting interviews, answering correspondence, meeting deports, making investigations, and generally attending to correspondence from the London office

and from transportation companies. The main subjects of their correspondence are general inquiries, domicile, settlement arrangements, medical cases, deportations, etc.

The following is a record of the correspondence and interviews in the district offices:

Agency	Letters		Interviews
	Received	Dispatched	
Belfast.....	2,361	2,344	1,406
Liverpool.....	2,602	2,748	3,501
Glasgow.....	3,406	4,001	1,895

A new edition of the Descriptive Atlas was received in June 1936. There has been a good demand for this publication which has been distributed to schools and other educational institutions. The following statement shows the distribution of literature in the British Isles:

—	Atlas	Eastern Canada	Canada West	Totals
London office.....	8,371	3,240	3,364	14,975
Agencies.....	3,865	502	445	4,812
	12,236	3,742	3,809	19,787

There were 109 wall maps distributed by the London office and 70 by the district agents.

Photographs loaned to authors and publishers, to teachers for educational purposes, to lecturers, and others, totalled 503. During the year 412 new photographs were received from Ottawa mainly on alfalfa growing, fruit growing, and harvesting.

Lantern slides with lecture notes were loaned on 433 occasions. The demand this year was greater than last. Nine additional sets were purchased during the latter part of the year and they have been in constant use, largely by schools throughout the country.

A total of 50 persons were returned to Canada, of which the repatriation of seven was charged against the Distressed Canadian Vote. In addition to the above number, 35 received direct assistance. Ten people received assistance through the Paris Legation, three in Naples, and two in Beirut.

CONTINENTAL

The capital transferred to Canada by settlers from Continental Europe was \$1,835,075. Of this amount \$373,028 was carried by agricultural families under the Continental Scheme.

The following is a statement showing the result of civil and medical inspection at continental ports, correspondence, and interviews:

Office	Admissions	Rejections	Appeals			Causes of Rejection											Letters In	Letters Out	Interviews	
			Sustained	Dismissed	Pending	PC 23	PC 185	PC 695	PC 1413	PC 2115	Section 3 s.s.									
											(a)	(b)	(c)	(h)	(j)	(t)				(u)
Antwerp.....	705	145	23	24	.....	16	18	118	.....	.....	.....	2	13	.....	2	21	6,500	7,321	1,432
Paris.....	1,385	142	29	27	1	28	31	83	2	1	1	22	3	1	36	4,669	5,425	4,617
Rotterdam.....	71	16	1	4	.....	2	3	15	.....	.....	.....	.....	1	3	1	.....	.....	.....	128
Hamburg.....	325	31	11	4	1	.....	4	8	.....	.....	.....	1	7	.....	1	12	3,113	5,196	345
Gdynia.....	1,531	139	25	4	2	.....	.....	6	.....	.....	1	2	31	.....	.....	65	.....	2,456	.....
Totals.....	4,017	473	89	63	4	46	56	230	2	1	2	5	74	3	4	4	134	14,282	20,398	6,522

Apart from the admissions and rejections shown on the above schedule, many passengers claiming to have been on temporary visits to Europe appeared before our examining officers for interview as follows:

Antwerp	419
Paris	640
Rotterdam	96
Hamburg	338
Gdynia	143

Hon. T. A. CREER,
Minister of Mines and Resources.

I have the honour to submit a Report of Soldier Settlement activities for the fiscal year ended March 31, 1937.

Included in this Report there are sections relating to the Three Thousand British Family Scheme and the New Brunswick Five Hundred British Family Scheme, also the work done by Soldier Settlement for other Departments of the Dominion Government.

Your obedient servant,

F. C. BLAIR,
Director of Soldier Settlement.

OTTAWA, June 15, 1937.



SOLDIER SETTLEMENT OF CANADA

The main work of the Soldier Settlement department is the administration of a public estate consisting of 20,385 farm properties representing a present net investment in land and chattels of \$50,346,795.55. The department also performs land settlement and investigational services for the Immigration Branch, Department of Mines and Resources, and field services for other departments of Government. Land settlement and investigational activities are conducted as complementary operations to avoid duplication of public services.

Earlier reports have outlined the provisions of the Soldier Settlement Act and amendments and detailed the terms of the British Family Settlement Agreements. This report is a concise presentation of settlement as at March 31, 1937, with certified statements covering loan operations and schedules summarizing settlement activities. Condensed Balance Sheet with supporting financial statements and summaries of settlement operations are found on pages 322 to 333. Explanations of special phases of the department's work are given hereunder.

EXTENT OF SETTLEMENT

Under the Soldier Settlement Act, 24,998 soldier settlers were established on land with loans. At this date there are 10,180 soldier settlers; 5,749 civilian settlers; 1,881 British family settlers; 1,750 farms operated under lease and 825 farms on hand for resale; 3,365 settlers have repaid their loans in full in cash; 1,977 properties have been transferred to municipalities and provinces under section 21 (a) of the Soldier Settlement Act.

Summarized there are 17,810 active settlers with loans; 1,750 properties under lease; 825 farms on hand for resale; a total of 20,385 properties under administration, representing the present net investment of \$50,346,795.55.

POLICY

In the administration of state financed settlement projects, the two principal factors to be considered are the human element and recovery of the public investment. Adverse agricultural conditions, with drought in several sections of Western Canada, have necessitated for several years a policy of reasonable leniency and this has been continued during the year under review.

The department recognizes that foreclosure proceedings on the sole grounds of inability to pay would in many cases mean a mere shifting of the burden of problem cases at a higher cost to Canadian taxpayers.

Settlers who are in a position to pay are expected to do so and to this end district office collection officials and field staff co-operate closely.

In the resale and resettlement of reverted lands, care is taken to select purchasers who have farm experience and sufficient personal assets to give promise of ultimately paying for the properties.

COLLECTIONS

Summarized statements of collections are given on pages 329 and 330. Total collections for the fiscal year including prepayments and leases on account of soldier settlement and British family settlement are \$1,183,934.13. In soldier

settlement during the fiscal year 54·7 per cent of the settlers made payments. The cash payments received exclusive of bonus amounted to \$1,049,960.25 or 30·2 per cent of the instalments due.

Under the Three Thousand British Family Scheme, 52·7 per cent of the settlers made payments. The cash payments received exclusive of bonus amounted to \$128,671.93 or 21·0 per cent of the instalments due.

FINANCIAL

Attention is directed to the condensed Balance Sheet which gives in summarized form the present loan situation. The accompanying schedules detail the major items in the balance sheet.

In connection with the reduction in gross loans from \$158,220,319.85 to \$50,346,795.55 it will be noted that \$57,583,072.46 has been paid into the Treasury; \$42,515,643.37 has been granted to settlers through remedial legislation, of which amount \$32,246,534.50 has been written off settlers' accounts or is in the process of being written off and \$10,269,108.87 granted by way of interest exemption; \$18,228,309.76 has been deducted on account of losses sustained to date in the resale of land and chattels. The amount paid into the Treasury includes repayments by settlers and money received from all other sources, including cash receipts from resale of land and chattels.

INSURANCE

Fire insurance covering buildings and chattels to the amount of \$14,821,-801.00 is held by the department as collateral security for loans. The insurance is placed and the premium paid by settlers, failing which the department places the insurance and pays for it, collecting the premium from the settlers.

REMEDIAL LEGISLATION

A summary of the various remedial measures enacted since the inception of the Soldier Settlement Act is recorded on pages 326 and 327. These concessions have resulted in a financial betterment to settlers in an aggregate amount of \$42,515,643.37.

BONUS LEGISLATION OF 1933 EXTENDED

Section 73 of the Soldier Settlement Act assented to May 23, 1933, provided for a dollar for dollar bonus on payments made in respect of arrears or any instalment due and payable between March 31, 1933, and March 31, 1936, and instalments due one year thereafter, provided payment were made by March 31, 1936. The payment and the bonus combined may not exceed the arrears plus the instalments due. The legislation applies to all settlers indebted in respect of any contract or agreement made prior to January 1, 1933. The bonus legislation applies to soldier settlers, civilian settlers, and settlers under the Three Thousand British Family Scheme.

An important condition of the bonus concession is payment by the settler of insurance premium and taxes levied during the current year. The condition with respect to the payment of taxes is in conformity with the department's policy of co-operation with taxing authorities in encouraging settlers to meet their tax obligations.

Statement on page 327 shows that to March 31, 1937, settlers have earned bonus totalling \$3,857,940.78, of which \$756,133.93 is to be credited to settlers when taxes and insurance have been paid.

The Soldier Settlement Act was amended in 1936 whereby amounts due up to March 31, 1938, are subject to bonus provided payment is made by that date.

TAXES

The municipal tax situation has been one of the more important administrative problems of the department since the inception of soldier settlement.

Prior to 1934 the situation was that soldier settlement lands were Crown lands and as such were not subject to taxation. Over a period of years representations had been made repeatedly by municipal taxing authorities that their inability to levy and collect taxes on soldier settlement lands in accordance with the taxing laws of the various provinces imposed an unfair burden on rural municipalities. In 1934 the Soldier Settlement Act was so amended as to make soldier settlement lands as from the first of January, 1933, subject to the tax sale laws of the various provinces.

The Act further provides that upon a taxing authority taking any proceeding for sale of the farm of a purchaser from the department, the Agreement of Sale covering such land shall be rescinded. However, it is also provided that the settler shall be reinstated in his contract provided he makes payment of the amount necessary to effect redemption. In these cases it is the practice of the department to give the settler every encouragement to redeem his land.

LAND SALES

Forty-five per cent (45%) of the total farms originally acquired for soldier settlement have reverted to the department and this necessarily entails adequate facilities for resale and resettlement of these properties.

The Estates and Securities Branch of the department administers reverted farms and chattel property. In all cases of resale of farms, care is exercised in the selection of the personal risk, the object being to conduct a sale that will result in ownership of the property by the purchaser. Similarly with leases, care is taken to ensure in so far as possible, that farms are leased to reliable tenants, pending resale of the land. The terms of the leases conform to the general practice prevailing in the respective provinces and usually include provisions designed to maintain and improve the security.

THREE THOUSAND BRITISH FAMILY SCHEME

This settlement project, entered into by agreement between the United Kingdom and Dominion Governments in 1924 for the settlement of 3,000 British families on Government-owned farms in Canada has been described in detail in previous reports. The farms used for settlement were, in the main, lands acquired for soldier settlement and the Soldier Settlement Board was charged with the supervision of settlers' operations and collection of moneys due. The agreement provides for the sharing of losses in the same proportion as the gross advances by the United Kingdom and Dominion Governments.

A total of 3,346 families came forward for settlement, of which 183 withdrew from the scheme before receiving advances, and 1,477 withdrew after contracting loans, a total of 1,660 withdrawals. There are now 1,665 British families operating their farms under this scheme. Twenty-one settlers have repaid their loans.

Families settled under this agreement were granted a 30 per cent reduction in their indebtedness in 1933 and the benefits of the dollar for dollar bonus legislation and one year's interest remission.

NEW BRUNSWICK 500 BRITISH FAMILY SCHEME

In 1927 a settlement agreement was entered into by the United Kingdom, Dominion, and New Brunswick Governments for the settlement of 500 families in the Province of New Brunswick over a period of 6 years beginning 1928. Revision of the original agreement to a two-party agreement between the United Kingdom and Dominion Governments was detailed in the 1936 report.

As at March 31, 1937, three hundred and fifty-nine (359) families had come forward for settlement, of which nine withdrew from the scheme before receiving advances and 134 withdrew after contracting loans, a total of 143 withdrawals. There are now 216 families operating their farms under this agreement.

Families settled under this agreement were granted a 30 per cent reduction in their indebtedness and the benefits of the dollar for dollar bonus legislation and one year's interest remission.

FARMERS' CREDITORS ARRANGEMENT ACT, 1934

This Act passed at the 1934 session of Parliament is intended to provide a simple means whereby the debt burdens of the farmer may be adjusted to a level more consistent with the revenue-producing capacity of the farm. The Act makes provision for farmers as debtors and their creditors to get together and arrange mutually satisfactory compromises and settlements. The provisions of this Act are applicable to debtors of the Crown and, therefore, to all classes of settlers under the department.

One thousand two hundred and nine (1,209) settlers have applied under the Act, 807 of these applications involving reduction in debt due the department. In 449 completed cases the compromises have resulted in an aggregate reduction of \$715,718.88, being an average reduction of \$1,594.03 a settler. In each case the settler's farm and chattels are appraised and his financial affairs and record of farming operations carefully reviewed by District Office Committee and Head Office before the case goes forward to the Board of Review for adjudication.

DEPARTMENTAL CO-OPERATION WITH F.C.A. ADMINISTRATION

By arrangement between the Minister of Finance and the Minister in Charge of Soldier Settlement the field staff of the department makes land appraisals and furnishes reports on applicants at the request of the Boards of Review under the Farmers' Creditors Arrangement Act in the respective provinces. The Boards of Review in Alberta, Saskatchewan, Manitoba, and Ontario have made extensive use of the department's field staff for land appraisals. Land appraisals for the fiscal year total 2,860.

FIELD SUPERVISION

The field supervision staff furnishes the personal contact between settlers and the department and is the basis of the general land settlement services rendered other departments of Government.

There are 90 field supervision districts, each with a field supervisor in charge. Each supervisor is responsible on the average for 198 active settlers, 29 farms available for sale or lease, and an aggregate investment of \$559,000 of public funds.

In the matter of inspection and preservation of security, the sale of reverted farms and chattels, and arrangements for satisfactory leasing of farms not disposed of through sale, the duties of a field supervisor are comparable with those of a loan company inspector.

The Soldier Settlement organization has been called upon to perform land settlement and investigational services not only for the Immigration Branch, Department of Mines and Resources, but for other departments of the Dominion Government. The demand for these services has increased in recent years.

On page 332 are summarized the results of these activities.

The services include:

1. *Land Appraisals for Boards of Review under the Farmers' Creditors Arrangement Act.*—A total of 2,860 appraisals were made during the fiscal year.

2. *Land Appraisals, Canadian Farm Loan Board.*—A total of 298 land appraisals were made for the Canadian Farm Loan Board during the fiscal year.

3. *Rural Investigations for War Veterans' Allowance Board.*—The field staff investigate the circumstances of rural applicants for assistance under the War Veterans' Allowance Act; 4,303 investigations were made during the fiscal year.

4. *Investigations for Immigration Branch.*—The field staff investigate settlement conditions in connection with the proposed admission of immigrants to Canada; 1,383 investigations were made during the fiscal year.

5. *Rural Investigations for Department of Pensions and National Health.*—The field staff investigate applications for relief allowances and special pension cases in rural districts; 3,382 investigations were made during the fiscal year.

6. *Relief Land Settlement.*—Clause 7 of the Dominion-Provincial Relief Settlement Agreements provides that the Provincial Advisory Committee shall include a representative of the Dominion Land Settlement Branch. The District Superintendent of Soldier Settlement in each province where the agreements are operative acts in this capacity.

ADMINISTRATION

The general land settlement services described in this report necessarily entail cost to the department of Soldier Settlement. It was determined after careful survey by officers of the various departments concerned that co-operation as indicated rather than appointment of additional staff by the several departments concerned would result in a substantial annual saving to the public treasury.

The administration costs of Soldier Land Settlement and general settlement are shown on page 331.

The Soldier Settlement department (total staff 325) consists of a head office at Ottawa with a director in charge and eight district offices, each with a district superintendent in charge located as follows:

British Columbia—Vancouver.

Alberta—Edmonton and Calgary.

Saskatchewan—Saskatoon.

Manitoba—Winnipeg.

Ontario—Toronto.

Quebec—Sherbrooke.

Maritime Provinces—St. John, N.B.

Condensed Balance Sheet as at March 31, 1937

ASSETS			
<i>Current Loans Including Overdue</i>			
<i>Interest—</i>			
<i>Soldier Settlement—</i>			
	\$	cts.	
Soldier settlers.....	23,415,948	03	
Civilian settlers.....	10,353,606	42	
Indian soldier settlers.....	195,030	59	
	33,964,585	04	
Less deferred bonus.....	992,592	59	
	33,271,992	45	
<i>Three Thousand British Family</i>			
<i>Scheme.....</i>			
	8,105,195	45	
Less deferred bonus.....	61,313	74	
	8,043,881	71	
<i>New Brunswick 500 British Family</i>			
<i>Scheme.....</i>			
	688,783	07	
Less deferred bonus.....	2,227	60	
	686,555	47	
	\$	cts.	
	42,002,429	63	
<i>Security Held for Resale—at Book</i>			
<i>Debt—</i>			
<i>Soldier Settlement—</i>			
	5,266,268	27	
Soldier settlers.....	1,624,948	06	
Civilian settlers.....	1,137,423	78	
British families (Canadian land).....	8,028,640	11	
<i>Three Thousand British Family</i>			
<i>Scheme—</i>			
<i>United Kingdom Government</i>			
<i>loans.....</i>			
	273,711	72	
<i>New Brunswick 500 British Family</i>			
<i>Scheme—</i>			
<i>Canadian Government loans.....</i>			
	27,784	30	
<i>United Kingdom Government</i>	14,229	79	
<i>loans.....</i>	42,014	09	
	8,344,365	92	
Total.....	50,346,795	55	

LIABILITIES			
<i>Gross Advances for Loans—</i>			
	\$	cts.	
Soldier Land Settlement.....	110,700,818	68	
Three Thousand British Family	13,146,467	80	
Scheme.....	982,364	61	
New Brunswick 500 British	124,829,651	09	
Family Scheme.....	33,390,668	76	
Interest charges.....	158,220,319	85	
<i>Deduct—</i>			
<i>Repayments—</i>			
Soldier Land Settlement.....	55,033,643	02	
Three Thousand British Family	2,465,978	24	
Scheme.....	83,451	20	
New Brunswick 500 British	57,583,072	46	
Family Scheme.....	100,637,247	39	
<i>Deduct—</i>			
<i>Legislative Reductions—</i>			
Soldier Land Settlement.....	37,981,748	90	
Three Thousand British Family	4,178,196	19	
Scheme.....	355,698	28	
New Brunswick 500 British	42,515,643	37	
Family Scheme.....			
<i>Less—</i>			
Interest Exemption Act, 1922....	10,269,108	87	
Farmers' Creditors Arrangement			
Act—completed cases (amounts			
transferred to previous settlers			
or not yet written off settlers'			
accounts)—			
Soldier Land Settlement.....	181,134	74	
Three Thousand British Family	3,257	68	
Scheme.....	10,453,501	29	
	32,062,142	08	
	68,575,105	31	
<i>Deduct Losses on Security already</i>			
<i>Sold—</i>			
Soldier Land Settlement.....	17,238,431	19	
Three Thousand British Family	896,147	18	
Scheme.....	93,731	39	
New Brunswick 500 British	18,228,309	76	
Family Scheme.....	50,346,795	55	

Number of Settlers as at March 31, 1937

District	CURRENT LOANS					SECURITY ON HAND			Total
	Soldier Land Settlement			British Family Settlement	Total	Soldier Land Settlement	British Family Settlement	Total	
	Soldier	Civilian	Total						
Vancouver.....	1,382	930	2,312	123	2,435	170	27	197	2,632
Edmonton.....	1,784	1,067	2,851	342	3,193	341	62	403	3,596
Calgary.....	1,398	496	1,894	281	2,175	263	27	290	2,465
Saskatoon.....	2,086	1,349	4,335	408	4,743	775	123	898	5,641
Winnipeg.....	898	940	1,838	180	2,018	563	60	623	2,641
Toronto.....	815	416	1,231	125	1,356	69	13	82	1,438
Sherbrooke.....	120	191	311	28	339	7	1	8	347
St. John.....	573	360	933	394	1,327	38	36	74	1,401
Indian soldier settlers.....	224		224		224				224
Total.....	10,180	5,749	15,929	1,881	17,810	2,226	349	2,575	20,385

Financial Statement as at March 31, 1937

District	Active Loans				Security on Hand (Book Debt)		Total	
	Number	Total Active Loans	Deferred Bonus	Net Active Loans	Number	Amount	Number	Amount
		\$ cts.	\$ cts.	\$ cts.		\$ cts.		\$ cts.
Vancouver.....	2,435	5,242,512 12	189,881 44	5,052,630 68	197	649,333 59	2,632	5,701,964 27
Edmonton.....	3,193	7,660,907 69	191,424 77	7,469,482 92	403	1,169,754 79	3,596	8,639,237 71
Calgary.....	2,175	6,735,844 01	71,825 37	6,664,018 64	290	924,983 13	2,465	7,589,001 77
Saskatoon.....	4,743	12,458,886 05	148,642 77	12,310,243 28	898	3,163,773 05	5,641	15,474,016 33
Winnipeg.....	2,018	4,671,948 45	59,588 70	4,612,359 75	623	2,042,676 43	2,641	6,655,036 18
Toronto.....	1,356	2,675,288 81	53,544 70	2,621,744 11	82	216,196 42	1,438	2,837,940 53
Sherbrooke.....	339	625,517 67	9,720 83	615,796 84	8	26,144 03	347	641,940 87
St. John.....	1,327	2,492,628 17	31,505 35	2,461,122 82	74	151,504 48	1,401	2,612,627 30
Indian soldier settlement.....	224	195,030 59	.....	195,030 59	.....	.....	224	195,030 59
Total.....	17,810	42,758,563 56	756,133 93	42,002,429 63	2,575	8,344,365 92	20,385	50,346,795 55

Gross Loans as at March 31, 1937

Soldier Land Settlement—

Land purchase	\$ 60,589,628 00
Removal of encumbrances	2,716,474 89
Permanent improvements	11,650,755 24
Stock and equipment	29,098,608 16
Special advances	9,869,798 31
Replacements	3,769,853 71
Refunds of settlers' equity	294,358 96
Credit due to resales	584,537 29
Replacement credits	65,290 33
Indian soldier settlers	431,614 79

\$119,070,919 68

Interest charges	29,265,969 60
------------------------	---------------

\$148,336,889 28

Deduct lands transferred to British Family Scheme	8,370,101 00
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\$139,966,788 28

Three Thousand British Family Scheme—

Canadian Government land	\$ 9,284,672 36
United Kingdom Government land	113,495 39
United Kingdom Government stock and equipment	3,267,055 71
Assisted passage loans	165,498 75
Replacements	315,745 59

Interest charges—

Canadian	2,911,676 62
United Kingdom	933,936 72

16,992,081 14

New Brunswick 500 British Family Scheme—

New Brunswick Government loans	\$ 521,156 55
Canadian Government special advances	5,693 79
United Kingdom Government loans	441,390 29
Assisted passage loans	4,748 64
Replacements	9,375 34
Interest charges	279,085 82

1,261,450 43

Total gross loans \$158,220,319 85

*Summary—**Gross Advances for Loans—*

Soldier land settlement	\$110,700,818 68
Three Thousand British Family Scheme.....	13,146,467 80
New Brunswick 500 British Family Scheme.....	982,364 61

\$124,829,651 09

Interest Charges—

Soldier land settlement	\$ 29,265,969 60
Three Thousand British Family Scheme.....	3,845,613 34
New Brunswick 500 British Family Scheme.....	279,085 82

33,390,668 76

\$158,220,319 85

Repayments as at March 31, 1937

	Interest		Principal		Total	
	\$	cts.	\$	cts.	\$	cts.
<i>Soldier Settlement—</i>						
Initial payments.....			6,250,015	17	6,250,015	17
Repayments.....	18,475,888	66	28,373,556	93	46,849,445	59
Replacements.....			1,934,182	26	1,934,182	26
Total soldier settlement.....	18,475,888	66	36,557,754	36	55,033,643	02
<i>British Family Settlement—</i>						
Canadian Government land.....	624,488	14	612,248	44	1,236,736	58
<i>Total received by—</i>						
Canadian Government.....	19,100,376	80	37,170,002	80	56,270,379	60
United Kingdom Government loans.....	155,858	14	612,479	80	768,337	94
United Kingdom, New Brunswick Scheme.....	6,022	01	51,948	53	57,970	54
Assisted passage.....			161,263	45	161,263	45
Replacements.....			325,120	93	325,120	93
Total repayments.....	19,262,256	95	38,320,815	51	57,583,072	46

Loan Repayments

Fiscal Year	Interest		Principal		Total	
	\$	cts.	\$	cts.	\$	cts.
From inception to March 31, 1934.....	16,985,939	52	35,719,241	46	52,705,180	98
1934-35.....	849,665	62	875,126	53	1,724,792	15
1935-36.....	736,951	02	883,303	47	1,620,254	49
1936-37.....	689,700	79	843,144	05	1,532,844	84
	19,262,256	95	38,320,815	51	57,583,072	46

Legislative Reductions as at March 31, 1937

<i>Soldier Settlement—</i>			
Live stock reduction, June 27, 1925.....		\$2,927,809	99
Land revaluation, April 14, 1927.....		7,479,343	75
30 per cent reduction, May 30, 1930—			
Principal.....	\$8,654,012	04	
Interest.....	2,656,951	24	
		11,310,963	28
1932 interest remission, May 23, 1933.....		1,894,160	09
Dollar for dollar bonus, May 23, 1933—			
Principal.....	1,680,018	35	
Interest.....	1,181,914	03	
Deferred.....	692,592	59	
		3,554,524	97
Farmers' Creditors Arrangement Act, July 3, 1934—			
Amounts written off settlers' accounts.....	364,703	21	
Additional completed cases (amounts transferred to previous settlers or not yet written off settlers' accounts).....	181,134	74	
		545,837	95
Interest Exemption Act, June 28, 1922 (estimated).....		10,269,108	87
Total soldier settlement.....		\$37,981,748	90
<i>Three Thousand British Family Scheme—</i>			
30 per cent reduction, May 23, 1933—			
Principal.....	1,871,176	89	
Interest.....	1,439,688	34	
		3,310,865	23
1932 interest remission, May 23, 1933.....		400,471	59

Legislative Reductions as at March 31, 1937—Concluded

Three Thousand British Family Scheme—Concluded

Dollar for dollar bonus, May 23, 1933—			
Principal	97,575	09	
Interest	138,089	61	
Deferred	61,313	74	296,978 44
Farmers' Creditors Arrangement Act, July 3, 1934—			
Amounts written off settlers' accounts	96,118	51	
Amounts transferred back to Soldier Settlement	70,504	74	
Additional completed cases (amounts transferred to previous settlers or not yet written off settlers' accounts)	3,257	68	169,880 93
Total 3,000 British Family Scheme			\$ 4,178,196 19

New Brunswick 500 British Family Scheme—

30 per cent reduction, April 18, 1935—			
Principal	\$ 137,862	64	
Interest	161,592	96	299,455 60
1934 interest remission, April 18, 1935			49,805 31
Dollar for dollar bonus, April 18, 1935—			
Principal	2,426	29	
Interest	1,783	48	
Deferred	2,227	60	6,437 37
Total New Brunswick 500 British Family Scheme			\$ 355,698 28

Total British Family Scheme	\$ 4,533,894 47
Total Legislative reductions	\$42,515,643 37

Bonus of Dollar for Dollar as at March 31, 1937

	Soldier Settlement	British Family Settlement	Total
	\$ cts.	\$ cts.	\$ cts.
Payments received subject to bonus	3,554,524 97	303,415 81	3,857,940 78
Bonus credited to date	2,861,932 38	239,874 47	3,101,806 85
Bonus still to be credited	692,592 59	63,541 34	756,133 93
Total	3,554,524 97	303,415 81	3,857,940 78

Soldier Settlement of Canada—Statement Re 1933 Legislation as at March 31, 1937

District	Number of Settlers Who Have Taken Advantage of Bonus								Amount of Bonus	Interest Remission
	Soldier Settlers		Civilians		British Families		Total			
	Number	Per cent	Number	Per cent	Number	Per cent	Number	Per cent		
Vancouver	1,135	83	729	78	95	77	1,959	81	584,262 04	304,774 27
Edmonton	1,640	95	832	78	271	79	2,743	87	743,696 85	422,779 81
Calgary	1,134	82	362	73	204	71	1,700	79	544,442 09	359,570 61
Saskatoon	2,175	75	873	65	241	58	3,289	70	977,374 85	647,439 68
Winnipeg	820	92	693	74	130	70	1,643	82	355,607 46	251,816 93
Toronto	732	94	304	73	98	76	1,134	86	366,773 44	162,656 53
Sherbrooke	107	90	141	74	23	79	271	80	76,242 84	35,979 00
St. John	540	94	276	77	150	34	966	73	192,990 15	152,095 84
Indian soldier settlement	8,283	85	4,210	73	1,212	64	13,705	79	3,841,389 72	2,337,112 67
									16,551 06	7,324 32
	8,283	85	4,210	73	1,212	64	13,705	79	3,857,940 78	2,344,436 99

Average bonus per settler (not including Indian soldier settlement)—\$280.29.

Farmers' Creditors Arrangement Act as at March 31, 1937—Soldier Settlers

District	Total Number Applications	Number Completed Cases	Number with Reductions	Total Reductions	Average Reduction per Settler	Percentage Reduction to Debt
				\$ cts.	\$ cts.	
Vancouver.....	73	58	41	59,455 55	1,450 14	38.1
Edmonton.....	30	12	1	1,391 27	1,391 27	25.8
Calgary.....	137	45	28	36,228 00	1,293 86	30.5
Saskatoon.....	114	73	28	38,546 66	1,376 67	34.2
Winnipeg.....	117	80	58	97,488 86	1,680 84	45.4
Toronto.....	88	56	29	35,029 72	1,207 92	34.6
Sherbrooke.....	2					
St. John.....	23	10	2	2,994 70	1,497 35	52.4
Totals.....	584	334	187	271,134 76	1,449 92	37.9

Farmers' Creditors Arrangement Act as at March 31, 1937—Civilian Settlers

District	Total Number Applications	Number Completed Cases	Number with Reductions	Total Reductions	Average Reduction per Settler	Percentage Reduction to Debt
				\$ cts.	\$ cts.	
Vancouver.....	45	38	35	68,544 83	1,958 42	42.4
Edmonton.....	52	30	14	26,576 02	1,898 29	35.4
Calgary.....	61	27	18	34,773 62	1,931 87	40.8
Saskatoon.....	66	45	19	40,940 31	2,154 75	38.2
Winnipeg.....	107	78	53	63,637 11	1,200 70	47.2
Toronto.....	56	34	25	32,972 40	1,318 90	38.0
Sherbrooke.....	11	6	2	4,698 32	2,349 16	56.6
St. John.....	7	5	2	2,560 58	1,280 29	55.0
Totals.....	405	263	168	274,703 19	1,635 14	41.4

Farmers' Creditors Arrangement Act as at March 31, 1937—British Family Settlers

District	Total Number Applications	Number Completed Cases	Number with Reductions	Total Reductions	Average Reduction per Settler	Percentage Reduction to Debt
				\$ cts.	\$ cts.	
Vancouver.....	17	15	14	19,465 04	1,390 36	35.9
Edmonton.....	1	1				
Calgary.....	40	16	16	35,306 71	2,206 67	45.3
Saskatoon.....	33	18	14	30,279 71	2,162 84	44.3
Winnipeg.....	42	21	20	45,207 52	2,260 38	47.9
Toronto.....	67	34	29	37,036 20	1,277 11	31.1
Sherbrooke.....	1					
St. John.....	15	3	1	2,585 75	2,585 75	68.3
New Brunswick 500 British Family Scheme.....	4	2				
Totals.....	220	110	94	169,880 93	1,807 24	40.7

Collections—Soldier Settlement—1936-37

District	AMOUNT DUE			TOTAL CASH RECEIVED					Bonus	Total
	Instalment Due in 1936	Total Due Including Arrears	Due Payments	Per cent of Current Instalment	Per cent of Total Due	Prepayments	Leases	Total Cash		
	\$ cts.	\$ cts.	\$ cts.			\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Vancouver.....	273,364 96	939,221 84	66,871 35	24.5	7.1	56,372 59	5,523 50	128,767 44	73,425 01	202,192 45
Edmonton.....	427,256 66	2,080,330 16	186,894 01	43.7	9.0	41,143 86	16,713 05	244,750 92	182,147 03	426,897 95
Calgary.....	385,242 00	2,079,146 67	76,103 07	19.8	3.7	16,479 09	5,742 59	98,324 75	77,232 31	175,557 06
Saskatoon.....	754,254 40	4,037,260 87	226,943 08	30.1	5.6	57,286 64	38,542 75	322,772 47	205,430 10	528,202 57
Winnipeg.....	273,866 80	1,186,923 85	84,221 64	30.8	7.1	24,430 36	17,555 82	126,207 82	68,339 56	194,547 38
Toronto.....	135,460 90	407,255 62	38,395 56	25.0	9.4	33,192 06	2,012 73	73,600 35	40,593 01	114,193 36
Sherbrooke.....	36,771 84	138,861 03	11,616 37	31.6	8.4	3,140 25	.....	14,756 62	10,307 37	25,063 99
St. John.....	67,515 08	300,954 66	24,841 73	36.8	8.3	15,441 65	496 50	40,779 88	22,383 23	63,163 11
Total.....	2,353,732 64	11,169,954 70	715,886 81	30.2	6.4	247,486 50	86,586 94	1,049,960 25	679,857 62	1,729,817 87

Collections—British Family Settlement—1936-37

District	AMOUNT DUE			TOTAL CASH RECEIVED					Bonus	Total
	Instalment Due in 1936	Total Due Including Arrears	Due Payments	Per cent of Current Instalment	Per cent of Total Due	Prepayments	Leases	Total Cash		
	\$ cts.	\$ cts.	\$ cts.			\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Vancouver.....	39,748 06	149,513 91	7,041 01	17.7	4.7	4,958 29	1,177 04	13,176 94	5,625 79	18,802 73
Edmonton.....	89,702 80	691,926 51	24,947 22	27.8	3.6	3,963 85	4,540 63	33,451 70	21,854 76	55,306 46
Calgary.....	77,810 04	559,293 53	16,058 60	20.6	2.9	5,925 23	793 08	22,776 91	14,962 81	37,739 72
Saskatoon.....	112,334 70	844,406 32	18,591 94	16.6	2.2	965 09	5,090 81	24,647 84	14,558 21	39,206 05
Winnipeg.....	49,674 24	321,675 60	9,818 75	19.8	3.1	685 38	2,659 92	13,164 05	8,123 75	21,287 80
Toronto.....	31,771 53	155,285 47	6,044 94	19.0	3.9	1,032 21	562 90	7,640 05	5,157 99	12,798 04
Sherbrooke.....	7,305 32	38,625 44	2,522 54	34.5	6.5	811 47	24 28	3,358 29	1,376 32	4,734 61
St. John.....	32,995 14	227,655 36	7,597 67	23.0	3.3	2,654 48	204 00	10,456 15	5,197 44	15,653 59
Sub-total.....	441,341 83	2,988,382 14	92,622 67	21.0	.....	20,996 00	15,053 26	128,671 93	76,857 07	205,529 00
New Brunswick.....	33,515 76	250,182 33	4,706 78	14.0	1.9	490 17	105 00	5,301 95	2,940 60	8,242 55
Total.....	474,857 59	3,238,564 47	97,329 45	20.5	3.0	21,486 17	15,158 26	133,973 88	79,797 67	213,771 55

Loans Repaid in Full as at March 31, 1937

District	Repaid in Cash	Repaid by Time Sale	Total
Vancouver.....	603	546	1,149
Edmonton.....	578	667	1,245
Calgary.....	255	260	515
Saskatoon.....	726	875	1,601
Winnipeg.....	290	156	446
Toronto.....	452	281	733
Sherbrooke.....	97	63	160
St. John.....	364	119	483
Total.....	3,365	2,967	6,332

Cost of Administration

(By Activities)

Nature of Activity	1935-36	1936-37
	\$ cts.	\$ cts.
<i>Soldier Land Settlement—</i>		
Loan administration cost.....	552,307 39	550,819 14
Loan administration cost (Indian Affairs).....	5,946 56	5,954 30
	558,253 95	556,773 44
<i>General Land Settlement—</i>		
Investigations, Immigration Branch, Mines and Resources.....	11,384 00	11,064 00
Placement farm workers.....	5,520 00	7,641 00
Appraisals for prospective settlers.....	3,640 00	5,560 00
Relief Land Settlement (Special Investigations and Advisory Com- mittee).....	10,000 00	2,700 00
Advisory services and miscellaneous.....	20,156 00	4,000 00
Colonization cost, British Family Settlement.....	56,300 00	53,000 00
	107,000 00	83,965 00
<i>Investigations for Other Departments—</i>		
War Veterans Allowance Board.....	28,792 00	34,424 00
Farmers' Creditors Arrangement Act.....	28,356 00	34,320 00
Pensions and National Health.....	14,280 00	15,260 00
Canadian Pension Commission.....	1,430 00	1,650 00
Farm Loan Board.....	18,896 00	3,576 00
Mines and Resources—Lands, Parks, and Forests Branch.....	500 00	330 00
	92,254 00	89,560 00
Total.....	757,507 95	730,298 44

Field Investigations for Other Departments—Fiscal Year 1936-37

Department	Vancouver	Edmonton	Calgary	Saskatoon	Winnipeg	Toronto	Sherbrooke	St. John	Total
<i>Department of Pensions and National Health—</i>									
Relief.....	365	130	101	203	276	1,427	154	396	3,052
War Veterans' Allowance Board.....	744	356	211	437	368	1,294	248	645	4,303
Canadian Pension Commission.....	16	33	10	103	4		161	3	330
<i>Department of Mines and Resources—</i>									
Immigration Branch.....	45	214	62	844	58	141	12	7	1,383
Lands, Parks, and Forests Branch.....		18		12				3	33
Totals.....	1,170	751	384	1,599	706	2,862	575	1,054	9,101

Land Appraisals for Other Departments—Fiscal Year 1936-37

<i>Department of Finance—</i>									
Farmers' Creditors Arrangement Act.....	16	381	294	393	534	1,217		25	2,860
Canadian Farm Loan Board.....	16	39	48	68	6	53		68	298
Totals.....	32	420	342	461	540	1,270		93	3,158

*Relief Land Settlement—Families Settled on Farms (with Financial Assistance)
—(Agreement—Dominion and Provinces)—From Inception to
March 31, 1937*

Province	Approvals		Abandonments and Cancellations		On the Land	
	Families	Individuals	Families	Individuals	Families	Individuals
British Columbia.....	52	285	11	61	41	224
Alberta.....	685	3,212	253	1,134	432	2,078
Saskatchewan.....	939	4,604	178	869	761	3,735
Manitoba.....	969	4,681	227	1,024	742	3,657
Ontario.....	606	2,990	175	842	431	2,143
Quebec.....	976	6,005	187	1,095	789	4,910
Nova Scotia.....	343	2,154	119	743	224	1,411
Totals.....	4,570	23,931	1,150	5,768	3,420	18,163

Farm Labour Placements—Fiscal Year 1936-37

Province	Provincial Totals
British Columbia.....	72
Alberta.....	652
Saskatchewan.....	154
Manitoba.....	170
Ontario.....	1,371
Quebec.....	10
Maritime Provinces.....	118
Dominion total.....	2,547

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1936-1937

AUDITOR GENERAL'S REPORT

PART "L"

MINES AND RESOURCES
DEPARTMENT

DETAILS OF REVENUE AND EXPENDITURE

RAPPORT DE L'AUDITEUR GÉNÉRAL

PARTIE "L"

MINISTÈRE DES MINES ET DES
RESSOURCES

DÉTAIL DES REVENUS ET DES DÉPENSES

MINES AND RESOURCES DEPARTMENT

DETAILS OF REVENUE AND EXPENDITURE

(Statements of Revenue and Expenditure detailed herein are given in Volume I)

MINISTÈRE DES MINES ET DES RESSOURCES

DÉTAIL DES REVENUS ET DES DÉPENSES

(Des états de ces revenus et de ces dépenses paraissent au Volume I)

DETAILS OF REVENUE — DÉTAIL DES REVENUS

Chinese Immigration Revenue — Revenus de l'immigration chinoise

Registration of leave certificates at \$2.....	4,118 00
Substitutional certificates at \$25.....	775 00
Head Tax	2,000 00
Fines under the Chinese Immigration Act.....	3,000 00
	9,893 00
<i>Less</i> —Refunds of amounts paid for substitutional certificate, administrative fine, registration certificates and head tax, under authority of Governor-in-Council	2,449 00
	\$ 7,444 00

Dominion Lands — Domaine de l'État

SUMMARY — SOMMAIRE

Miscellaneous Revenue.....	(Page L— 3) 34,962 05
Canadian National Parks.....	(Page L— 3) 271,253 08
Northwest Territories.....	(Page L— 4) 102,401 95
Yukon Territory.....	(Page L— 4) 74,443 23
	483,060 31
<i>Less</i> —Refunds.....	(Page L— 5) 4,927 88
	\$ 478,132 43

DETAILS OF REVENUE—Con.—DÉTAIL DES REVENUS—Suite

Dominion Lands—Con.—Domaine de l'État—Suite

DETAILS — DÉTAIL

MISCELLANEOUS REVENUE — REVENUS DIVERS

Accounts Division:—	
D. L. S. examination fees, \$102; office fees, \$699; proceeds from sales of maps and plans, \$7,711.02; miscellaneous, \$1,173.46.....	9,685 48
Forest Service:—	
Pulp and paper tests, \$810; sale of wood samples, \$6.27; tension tests, \$378.23; timber dues, \$1,774.83; timber sales: deposits, \$2,750, dues, \$8,006.82; tree seed, \$131.10.....	13,857 25
Lands Division:—	
Building rentals, \$42; general sales: principal, \$445, interest, \$697.30; land rentals, \$2,309.83; miscellaneous, \$58.....	3,552 13
Mining Lands:—	
Coal rental and royalties, \$204.09; quarrying rentals, \$48.20; miners' licences, \$4,374.15.....	4,626 44
Timber and Grazing Division:—	
Vancouver: licences, \$12; rent of timber berths, \$268.90; timber permits, \$83; fireguarding, \$105.46; Head Office: licences, \$14; rent of timber berths, \$489.40; timber dues, \$251.13; fireguarding, \$124.57; grazing rentals, \$921.12.....	2,269 58
Water Power and Hydrometric Bureau:—	
Rentals of power sites, \$201; royalty on sale of Stuart electrolytic cells, \$770.17 (transferred to Patent Office for distribution).....	971 17
(Page L—2) \$	<u>34,962 05</u>

CANADIAN NATIONAL PARKS — PARCS NATIONAUX DU CANADA

Banff Park:—	
Licences: agents, \$90; auto, \$36,555.63; billiard, \$200; boat, \$97; business, \$200; chauffeurs', \$564; dog, \$303; garage, \$212; hotel and rooming house, \$115; laundry, \$60; livery, \$1,025; restaurant, \$280; slot machine, \$40; sundry, \$316.....	40,057 63
Miscellaneous:—Bath tickets: cave and basin, \$8,611.80; hot springs, \$13,691.20; safety envelopes, \$174.95. Permits: grazing, \$274; timber, \$247.74; sundry, \$219.50. Rentals: Canmore light system, \$480; house, \$762.26; land, \$9,561.23; telephone, \$9,287.11. Tax rates: cemetery, \$22; cold water, \$12,112.90; electric light, \$29,149.40; sewer, \$3,504.46; sulphur water, \$255.21. Sundry revenue, \$468.55.....	88,822 31 128,879 94
Buffalo Park:—Grazing rentals, \$132.20; sales of buffalo hides, meat and robes, \$24,821.95; sale of buffaloes, \$1,498.12; sundry, \$78.25.....	26,530 52
Elk Island Park:—Camping permits, \$111; golf fees, \$717.50; house and lot rentals, \$230; refreshment booth concessions, \$325; sales of buffalo meat and skins, \$1,552.38; sundry, \$127.50.....	3,063 38 81 00
Georgian Bay Islands Park, sundry revenue.....	124 19
Glacier Park, sundry revenue.....	5 15
Historic Sites and Parks:—Nominal rentals: Fort Anne; Fort Chambly; Fort Edward; Fort Langley; MacDonald.....	
Jasper Park:—	
Licences: agents, \$76; auto, \$3,231.16; billiard, \$20; business, \$165; chauffeurs' \$304; dog, \$156; livery, \$374; restaurant, \$110; sundry, \$258.....	4,694 16
Miscellaneous: electric light, \$20,622.29; grazing permits, \$242; land rentals, \$4,931.16; sale of furs, \$195.75; sewer rates, \$2,708.92; timber dues, \$137; water rates, \$7,205.51; sundry, \$330.75.....	36,373 38 41,067 54
Kootenay Park:—Auto licences, \$8,960; electric light, \$242.62; land rentals, \$258.33; radium bath tickets, \$5,591.25; water rates, \$175.39; sundry, \$223.14.....	15,450 73
Point Pelee Park:—Camping permits, \$1,335; refreshment booth concessions, \$120; sale of building, \$110; sundry, \$12.....	1,577 00
Prince Albert Park:—	
Licences: boat, \$251.50; business, \$54; restaurant, \$50; sundry, \$136.25.....	491 75
Miscellaneous: camping permits, \$1,666; electric light, \$1,155.80; golf fees, \$2,425.75; grazing permits, \$131.50; hay permits, \$96.85; house rentals, \$153.87; land rentals, \$498.31; netting whitefish concessions, \$175; sales of skins, \$74; water, \$367.81; wood permits, \$95.48; sundry, \$87.69.....	6,928 06 7,419 81

MINES AND RESOURCES—MINES ET RESSOURCES

Dominion Lands—Con.—Domaine de l'État—Suite

CANADIAN NATIONAL PARKS—*Conc.*—PARCS NATIONAUX DU CANADA—*Fin*

Riding Mountain Park:—Cabin rentals, \$450; camping permits, \$1,507; electric lights, \$2,296.36; golf fees, \$4,814; grazing permits, \$513.70; hay permits and dues, \$633.55; land rentals, \$2,074.92; timber dues, \$20,854.72; various licences, \$532; sundry revenue, \$214.56.....	33,890 81
Waterton Lakes Park:—Auto licences, \$445.17; camping permits, \$431; electric lights, \$715.40; golf fees, \$1,101; grazing permits, \$1,658.25; land rentals, \$2,628.76; timber dues, \$379.14; various licences, \$625.25; water rates, \$764.98; sundry revenue, \$148.....	8,896 95
Wawaskey Park, grazing fees.....	216 00
Yoho Park:—Licences: auto, \$1,494.88; dog, \$117; livery, \$493; various, \$314. Miscellaneous: land rentals, \$1,145.96; timber dues, \$232.87; sundry revenue, \$194.35.....	3,992 06
Head Office, sundry revenue.....	58 00

(Page L—2) \$ 271,253 08

Collections at Parks.....	253,483 09
Collections at Head Office.....	17,769 99
	<u>\$ 271,253 08</u>

NORTHWEST TERRITORIES — TERRITOIRES DU NORD-OUEST

Source of Revenue — Sources des revenus	Cameron Bay	Fort Smith	Ottawa	Total
Billiard and pool room licenses.....			\$ 50 00	\$ 50 00
Bird licences.....			5 00	5 00
Coal rentals and royalties.....		\$ 103 59	312 00	415 59
Dredging leases.....			260 00	260 00
Fur export tax.....		64 70	69,745 32	69,810 02
Fur farm licences.....		5 00	11 00	16 00
Fur sales.....			228 17	228 17
House rental.....			240 00	240 00
Hunting and trapping licences.....		156 00	1,885 77	2,041 77
Land rentals and fees.....	\$ 144 00	143 12	286 01	573 13
Land sales.....		64 50	20 00	84 50
Liquor permits.....		851 00	382 97	1,233 97
Maps.....	9 25	91 40		100 65
Miners' licences.....	607 00	2,162 00	27 30	2,796 30
Mining fees.....	554 00	12,634 50	1,149 00	14,337 50
Petroleum rental and royalty.....			3,076 33	3,076 33
Registration and office fees.....	11 00	40 70	9 50	61 20
Sale of buffalo hides.....		290 00		290 00
Sale of reindeer meat.....			611 55	611 55
Timber dues and seizures.....	920 73	3,094 43		4,015 16
Trading and trafficking licences.....		45 00	1,995 00	2,040 00
Trading post permits.....		16 00	32 00	48 00
Miscellaneous.....		54 11	13 00	67 11
(Page L— 2)	2,245 98	19,816 05	80,339 92	102,401 95

YUKON TERRITORY — TERRITOIRE DU YUKON

Source of Revenue — Sources des revenus	Dawson	Mayo	Whitehorse	Ottawa	Total
Certificates of partnership.....	\$ 25 00	\$ 30 00	\$ 25 00		\$ 80 00
Certificates of work.....	2,036 25	2,658 37	231 25		4,925 87
Coal rental.....	40 00				40 00
Dredging leases.....	305 61				305 61
Hydraulic leases.....	2,765 00				2,765 00
Land rentals and fees.....	1,756 57	1,521 50	2,632 00	\$ 1 00	5,911 07
Land sales and fees.....		30 00			30 00

DETAILS OF REVENUE—*Con.*—DÉTAIL DES REVENUS—*Suite*

Dominion Lands—*Conc.*—Domaine de l'État—*Fin*

YUKON TERRITORY—*Conc.*—TERRITOIRE DU YUKON—*Fin*

Source of Revenue—Sources des revenus	Dawson	Mayo	Whitehorse	Ottawa	Total
Placer grants.....	\$ 390 00	\$ 30 00	\$ 410 00		\$ 830 00
Placer prospecting grants.....	1,725 00				1,725 00
Placer relocations.....	500 00	10 00	100 00		610 00
Placer renewals.....	22,246 67	720 00	400 00		23,366 67
Quartz grants.....	640 00	420 00	330 00		1,390 00
Registered documents.....	1,193 50	163 50	164 00		1,521 00
Registration and office fees.....	30 75	4 00		\$ 3 00	37 75
Royalty tax on gold.....	23,029 41	299 77	185 85		23,515 03
Timber dues and seizures.....	5,330 34	721 64	1,136 25	16 00	7,204 23
Water rights.....	170 00	10 00			180 00
Miscellaneous.....		6 00			6 00
(Page L—2)	62,184 10	6,624 78	5,614 35	20 00	74,443 23

REFUNDS OF REVENUE—REMBOURSEMENTS SUR LES REVENUS

Business licences.....	29 00
Electric light deposits.....	104 80
Fur export tax.....	406 55
Hunting and trapping licences.....	150 00
Land rentals.....	35 00
Land sales and fees.....	75 00
Liquor permits.....	8 00
Maps, plans, publications, etc.....	136 22
Miners' licences and fees.....	278 15
Miscellaneous revenue deposited in error.....	1,676 89
Office fees.....	99 00
Overpayment on sale of buffalo meat.....	1,000 00
Timber dues.....	721 40
Miscellaneous.....	209 87
(Page L—2)	\$ 4,927 88

Ordinance Lands—Terrains militaires

Proceeds from:—	
Gravel royalty.....	1,500 00
Land rentals.....	10,904 21
Land sales, principal, \$969.83; interest, \$1,854.83.....	2,824 66
Lease and registration fees.....	280 00
Miscellaneous.....	66 05
	15,574 92
Less—Refunds.....	123 65
	\$ 15,451 27

Casual Revenue—Revenu casuel

IMMIGRATION BRANCH—IMMIGRATION

Miscellaneous Revenue— <i>Revenus divers</i> :—Letters of identification fees, \$455; permit fees, \$50.....	505 00
Proceeds from Sales— <i>Produits de ventes</i> :—Office furniture and equipment, \$543.47; publications, \$1,446.57.....	1,990 04
Sundry Receipts— <i>Recettes diverses</i> :—Sundries.....	34 41

MINES AND RESOURCES—MINES ET RESSOURCES

Casual Revenue—Con. — Revenu casuel—Suite

IMMIGRATION BRANCH—Conc. — IMMIGRATION—Fin

<i>Refunds of Expenditure — Recouvrements sur dépenses:</i> —Deportation expenses, \$283.41, less previous year's revenue, returned to Suspense Account under authority of Governor in Council, \$200; detention expenses, \$455.38; repatriation expenses, \$112.03; Canadian Government's share of refunds of Empire Settlement difference in fares and passage grants, 1935-36, \$51.04; salary and superannuation fund overpayments, \$13.61; installation and rental of telephones, etc., \$15.03; sundries, \$335.04.....	1,065 54 3,594 99
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INDIAN AFFAIRS BRANCH—AFFAIRES INDIENNES

<i>Miscellaneous Revenue — Revenus divers:</i> —Rent of houses, W. M. Graham, 11 m. to Mar. 31, \$275; Sarcee Agency, \$40; fees of white children attending Indian day schools, \$399.65; fees of white patients in Indian hospitals, \$78; unclaimed balances, Lytton Agency, \$118.22.....	910 87
<i>Proceeds from Sales — Produits de ventes:</i> —Blackfoot, buffalo hides, \$75; Carlton, Ford truck, \$30, furnace, \$10, typewriter, \$10; Clandeboye, canoe, \$10; Claresholm Farm, cattle, \$74.10; Fort Good Hope, lumber, coal oil, etc., \$151.40; Lytton, car, \$200, stump puller, \$10; buffalo hides, Peigan, \$55, Saddle Lake, \$27.50; Sault Ste. Marie, car, \$126; Six Nations, typewriter, \$10; Head Office, maps, etc., \$104.10.....	893 10
<i>Refunds of Expenditure — Recouvrements sur dépenses:</i> —Collections from Indians for relief, etc.: Battleford, \$110.50; Caradoc, \$321.75; Carlton, \$91.22; Georgina Island, \$16.30; Hobbema, \$44.65; James Bay, \$24.90; Nicola, \$25; Onion Lake, \$99.73; Portage la Prairie, \$25.60; Qu'Appelle, \$37.40; Saddle Lake, \$33.75; Skeena, \$2; Williams Lake, \$6. Overpayments: Interest on Public Debt, Indian Trust Fund, \$6,927.11; A.G. Report, 1935-36, page I—21, \$244.14, less \$104.15 (see page L—71), J. T. White, \$52.44, less \$13.11 refunded in 1935-36, sundry, \$399.96; provincial gasoline tax rebates, \$280.89; Province of Ontario, share of road cost, Moravian, \$113.96, Sarnia, \$50.40, Tyendinaga, \$194.10, Walpole Island, \$528.76 less \$49.80 returned to Agency, credited to Trust Fund in error 1935-36, \$26.01; containers returned, \$612.09; annuities, \$40; outstanding cheque, Blood Agency, \$40.46.....	10,682 06 12,486 03

LANDS, PARKS AND FORESTS AND SURVEYS AND ENGINEERING BRANCHES
TERRES, PARCS, FORÊTS, ARPENTAGES ET TRAVAUX D'ART

<i>Proceeds from Sales — Produits de ventes:</i> —Topographical and Air Surveys: canoes, \$27; auto, \$36.70; equipment, \$88. Geodetic Surveys: auto, \$50; equipment, \$5.25. Northwest Territories: canoe, \$50; supplies, \$5.30. Forest Service: auto, \$42.50; supplies, \$11.40. Water Power, equipment, \$35. Canadian National Parks: tires, \$13; equipment, \$30. Migratory Birds, boats, \$1.....	395 15
<i>Sundry Receipts — Recettes diverses:</i> —Yukon: unclaimed balances of estates, \$292.12; maintenance of insane, \$180. Unclaimed money deposited for safekeeping, \$717.....	1,189 12
<i>Refunds of Expenditure — Recouvrements sur dépenses:</i> —Salaries: Northwest Territories, L. H. Nice, \$25.84; Water Power, G. S. Deslandes, \$22.50; Canadian National Parks: F. L. G. Webster, \$114.75; P. D. Carson, \$60; S. G. Young, \$6.20. Miscellaneous: Observatory, refund on printing, \$105; Topographical Surveys, cylinder returned, \$15; Geodetic Surveys, \$1.10; Forest Service, sundry, \$16.90; Northwest Territories: containers returned, \$159; burial, \$36.60; Water Power, gasoline tax, \$75.09; Canadian National Parks: J. H. Brady, refund on provisions, \$120; shipping buffalos to Germany, \$729.07; Dept. of Agriculture, expenses re Cattle enclosure, \$258.35; gasoline tax, \$33.90; allowances on cash register, \$16.25, tires, \$170.91, typewriter, \$10; province of Alberta, fish hatchery expenses, \$287.37; sundries, \$87.34; Migratory Birds: gasoline tax, \$11.19; allowance on meter, \$20.....	2,382 36
<i>Registration Fees:</i> Northwest Territories, K. R. Daly, registrar, \$26, less \$1.50 transferred to Land Assurance Fund; Yukon, G. A. Jeckell, registrar, \$636.57, less \$71.31 transferred to Land Assurance Fund.....	589 76 4,556 39

MINES AND GEOLOGY BRANCH—MINES ET GÉOLOGIE

<i>Miscellaneous Revenue — Revenus divers:</i> —Assays, analyses, etc., \$1,726.13; permits and licences issued under the Explosives Act, \$1,891.45.....	3,617 58
<i>Proceeds from Sales — Produits de ventes:</i> —Canoes, etc., \$488; equipment, \$367.14; gold bar, \$1,010.24; mineral specimens, \$2,843.85; publications, \$4,492.73; sundries, \$21.65.....	9,223 61

DETAILS OF REVENUE—Conc.—DÉTAIL DES REVENUS—Fin

Casual Revenue—Conc. — Revenu casuel—Fin

MINES AND GEOLOGY BRANCH—Conc. — MINES ET GÉOLOGIE—Fin

<i>Refunds of Expenditure—Recouvrements sur dépenses:</i> —Containers returned, \$71.50; gasoline tax, \$3,517.81; meals supplied, \$11.21; subventions on coal, \$3,130.45; unused railway tickets, \$9.25; sundries, \$25.91.....	6,766 13
	<u>\$ 19,607 32</u>

Fines and Forfeitures — Amendes et Confiscations

IMMIGRATION BRANCH — IMMIGRATION

Fines collected for infringement of Immigration Acts, \$1,018.29; forfeited cash bonds for temporary admission, \$9,875; less cash bonds refunded under authority of Governor in Council, \$250.....	10,643 29
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INDIAN AFFAIRS BRANCH — AFFAIRES INDIENNES

Truancy fines, Indian Act, section 10.....	3 00
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LANDS, PARKS AND FORESTS BRANCH — TERRES, PARCS ET FORÊTS

Fines collected for infringement of: Canadian National Parks Regulations, \$699.31; Migratory Birds Act, \$462.70; Northwest Territories Act, \$507.77; less fines refunded, \$90.75.....	1,579 03
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MINES AND GEOLOGY BRANCH — MINES ET GÉOLOGIE

Fines for breach of Explosives Act.....	40 00
	<u>\$ 12,265 32</u>

Special Revenue, Unemployment Relief — Refunds of Previous Years' Expenditure — Revenu spécial — Secours aux chômeurs — Recouvrements sur les dépenses des années précédentes

Relief Act, 1932, sale of surplus supplies, \$1.25; Relief Act, 1935, sale of surplus supplies, \$128.51; refunds of expenditure, \$60.75.....	<u>\$ 190 51</u>
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Special Revenue, Public Works Construction Act — Refunds of Previous Years Expenditure — Revenu spécial — Loi sur la construction d'ouvrages publics

Public Works Construction Act, 1934: outstanding cheque, \$4.08; overpayment, \$3.12; merchandise returned, \$13.12; Public Works Construction Act, 1935: telephone rental, \$17.85; sale of supplies, \$6; outstanding cheque, \$36; overpayment, \$2.55.....	<u>\$ 82 72</u>
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MINES AND RESOURCES — MINES ET RESSOURCES

DETAILS OF EXPENDITURE — DÉTAIL DES DÉPENSES

(A classification and summary, by votes, of this expenditure appears on pages L—133-139
Un sommaire de ces dépenses, classifiées par crédit, paraît pages L—133-139)

Salaries at Ottawa	Amount	Traitements à Ottawa	Montant
Under Statute — Statutaire. Vote		Davis, L. M., sten., gr. 3.....	\$ 1,596 00
— Crédit 16—Civil Government		deBlois, W. R., clk., gr. 2.....	1,311 00
Salaries — Gouvernement civil:		Devlin, M. R., sten., gr. 2, 4 m. to Mar. 31 at \$1,311 (transferred from Outside)	437 00
Traitements		Dobson, C. J., clk., gr. 4.....	1,824 00
Minister — Ministre—Under Statute— Hon. T. A. Crerar.....	\$ 9,499 92	Drouin, M. B. Y., clk., gr. 2, 8 m., gr. 3, 4 m.....	1,311 00
Deputy Minister — Sous-ministre— C. Camsell.....	9,499 92	Emard, R. H., clk., gr. 2.....	1,311 00
		Evans, G., clk., gr. 2.....	1,311 00
		Falardeau, J., sr. trans.....	2,166 00
		Fogarty, M. I., sten., gr. 2.....	1,311 00
		Gauvin, O., clk., gr. 2.....	1,311 00
		Gervais, J. O. E., clk., gr. 2, 8 m. to Nov. 30 at \$1,254 (transferred to Outside).....	836 00
		Gillmor, H. M., chief of records, Immi- gration Branch.....	3,249 00
		Gowan, A. M., clk., gr. 2, 8 m. to Nov. 30 at \$1,311 (transferred to Outside)	874 00
		Gray, W. F., clk., gr. 4, 8 m. to Nov. 30 at \$1,824 (transferred to Outside)	1,216 00
		Hagar, R. E., sten., gr. 2.....	1,254 00
		Hoare, L. M. E., typist, gr. 2.....	1,311 00
		Howard, G. L., clk., gr. 4, 8 m. to Nov. 30 at \$1,767 (transferred to Outside)	1,178 00
		Hughes, J. J., head clk., 8 m. to Nov. 30 at \$2,850 (transferred to Outside)	1,900 00
		Hummell, P. E., clk., gr. 3.....	1,539 00
		Joad, A. E., sten., gr. 2, 12 m. at \$1,311, less 22 d.....	1,231 52
		Jolliffe, A. L., comm. of immigration, 8 m. at \$4,674, 4 m. at \$5,700.....	5,016 00
		Joy, R., clk., gr. 1.....	900 00
		Kealey, H. W., typist, gr. 1.....	900 00
		Kelly, M., sten., gr. 2, 8 m. at \$1,200, gr. 3, 4 m. at \$1,311.....	1,237 00
		Lamb, L. H., sten., gr. 2.....	1,254 00
		Lanthier, C. W., sten., gr. 3, 12 m. at \$1,596, less 36 d. and \$11.....	1,426 51
		Lee, C. E. R., clk., gr. 2.....	1,254 00
		Leonard, G. B., clk., gr. 3, 8 m. to Nov. 30 at \$1,539 (transferred to Outside).....	1,026 00
		Loan, D. M., clk., gr. 4, 8 m. to Nov. 30 at \$1,824 (transferred to Outside)	1,216 00
		Lynton, T. J., secy.-clk.....	3,306 00
		MacFarlane, M. G., sten., gr. 3.....	1,539 00
		Magladery, T., deputy minister, 8 m. to Nov. 30 at \$8,550 (retired).....	5,700 00
		May, M., clk., gr. 1, 6 m. at \$720, 6 m. at \$780.....	750 00
		McCabe, A. C., clk., gr. 2.....	1,311 00
		McEwen, I. M., sten., gr. 3, 4 m. to Mar. 31 at \$1,425.....	475 00
IMMIGRATION AND COLONIZATION			
IMMIGRATION ET COLONISATION			
Vote — Crédit 9—Civil Government			
Salaries — Gouvernement civil:			
Traitements			
PERMANENT EMPLOYEES			
PERSONNEL PERMANENT			
Allan, J. S., clk., gr. 4.....	1,824 00		
Belliveau, B. M., clk., gr. 3.....	1,539 00		
Bingham, M. J., sten., gr. 3, 6 m. at \$1,311, 2 m. to Nov. 30 at \$1,368 (transferred to Outside).....	883 50		
Blair, F. C., asst. deputy minister, 8 m. at \$4,959, director, Immigration Branch, 4 m. at \$7,125.....	5,681 00		
Boyd, M. E., sten., gr. 3, 3 m. at \$1,482, 9 m. at \$1,539.....	1,524 75		
Brossard, G. E., clk., gr. 1, 8 m. at \$1,020, gr. 2, 4 m. at \$1,080.....	1,040 00		
Burke, A. B., clk., gr. 4.....	1,824 00		
Burke, A. E., clk., gr. 2.....	1,311 00		
Burke, H. J., clk., gr. 4.....	1,767 00		
Burnham, M. V., supervisor of women's division, 12 m. at \$3,249, less 46½ d..	2,838 36		
Buskard, G. F., chief clk.....	3,534 00		
Butler, E. A., clk., gr. 4, 8 m. at \$1,653, prin. clk., 4 m. at \$1,824.....	1,710 00		
Calderwood, J. S., clk., gr. 4, 6 m. at \$1,767, 6 m. at \$1,824.....	1,795 50		
Calvin, J. B., clk., gr. 2.....	1,311 00		
Carroll, E. E., sten., gr. 2.....	1,311 00		
Cassidy, M. E., sten., gr. 2.....	1,200 00		
Chapman, C. M. B., head clk., 12 m. at \$2,850, less 3½ d.....	2,823 19		
Chisholm, E. M., clk., gr. 2.....	1,311 00		
Clark, G. J. D., confidential messenger	1,254 00		
Couch, H. M., typist, gr. 2.....	1,311 00		
Cullen, M. J., chief insp. of immigra- tion.....	3,933 00		
Curran, J., clk., gr. 2.....	1,368 00		
Davies, J., office boy.....	660 00		

NOTE: Unless otherwise stated, all Salaries are for the 12-month period ended March 31, 1937.

REMARQUE: Sauf indication contraire, tous les traitements sont donnés pour la période des 12 mois terminés le 31 mars 1937.

DETAILS OF EXPENDITURE—*Con.*—DÉTAIL DES DÉPENSES—*Suite*

Salaries at Ottawa	Amount	Traitements à Ottawa	Montant
IMMIGRATION AND COLONIZATION— <i>Conc.</i> — IMMIGRATION ET COLONISATION— <i>Fin</i>		Tessier, Y. A., clk., gr. 1.....	\$ 1,020 00
		Thomas, R. G., clk., gr. 3.....	1,539 00
		Tomney, J. G., clk., gr. 2, 8 m. to Nov. 30 at \$1,311 (transferred to outside)...	874 00
		Trepanier, F., clk., gr. 1.....	960 00
		Tubman, M. E., clk., gr. 4.....	1,824 00
		Turner, F. L., clk., gr. 2.....	1,200 00
		Usher, E., prin. clk.....	2,166 00
		Valiquette, P. R., prin. clk. (deceased)	2,280 00
		Wilson, M., sten., gr. 2.....	1,311 00
			178,132 19
Vote — Crédit 9—Civil Government Salaries—<i>Conc.</i> — Gouvernement civil: Traitements—<i>Fin</i>		Vote — Crédit 51—Immigration	
PERMANENT EMPLOYEES— <i>Conc.</i> PERSONNEL PERMANENT— <i>Fin</i>		TEMPORARY EMPLOYEES PERSONNEL TEMPORAIRE	
McLaren, M. G., sten., gr. 1, 9 m. to Dec. 31 at \$1,020 (promoted and transferred to Outside).....	\$ 765 00	Gooding, H. O., office boy, Aug. 11, noon, to Nov. 9, noon, at \$420.....	103 07
Merifield, H., clk., gr. 1, 12 m. at \$1,020, less 50c.....	1,019 50	Harrison, D. E., sten., gr. 1, Feb. 1 to Mar. 6 at \$720.....	71 61
Miller, M. R., sten., gr. 2, 12 m. at \$1,200, less 49 d.....	1,037 35	James, M. M., sten., gr. 1, Mar. 22 to 31 at \$720.....	19 35
Morgan, E. A., sten., gr. 3.....	1,311 00	Kelly, M. K., sten., gr. 1, Feb. 18 to Mar. 31 at \$720.....	83 57
Morgan, F. A., head clk.....	2,736 00	McEwen, I. M., sten., gr. 3, 8 m. to Nov. 30 at \$1,425.....	950 00
Morgan, W. H., head clk., 12 m. at \$2,850, less 5 d.....	2,811 69	Underhay, E. M., sten., gr. 1, Jan. 25 to 31 at \$720.....	13 55
Morrison, E. M., clk., gr. 3.....	1,539 00		1,241 15
Mott, F. A., clk., gr. 4, 8 m., prin. clk., 4 m. at \$1,824, less \$2.....	1,822 00	INDIAN AFFAIRS — AFFAIRES INDIENNES	
Munroe, R. N., asst. comm. of immi- gration.....	3,819 00	Vote — Crédit 10—Civil Government Salaries — Gouvernement civil: Traitements	
Murray, W. H., clk., gr. 4.....	1,824 00	PERMANENT EMPLOYEES PERSONNEL PERMANENT	
Nevens, A. M., clk., gr. 3, 3 m. at \$1,425, 9 m. at \$1,482.....	1,467 75	Adkins, W., clk., gr. 2.....	1,311 00
Nezan, C., clk., gr. 4, 12 m. at \$1,767, less \$1.....	1,766 00	Armstrong, G., depl. acct., gr. 1, 8 m. at \$2,109, head clk., 4 m. at \$2,394....	2,204 00
O'Connor, E. A., prin. clk.....	2,280 00	Awrey, H. N., head clk.....	2,850 00
O'Connor, L. M., clk., gr. 4.....	1,824 00	Balderston, K. L., office boy, 4 m. to Mar. 31 at \$600 (see also Contingen- cies).....	200 00
O'Regan, J. A. L., office boy.....	660 00	Bernard, P. J., clk., gr. 3.....	1,539 00
Pageau, M. J. A., office app. opr., gr. 2.	1,200 00	Boast, K. E., sten., gr. 2.....	1,311 00
Paquette, D., clk., gr. 2.....	1,311 00	Bradley, J., head clk.....	2,736 00
Pearce, R. G., clk., gr. 1.....	1,020 00	Bristow, A. E., clk., gr. 3, 8 m., gr. 4, 4 m.....	1,539 00
Perron, W. C., prin. clk.....	2,280 00	Bury, H. J., supervisor of Indian timber lands.....	3,078 00
Phillips, V., sten., gr. 2.....	1,254 00	Caldwell, J. C., director of Indian lands and timber, 8 m., chief, reserves division, 4 m.....	3,819 00
Pratt, W. J. F., private secy's allow- ance, 8 m. to Nov. 30 at \$570.....	380 00	Chene, J. D., sr. asst. eng., 12 m. at \$3,135, less 42½ d.....	2,772 23
Prindiville, J., prin. clk.....	2,166 00	Cherry, D. G., sten., gr. 2.....	1,200 00
Reid, J. A., clk., gr. 4, 8 m. at \$1,824, secy. to executive, 4 m. at \$1,881....	1,843 00	Churchill, W., sten., gr. 3, 8 m. at \$1,539, secy. to executive, 4 m. at \$1,653.....	1,577 00
Rivest, M. I., sten., gr. 3, 8 m. to Nov. 30 at \$1,539 (transferred to Outside)...	1,026 00	Coghlan, H., sten., gr. 3.....	1,539 00
Rock, E. R., sten., gr. 3, 12 m. at \$1,596, less 1 d.....	1,591 57	Conley, G. A., depl. acct., gr. 3, 8 m. at \$2,964, chief clk., 4 m. at \$3,192.	3,040 00
Roger, F. B., secy. to executive, 8 m. at \$1,995, clk., gr. 4, 4 m. at \$1,824..	1,938 00	Currie, M. M., sten., gr. 2.....	1,311 00
Rogers, E. E., clk., gr. 3.....	1,596 00	Davis, S., sten., gr. 2.....	1,311 00
Scobie, M. J., supervisor of juvenile immigration, 6 m. at \$2,394, 6 m. at \$2,508.....	2,451 00	Downing, W. A., packer and helper.....	1,234 92
Selleck, W. C., clk., gr. 2, 8 m. to Nov. 30 at \$1,254 (transferred to Outside)...	836 00		
Shaver, E. I., sten., gr. 2.....	1,254 00		
Skuffham, A. W., clk., gr. 4.....	1,767 00		
Smith, A. J., clk., gr. 4, 8 m., prin. clk., 4 m.....	1,824 00		
Smith, J. A., clk., gr. 2, 8 m. to Nov. 30 at \$1,311 (transferred to outside)...	874 00		
Stead, R. J. C., director of publicity, 8 m. at \$4,104, supt., parks and resour- ces information, 4 m. at \$4,389.....	4,199 00		
Steljes, E. J., prin. clk.....	2,280 00		
Stewart, E. M., typist, gr. 2.....	1,311 00		
Stewart, J. B., sten., gr. 3.....	1,482 00		
Stuart, J. W. A., clk., gr. 2.....	1,311 00		
Taylor, L. C., sten., gr. 3, 8 m., clk., gr. 4, 4 m.....	1,539 00		

MINES AND RESOURCES—MINES ET RESSOURCES

Salaries at Ottawa	Amount	Traitements à Ottawa	Montant
INDIAN AFFAIRS— <i>Conc.</i> AFFAIRES INDIENNES— <i>Fin</i>		Russell, H. G., sten., gr. 2.....	\$ 1,311 00
Vote — Crédit 10—Civil Government Salaries—Conc. — Gouvernement civil: Traitements—Fin		Skinner, F. T., sr. draftsman, 12 m. at \$2,052, less 91 d.....	1,535 74
PERMANENT EMPLOYEES— <i>Conc.</i> PERSONNEL PERMANENT— <i>Fin</i>		Smith, A. M., clk., gr. 3.....	1,596 00
Gilroy, F. O. E., typist, gr. 1, 8 m. at \$840, clk., gr. 2, 4 m. at \$1,080.....	\$ 920 00	St. Louis, A. E., prin. clk., 8 m. at \$2,280, head clk., 4 m. at \$2,394.....	2,318 00
Gorrell, G. A., clk., gr. 4.....	1,824 00	Stone, E. L., director of medical services, 8 m. at \$4,945, supt., medical services, 4 m. at \$4,959.....	4,883 00
Hoey, R. A., supt. of welfare and training, 4 m. to Mar. 31 at \$4,389.....	1,463 00	Sutherland, J. D., chief clk., 6 m. at \$2,964, 6 m. at \$3,078.....	3,021 00
Hooper, J. H., clk., gr. 3, 8 m., gr. 4, 4 m.....	1,596 00	Walker, E. V., sten., gr. 2.....	1,254 00
Johnston, F., confidential messenger, 6 m. to Sept. 30 at \$1,254 (retired).....	627 00	Walton, M. O., sten., gr. 2.....	1,311 00
Lahey, J. T. H., office boy, 8 m. at \$660, clk., gr. 2, 4 m. at \$1,080.....	800 00	White, W. R., surveys eng., gr. 3.....	3,120 72
MacInnes, T. R. L., chief clk., 8 m. at \$3,306, secy., Indian Affairs Branch, 4 m. at \$3,819.....	3,477 00	Williams, A. S., asst. deputy supt. general and depl. solicitor.....	4,950 00
MacKenzie, A. F., secy.....	4,047 00	Young, P. E., sten., gr. 2, 8 m., gr. 3, 4 m.....	1,311 00
MacLatchie, E. L., law sten., gr. 3.....	1,653 00		129,595 91
Matheson, G. M., head clk., 6 m. to Sept. 30 at \$2,850 (retired).....	1,425 00	Vote — Crédit 10—Civil Government Contingencies — Gouvernement civil: Dépenses contingentes	
McBride, E., clk., gr. 2.....	1,368 00	TEMPORARY EMPLOYEES PERSONNEL TEMPORAIRE	
McDermid, E. B., sten., gr. 2.....	1,254 00	<i>Clerks, Typists and Stenographers, unless otherwise specified — Commis aux écritures, sténos et dactylos, sauf indication contraire; Gr. 1—\$720 Gr. 2—\$1080...</i>	
McGill, H. W., deputy supt. general of Indian Affairs, 8 m. at \$8,550, director, Indian Affairs Branch, 4 m. at \$7,125.....	8,075 00	Balderston, K. L., office boy, 8 m. to Nov. 30 at \$600.....	400 00
McGillis, M. L., sten., gr. 2.....	1,254 00	Briggs, J. V. E., gr. 1, Aug. 24 to Oct. 24.....	121 93
McCookin, T., insp. of Indian agencies, gr. 2, 8 m. at \$2,850, gr. 3, 4 m. at \$3,192.....	2,964 00	Harrison, D. E., gr. 1, Oct. 13 to Dec. 31.....	156 77
McGuire, W. J., clk., gr. 2.....	1,254 00	Leichnitz, R. E., gr. 1, Apr. 25 to May 15.....	41 03
McKeever, L. F., sten., gr. 2, 4 m. to Mar. 31 at \$1,080 (see also Contingencies).....	360 00	McKeever, L. F., gr. 2, 8 m. to Nov. 30.....	720 00
Meitz, E., sten., gr. 2.....	1,311 00	Paterson, E. G., office boy, 8 m. to Nov. 30 at \$600.....	400 00
Moodie, K. A. M., secy. to executive, 8 m. at \$1,995, prin. clk., 4 m. at \$2,052.....	2,014 00	Wolfe, N., gr. 2, June 3 to Aug. 31.....	264 00
Munro, F., sr. messenger, 8 m., clk., gr. 2, 4 m.....	1,200 00		2,103 73
Murphy, L. M., typist, gr. 1.....	1,020 00	Vote — Crédit 166—Expenses connected with the administration etc. of Indian Affairs — Affaires indiennes: Frais d'administration etc.	
O'Connor, P. J., head clk.....	2,850 00	PERMANENT EMPLOYEES PERSONNEL PERMANENT	
Ogilvy, H. G., prin. clk., 3 m. at \$2,166, 9 m. at \$2,280.....	2,251 50	Christianson, M., gen. supt. of Indian agencies, 4 m. to Mar. 31 (transferred from Alberta Inspectorate).....	1,463 00
O'Meara, M. M., sten., gr. 2.....	1,311 00	Cookson, S., prin. clk., 8 m. to Nov. 30 at \$2,280, chief clk., 4 m. to Mar. 31 at \$2,394.....	2,318 00
Orr, R. G., architect.....	3,135 00	Johnson, H. P., prin. clk.....	2,280 00
Parker, C. C., insp. of Indian agencies, gr. 3, 8 m. at \$3,420, supt., reserves and trusts, 4 m. at \$3,819.....	3,553 00	TEMPORARY EMPLOYEES PERSONNEL TEMPORAIRE	
Patterson, E. G., office boy, 4 m. to Mar. 31 at \$600 (see also Contingencies).....	200 00	Hocking, W. J., architectural draftsman, 10 m. to Mar. 31 at \$1,425.....	1,187 50
Patrick, G., sr. map draftsman, 8 m. at \$2,052, head clk., 4 m. at \$2,394.....	2,166 00	Millar, J. T., sten., gr. 1, Jan. 25 to Mar. 31.....	133 55
Pattie, M. I., sten., gr. 1, 4 m. to Mar. 31 at \$720.....	240 00	Pattie, M. I., sten., gr. 1, 8 m. to Nov. 30 less 10 days, \$21.35.....	458 65
Pescod, E. G., clk., gr. 2.....	1,311 00	Surette, G. A., articled pupil, 9 m. to Dec. 31 at \$1,710.....	1,282 50
Phelan, A. B., prin. clk., 6 m. at \$1,824, 6 m. at \$1,938.....	1,881 00		9,123 20
Phelan, P. N. L., head clk., 6 m. at \$2,394, 2 m. at \$2,508, chief, training division, 4 m. at \$3,534.....	2,793 00		
Read, G. B., surveys eng., gr. 1, 12 m. at \$2,052, less 16 d.....	1,960 80		
Riley, M. C., sten., gr. 2.....	1,311 00		
Robertson, D. F., chief surveyor.....	3,534 00		

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

Salaries at Ottawa	Amount	Traitements à Ottawa	Montant
INTERIOR — INTÉRIEUR			
Vote—Crédit 12—Civil Government			
Salaries — Gouvernement civil:			
Traitements			
PERMANENT EMPLOYEES PERSONNEL PERMANENT			
Adams, G. E., clk., gr. 4.....	\$ 1,824 00	Chandler, H., depl. purchasing agt., gr. 3.....	\$ 3,249 00
Akins, J. R., surveys eng., gr. 6.....	3,819 00	Chevrier, A. R., depl. acct., gr. 1.....	2,109 00
Allan, F. M., asst. office eng.....	2,451 00	Christensen, L. P. E., instrument ma- ker, gr. 3.....	2,166 00
Allan, K. H., clk., gr. 4.....	1,824 00	Clapp, F., asst. private secy.....	2,394 00
Allan, N. T., chief draftsman.....	2,964 00	Clarke, D. M., sten., gr. 2.....	1,311 00
Arbogast, E. C., astronomer, gr. 3.....	3,078 00	Clarke, H. H., investigator, N.D., gr. 3, 8 m., investigator, gr. 3, 4 m.....	2,907 00
Archibald, F. W., sten., gr. 2, Apr. 1 to Jan. 22 at \$1,311 (transferred to Dept. of Transport).....	1,060 78	Clarke, J. M., head clk., 8 m. at \$2,850, chief clk., 4 m. at \$2,964.....	2,888 00
Armstrong, W. B., asst. office eng.....	2,451 00	Cleary, K. G., sten., gr. 3.....	1,596 00
Ashfield, M. M., clk., gr. 3.....	1,539 00	Cochrane, M. F., W. P. and H. eng., 8 m. W. and P. eng., gr. 5, 4 m.....	3,534 00
Bailey, W. M., asst. secy. and pur- chasing agt., 8 m. at \$3,819, depl. purchasing agt., gr. 5, 4 m. at \$4,104.....	3,914 00	Cohoon, A. A., head clk.....	2,850 00
Baldock, E. D., map drftsman.....	1,710 00	Colquhoun, G. A., surveys eng., gr. 2.....	2,565 00
Barber, D. M., depl. acct., gr. 1, 12 m. at \$2,109, less $\frac{1}{2}$ d.....	2,106 07	Corcoran, J. B., prin. clk.....	2,280 00
Barber, H. G., office eng., 8 m. at \$3,078, surveys eng., gr. 5, 4 m. at \$3,135.....	3,097 00	Cordukes, J. P., surveys eng., gr. 3.....	3,078 00
Barber, L. J., clk., gr. 4.....	1,824 00	Cote, J. A. A., head clk.....	2,850 00
Baxter, A. J., editor, gr. 1, 8 m., gr. 2, 4 m. at \$2,394, less 18 d.....	2,278 16	Cowan, J. C., prin. clk.....	2,280 00
Bayly, G. S. J., investigator, N.D., gr. 3, 3 m. at \$2,907, 5 m. at \$3,021, office eng., 4 m. at \$3,078.....	3,011 50	Cox, A. C., sr. map draftsman.....	2,052 00
Beale, A. M., W. P. and H. eng., 8 m., W. and P. eng., gr. 5, 4 m.....	3,534 00	Cuthbert, D. J., clk., gr. 1, 8 m. at \$900, gr. 2, 4 m. at \$1,080.....	960 00
Bedard, H. J., asst. office eng.....	2,451 00	Daly, K. R., solicitor, 8 m. at \$4,104, sr. solicitor, 4 m. at \$4,275.....	4,161 00
Bennett, C. H., prin. clk.....	2,280 00	Daly, P. J., head clk.....	2,850 00
Bennett, E. A., clk., gr. 2.....	1,080 00	Daoust, J. C., confidential messenger.....	1,311 00
Benoit, G. R., editor, gr. 2, Feb. 15 to Mar. 31 at \$2,394.....	299 25	Davidson, H. J., depl. acct., gr. 2, 8 m. at \$2,565, head clk., 4 m. at \$2,622.....	2,584 00
Besserer, C. W., process worker.....	2,679 00	DeLury, R. E., asst. director, Dom. Observatory, 8 m., first asst., Dom. astronomer, 4 m.....	4,389 00
Bethune, W. C., head clk.....	2,850 00	Denison, M. I., clk., gr. 3, 8 m., gr. 4, 4 m.....	1,596 00
Bidgood, M. A. L., sten., gr. 2, 8 m., gr. 3, 4 m.....	1,311 00	Dennis, E. M., office eng.....	3,078 00
Birchall, W. A., chief map draftsman.....	2,964 00	dePuyjalon, L. H., clk., gr. 4.....	1,824 00
Blue, W. A., prin. clk.....	2,280 00	Deslauriers, J. E., asst. office eng.....	2,451 00
Bompas, H. O., clk., gr. 4.....	1,824 00	Deslauriers, J. E., clk., gr. 3.....	1,539 00
Bowes, H. M. M., sten., gr. 2, 8 m., clk., gr. 3, 4 m.....	1,311 00	Deslauriers, J. L., sr. map draftsman.....	2,052 00
Bradley, J. D., asst. office eng.....	2,451 00	Devitt, E. A., prin. clk., 8 m. at \$2,166, depl. purchasing agt., gr. 2, 4 m. at \$2,225.....	2,185 00
Brady, H. M., typist, gr. 2.....	1,311 00	Donaldson, E. M., clk., gr. 4.....	1,767 00
Brenot, I., surveys eng., gr. 4.....	3,249 00	Douglas, J. M., clk., gr. 4, 8 m., prin. clk., 4 m.....	1,824 00
Brenot, M. O. F., clk., gr. 4, 8 m., post- master, Mines and Resources, 4 m.....	1,824 00	Doxsee, W. W., astronomer, gr. 2, 8 m., gr. 3, 4 m.....	2,565 00
Burkholder, E. L., prin. clk.....	2,280 00	Doyle, J. F., head clk.....	2,736 00
Caldar, D., sr. map draftsman.....	2,052 00	Dunlap, H. J., office eng.....	3,078 00
Caldwell, J. M., head clk.....	2,850 00	Dunlop, H. A., asst. editor, 8 m., clk., gr. 4, 4 m.....	1,824 00
Cameron, D. R., asst. director, Forest- ry Branch, 8 m. at \$4,389, Dominion forester, 4 m. at \$4,560.....	4,446 00	Dunn, F. J., carpenter at 66 $\frac{1}{2}$ c. per hour.....	1,265 85
Cameron, M. G., surveys eng., gr. 3.....	3,078 00	Dupont, C., clk., gr. 3.....	1,539 00
Campbell, H. D., clk., gr. 4.....	1,824 00	Eager, I. D., clk., gr. 2.....	1,311 00
Cannon, J. B., surveys eng., gr. 4, 8 m. at \$3,249, general executive asst., surveys and engineering branch, 4 m. at \$3,819.....	3,439 00	Eastman, E. R., head clk.....	2,850 00
Carnochan, J. N., sr. map draftsman.....	2,052 00	Ebbs, E. J., prin. clk.....	2,280 00
Caron, A. O., clk., gr. 3.....	1,539 00	Ewen, C., head clk.....	2,850 00
Carson, F. W., prin. clk.....	2,280 00	Finlayson, E. H., director, Forestry Branch, 2 m. sal. in lieu of gratuity (presumed deceased).....	826 50
Case, R. H., clk., gr. 3.....	1,596 00	French, C. A., astronomer, gr. 4.....	3,648 00
Casey, C. M., sten., gr. 3.....	1,482 00	Gagnon, G. A., clk., gr. 4.....	1,767 00
		Gibson, G. H. D., editor, gr. 1.....	2,394 00
		Gibson, R. A., asst. deputy minister, 8 m. at \$5,225, director, lands, parks and forests branch, 4 m. at \$7,125.....	5,858 28
		Gillespie, J. F., head clk.....	2,736 00
		Gillespie, K. M., sten., gr. 3.....	1,539 00
		Goody, S. H., asst. office eng.....	2,394 00
		Graybill, E. M., secy. to executive, Temp., 8 m., Perm., 4 m.....	1,995 00
		Grondin, A., typist, gr. 3.....	1,482 00
		Hall, J., prin. map draftsman.....	2,565 00

MINES AND RESOURCES—MINES ET RESSOURCES

Salaries at Ottawa	Amount	Traitements à Ottawa	Montant
INTERIOR—Con. — INTÉRIEUR—Suite			
Vote — Crédit 12—Civil Government			
Salaries—Con. — Gouvernement civil: Traitements—Suite			
PERMANENT EMPLOYEES—Con. PERSONNEL PERMANENT—Suite			
Hand, S. E., prin. clk.	\$ 2,280 00	McCann, I. M., clk., gr. 4.	\$ 1,824 00
Handley, H., clk., gr. 4.	1,824 00	McClenaghan, W. S., astronomer, gr. 3.	3,021 00
Hardouin, J., surveys eng., gr. 3.	3,120 72	McClymont, P. J., head clk.	2,850 00
Hardy, E. H., sten., gr. 2.	1,311 00	McDermott, M. I. C., clk., gr. 3.	1,482 00
Harkin, J. B., commissioner, Dom. Parks, 8 m. to Nov. 30 at \$4,959 (retired).	3,306 00	McDiarmid, F. A. M., surveys eng., gr. 4.	3,249 00
Harper, W. E., director, Astrophysical Observatory, 8 m. head astronomer, Dominion astrophysical observatory, 4 m. at \$4,674, less allowance \$600.	4,074 00	McDiarmid, R. J., astronomer, gr. 3.	3,078 00
Harris, K. D., asst. architect, 8 m. at \$2,565, sr. asst. architect, 4 m. at \$2,622.	2,584 00	McDonald, G. C., clk., gr. 3.	1,482 00
Hatton, C. M., sten., gr. 3.	1,539 00	McDonald, M. A., sten., gr. 3.	1,596 00
Henderson, F. D., surveys eng., gr. 5.	3,534 00	McDougall, D. E., chief clk., 8 m. at \$3,420, general executive asst., lands, parks and forests branch, 4 m. at \$3,819.	3,553 00
Henderson, J. P., astronomer, gr. 3.	3,021 00	McElroy, K. A., clk., gr. 3.	1,596 00
Hennessy, T. S., clk., gr. 3, 8 m., gr. 4, 4 m.	1,539 00	McGahey, H. P., clk., gr. 3.	1,539 00
Hill, D. E., clk., gr. 4.	1,824 00	McKay, R. B., surveys eng., gr. 5.	3,534 00
Hogan, D. L., prin. clk., 8 m. at \$2,280, head clk., 4 m. at \$2,622.	2,394 00	McKeand, D. L., asst. director, N.W.- T. and Yukon Branch, 8 m. at \$3,876, supt. eastern Arctic and secy. North- west Territories Council, 4 m. at \$4,104.	3,952 00
Holding, R., sr. map draftsman.	2,052 00	McKinley, E. M., sten., gr. 3.	1,596 00
Hollingsworth, G. S., surveys eng., gr. 1.	2,052 00	McKnight, J. H., asst. office eng.	2,451 00
Holtz, A. H., clk., gr. 3.	1,539 00	Metivier, A., asst. process worker.	2,052 00
Howard, L., prin. clk.	2,280 00	Miller, A. H., astronomer, gr. 4.	3,648 00
Jackson, C. W., private secy., 8 m. at \$3,990, secy. and chief executive asst., 4 m. at \$5,130.	4,370 00	Morin, J. L., prin. clk.	2,280 00
Jamieson, M., sten., gr. 2, 8 m., gr. 3, 4 m.	1,311 00	Morris, J. E., prin. clk.	2,280 00
Johnson, A. F., clk., gr. 4.	1,710 00	Motherwell, R. M., astronomer, gr. 4.	3,648 00
Johnston, J. T., director W.P. and H. Bureau, 8 m., controller and chief eng., Dom. W. and P. bureau, 4 m.	6,649 92	Mullen, E. G. F., clk., gr. 3.	1,539 00
Kilmartin, A. T., asst. process worker, 12 m. at \$2,166, less 8 d.	2,119 42	Murray, H. A., chief of photo-mechan- ical plant.	3,135 00
King, M. I. L., sten., gr. 3, 6 m. at \$1,311, 6 m. at \$1,368.	1,339 50	Narraway, A. M., asst. director, Topo- graphical Surveys Branch, 8 m., con- sulting aerial surveys eng., 4 m.	4,389 00
L'Abbe, J. H., librarian.	2,394 00	Nash, T. S., surveys eng., gr. 6.	3,819 00
Lafleur, R., confidential messenger.	1,254 00	Nevens, K. C., clk., gr. 3.	1,539 00
Lafortune, M., sten., gr. 1, temp., 8 m., Perm., 4 m.	720 00	Nicol, H., sr. map draftsman, 12 m. at \$2,052, less 6 d.	2,018 90
Landreville, I. B., depld. bookbinder.	2,508 00	Nugent, D. B., astronomer, gr. 3.	3,363 00
Lawler, J., editor, gr. 3.	3,534 00	O'Connell, J. R., chief map draftsman.	2,964 00
Lock, J. W. K., head clk.	2,850 00	Ogilvie, N. J., director, Geodetic Sur- veys Branch, 8 m. at \$4,674, Domi- nion geodesist and International Boundary Comm., 4 m. at \$4,845.	4,731 00
Lothian, W. F., clk., gr. 4, 8 m., prin. clk., 4 m.	1,824 00	Olmsted, C. R. G., prin. clk.	2,166 00
MacDonald, D. H., prin. clk., Apr. 1 to 30 at \$2,052 (deceased).	171 00	O'Regan, L. J., sten., gr. 2, temp., 8 m. at \$1,080, perm., gr. 1, 4 m. at \$1,020.	1,060 00
MacDonald, H. M., clk., gr. 3.	1,539 00	Parker, T. H., surveys eng., gr. 3.	3,078 00
MacIlquham, W. L., office eng.	3,078 00	Parry, H., office eng., 12 m. at \$3,078, less 2 d.	3,060 90
Mackie, A. I., law sten., gr. 3.	1,596 00	Payton, G. W., head clk.	2,850 00
MacLeod, G. A., prin. clk.	2,280 00	Peaker, R., head clk.	2,850 00
MacMillan, F. R., clk., gr. 4.	1,824 00	Peaker, W. J., office eng.	3,078 00
MacMillan, J. P., surveys eng., gr. 2, 8 m., park supt., gr. 3.	2,565 00	Pearce, J. A., asst. director, Astro- physical Observatory, 8 m., first asst. Dom. Astrophysical Observatory, 4 m.	4,104 00
Mann, A. E. G., prin. clk.	2,280 00	Percival, M. F., sten., gr. 3.	1,596 00
McCabe, K., sten., gr. 2, 8 m., gr. 3, 4 m.	1,311 00	Petepiece, K. D., clk., gr. 4.	1,767 00
		Peters, F. H., director, Topographical Surveys Branch, 8 m. at \$4,674, sur- veyor general and chief, hydro- graphic service, 4 m. at \$4,845.	4,731 00
		Powell, C. H. E., chief clk.	3,420 00
		Pratt, W. J. F., chief clk., 8 m. at \$3,534, asst. secy. and chief of per- sonnel, 4 m. at \$4,104.	3,724 00

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

Salaries at Ottawa	Amount	Traitements à Ottawa	Montant
INTERIOR—Con. — INTÉRIEUR—Suite		Vote — Crédit 12—Civil Government	
Vote — Crédit 12—Civil Government		Contingencies — Gouvernement	
Salaries—Conc. — Gouvernement		civil: Dépenses contingentes	
civil: Traitements—Fin		TEMPORARY EMPLOYEES	
PERMANENT EMPLOYEES—Conc.		PERSONNEL TEMPORAIRE	
PERSONNEL PERMANENT—Fin		Bratton, P. I., sten., gr. 1, Mar. 1, noon, to 31 at \$720.....	
			\$ 59 03
Purdy, W. A., prin. map draftsman....	2,565 00	Early, M. E., sten., gr. 1, Mar. 10 to 22, noon, at \$720.....	24 19
Purvis, G. E., chief clk., Apr. 1 to 30 at \$3,534 (deceased).....	294 50	McGregor, I. E., sten., gr. 1, Mar. 5 to 22, noon, at \$720.....	33 87
Rannie, J. L., surveys eng., gr. 6.....	3,819 00	Stiver, E. C., sten., gr. 1, Apr. 1 to May 26 at \$720.....	110 32
Reaume, H. E., clk., gr. 4, 8 m. at \$1,824, deptl. purchasing agt., gr. 1, 4 m. at \$1,881.....	1,843 00	Wright, M., sten., gr. 1, Mar. 18, noon, to 31 at \$720.....	26 13
Rickwood, C. J. L., clk., gr. 4.....	1,767 00		253 54
Rivest, A. B. M., sten., gr. 2.....	1,311 00		
Ross, R. R., surveys eng., gr. 1, 8 m., jr. eng., 4 m.....	2,052 00	Vote — Crédit 135—Dominion Ob-	
Sawyer, O. K., clk., gr. 4, 6 m. at \$1,539, 6 m. at \$1,596.....	1,567 50	servatory at Ottawa — Observa-	
Shannon, C. V., head clk.....	2,850 00	toire de l'Etat, Ottawa	
Sills, O., prin. clk., 8 m. at \$2,280, head clk., 4 m. at \$2,394.....	2,318 00	PERMANENT EMPLOYEES	
Smith, C. C., astronomer, gr. 5.....	3,819 00	PERSONNEL PERMANENT	
Smith, F. I., sten., gr. 2.....	1,311 00	Bird, A., instrument maker, gr. 2.....	1,824 00
Spero, J. E., chief clk., 8 m. at \$3,420, executive asst., National Parks Bu- reau, 4 m. at \$3,534.....	3,458 00	Burland, M. S., astronomer, gr. 1.....	2,052 00
Spry, I. R., sten., gr. 2.....	1,311 00	Collins, G. H. A., sr. photographer....	2,109 00
Stewart, H. L., prin. clk.....	2,280 00	Dier, W. A., jr. electrical eng., 8 m. to Nov. 30 at \$2,052 (retired).....	1,368 00
Stewart, R. M., Dom. astronomer.....	4,929 00	Gauthier, J. D. H., clk., gr. 3, 8 m., gr. 4, 4 m.....	1,539 00
Stothers, J. H., asst. office eng.....	2,451 00	Grant, A. W., head clk.....	2,850 00
Swinburn, A. H., astronomer, gr. 3....	3,021 00	Hodgson, E. A., astronomer, gr. 4.....	3,648 00
Taylor, W. D., clk., gr. 4.....	1,824 00	Jacques, W. C., astronomer, gr. 3.....	3,078 00
Tobey, W. M., asst. director and sur- veys eng., gr. 6, geodetic surveys, 8 m., asst. Dominion geodesist, 4 m....	4,104 00	Madill, R. G., astronomer, gr. 3.....	3,021 00
Tupper, H. C. L., prin. clk., 8 m. to Nov. 30 at \$2,280 (deceased).....	1,520 00	O'Boyle, M. G., sten., gr. 2, 8 m. at \$1,254, clk., gr. 3, 4 m. at \$1,311....	1,273 00
Turner, J. W. L., director of lands, N.W.T. and Yukon Branch, 8 m. at \$4,674, registrar of lands, 1 m. at \$4,674, 3 m. at \$4,959.....	4,745 25	O'Connor, J. L., astronomer, gr. 1.....	2,052 00
Turton, E. E., deptl. acct., gr. 2, 8 m. at \$2,565, head clk., 4 m. at \$2,622....	2,584 00	Schieman, W., auto mechanic, 12 m. at \$1,482, less \$741 paid from Forest Service Vote.....	741 00
Villeneuve, E. J., prin. map drafts- man.....	2,565 00	Shore, G. R., clk., gr. 4.....	1,824 00
Wade, B. V., sten., gr. 2.....	1,254 00	Thomson, M. M., astronomer, gr. 1....	2,052 00
Walker, E. W., prin. clk.....	2,166 00	Walker, J. M., instrument maker, gr. 2.	1,824 00
Ward, E. M., sten., gr. 2, 12 n. at \$1,311, less 11 d.....	1,272 23	Weskett, P. C., investigator, N.D., gr. 1, 8 m., sr. draftsman, 4 m.....	2,052 00
Wardle, J. M., deputy minister, 8 m. at \$7,600, director of surveys and engineering branch, 4 m. at \$7,125....	7,441 64		
Waugh, B. W., surveys eng., gr. 4.....	3,249 00	TEMPORARY EMPLOYEES	
White, A. I., sten., gr. 2.....	1,311 00	PERSONNEL TEMPORAIRE	
Wight, E. J., surveys eng., gr. 2.....	2,565 00	Turner, A. W., head clk., 7 m. to Oct. 31 at \$2,394, less 1½ d.....	1,386 52
Wilkinson, P., prin. clk.....	2,280 00		34,693 52
Williamson, F. H. H., deputy comm., Dom. Parks, 8 m. at \$4,389, controller, national parks, 4 m. at \$4,560.....	4,446 00	Vote — Crédit 140—Topographical	
Woggan, F. H. W., confidential mes- senger.....	1,254 00	and Air Surveys — Levés topo-	
Wright, E. A., clk., gr. 4.....	1,824 00	graphiques et photographies	
Wright, W. A., clk., gr. 3.....	1,539 00	par avion	
York, E. A., sten., gr. 3, 6 m. at \$1,311, 6 m. at \$1,368.....	1,339 50	PERMANENT EMPLOYEES	
	523,197 37	PERSONNEL PERMANENT	
		Applebaum, R., sten., gr. 1, 4 m. to Mar. 31 at \$720.....	240 00
		Avery, H. G. L., litho. press feeder....	1,482 00
		Bott, C., map draftsman.....	1,710 00
		Browne, E. F., surveys eng., gr. 3, 6 m. at \$2,907, 6 m. at \$3,021.....	2,964 00

MINES AND RESOURCES—MINES ET RESSOURCES

Salaries at Ottawa	Amount	Traitements à Ottawa	Montant
INTERIOR—Con. — INTÉRIEUR—Suite		Vote — Crédit 141—Geodetic Survey, Investigations, Reconnaissance, etc.—Recherches, reconnaissances, levés géodésiques, etc.	
Vote — Crédit 140—Topographical and Air Surveys—Conc. — Levés topographiques et photographies par avion—Fin		PERMANENT EMPLOYEES PERSONNEL PERMANENT	
PERMANENT EMPLOYEES—Conc. PERSONNEL PERMANENT—Fin			
Burchill, R. J., litho. press feeder, Mar. 8 to 31 at \$1,254.....	\$ 80 90	Barton, H. M., office eng.....	\$ 3,078 00
Carnochan, D. E., clk., gr. 4.....	1,824 00	Berry, E. W., surveys eng., gr. 3.....	3,120 60
Carroll, J., surveys eng., gr. 2.....	2,565 00	Brabazon, C. H., surveys eng., gr. 2, 12 m. at \$2,565, less 110 d.....	1,787 33
Chartrand, D. E., surveys eng., gr. 2..	2,565 00	Clark, G. P. H., engineering clk.....	1,710 00
Cunningham, T. M. M., chief of litho. plant.....	2,679 00	Dalton, G. F., surveys eng., gr. 3.....	3,078 00
Donnelly, C. B. C., surveys eng., gr. 2..	2,565 00	Denneny, C. J., engineering clk., 8 m., clk., gr. 4, 4 m.....	1,710 00
Duncan, P. W., litho. press feeder, Mar. 8 to 31 at \$1,254.....	80 90	Dennis, T. C., surveys eng., gr. 3.....	3,078 00
Fletcher, W. A., surveys eng., gr. 4.....	3,249 00	Dennis, W. M., surveys eng., gr. 4.....	3,249 00
Fry, E. S., surveys eng., gr. 2.....	2,565 00	Dozois, L. O. R., surveys eng., gr. 3...	3,120 60
Gagnon, J., litho. printer.....	1,995 00	Fausett, H. S., sten., gr. 2, 8 m., clk., gr. 2, 4 m.....	1,311 00
Gammon, A. O., surveys eng., gr. 2.....	2,565 00	Fraser, D. J., surveys eng., gr. 3.....	3,078 00
Gorman, A. O., surveys eng., gr. 3.....	3,078 00	Gerard, E. G., sr. engineering clk.....	2,052 00
Gromoll, F. R., litho. press feeder, 4 m. to Mar. 31 at \$1,254.....	418 00	Hewitt, W. H., sr. engineering clk.....	2,052 00
Hollingworth, H., clk., gr. 3.....	1,539 00	Kelly, H. K., sten., gr. 3.....	1,539 00
Hunt, S., surveys eng., gr. 2.....	2,565 00	Kerrigan, C., clk., gr. 2, 8 m., sten., gr. 2, 4 m.....	1,200 00
Jackson, W. T., litho. printer.....	1,995 00	Kihl, H. B., surveys eng., gr. 3.....	3,078 00
Kane, P. T., litho. press feeder.....	1,482 00	Kihl, J. H., surveys eng., gr. 2.....	2,565 00
Keaney, J. J., deptl. printer.....	1,710 00	Lawrence, C. A. R., surveys eng., gr. 2..	2,565 00
Kellett, G. A., litho. transferrer and prover, 4 m. to Mar. 31 at \$1,767....	589 00	MacTavish, W. H., surveys eng., gr. 3.....	3,078 00
Kerr, C., litho. press feeder.....	1,482 00	McCallum, G. H., surveys eng., gr. 4.....	3,249 00
Kirwan, G. L., asst. office eng.....	2,451 00	McMillan, D., surveys eng., gr. 2.....	2,565 00
McCracken, A., clk., gr. 2.....	1,405 92	Medlen, E. M., surveys eng., gr. 2.....	2,565 00
MacDonald, C. S., surveys eng., gr. 3..	3,120 60	Menzies, J. W., surveys eng., gr. 3.....	3,078 00
Melling, W. R., litho. artist engraver..	2,109 00	Montgomery, R. H., surveys eng., gr. 5.....	3,534 00
Palmer, P. E., surveys eng., gr. 4.....	3,249 00	Moulton, H. P., surveys eng., gr. 3.....	3,078 00
Patterson, J. H., surveys eng., gr. 2.....	2,565 00	Murdie, W. C., surveys eng., gr. 3.....	3,078 00
Perry, A. M., surveys eng., gr. 2.....	2,565 00	Ney, C. H., surveys eng., gr. 3.....	3,078 00
Probert, S. W., process worker.....	2,679 00	Phillip, J. M., sten., gr. 3.....	1,539 00
Riley, T., chauffeur.....	1,368 00	Raley, G. S., surveys eng., gr. 2.....	2,565 00
Rogers, A. L., sr. photographer.....	2,109 00	Reid, F. B., supervisor of levelling, 8 m., surveys eng., gr. 4, 4 m.....	3,249 00
Segre, B. H., surveys eng., gr. 3.....	3,120 60	Riddell, J. M., surveys eng., gr. 3.....	3,078 00
Stephens, F., clk., gr. 3.....	1,539 00	Robb, K. H., surveys eng., gr. 2.....	2,565 00
Taggart, C. H., surveys eng., gr. 4.....	3,249 00	Robertson, W. G., engineering clk., 8 m., clk., gr. 4, 4 m.....	1,710 00
Wilkins, E. A., clk., gr. 3.....	1,482 00	Ratz-Ross, J. E., surveys eng., gr. 4...	3,249 00
TEMPORARY EMPLOYEES PERSONNEL TEMPORAIRE		Sabourin, L., housekeeper.....	1,140 00
Applebaum, R., sten., gr. 1, 8 m. to Nov. 30 (now permanent).....	480 00	Sinclair, G. E. B., surveys eng., gr. 3, 8 m. at \$3,078, investigator, gr. 4, 4 m. at \$3,135.....	3,097 00
Gromoll, F. R., litho. press feeder, 8 m. to Nov. 30 (now permanent).....	836 00	Smallwood, F. M. S., sten., gr. 1.....	1,020 00
Kellett, G. A., litho. press feeder, 8 m. to Nov. 30 (now permanent).....	1,178 00	Smith, N. H., surveys eng., gr. 3.....	3,078 00
	79,493 92	Steers, F. P., surveys eng., gr. 3.....	3,078 00
Vote — Crédit 140—Board of Examiners for Dominion Land Surveyors, Fees, etc.—Examen des arpenteurs de l'État: honoraires, etc., des membres du jury		Wadlin, L. N., surveys eng., gr. 3.....	3,078 00
PERMANENT EMPLOYEES PERSONNEL PERMANENT		Westland, C. R., surveys eng., gr. 3....	3,078 00
Cote, J. A., secretary, 28 d.....	133 00	Woodruff, B. J., surveys eng., gr. 2.....	2,565 00
Parry, H., member, 28 d.....	199 50	108,763 53	
Peters, F. H., member, 28 d.....	199 50	Votes — Crédits 142 & 432—Survey and Demarcation of International Boundaries—Levés et délimitation des frontières	
Tobey, W. M., member, 28 d.....	199 50	PERMANENT EMPLOYEES PERSONNEL PERMANENT	
	731 50	Chisholm, D. F., surveys eng., gr. 2...	2,565 00
		Ingersoll, J. N., surveys eng., gr. 1....	2,052 00
		Jones, A. E., sten., gr. 2.....	1,311 00

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

Salaries at Ottawa	Amount	Traitements à Ottawa	Montant
INTERIOR—Con. — INTÉRIEUR—Suite		Leetham, M., sten., gr. 3.....	\$ 1,596 00
Votes — Crédits 142 & 482—Survey and Demarcation of International Boundaries—Conc. — Levés et délimitation des frontières—Fin		Logan, B. M., sten., gr. 2.....	1,311 00
PERMANENT EMPLOYEES—Conc. PERSONNEL PERMANENT—Fin		MacDonald, R. D. M., asst. eng.....	2,565 00
Mussell, H. S., surveys eng., gr. 3.....	\$ 3,078 00	Rinfret, C., surveys eng., gr. 4.....	3,249 00
Pounder, J. A., surveys eng., gr. 5, 8 m., eng. to the International Boundary Commission, 4 m.....	3,534 00	Roe, K., sten., gr. 3.....	1,539 00
Prinsep, G. T., surveys eng., gr. 3.....	3,078 00	Sarault, H. M. O., office boy.....	660 00
	15,618 00	Starrs, A. F., sten., gr. 3.....	1,539 00
		Stevenson, B. C., clk., gr. 4.....	1,824 00
		Taylor, L. B. T., asst. office eng.....	2,451 00
		TEMPORARY EMPLOYEES PERSONNEL TEMPORAIRE	
		Bilodeau, A., sten., gr. 1.....	720 00
		Chatterton, S. A., sten., gr. 1.....	720 00
		McGill, M. E., sten., gr. 1.....	720 00
			39,675 00
Votes — Crédits 169 & 493—Government of Northwest Territories: Salaries and Expenses — Administration des Territoires du Nord-Ouest: Traitements et dépenses		Vote — Crédit 172—Advancement of Forest Conservation — Encouragement à la conservation des forêts	
PERMANENT EMPLOYEES PERSONNEL PERMANENT		PERMANENT EMPLOYEES PERSONNEL PERMANENT	
Becker, V. G., sten., gr. 2.....	1,254 00	Atwell, E. A., forest products asst., gr. 2.....	2,052 00
Christie, D. H., head clk., 3 m. at \$2,622, 9 m. at \$2,736.....	2,707 50	Barling, W. J., clk., gr. 3.....	1,539 00
Cumming, A. L., supt. Mackenzie Dist., N.W.T., and secy. Yukon affairs, 4 m. to Mar. 31 at \$4,389.....	1,463 00	Bayley, E. M., clk., gr. 3.....	1,539 00
Dowdall, O. K., sten., gr. 2, 12 m. at \$1,311, less 83 d.....	1,014 96	Beall, H. W., asst. in forest surveying, 8 m. at \$1,368, forestry eng., gr. 1, 4 m. at \$1,710.....	1,482 00
Gleeson, H. G., library asst.....	1,200 00	Belec, J. H., clk., gr. 4.....	1,824 00
Graham, M. L., clk., gr. 2.....	1,311 00	Brophy, M. J., forest products eng., gr. 3.....	3,078 00
MacDonell, J. L. C., clk., gr. 3.....	1,539 00	Burke, A. O., clk., gr. 1, 4 m. to Mar. 31 at \$720.....	240 00
McDonald, M. J., sten., gr. 1.....	900 00	Burnett, K. E., forest asst., gr. 2.....	1,710 00
Phillips, E. M., prin. clk.....	2,280 00	Charlebois, J. C., forest products asst., gr. 1.....	1,710 00
Richards, J. P., head clk.....	2,736 00	Colleary, M. J., forest products asst., gr. 2.....	2,052 00
	16,405 46	Craig, R. D., forestry eng., gr. 6.....	3,819 00
		Dickson, J. R., forestry eng., gr. 3.....	2,850 00
		Druce, E., forestry eng., gr. 2.....	2,565 00
		Edey, R. K., clk., gr. 4.....	1,824 00
		Evans, M. P., clk., gr. 4, Apr. 1 to Aug. 2 at \$1,710 (retired).....	579 19
		Fellows, E. S., forest products asst., gr. 2, 3 m. at \$1,938, 5 m. at \$2,052, forest products eng., gr. 1, 4 m. at \$2,109.....	2,042 50
		Foster, G. C. L., sr. engineering clk., 6 m. at \$1,710, 6 m. at \$1,824.....	1,767 00
		Fritz, C. W., forest products eng., gr. 2.....	2,736 00
		Gorman, P. A., office eng.....	3,078 00
		Greaves, C., forest products eng., gr. 1, 6 m. at \$2,109, 6 m. at \$2,223.....	2,166 00
		Hale, J. D., forest products eng., gr. 3.....	3,078 00
		Harkom, J. F., forest products eng., gr. 4.....	3,306 00
		Harrison, J. D. B., forestry eng., gr. 2.....	2,565 00
		Jacombe, F. W. H., editor, gr. 1, 8 m., librarian, 4 m.....	2,394 00
		Kennelly, C. M., sten., gr. 2.....	1,311 00
		Kuhn, O., sten., gr. 2.....	1,311 00
		Lanouette, E. J., carpenter.....	1,486 95
		Leclair, W. J., forest products eng., gr. 4.....	3,306 00
Vote — Crédit 172—Dominion Lands, Seed, Grain, and Ordnance, Admiralty and Public Lands, Salaries and Expenses — Grains de semences, terres domaniales, militaires de l'artillerie et publiques: Traitements et dépenses			
PERMANENT EMPLOYEES PERSONNEL PERMANENT			
Aylen, F., sten., gr. 2.....	1,311 00		
Bracken, T. F., prin. clk.....	2,280 00		
Christie, F. L., agent D.L., gr., gr. 1, Apr. 1 to 30 at \$2,736 (deceased).....	228 00		
Clifford, T., prin. clk.....	2,280 00		
Craig, M. A. J., clk., gr. 4.....	1,824 00		
Cram, A. S., office eng.....	3,078 00		
Douglas, R. G., clk., gr. 4.....	1,824 00		
Fagan, T. E., clk., gr. 4.....	1,824 00		
Gresley, W. H., clk., gr. 4.....	1,824 00		
Hamilton, N. M., clk., gr. 3.....	1,539 00		
Hill, H., clk., gr. 4.....	1,824 00		
Landry, K. M. E., sten., gr. 1, 3 m. at \$840, 5 m. at \$900, gr. 2, 4 m. at \$1,080.....	945 00		

MINES AND RESOURCES—MINES ET RESSOURCES

Salaries at Ottawa	Amount	Traitements à Ottawa	Montant
INTERIOR—Con. — INTÉRIEUR—Suite		Vote — Crédit 172—Surveys and Investigations of Water and Power Resources, etc. — Levés et investigations des forces hydro-électriques du Canada	
Vote — Crédit 172—Advancement of Forest Conservation—Conc. — Encouragement à la conservation des forêts—Fin		PERMANENT EMPLOYEES PERSONNEL PERMANENT	
PERMANENT EMPLOYEES—Conc. PERSONNEL PERMANENT—Fin			
MacDonald, D. A., forest products eng., gr. 5, 8 m. at \$3,534, asst. Dom. forester, 4 m. at \$3,319.....	\$ 3,629 00	Appleton, A. T., draftsman.....	\$ 1,710 00
Marriott, F. G., asst. chemist.....	2,565 00	Beck, J. A., depl. printer.....	1,710 00
Matheson, J. I., library asst.....	1,311 00	Brown, W. L., sr. eng. clk.....	2,052 00
McCarthy, J. V., draftsman.....	1,710 00	Champness, A. H., sr. photographer..	2,109 00
McElhanney, T. A., supt. forest products lab., 8 m. at \$4,275, 4 m. at \$4,389.....	4,313 00	Cory, T. L., solicitor.....	4,104 00
Millett, R. S., forest products eng., gr. 1.....	2,565 00	Dawson, S. G., sr. asst. eng., 8 m., W. and P. eng., gr. 4, 4 m.....	3,135 00
Miskell, C. S., sr. map draftsman.....	2,052 00	Drake, R. L., jr. eng., 8 m., W. and P. eng., gr. 2, 4 m.....	2,052 00
Mulloy, G. A., forest products eng., gr. 3.....	2,850 00	Hall, J., cartographer, 8 m., prin. draftsman, 4 m.....	2,451 00
Potter, G. R. L., clk., gr. 4.....	1,824 00	Jones, G. E., prin. draftsman.....	2,565 00
Prince, J. B., forest asst., gr. 2, 8 m., asst. in forestry and lab. research, 4 m.....	1,368 00	Marr, N., hydraulic eng., 8 m., sr. hydraulic eng., 4 m.....	4,104 00
Randall, D. A., sten., gr. 2.....	1,311 00	Matheson, A. J., sr. eng., Dom. Power Board.....	4,389 00
Rattray, B. A., clk., gr. 2, 4 m. to Mar. 31 at \$1,080.....	360 00	McDermott, M. G., sten., gr. 2.....	1,311 00
Riddell, M., messenger, 4 m. to Mar. 31 at \$900.....	300 00	McEwen, G. G., asst. power development eng., 8 m., W. and P. eng., gr. 3, 4 m.....	2,565 00
Robertson, W. M., forest products eng., gr. 5, 8 m. at \$3,534, gr. 6, 4 m. at \$3,591.....	3,553 00	Meek, V. M., asst. director, Dom. W.P. and H. Bureau, 8 m., asst. controller, Dom. W. and P. Bureau, 4 m.....	4,674 00
Rochester, G. H., forest products eng., gr. 4.....	3,306 00	Murison, T. B., clk., gr. 2.....	1,311 00
Rosser, G. L., forest products asst., gr. 2.....	2,052 00	Roger, A., asst. power development eng., 8 m., W. and P. eng., gr. 3, 4 m.....	2,565 00
Schieman, W. M., auto-mechanic, 12 m. at \$1,482, less \$741 paid by Dom. Observatory.....	741 00	Sim, J., sr. map draftsman, 4 m. to Mar. 31 at \$1,710.....	570 00
Seely, H. E., forest products eng., gr. 2.....	2,565 00	Spence, M. M., sten., gr. 3.....	1,539 00
Simpson, H. V., clk., gr. 3.....	1,539 00	Starratt, H. J., clk., gr. 4.....	1,824 00
Slade, M. D. P., sten., gr. 1, 4 m. to Mar. 31 at \$720.....	240 00	Strome, I. R., W.P. and H. eng., 8 m., W. and P. eng., gr. 5, 4 m.....	3,534 00
Steers, L. M., depl. librarian, gr. 2.....	1,539 00	Wimberley, A. C., asst. eng., 8 m., W. and P. eng., gr. 3, 4 m.....	2,565 00
Summers, J. W., sr. photographer.....	2,109 00	TEMPORARY EMPLOYEES PERSONNEL TEMPORAIRE	
Wakefield, W. E., forest products eng., gr. 1.....	2,565 00	Boyd, F. M., sten., gr. 1.....	720 00
Wright, J. G., asst. office eng., 8 m. at \$2,451, office eng., 4 m. at \$2,508.....	2,470 00	Brown, K. S., sten., gr. 1, 1 m. at \$720.....	60 00
TEMPORARY EMPLOYEES PERSONNEL TEMPORAIRE		Sim, J., sr. map draftsman, 8 m. to Nov. 30 at \$1,710.....	1,140 00
Bianco, A. M., sten., gr. 1, July 2 to Mar. 31 at \$720, less $\frac{1}{4}$ d.....	537 09	Vote — Crédit 172—Lake of the Woods Control Board — Commission de contrôle du lac des Bois	
Burke, A. O., office boy, 8 m. at \$420.....	280 00	Grace, J. L., sr. engineering clk.....	2,052 00
Lazenby, W., machinists helper.....	1,199 28	Votes — Crédits 172 & 495—Canadian National Parks — Parcs nationaux du Canada	
Loomis, R. D., asst. in forest and lab. research, Apr. 1 to 15, May 11 to 31 at \$840.....	82 42	PERMANENT EMPLOYEES PERSONNEL PERMANENT	
Lowe, C. J., forest asst. gr. 1, \$1,083, house allowance, \$136.80.....	1,219 80	Abercrombie, J. D., clk., gr. 4.....	1,824 00
Richards, W. A., map draftsman.....	1,425 00	Bastien, J. A., investigator, N.D., gr. 2, 8 m., investigator, gr. 2, 4 m.....	2,565 00
Slade, M. D. P., sten., gr. 1, 8 m. at \$720.....	480 00	Bateman, A. E., head clk.....	2,850 00
Vaillancourt, J., carpenter.....	1,415 80		
	114,887 03		

DETAILS OF EXPENDITURE—*Con.*—DÉTAIL DES DÉPENSES—*Suite*

Salaries at Ottawa	Amount	Traitements à Ottawa	Montant
INTERIOR—<i>Con.</i> — INTÉRIEUR—<i>Suite</i>			
Votes — Crédits 172 & 495—Canadian National Parks—<i>Conc.</i> — Parcs nationaux du Canada—<i>Fin</i>			
PERMANENT EMPLOYEES—<i>Conc.</i> PERSONNEL PERMANENT—<i>Fin</i>			
Bingleman, C. E., sten., gr. 3, 8 m. at \$1,482, clk., gr. 4, 4 m. at \$1,653	\$ 1,539 00	Smart, J., asst. controller and chief inspector, National Parks, 4 m. to Mar. 31 at \$3,819	\$ 1,273 00
Brace, W., clk., gr. 4	1,824 00	Sparks, N. A., sr. draftsman, 8 m. at \$2,052, asst. eng., 4 m. at \$2,109	2,071 00
Bray, M. E., sten., gr. 1	900 00	Sparks, N. C., supervisor, timber protection	2,280 00
Browne, J. C., clk., gr. 4	1,710 00	Squire, R. L., asst. office eng., 8 m., asst. eng., 4 m.	2,451 00
Bryan, G. W., prin. clk.	2,280 00	Stinson, J. N., sr. asst. eng., 8 m. at \$3,135, super. eng., 4 m. at \$3,249	3,173 00
Byrne, J. H., sr. asst. eng.	3,021 00	Thomas, A. S. sr. engineering clk., 8 m. at \$2,052, asst. eng., 4 m. at \$2,109	2,071 00
Calderhead, W. G., draftsman, 12 m. at \$1,710, less 1 d.	1,705 16	Warner, H. C., machinist foreman, 8 m. at \$2,660, deptl. purchasing agt., gr. 2, 4 m. at \$2,679	2,666 28
Campbell, J. C., director of publicity	3,534 00	Willimott, E. G., clk., gr. 2, 8 m. at \$1,368, gr. 3, 4 m. at \$1,425	1,387 00
Caron, F. G., draftsman, 12 m. at \$1,653, less 1½ d.	1,646 19	Wilson, G. E., clk., gr. 2, 12 m. at \$1,311, less 9 d.	1,279 22
Cautley, R. W., surveys eng., gr. 3, 8 m. at \$3,120.75, insp. of national parks and historic sites, 4 m. at \$3,135	3,125 40	TEMPORARY EMPLOYEES PERSONNEL TEMPORAIRE	
Cook, E. I., sten., gr. 2	1,311 00	Bateman, A., clk., gr. 1, 10 m. at \$720	600 00
Cory, W. M., asst. solicitor, 8 m. at \$3,819, solicitor, 4 m. at \$4,104	3,914 00	Brown, K. S., sten., gr. 1, 11 m. at \$720	660 00
Cromarty, W. D., sr. asst. architect, 8 m. at \$2,964, supt. of historic sites and landscaping, 4 m. at \$3,135	3,021 00	Devitt, E. M., sten., gr. 1, 12 m. at \$720, less 2½ d.	715 00
Crown, E. M., clk., gr. 3	1,539 00	Graves, M. E., artist (lantern slides), 12 m. at \$720, less 8½ d.	703 55
Daoust, C. S. A., clk., gr. 2	1,368 00	Kilmury, B. D., sten., gr. 1	720 00
Dea, M. L., clk., gr. 3	1,596 00	Krantzberg, M., clk., gr. 1, Mar. 20 to 31 at \$720	23 23
Denison, R. E., clk., gr. 4	1,710 00		106,744 64
Dillon, M. A., clk., gr. 2	1,311 00	Votes — Crédits 172 & 495—Migratory Birds Convention Act — Loi de la convention concernant les oiseaux migrateurs	
Dove, C. H., clk., gr. 3, 8 m. at \$1,596, gr. 4, 4 m. at \$1,710	1,634 00	PERMANENT EMPLOYEES PERSONNEL PERMANENT	
Dudley, J., asst. archivist, 3 m. to Mar. 31 at \$2,337	584 25	Beall, G. H. E., clk., gr. 1	1,020 00
Durie, W. A., draftsman	1,710 00	Carnochan, G. A., clk., gr. 4	1,824 00
Durocher, E. J., clk., gr. 4	1,824 00	Kealy, M. L., clk., gr. 2	1,311 00
Evoy, A. L. J., sten., gr. 2	1,311 00	Lloyd, H., supervisor of wild life protection, 8 m. at \$3,249, supt. of wild life protection, 4 m. at \$3,306	3,268 00
Gibson, M. L., sten., gr. 3	1,539 00	Lowry, A. L., sten., gr. 2	1,311 00
Graham, A. E., clk., gr. 4	1,824 00	TEMPORARY EMPLOYEES PERSONNEL TEMPORAIRE	
Hawkins, L. A., clk., gr. 3	1,482 00	Bourguignon, M. L. P., sten., gr. 1, Jan. 20 (noon) to Mar. 31 at \$720	142 26
Heaslip, T. S. H., prin. clk.	2,280 00		8,876 26
Horsey, G. F., hydraulic eng., 8 m., sr. asst. eng., 4 m.	3,135 00	Vote — Crédit 172—Revenue Staff—Perceptions	
Johnston, F. R., office boy, 8 m. at \$660, clk., gr. 1, 4 m. at \$720	680 00	*PERMANENT EMPLOYEES PERSONNEL PERMANENT	
LeBelle, C. A., clk., gr. 1, 8 m. at \$900, gr. 2, 4 m. at \$1,080	960 00	Eyles, J., clk., gr. 4	1,824 00
Love, G. A., clk., gr. 4	1,824 00	Jackson, L. A., clk., gr. 2	1,311 00
MacDonald, M. B., clk., gr. 3	1,539 00	Learmonth, T. F., clk., gr. 4	1,824 00
McKay, R. H., head chauffeur	1,653 00	Lee, H. A. L., clk., gr. 4	1,824 00
McRae, D. C., sten., gr. 2	1,311 00	Neville, P. V., deptl. acct., gr. 2	2,565 00
Mills, T. S., asst. chief eng., 8 m. at \$3,534, chief eng., 4 m. at \$4,389	3,819 00		9,348 00
Moore, G. M., sten., gr. 2	1,254 00	* Transferred to Office of the Comptroller of the Treasury, Sept. 10, 1936, but charged to this Vote for 1936-37.	
Mousseau, G. B., artist, lantern slides, gr. 2	1,254 00		
Neil, A., chauffeur	1,368 00		
Rigby, J. A., motion picture projector, 8 m., clk., gr. 4, 4 m.	1,653 00		
Robertson, J. R., M., sten., gr. 2	1,200 00		
Savard, J. H. E., clk., gr. 2, 8 m. at \$1,200, gr. 3, 4 m. at \$1,311	1,237 00		
Scott, E. C., clk., gr. 3	1,482 00		
Shea, J. J., prin. clk., 3 m. to June 30 at \$2,052 (deceased)	513 00		
Sherwood, D. H., clk., gr. 2, 12 m. at \$1,311, less 1 d.	1,307 36		

MINES AND RESOURCES—MINES ET RESSOURCES

Salaries at Ottawa	Amount	Traitements à Ottawa	Montant
INTERIOR—Conc. — INTÉRIEUR—Fin		Anderson, R. M., chief division of biology.....	
Vote — Crédit 172—Payment of Retiring Leave to Officials other than those on Civil Government — Pour le paiement d'une gratification de départ aux fonctionnaires ne ressortissant pas au Gouvernement civil		Badger, S. R. M., jr. chemist.....	
PERMANENT EMPLOYEES		Baltzer, C. E., eng., mines, gr. 3.....	
PERSONNEL PERMANENT		Barbeau, C. M., ethnologist.....	
Jodoin, R., clk., gr. 3, Nov. 1 to Jan. 21 at \$1,596 (retired).....	\$ 356 10	Barrowman, G. D., custodian and adjuster of surveying equipment....	2,280 00
Morton, B. R., forestry eng., gr. 3, Apr. 1 to July 23 at \$2,850 (retired).....	888 71	Beer, H. L., asst. chemist, 8 m., eng., gr. 2, 4 m.....	2,451 00
	1,244 81	Bell, W. A., palacobotanist, 8 m. at \$4,218, geologist, 4 m. at \$4,389.....	4,275 00
Vote — Crédit 325—Forest Service—Development of Experimental Stations and Forestry Research—forestiers—Stations d'expérimentations et de recherches		Bentley, W. K., museum asst.....	1,596 00
TEMPORARY EMPLOYEES		Bolton, L. L., asst. deputy minister, Mines Dept., 8 m., general executive asst., Mines and Geology Branch, 4 m.....	4,959 00
PERSONNEL TEMPORAIRE		Bostock, H. S., assoc. geologist, 6 m. at \$2,565, 6 m. at \$2,736.....	2,650 50
Buell, A. F., asst. in forestry and lab. research, June 8 to Mar. 31 at \$1,440.....	1,172 00	Boyd, W. H., chief topographical eng., 8 m. at \$4,389, 4 m. at \$4,560.....	4,446 00
Coleman, J. R. B., labourer, 296 hours at 45c., asst. in forestry and lab. research, 10 m. to Mar. 31 at \$1,200.....	1,133 20	Brousseau, L., clk., gr. 2.....	1,200 00
Daly, A., carpenter, 924 hours at 70c.....	646 80	Brown, M. G., photographer, 2 m. to May 31 at \$1,710 (resigned).....	285 00
Hogg, H. D., asst. in forestry and lab. research, June 2 to Sept. 30 at \$1,020.....	337 17	Buisson, G. J. A., eng., mines, gr. 3.....	3,135 00
Lieff, M., asst. in forestry and lab. research, 4 m. to Sept. 30 at \$1,020.....	340 00	Burrough, E. J., eng., mines, gr. 3.....	3,021 00
Loomis, R. G., asst. in forestry and lab. research, June 26 to Mar. 31 at \$1,440.....	1,100 00	Butterworth, J. V., topographical eng.....	2,964 00
Rattray, B. A., clk., gr. 2, June 25 to Nov. 30 at \$1,080, less 2 d.....	462 19	Cairnes, C. E., geologist, 6 m. at \$3,534, 6 m. at \$3,705.....	3,619 50
Walker, J. F., asst. in forestry and lab. research, June 1 (noon) to Mar. 31 at \$1,020.....	848 58	Cameron, H. F., clk., gr. 3.....	1,596 00
White, L. T., asst. in forestry and lab. research, 10 m. to Mar. 31 at \$1,020.....	850 00	Carnochan, R. K., eng., mines, gr. 4.....	3,819 00
Woolsey, C. M., asst. in forestry and lab. research, June 8 to Mar. 31 at \$1,440.....	1,172 00	Carr, J. J., sr. map draftsman.....	2,052 00
Wright, B., asst. in forestry and lab. research, June 16 to Mar. 31 at \$1,440.....	1,140 00	Casey, J. M., statistician.....	3,078 00
Various labourers.....	694 39	Chantler, H. M., chemist.....	3,135 00
	9,396 33	Chipman, K. G., surveys eng., gr. 4, 8 m. at \$3,249, gr. 6, 4 m. at \$3,420.....	3,306 00
MINES		Clark, A. F., sr. copper plate map engraver.....	2,508 00
Vote — Crédit 16—Civil Government Salaries — Gouvernement civil: Traitements		Clarke, G. G., chief photographer.....	3,021 00
PERMANENT EMPLOYEES		Cockfield, W. E., geologist.....	4,389 00
PERSONNEL PERMANENT		Cole, L. H., eng., mines, gr. 4.....	3,819 00
Ainsborough, A., asst. editor.....	1,824 00	Collin, L. P., eng., mines, gr. 3.....	3,135 00
Alcock, F. J., geologist.....	4,389 00	Collins, W. H., director, geological survey, 8 m., chief geological consultant, 2 m. to Jan. 31, at \$5,130 (deceased).....	4,275 00
Alexander, S. G., prin. map draftsman, 8 m. at \$2,736, geographer, gr. 2, 4 m. at \$2,793.....	2,755 00	Connell, G. F., eng., mines, gr. 2, Apr. 1 to Dec. 10 at \$2,565 (resigned).....	1,778 95
Anderson, A. K., eng., mines, gr. 3, 8 m. at \$3,135, gr. 4, 4 m. at \$3,306.....	3,192 00	Cooke, H. C., geologist.....	4,389 00
		Cornish, R. W., jr. chemist, 2 m. at \$1,938, asst. chemist, 10 m. at \$2,109.....	2,080 50
		Cox, A., clk., gr. 1.....	1,234 92
		Coyne, B. P., chemist.....	3,021 00
		Darcy, R. V., sten., gr. 2, 3 m. at \$1,200, less 3 d., 9 m. at \$1,254.....	1,230 50
		Doughtry, G. S., map draftsman.....	1,539 00
		Davidson, B. R., sten., gr. 2.....	1,311 00
		Dear, A. E., clk., gr. 3, 3 m. at \$1,482, 9 m. at \$1,539.....	1,524 75
		Dessaint, J. C., engineering clk.....	1,710 00
		Dickinson, A., chief, drafting and reproducing division, 8 m. at \$3,534, 4 m. at \$3,591.....	3,553 00
		Eardley-Wilmot, V. L., eng., mines, gr. 3.....	3,135 00
		Edwards, E. M., clk., gr. 4, 8 m. at \$1,824, prin. clk., 4 m. at \$1,938.....	1,862 00
		Elliott, G. L., typist, gr. 2.....	1,254 00
		Ells, S. C., eng., mines, gr. 4.....	3,819 00
		Ellsworth, H. V., mineralogist.....	4,218 00
		Evans, C. S., assoc. geologist.....	3,078 00
		Fabry, R. J. C., chemist.....	3,135 00
		Farnham, M. M., secy., Bureau of Mines.....	2,850 00
		Fletcher, M. C., insp. of explosives.....	3,249 00

DETAILS OF EXPENDITURE—*Con.*—DÉTAIL DES DÉPENSES—*Suite*

Salaries at Ottawa	Amount	Traitements à Ottawa	Montant
MINES— <i>Con.</i> — <i>Suite</i>			
Vote — Crédit 16—Civil Government			
Salaries—<i>Con.</i>—Gouvernement civil: Traitements—<i>Suite</i>			
PERMANENT EMPLOYEES— <i>Con.</i> PERSONNEL PERMANENT— <i>Suite</i>			
Flood, W. J., sr. map draftsman	\$ 2,052 00	Leverin, H. A., chemist, 8 m., eng., mines, gr. 3, 4 m.	\$ 3,135 00
Forsey, F. E., depl. librarian, gr. 3	2,109 00	Leworthy, G. E., sr. lab. asst.	1,653 00
Fortin, J. O., sr. map draftsman	2,052 00	Lister, M. M., special typist, gr. 3, Apr. 1 to 2 at \$1,596 (retired)	8 87
Fraser, F. J., jr. eng.	2,052 00	Loux, J. M., asst. editor	2,052 00
Frechette, H., chief, division of ceramics and road materials, 8 m. at \$4,389, chief, division of industrial minerals, 4 m. at \$4,560	4,446 00	Lyons, R. E., clk., gr. 2	1,519 92
Freeman, C. H., eng., mines, gr. 2	2,565 00	Mabee, H. C., chief chemist, division of ore dressing and metallurgy, 8 m., chief chemist, division of metallic minerals, 4 m.	3,591 00
Furlong, L. G., clk., gr. 2	1,311 00	Macdonald, J. A., topographical eng.	3,078 00
Gilmore, R. E., supt., fuel testing lab., 8 m. at \$3,819, eng., mines, gr. 5, 4 m. at \$3,876	3,838 00	MacGregor, G. C., prin. clk.	2,280 00
Godwin, M. W., clk., gr. 4	1,767 00	Mackay, B. R., geologist	4,389 00
Goodman, E. F., museum asst.	1,596 00	Maddox, D. C., assoc. geologist	3,249 00
Goudge, M. F., eng., mines, gr. 3, 8 m. at \$3,135, gr. 4, 4 m. at \$3,306	3,192 00	Malcolm, W., compiler of geological information, 8 m. at \$3,420, asst. curator, National Museum, 4 m. at \$3,705	3,515 00
Gunning, H. C., assoc. geologist, 8 m. at \$3,249, geologist, 4 m. at \$3,534	3,344 00	Malloch, E. S., eng., mines, gr. 4	3,819 00
Haanel, B. F., chief, division of fuel testing, 8 m. at \$4,389, chief, division of fuels, 4 m. at \$4,560	4,446 00	Marshall, J. R., assoc. geologist	3,420 00
Hanson, G., geologist, 8 m. at \$4,218, asst. chief geologist, 4 m. at \$4,389	4,275 00	McCain, A., asst. photographer, 8 m. at \$1,311, photographer, 4 m. at \$1,368	1,330 00
Harrison, F. A. C., depl. purchasing agt., gr. 1	1,881 00	McCann, L. M., sten., gr. 3, 6 m. at \$1,482, 6 m. at \$1,539	1,510 50
Haultain, A. G., topographical eng., 8 m. at \$3,078, surveys eng., gr. 4, 4 m. at \$3,135	3,097 00	McClelland, W. R., eng., mines, gr. 2, 8 m. at \$2,565, gr. 3, 4 m. at \$2,679	2,603 00
Henderson, L. A., sten., gr. 2	1,311 00	McCree, J. S., jr. chemist, 8 m. at \$2,052, asst. chemist, 4 m. at \$2,109	2,071 00
Hinge, A. T., sr. map draftsman	2,052 00	McCullough, M. S., library asst.	1,200 00
Hume, G. S., geologist	4,389 00	McDonald, R. C., topographical eng.	3,078 00
Hutton, W. S., sr. photographer	2,109 00	McGregor, A., prin. map draftsman	2,736 00
Jenkins, W. S., eng., mines, gr. 1, 8 m. at \$2,052, gr. 2, 4 m. at \$2,109	2,071 00	McKay, A. S., special typist, gr. 3, Apr. 3 to Mar. 31 at \$1,539	1,530 45
Jenness, D., ethnologist, 8 m. at \$4,104, chief division of anthropology, 4 m. at \$4,275	4,161 00	McKeown, M. D., clk., gr. 1, 8 m. a \$960, gr. 2, 4 m. at \$1,080	1,000 00
Joanes, A., prin. map draftsman, 8 m. at \$2,736, geographer, gr. 2, 4 m. at \$2,793	2,755 00	McKinnon, L., sten., gr. 3	1,539 00
Johnson, C. E., artist	2,394 00	McLean, S. C., surveys eng., gr. 4	3,249 00
Johnston, J. D., eng., mines, gr. 2	2,451 00	McLearn, F. H., invertebrate palaeontologist, 8 m. at \$4,218, geologist, 4 m. at \$4,389	4,275 00
Johnston, W. A., geologist, 8 m., chief, water supply and borings section, 4 m.	4,389 00	McLeish, J., director, mines branch, 8 m. at \$5,130, director, mines and geology branch, 4 m. at \$7,125	5,795 00
Jolliffe, A. W., asst. geologist, 8 m. at \$2,109, assoc. geologist, 4 m. at \$2,565, less 1½ d.	2,249 55	McLeish, R. L., sr. lab. asst.	1,653 00
Juneau, E., map draftsman	1,710 00	Moffat, A. V., asst. editor	1,824 00
Kerr, F. A., assoc. geologist	3,420 00	Mohr, C. B., asst. chemist	2,565 00
Kindle, E. M., chief, division of palaeontology, 8 m., chief, palaeontological section, 4 m.	4,389 00	Monture, G. C., editor, gr. 3, 6 m. at \$2,964, 2 m. at \$3,078, chief editor, 4 m. at \$3,477	3,154 00
Laflamme, V., clk., gr. 1	1,234 92	Moran, J., asst. chemist, 8 m. at \$2,565, chemist, 4 m. at \$2,679	2,603 00
Lafrenière, D., clk., gr. 1	1,200 00	Moran, P. J., prin. clk., 8 m. at \$2,280, head clk., 4 m. at \$2,394	2,318 00
Laliberté, J. A., clk., gr. 2, 8 m., gr. 3, 4 m.	1,311 00	Nichol, E. L., typist, gr. 1	840 00
Lang, A. H., asst. geologist	2,451 00	Nichols, D. A., surveys eng., gr. 4	3,249 00
Leach, F. E., insp. of explosives	3,249 00	Nicoils, J. H. H., chemist	3,135 00
Leechman, J. D., sr. museum asst.	2,052 00	Norman, G. W. H., assoc. geologist, 8 m. at \$2,907, geologist, 4 m. at \$3,534	3,116 00
Lefebvre, J. S. H., prin. map draftsman	2,659 92	Norton, C. H., clk., gr. 3	1,539 00
		Offord, R. J., jr. chemist, 8 m. at \$2,052, asst. chemist, 4 m. at \$2,109	2,071 00
		Ogilvie, G., chief insp. of explosives	4,749 96
		Ogilvie, O. P. R., depl. librarian, gr. 3	2,109 00
		Orme, J., sten., gr. 3	1,596 00
		Quimet, R. E., relief map maker	1,938 00
		Parsons, C. S., eng., mines, gr. 4, 8 m. at \$3,819, chief division of metallic minerals, 4 m. at \$4,218	3,952 00
		Patch, C. L., chief taxidermist and herpetologist	2,679 00

MINES AND RESOURCES—MINES ET RESSOURCES

Salaries at Ottawa	Amount	Traitements à Ottawa	Montant
<i>MINES—Con.—Suite</i>			
Vote — Crédit 16—Civil Government			
Salaries—Conc. — Gouvernement			
vil: Traitements—Fin			
<i>PERMANENT EMPLOYEES—Conc.</i>			
<i>PERSONNEL PERMANENT—Fin</i>			
Pereira, L. H. S., sr. map draftsman, 8 m. at \$2,052, prin. map. draftsman, 4 m. at \$2,109.....	\$ 2,071 00	Tuttle, A. C., jr. topographical eng., 8 m. at \$2,166, surveys eng., gr. 2, 4 m. at \$2,223.....	\$ 2,185 00
Phillips, J. G., eng., mines, gr. 2.....	2,565 00	Viau, J. A., clk., gr. 2.....	1,234 92
Poitevin, E., chief, division of mineral- ogy, 8 m. at \$4,275, chief, mineral- ogical section, 4 m. at \$4,389.....	4,313 00	Vincent, W. M., deptl. purchasing agt., gr. 2.....	2,337 00
Ralph, M. S., clk., gr. 4.....	1,824 00	Wait, E. H., eng., gr. 2.....	2,565 00
Reardon, A. E., sten., gr. 3, 9 m. at \$1,311, 3 m. at \$1,368.....	1,325 25	Waite, A. V., process worker.....	2,337 00
Reid, M. F., library asst.....	1,254 00	Westwood, D., sr. map draftsman.....	2,052 00
Rice, H. M. A., asst. geologist, temp., Apr. 20 to Nov. 30, perm., Dec. 1 to Mar. 31, at \$2,109.....	1,997 69	White, W. E., eng., gr. 1.....	2,052 00
Richardson, F. H. B., museum asst.....	1,596 00	Wickenden, R. T. D., assoc. geologist.....	2,565 00
Rivington, J. A., sr. lab. asst., 2 m. at \$1,653, jr. chemist, 10 m. at \$1,710...	1,700 50	Wills, N. I., library asst.....	1,200 00
Robinson, A. H. A., eng., mines, gr. 4, 8 m. at \$3,819, chief, division of econ- omies, 4 m. at \$4,047.....	3,895 00	Wilson, A. E., asst. invertebrate pal- aeontologist, 8 m. at \$2,394, asst. geologist, 4 m. at \$2,451.....	2,413 00
Rogers, R. A., asst. chemist, 8 m. at \$2,565, chemist, 4 m. at \$2,679.....	2,603 00	Wilson, A. W. G., chief, division of mineral resources, 8 m. at \$4,389, chief technical consultant, 4 m. at \$4,560.....	4,446 00
Rosewarne, P. V., eng., mines, gr. 4...	3,819 00	Wilson, M. E., geologist.....	4,389 00
Rowsome, H. V., clk., gr. 3.....	1,539 00	Wintemberg, W. J., asst. archaeologist.....	2,394 00
Sadler, A., chemist.....	3,135 00	York, T. H., sten., gr. 2, 8 m., clk., gr. 3, 4 m.....	1,311 00
Salt, L. A., photographer.....	1,710 00	Young, C. H., collector-preparator spe- cialist, Apr. 1 to Feb. 10 at \$2,622 (retired).....	2,263 04
Sheppard, A. C. T., surveys eng., gr. 4, 8 m. at \$3,249, gr. 6, 4 m. at \$3,420...	3,306 00	Young, G. A., chief geologist.....	4,731 00
Skillen, J., museum asst., 12 m. at \$1,596, less $\frac{1}{2}$ d.....	1,593 85	Young, M. V., sten., gr. 2, 3 m. at \$1,254, 9 m. at \$1,311.....	1,296 75
Slinn, D. E., clk., gr. 2.....	1,311 00	Young, R. J., asst. chemist.....	2,451 00
Smith, H. I., archaeologist.....	4,104 00		505,167 14
Soulard, J. A. M., typist, gr. 2.....	1,200 00	<i>Less:—Refunded by Department of National Defence on account of ser- vices of G. Ogilvie.....</i>	1,979 15
Spence, H. N., topographical eng.....	2,964 00		503,187 99
Spence, H. S., eng., mines, gr. 4, 8 m. at \$3,819, gr. 5, 4 m. at \$3,876, less 1 m.....	3,515 00	Votes — Crédit 16 & 433—Civil Gov- ernment Contingences — Gouver- nement civil: Dépenses contingen- tes	
Spence, J. W., topographical eng.....	3,078 00	<i>TEMPORARY EMPLOYEES</i>	
Stafford, A. E. M., sten., gr. 2.....	1,311 00	<i>PERSONNEL TEMPORAIRE</i>	
Steeves, S. M., topographical eng.....	2,622 00	<i>Clerks, Typists and Stenographers, unless otherwise specified — Commis aux écri- tures, sténos et dactylos, sauf indication contraire; Gr. 1, \$720;—Gr. 2, \$1,080.</i>	
Sternberg, C. M., collector-preparator specialist.....	2,622 00	Blake, M. M., gr. 1, temp., 8 m., perm., 4 m.....	720 00
Stewart, D. M., research clk., gr. 2.....	2,394 00	Hornby, D., sten., gr. 3, temp., 8 m., perm., 4 m.....	1,311 00
Stockwell, C. H., assoc. geologist.....	3,249 00	McClelland, H. A., gr. 1, July 2 to 31.....	58 06
Stonehouse, K., sten., gr. 2, Apr. 1 to Dec. 18 at \$1,254 (retired).....	896 68	Scantland, F. L., gr. 1, Apr. 1 to 10....	20 00
Stotesbury, J., clk., gr. 2.....	1,311 00	Labourers at 45c. per hr.....	67 06
Strong, R. A., eng., mines, gr. 4.....	3,819 00		2,176 12
Swartzman, E., jr. chemist, 8 m. at \$2,052, eng., mines, gr. 2, 4 m. at \$2,109.....	2,071 00		
Swinerton, A. A., chemist, 8 m., eng., mines, gr. 3, 4 m.....	3,135 00	Vote — Crédit 152—For administra- tion of the Explosives Act (Chap. 62, R.S. 1927) — Frais d'application de la "Loi des Explosifs" (Ch. 62, S.R. 1927)	
Tanton, T. L., geologist.....	4,389 00	Consitt, A. A., typist, gr. 1, perm., Apr. 1 to Dec. 31 at \$720 (resigned).....	540 00
Taverner, P. A., ornithologist.....	4,104 00	Egan, W. J., temp. office boy, 8 m. at \$600, perm. clk., gr. 1, 4 m. at \$720..	640 00
Thompson, E. A., chemist, 11 m. to Feb. 28 at \$3,135 (deceased).....	2,873 75		1,180 00
Timm, W. B., chief, division of ore dressing and metallurgy, 8 m. at \$4,389, chief, bureau of mines, 4 m. at \$4,845.....	4,541 00		
Trail, R. J., eng., mines, gr. 4, 8 m. at \$3,819, gr. 5, 4 m. at \$3,876.....	3,838 00		

DETAILS OF EXPENDITURE—*Con.*—DÉTAIL DES DÉPENSES—*Suite*

Salaries at Ottawa	Amount	Traitements à Ottawa	Montant
MINES—<i>Con.</i>—<i>Suite</i>			
Vote — Crédit 153—Mines Branch — Mines			
PERMANENT EMPLOYEES PERSONNEL PERMANENT			
Bisson, L. F., lab. helper	\$ 720 00	Mercier, H., lab. asst.	\$ 1,311 00
*Bowles, K. W. T., student asst., 8 m. at \$1,368, eng., mines, gr. 1, 4 m. at \$1,710	1,482 00	Neate, F. G., secy., Dominion Fuel Board, 8 m. at \$3,819, 4 m. at \$4,275.	3,971 00
Burke, E. R., sten., gr. 2, 6 m. at \$1,080, 6 m. at \$1,140	1,110 00	O'Brian, C. L., eng., mines, gr. 3, 6 m. at \$2,679, 6 m. at \$2,793	2,736 00
Burstow, F. W., plant foreman	2,223 00	Pearse, W. H., watchman	1,200 00
Cairns, F. J., lab. asst.	1,311 00	Pelletier, A., clk., gr. 3, 3 m. at \$1,482, 9 m. at \$1,539	1,524 75
Campbell, W. P., asst. chemist, 8 m. at \$2,565, chemist, 4 m. at \$2,679	2,603 00	Pepper, F., sten., gr. 3	1,596 00
Coleman, J. J. C., sr. lab. asst., 6 m. at \$1,368, 6 m. at \$1,425	1,396 50	Picher, R. H., eng., mines, gr. 3	3,135 00
Connolly, G., lab. asst.	1,311 00	Pritchard, J. S., clk., gr. 2, 6 m. at \$1,080, 6 m. at \$1,140	1,110 00
Cottingham, E., clk., gr. 2	1,368 00	Reid, W., sr. lab. asst.	1,653 00
Cousineau, X., lab. asst., 4 m. to Mar. 31 at \$1,140	380 00	Renaud, H., lab. asst., 4 m. to Mar. 31 at \$1,140	380 00
*Cox, J. R., eng., mines, gr. 3	2,679 00	Reynolds, A. J., sten., gr. 2	1,080 00
Custeau, J. W., sr. lab. asst., 6 m. at \$1,368, 6 m. at \$1,425	1,396 50	Saulter, M., library asst.	1,200 00
Cuthbertson, E. K., sten., gr. 1	720 00	Seely, P. B., sr. lab. asst., 6 m. at \$1,368, 6 m. at \$1,425	1,396 50
Davie, A., plant foreman	2,166 00	Shannon, P. E., typist, gr. 2, 3 m. at \$1,200, 9 m. at \$1,254	1,240 50
Delaney, A. M., sten., gr. 2	1,311 00	Simard, G. V., sten., gr. 1, 8 m. at \$840, clk., gr. 2, 4 m. at \$1,080	920 00
Derry, C. A., lab. asst., 4 m. to Mar. 31 at \$1,140	380 00	Sugrue, J., tinman, 12 m. at \$1,311, less $\frac{1}{2}$ d.	1,309 24
Dickinson, D. L., sten., gr. 2	1,200 00	Warner, H. W., sten., gr. 2, 8 m., clk., gr. 2, 4 m.	1,200 00
Ensell, G., glass blower	1,824 00	Warren, T. E., eng., mines, gr. 4, 6 m. at \$3,306, 6 m. at \$3,477	3,391 50
Farnham, G. S., eng., mines, gr. 3	2,679 00	White, W. F., lab. asst., 8 m. at \$1,311, sr. lab. asst., 4 m. at \$1,368	1,330 00
Glaude, C. H., lab. helper, 6 m. at \$720, 2 m. at \$780, lab. asst., 4 m. at \$1,140	870 00	Williams, J. G., instrument maker, gr. 2	1,824 00
Gray, J. F., sten., gr. 3	1,425 00	Zumar, H., office boy, 6 m. at \$600, 2 m. at \$660, clk., gr. 1, 4 m. at \$720	650 00
Harper, W. H., typist, gr. 2, 8 m. at \$1,254, sr. lab. asst., 4 m. at \$1,368	1,292 00	Employees paid at prevailing rates	19,004 62
Haycock, M. H., eng., mines, gr. 2, 6 m. at \$2,109, 2 m. at \$2,223, gr. 3, 4 m. at \$2,679	2,318 00	TEMPORARY EMPLOYEES PERSONNEL TEMPORAIRE	
*Heatherington, G. W., sten., gr. 2	1,080 00	Employees paid at prevailing rates	44,685 16
Herbert, C. R., packer and helper	1,200 00		159,642 04
Hickman, M. C., sten., gr. 2, 6 m. at \$1,080, 6 m. at \$1,140	1,110 00	Votes — Crédits 154, 341 & 342—Geological Survey — Levés géologiques	
Hill, L. C., sten., gr. 2	1,200 00	PERMANENT EMPLOYEES PERSONNEL PERMANENT	
Hobbs, A. C., lab. asst., 4 m. to Mar. 31 at \$1,140	380 00	Allingham, W., lapidary	2,052 00
Hudson, H. P., sr. lab. asst., 6 m. at \$1,368, 2 m. at \$1,425, eng., mines, gr. 1, 4 m. at \$1,710	1,491 50	Ambrose, J. W., asst. geologist, 4 m. to Mar. 31 at \$2,109	703 00
Kirkeconnell, J. R., eng., mines, gr. 3	2,679 00	Bartlett, R., topographical eng.	3,078 00
Kritsch, W., lab. asst.	1,311 00	Blakely, D. J., taxidermist	1,596 00
Kyle, M. R., lab. asst., 4 m. to Mar. 31 at \$1,140, less $\frac{1}{2}$ d.	378 47	Bowles, J. E. H., clk., gr. 2, 9 m. at \$1,080, less 26 $\frac{1}{2}$ d., 3 m. at \$1,140	1,017 97
Lake, R. H., lab. asst.	1,200 00	Brennan, M. E., clk., gr. 2	1,200 00
Lalonde, J. M. A., office boy, 8 m. at \$660, clk., gr. 1, 4 m. at \$720	680 00	Burke, D. M., sten., gr. 2	1,200 00
Larochelle, A. E., sr. lab. asst., 8 m. at \$1,539, jr. chemist, 4 m. at \$1,710	1,596 00	Caley, J. F., asst. geologist, 4 m. to Mar. 31 at \$2,109	703 00
Lester, E., sr. lab. asst., 8 m. at \$1,653, plant foreman, 4 m. at \$1,938	1,748 00	Connell, C., jr. copper plate map engraver, 8 m., sr. map draftsman, 4 m.	2,052 00
Lutes, L., assayer, gr. 1	1,995 00	Cooper, H. H., prin. clk., 4 m. to Mar. 31 at \$1,824	608 00
Mackev, K. R., clk., gr. 2, 6 m. at \$1,140, 6 m. at \$1,200	1,170 00	Corry, J. H., prin. clk.	2,280 00
Madgwick, T. G., eng., mines, gr. 4	3,819 00	Daly, W. P., investigator, mines, gr. 2	3,135 00
Mantle, A. W., mech. supt.	2,736 00	Donovan, M. M., sten., gr. 2	1,311 00
McMahon, J. F., eng., mines, gr. 2, Apr. 1 to Dec. 21 at \$2,565 (resigned)	1,854 80	Dumouchel, J. L. G., sr. messenger, 6 m. at \$1,080, 6 m. at \$1,140	1,110 00

* Made permanent Dec. 1, 1936.

MINES AND RESOURCES—MINES ET RESSOURCES

Salaries at Ottawa	Amount	Traitements à Ottawa	Montant
MINES— <i>Con.—Suite</i>			
Votes — Crédits 154, 341 & 342—Geological Survey—<i>Con.</i> — Levés géologiques—<i>Suite</i>			
PERMANENT EMPLOYEES— <i>Conc.</i> PERSONNEL PERMANENT— <i>Fin</i>			
Foran, M., museum helper, Apr. 1 to Aug. 21 at \$1,311 (retired).....	\$ 511 01	Rochon, E. C., head clk., 2 m. to Mar. 31 at \$2,394.....	\$ 399 00
Guertin, J. A. S., clk., gr. 2.....	1,254 00	Rock, F. H., packer and helper, 10 m. to Jan. 31 at \$1,200.....	1,000 00
Hale, A. E., map draftsman, 6 m. at \$1,425, 6 m. at \$1,482.....	1,453 50	*Rooney, J. G., sten., gr. 2, 8 m. at \$1,080, clk., gr. 3, 4 m. at \$1,311....	1,157 00
Henderson, J. F., asst. geologist, 4 m. to Mar. 31 at \$2,109.....	703 00	Russell, L. S., asst. invertebrate palaeontologist, 6 m. at \$1,710, 2 m. at \$1,824, asst. geologist, 4 m. at \$2,109.....	1,862 00
Houlahan, T., museum helper, Apr. 1 to Jan. 11 at \$1,311 (retired).....	1,022 02	Seeby, M. M., sten., gr. 1, 8 m. at \$1,020, gr. 2, 4 m. at \$1,080.....	1,040 00
Hurlburt, P. M., sten., gr. 2.....	1,311 00	Sherrin, P., investigator, mines, gr. 2.	3,249 00
Kéays, E. H., sten., gr. 2, 4 m. to Mar. 31 at \$1,200.....	400 00	Skinner, L. B., clk., gr. 2, 4 m. to Mar. 31 at \$1,080.....	360 00
Kenny, E. H., sten., gr. 2.....	1,311 00	*Steinberg, M., office boy, 12 m. at \$420, less 29 d.....	386 98
Kindle, E. D., asst. geologist, 4 m. to Mar. 31 at \$2,109.....	703 00	Stott, M. E., sten., gr. 2.....	1,254 00
Larocque, J. A. A., museum asst.....	1,539 00	Sullivan, A., prin. map draftsman.....	2,736 00
Letendre, S., eng., mines, gr. 2, 4 m. to Mar. 31 at \$2,109.....	703 00	Sundkvist, M., typist, gr. 2, 3 m. at \$1,200, 5 m. at \$1,254, sten., gr. 2, 4 m. at \$1,254.....	1,240 50
Lynch, F. C. C., director, bureau of economic geology, 8 m. at \$4,959, chief, bureau of geology and topography, 4 m. at \$5,130.....	5,016 00	Thomas, L. O., investigator, mines, gr. 4.....	3,819 00
MacDonald, D., museum asst., 12 m. at \$1,539, less 7 d.....	1,510 04	Weeks, L. J., assoc. geologist.....	3,420 00
Mahoney, M., sr. museum asst.....	2,052 00	Williams, L. A., map draftsman, 6 m. at \$1,425, 6 m. at \$1,482.....	1,453 50
Marshall, W. M., investigator, mines, gr. 1.....	2,565 00	Employees paid at prevailing rates.....	1,497 58
Martindale, E. S., investigator, mines, gr. 4.....	3,819 00	TEMPORARY EMPLOYEES PERSONNEL TEMPORAIRE	
McCracken, M. R., sten., gr. 2, 6 m. at \$1,080, 6 m. at \$1,140.....	1,110 00	Ambrose, J. W., asst. geologist, 8 m. to Nov. 30 at \$2,109, made permanent.....	1,406 00
McFadden, M. E., library asst.....	1,311 00	Andrecheck, R. S., compiler, Apr. 1 to Aug. 26 at \$1,080.....	435 48
McKay, A. S., clk., gr. 3, Apr. 1 to 2 at \$1,539 (see also C. G. Salaries).....	8 55	Armstrong, G. A., labourer, 12 m. at \$720, less 1 d.....	718 06
Miller, W. H., topographical eng.....	3,078 00	Armstrong, J. E., asst. geologist, May 14 to Oct. 17 at \$2,220, less 4 d.....	925 00
Mineau, M. G., sten., gr. 1, 4 m. to Mar. 31 at \$720, less 1 d.....	238 06	Armstrong, P. F., geologist, 12 m. at \$3,534, less 2 d.....	3,512 96
Minnes, V. A., office eng., 8 m. at \$2,964, eng., mines, gr. 4, 4 m. at \$3,477.....	3,135 00	Atfield, J. G., jr. topographical eng..	1,710 00
Murray, G. H., prin. clk., 8 m. at \$2,052, editor, gr. 2, 4 m. at \$2,394.....	2,166 00	Baker, L. M., compiler.....	1,080 00
Nettell, A. J. C., asst. office eng., 8 m. at \$2,451, office eng., 4 m. at \$2,508..	2,470 00	Ball, G. A., compiler, 12 m. at \$1,080, less 7½ d.....	1,057 50
Norrish, W. H., investigator, mines, gr. 3.....	3,534 00	Bancroft, M. F., geologist, June 2 to Oct. 1.....	1,200 00
O'Brien, W., packer and helper.....	1,200 00	Bastien, J., sten., gr. 2.....	1,080 00
Odell, R. K., chief, development division, bureau of economic geology, 8 m., chief, development division, bureau of geology and topography, 4 m.	4,389 00	Beach, H. H., asst. geologist, 12 m. at \$2,109, less 1 d.....	2,103 14
O'Halloran, W. E., map draftsman, 6 m. at \$1,425, 6 m. at \$1,482.....	1,453 50	Beattie, F. I., compiler, Apr. 1 to Sept. 21 at \$1,080, less 1 d.....	510 10
Perron, J. E., museum helper-tanner..	1,425 00	Berry, L. G., geologist, gr. 5, Apr. 1 to May 16 at \$1,080.....	136 45
Petrie, J., geographer, gr. 1, 6 m. at \$2,451, 6 m. at \$2,565.....	2,508 00	Bond, D., sten., gr. 3, 12 m. at \$720, less 2½ d.....	715 00
Proulx, J. E., museum helper.....	1,200 00	Bray, N. D., geologist, gr. 5.....	1,080 00
Pyefinch, S. E., clk., gr. 1, 8 m. at \$900, asst. photographer, 4 m. at \$1,080.....	960 00	Bray, R. H., compiler.....	1,080 00
Roberts, W. G., museum helper, 8 m. at \$1,200, museum asst., 4 m. at \$1,254.....	1,218 00	Bridge, E. J., office boy, Aug. 17 to Mar. 31 at \$420.....	261 94
		Buckley, P. E. W., map draftsman, gr. 3.....	1,080 00
		Buesnel, J. M., compiler, 12 m. at \$1,080, less 7 d.....	1,058 02
		Bugg, P. D., engineering clerk, 10 m. to Mar. 31 at \$1,425, less 1 d.....	1,183 67
		Burstow, G. F. D., compiler.....	1,080 00

* Made permanent Dec. 1, 1936.

DETAILS OF EXPENDITURE—*Con.*—DÉTAIL DES DÉPENSES—*Suite*

Salaries at Ottawa	Amount	Traitements à Ottawa	Montant
MINES—<i>Con.</i>—<i>Suite</i>			
Votes — Crédits 154, 341 & 342—Geological Survey—<i>Con.</i> — Levés géologiques—<i>Suite</i>			
TEMPORARY EMPLOYEES— <i>Con.</i> PERSONNEL TEMPORAIRE— <i>Suite</i>			
Caley, J. F., asst. geologist, 8 m. to Nov. 30 at \$2,109, less 1 d., made permanent.	\$ 1,400 14	Graham, G., engineering clk., June 11 to Mar. 31 at \$1,425, less 2 d.	\$ 1,140 26
Cameron, D. D., clerk, gr. 1.	1,824 00	Gray, J. E., asst. geologist, May 16 to Mar. 31 at \$2,109, less 5 d.	1,818 65
Cameron, J. M., engineering clerk, May 18 to Jan. 31 at \$1,425, less 7 d.	976 05	Gringorten, I., student asst., Oct. 9 to Mar. 31 at \$1,200, less 1 d.	570 97
Carlyle, E. S., compiler, 12 m. at \$1,080, less 29 d.	995 81	Grozelle, K. P., compiler, 12 m. at \$1,080, less 2½ d.	1,072 65
Carpenter, N. A., sten., gr. 2.	1,080 00	Hage, C. O., asst. geologist, 12 m. at \$2,109, less 2 d.	2,097 66
Chambers, J. A., engineering clk., June 2 to Mar. 31 at \$1,080, less 1 d.	894 10	Hainstock, H. I., asst. geologist.	2,109 00
Clark, F. H., asst. geologist, June 20 to Oct. 1 at \$2,220.	628 80	Halverson, A. H., sten., gr. 2.	960 00
Clarke, C. H. D., jr. geologist, June 18 to Oct. 14 at \$1,440.	466 19	Hamilton, M. C., lab., 12 m. at \$720, less ½ d.	719 03
Cooper, H. H., clk., gr. 1, 8 m. to Nov. 30 at \$1,425, made permanent.	950 00	Hidley, M. S., asst. geologist, Apr. 1 to 18 at \$2,109, less 1 d.	99 59
Craik, A. M., sten., gr. 1, Feb. 10 to Mar. 31, less ½ d. at \$720.	99 74	Henault, R. C., sten., gr. 1, May 12 to Dec. 11 at \$720.	420 00
Croft, W. F., map draftsman, gr. 2.	1,710 00	Henderson, J. F., asst. geologist, 8 m. to Nov. 30 at \$2,109, less 1 d., made permanent.	1,400 14
Davidson, T. N., compiler, 12 m. at \$1,080, less 4 d.	1,068 39	Hodgins, W. O., map draftsman, gr. 2.	1,425 00
Davis, I. F. G., asst. geologist, June 15 to Sept. 19 at \$2,220.	585 83	Horan, G. E., sten., gr. 1, 10 m. to Mar. 31 at \$720.	600 00
Denneny, K. V., sten., gr. 1, Jan. 13 to Mar. 31 at \$720.	156 77	Hryhorczuk, R., sten., gr. 1, Jan. 25 to Mar. 31 at \$720.	133 55
Derry, G. E., sten., gr. 3.	720 00	James, E. E., office boy, Apr. 1 to Oct. 5, noon, at \$480.	245 81
Dingle, W. B., jr. topographical eng.	1,710 00	James, T. F., compiler, 12 m. at \$1,080, less 1 d.	1,077 10
Dixon, E. A., compiler, 12 m. at \$1,080, less 5 d.	1,064 83	Johnston, A. W., asst. geologist, Apr. 1 to Mar. 20 at \$2,109.	2,046 64
Doane, A. R., engineering clk., gr. 2, Aug. 10 to Mar. 31 at \$1,080, less 4½ d.	680 42	Johnston, J. R., asst. geologist, 12 m. at \$2,109, less 14 d.	2,028 88
Donahue, S., sten., gr. 1, Nov. 16 to Mar. 31 at \$720, less 2 d.	265 92	Johnson, R., engineering clk., gr. 2, June 11 to Mar. 13 at \$1,080, less 2 d.	811 84
Dore, R. F., jr. topographical eng.	1,710 00	Keays, E. H., sten., gr. 2, July 18 to Nov. 30 at \$1,080, made permanent.	400 65
Douglas, J. H., engineering clk., Oct. 9 to Mar. 31 at \$1,425, less 5 d.	662 70	Keevil, I. B., asst. geologist, June 2 to Sept. 29 at \$2,220.	727 66
Downie, D. L., asst. geologist, 12 m. at \$2,109, less 15½ d.	2,020 36	Kimmins, R. J., sten., gr. 2, 7 m. to Dec. 31 at \$1,080, less 1 d.	627 10
DuVernet, F. P., topographical eng.	2,166 00	Kindle, E. D., asst. geologist, 8 m. to Nov. 30 at \$2,109, made permanent.	1,406 00
Elliott, E. C., photographer, July 6 to Mar. 31 at \$1,368.	1,007 61	Kochan, H. H., engineering clk., gr. 2, 10 m. to Mar. 31 at \$1,080.	900 00
Ewart, J. C., engineering clk., gr. 2, May 11 to Mar. 31 at \$1,080, less 8 d.	937 65	LaFrance, B., sten., gr. 1, Sept. 23 to Mar. 31 at \$720.	376 00
Ferguson, J. K., office boy, Apr. 1 to July 26 at \$420.	134 35	Laing, H. M., jr. zoologist, June 15 to Sept. 29 at \$1,440.	420 00
Flaherty, G. F., asst. geologist, 12 m. at \$2,109, less 12 d.	2,040 97	Lambkin, M., sten., gr. 3, 12 m. at \$720, less ½ d.	719 03
Floyd, A. M., jr. topographical eng., 12 m. at \$1,710, less 3 d.	1,694 73	Lapointe, E., sten., gr. 3, 12 m. at \$720, less ½ d.	719 00
Francis, K. G., jr. topographical eng.	1,710 00	Larson, A. G., jr. topographical eng.	1,710 00
Fraser, R. A. S., compiler, 12 m. at \$1,080, less 10 d.	1,050 73	Leafloor, L. B., office boy, July 27 to Mar. 31 at \$420.	335 65
Freeman, B. C., asst. geologist, June 16 to Sept. 19 at \$2,220.	579 68	Lees, E. J., asst. geologist.	2,109 00
Fritz, M. A., asst. geologist, July 1 to Sept. 16 at \$2,220, less 5 d.	438 83	Lendrum, F. C., compiler, 12 m. at \$1,080, less 8½ d.	1,054 60
Gamble, S. G., jr. topographical eng., 12 m. at \$1,710, less 7 d.	1,676 75	Letendre, G., investigator, gr. 1, May 14 to Nov. 30 at \$2,109, made permanent.	1,156 55
Garland, W., sten., gr. 3, 12 m. at \$720, less 1 d.	718 06	Lord, C. S., asst. geologist, May 31 to Oct. 31 at \$2,220, less 14 d.	847 42
Goodall, D. P., engineering clk., June 9 to Mar. 31 at \$1,425.	1,155 83	MacPhail, A. C., compiler, 12 m. at \$1,080, less 15 d.	1,033 03
		McConnell, N. E., jr. topographical eng.	1,710 00
		McCracken, G. L., compiler, 12 m. at \$1,080, less 1 d.	1,077 10

MINES AND RESOURCES—MINES ET RESSOURCES

Salaries at Ottawa	Amount	Traitements à Ottawa	Montant
MINES—Conc.—Fin			
Votes — Crédits 151, 341 & 342—Geological Survey—Conc. — Levés géologiques—Fin			
TEMPORARY EMPLOYEES—Conc. PERSONNEL TEMPORAIRE—Fin			
McLaren, J. C., sten., gr. 2, 12 m. at \$960, less 1½ d.	\$ 956 04	Smith, C. H., topographical eng.	\$ 2,166 00
McLarty, D. M. E., asst. geologist, 5 m. to Aug. 31 at \$2,109, less 3 d.	861 55	Sproule, J. C., asst. geologist, June 8 to Mar. 31 at \$2,109, less 3 d.	1,699 48
McLellan, L. C., clerk, gr. 1.	1,710 00	Stewart, J. S., geologist.	3,534 00
McMurchy, R. C., asst. geologist, 12 m. at \$2,109, less 9 d.	2,056 38	Stewart, L., sten., gr. 2.	1,080 00
McNaughton, D. A., asst. geologist.	2,109 00	Taylor, T. M. C., jr. zoologist, June 16 to Sept. 12 at \$1,440.	348 00
McNeil, C. E., map draftsman, gr. 2.	1,425 00	Thompson, J. C., engineering clk., gr. 2, May 29 to Aug. 8 at \$1,080, less 1 d.	209 04
Mineau, M. G., sten., gr. 3, 8 m. to Nov. 30 at \$720, made permanent.	480 00	Tolman, C., geologist, May 30 to Sept. 26.	1,200 00
Munroe, J. A. N., compiler, 12 m. at \$1,080, less 9 d.	1,051 29	Tukkamen, W., compiler, 12 m. at \$1,080, less 6½ d.	1,059 58
Murphy, H. I., sten., gr. 1, 10 m. to Mar. 31 at \$720.	600 00	Ventura, G., clerk, gr. 2.	1,080 00
Nevins, E., sten., gr. 3.	720 00	Wall, E. E., labourer.	720 00
Nixon, W. F., engineering clk., gr. 2, 10 m. to Mar. 31 at \$1,080, less 1 d.	897 10	Walsh, E. M., map draftsman, gr. 3.	720 00
Nolan, F. W., compiler, 12 m. at \$1,080, less 1 d.	1,077 10	Weir, J. D., asst. geologist, Apr. 1 to Sept. 25 at \$2,220, less 7 d.	1,037 19
Nunn, E. P., compiler.	1,080 00	Weskett, C. A., compiler.	1,080 00
Okulitch, V. J., asst. geologist, June 1 to Sept. 15 at \$2,220, less 2 d.	635 16	West, H. A. S., 12 m. at \$2,166, less 1½ d.	2,156 76
Ollett, R. W., office boy, Sept. 28 to Mar. 31 at \$480.	244 00	Williams, C. F., compiler.	1,080 00
Pace, G. B., lab., 12 m. at \$720, less 4 d.	711 57	Wilson, J. F., asst. geologist, May 11 to Mar. 31 at \$2,109.	1,876 56
Parlee, R. J., topographical engineer, 12 m. at \$2,166, less 2½ d.	2,149 88	Employees paid at prevailing rates.	7,508 44
Patterson, W. B., compiler.	1,080 00		263,599 58
Perry, S. C., asst. geologist, June 1 to Sept. 18 at \$2,220.	666 00	Votes — Crédits 228 & 385—Payments in connection with Movements of Coal under Conditions prescribed by the Governor in Council and for the Cost of Administration thereof — Subventions pour les transports de houille, tel que prévu par le Gouverneur en son Conseil, et frais d'administration	
Purser, J. W., sten., gr. 3.	900 00		
Quinn, G., compiler, 12 m. at \$1,080, less 2 d.	1,073 57	TEMPORARY EMPLOYEES PERSONNEL TEMPORAIRE	
Retty, J. A., asst. geologist, Apr. 1 to June 10 at \$2,109.	410 08	Marshall, T., spec. investigator.	2,565 00
Rice, H. M. A., asst. geologist, Apr. 1-19 at \$2,109, made permanent.	111 31		
Richards, D. I., sten., gr. 2.	960 00	Vote — Crédit 343—To assist in provision of transportation facilities into mining areas — Frais de transport dans les régions minières	
Ritchie, R. I., sten., gr. 2, May 18-20 at \$1,080.	8 71		
Robinson, L. E., compiler, 12 m. at \$1,080, less 18½ d.	1,024 98	TEMPORARY EMPLOYEES PERSONNEL TEMPORAIRE	
Rose, B., geologist, June 1 to Sept. 22 at \$3,720.	1,157 33	Janelle, W. A., inspecting eng., Nov. 11 to Mar. 31 at \$3,000.	1,166 67
Ruggles, E. L., engineering clk., June 4 to Mar. 31 at \$1,425.	1,175 63	Mathieu, J. A. O., inspecting eng., Nov. 10 to Mar. 31 at \$3,000.	1,175 00
Rutherford, R. L., asst. geologist, June 1 to Sept. 23 at \$2,220.	696 83	Stuart, W. H., inspecting eng., July 11 to Mar. 31 at \$2,850.	2,060 89
Ryebach, R., sten., gr. 3.	900 00		4,402 56
Scott, G. L., engineering clk., June 3 to Mar. 31 at \$1,425, less 1 d.	1,175 75		
Shaw, E. W., asst. geologist, 9 m. to Dec. 31 at \$2,109, less 1 d.	1,575 89		
Skinner, L. B., compiler, 8 m. to Nov. 30 at \$1,080, less 1 d, made permanent.	717 00		
			2,402,589 17

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

Charged as follows — Imputées comme suit—

Under Statute — Statutaire

Salary of Minister.....(Page L—133).....		9,499 92
<i>Immigration and Colonization— Immigration et Colonisation</i>		
Vote — Crédit 9—Civil Government Salaries.....(Page L—133).....	\$ 178,132 19	
Vote — Crédit 51—Immigration.....(Page L— 27).....	1,241 15	
		179,373 34
<i>Indian Affairs—Affaires Indiennes</i>		
Vote — Crédit 10—Civil Government Salaries....(Page L—133).....	129,595 91	
Vote — Crédit 10—Civil Government Contingen- cies.....(Page L— 26).....	2,103 73	
Vote — Crédit 166—Indian Affairs, etc.....(Page L— 70).....	9,123 20	
		140,822 84
<i>Interior—Intérieur</i>		
Vote — Crédit 12—Civil Government Salaries....(Page L—133).....	523,197 37	
Vote — Crédit 12—Civil Government Contingen- cies.....(Page L— 26).....	253 54	
Vote — Crédit 138—Dominion Observatory.....(Page L— 43).....	34,693 52	
Vote — Crédit 140—Topographical and Air Surveys.....(Page L— 44).....	79,493 92	
Vote — Crédit 140—Board of Examiners.....(Page L— 45).....	731 50	
Vote — Crédit 141—Geodetic Surveys— Head Office.....(Page L— 45)\$	17,804 33	
Precise Levelling.....(Page L— 46)	26,036 20	
Triangulation.....(Page L— 46)	56,202 00	
Isostasy and Base Lines.....(Page L— 46)	8,721 00	
		108,763 53
Votes — Crédits 142 & 482—International Boundaries(Page L—47).....	15,618 00	
Votes — Crédits 169 & 493—Government of N.W.T.— Administration.....(Page L— 85).....	16,405 46	
Vote — Crédit 172—Dominion Lands, Seed Grain, etc.— Dominion Lands.....(Page L— 89)	22,143 00	
Mining Lands.....(Page L— 89)	7,329 00	
Ordnance Lands.....(Page L— 89)	10,203 00	
		39,675 00
Vote — Crédit 172—Advancement of Forest Conservation— Head Office.....(Page L— 90)	55,761 08	
Ottawa Laboratory.....(Page L— 92)	59,125 95	
		114,887 03
Vote — Crédit 172—Water and Power Resources..(Page L— 93).....	54,759 00	
Vote — Crédit 172—Lake of the Woods Control Board.....(Page L— 96).....	2,052 00	
Votes — Crédits 172 & 495—Canadian National Parks— Head Office.....(Page L— 97)	100,004 39	
Trucking at Ottawa.....(Page L— 97)	3,021 00	
Field Engineering.....(Page L—103)	3,719 25	
		106,744 64
Votes — Crédits 172 & 495—Migratory Birds Con- vention Act.....(Page L—105).....	8,876 26	
Vote — Crédit 172—Revenue Staff.....(Page L—136).....	9,348 00	
Vote — Crédit 172—Retiring Leave.....(Page L—136).....	1,244 81	
Vote — Crédit 325—Forest Service Development.(Page L—115).....	9,896 33	
		1,126,639 91
<i>Mines</i>		
Vote — Crédit 16—Civil Government Salaries— Deputy Minister.....(Page L—133)	9,499 92	
Permanent Employees.....(Page L—133)	503,187 99	
		512,687 91
Votes — Crédits 16 & 433—Civil Government Con- tingencies.....(Page L— 27).....	2,176 12	
Vote — Crédit 152—Administration of the Ex- plosives Act (Chap. 62, R.S. 1927).....(Page L— 47).....	1,180 00	
Vote — Crédit 153—Mines Branch—Investigations of Mineral Resources and Deposits, etc.....(Page L— 48).....	159,642 04	
Votes — Crédits 154, 341 & 342—Geological Survey— Explorations, Surveys and Investigations, etc....(Page L— 49)	71,934 99	
Maintenance of Offices and Museum, etc.....(Page L— 52)	59,645 68	
Northwest Territories, etc.....(Page L—117)	80,163 73	
Northwest Territories, etc., to continue.....(Page L—117)	51,855 13	
		263,599 53

MINES AND RESOURCES — MINES ET RESSOURCES

Charged as follows—*Conc.* — Imputées comme suit—*Fin**Mines—Conc.—fin*

Votes — Crédits 228 & 385—Payments <i>re</i> Move- ments of Coal under conditions prescribed by the Governor in Council.....(Page L—106).....\$	2,565 00	
Vote — Crédit 343—Transportation Facilities into Mining Areas.....(Page L—119).....	4,402 56	946,253 16
		<u>\$ 2,402,589 17</u>

Civil Government Contingencies — Gouvernement civil: Dépenses contingentes

Vote — Crédit 9 — Immigration

<i>Travelling Expenses — Frais de voyages:</i> —Hon. T. A. Crerar, \$525; T. Magladery, \$107.36; C. W. Jackson, \$102.65.....		735 01
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> — Sundry.....		9 79
<i>Printing and Stationery — Impressions et papeterie:</i> —King's Printer, supplies....		10,318 18
<i>Miscellaneous — Divers:</i> —Postage, \$2,373.60; telegraph and telephone services, \$93.13; sundries, \$107.10.....		2,573 83
		<u>\$ 13,636 81</u>

Vote — Crédit 10 — Indian Affairs — Affaires indiennes

<i>Salaries and Wages — Traitements et salaires:</i> —Temporary employees (Page L—25)		2,103 73
<i>Travelling Expenses — Frais de voyages:</i> —Dr. H. W. McGill, \$265.40; G. Arm- strong, \$84.44; A. E. Bristow, \$13.60; H. J. Bury, \$496.47; J. D. Chené, \$197.37; G. A. Conley, \$79.54; R. A. Hoey, \$21.95; C. W. Jackson, \$190.10; T. Lamb, \$194; T. McGookin, \$1,027.61; A. F. McKenzie, \$570.65; T. R. L. McInnis, \$28.90; K. Moodie, \$401.87; P. J. O'Connor, \$33.25; R. G. Orr, \$936.16; C. C. Parker, \$136.95; P. Phelan, \$142.30; A. E. St. Louis, \$7.20; Dr. E. L. Stone, \$169.80; J. D. Sutherland, \$93.25; M. O. Walton, \$64.90; sundry, \$11.95..		5,167 66
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> — Blue prints, \$132.43; sundries, \$102.38.....		234 81
<i>Printing and Stationery — Impressions et papeterie:</i> —King's Printer, supplies....		4,226 85
<i>Miscellaneous — Divers:</i> —Newspapers and publications, \$176.48; postage, \$150; telegraph and telephone, \$2,170.80; laundry, \$96; labour, office removal, \$217.56, sundry, \$35.40; sundries, \$60.30.....		2,906 54
<i>Adjustments — Ajustements:</i> —T. Lamb, balance of advance to be accounted for in 1937-38.....		6 00
		<u>\$ 14,645 59</u>

Vote — Crédit 12 — Interior — Intérieur

<i>Salaries and Wages — Traitements et salaires:</i> —Ottawa.....(Page L—25)		253 54
<i>Travelling Expenses — Frais de voyages:</i> —Hon. T. A. Crerar, \$900; K. R. Daley, \$63.95; C. W. Jackson, \$31.60; J. M. Wardle, \$26.21; sundry travel, \$10.10....		1,031 86
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> — Office supplies, \$250.13; photographic supplies, \$116.95; sundries, \$81.94.....		449 02
<i>Printing and Stationery — Impressions et papeterie:</i> —King's Printer, supplies....		9,397 98
<i>Miscellaneous — Divers:</i> —Car tickets, \$85; membership fees and subscriptions, \$428.22; postage, \$1,606; telephone tolls and telegrams, \$1,904.75; towel service, \$261.09; sundries, \$84.99.....		4,370 05
		<u>\$ 15,502 45</u>

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

**Civil Government Contingencies—Conc.—Gouvernement civil: Dépenses
contingentes—Fin**

Votes — Crédits 16 & 433 — Mines

<i>Salaries and Wages — Traitements et salaires:—</i> Ottawa..... (Page L—25)	2,176 12
<i>Travelling Expenses — Frais de voyages:—</i> Hon. T. A. Crerar, \$300; F. J. Alcock, \$51.67; R. M. Anderson, \$78.25; G. D. Barrowman, \$69.35; R. Bartlett, \$33.65; G. J. A. Buisson, \$39.95; C. Camsell, \$431.67; R. K. Carnochan, \$81.70; K. G. Chipman, \$32.60; L. H. Cole, \$36.64; V. L. Eardley-Wilmot, \$495.28; H. V. Ellsworth, \$25.11; F. E. Forsey, \$33; H. Frechette, \$114.27; M. F. Goudge, \$35.94; H. C. Gunning, \$83.62; B. F. Haanel, \$136.85; G. Hanson, \$28.85; M. H. Haycock, \$32.30; C. W. Jackson, \$9.20; J. D. Johnston, \$39.20; D. Jenness, \$79.90; F. A. Kerr, \$32.20; E. M. Kindle, \$72.30; C. J. A. A. La Rocque, \$108.25; J. D. Leechman, \$51.60; H. A. Leverin, \$34.47; H. C. Mabee, \$50.55; W. Malcolm, \$25.10; E. S. Malloch, \$39.75; J. McLeish, \$38.10; G. C. Monture, \$87.90; A. M. Norroway, \$80.97; G. W. H. Norman, \$62.10; O. P. R. Ogilvie, \$33; C. S. Parsons, \$38.90; J. G. Phillips, \$38.81; E. Poitevin, \$160.20; P. V. Rosewarne, \$115.60; L. S. Russell, \$56.81; A. C. T. Sheppard, \$37.14; C. H. Stockwell, \$50.30; A. A. Swinnerton, \$39.50; P. A. Taverner, \$80.75; E. A. Thompson, \$51.30; W. B. Timm, \$48.85; T. E. Warren, \$97.10; L. J. Weeks, \$33.35; R. T. D. Wickenden, \$70.59; A. W. G. Wilson, \$856.37; M. E. Wilson, \$113.11.....	4,873 97
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:—</i> Electrical supplies, \$6.28; films and prints, \$1,286.39; photographic supplies, \$283.56; photographs, \$65; sundries, \$30.....	1,671 23
<i>Printing and Stationery — Impressions et papeterie:—</i> King's Printer, supplies....	5,017 25
<i>Miscellaneous — Divers:—</i> Advertising: Manchester Guardian Commercial, New York, \$1,400; accounts under \$1,000, \$832.54.....	2,232 54
Various: catering, \$101.50; expenses in connection with making "Gold Mining Films." Dept. of Trade and Commerce, \$3,128.48; freight and express, \$45.61; telephones and telegrams, \$136.15; sundries, \$5.....	3,416 74 5,649 28
	<u>\$ 19,387 85</u>

IMMIGRATION AND COLONIZATION — IMMIGRATION ET COLONISATION

**Vote — Crédit 51 — Salaries and Contingencies — Traitements et dépenses
contingentes**

SUMMARY — SOMMAIRE

General..... (Page L—27)	103,053 89
Boundary Inspection..... (Page L—29)	529,278 99
Inland Agencies..... (Page L—35)	182,257 48
Seaport Agencies..... (Page L—36)	195,332 43
Great Britain and Continent..... (Page L—39)	108,009 65
	<u>\$ 1,117,932 44</u>

DETAILS — DÉTAIL

GENERAL — EN GÉNÉRAL

Ottawa

<i>Salaries and Wages — Traitements et salaires:—</i> Temporary employees (Page L—25)	1,241 15
<i>Travelling Expenses — Frais de voyages:—</i> D. M. Binning, \$33.10; F. C. Blair, \$6.40; M. J. Cullen, \$220.83; H. M. Grant, \$8; A. S. Jolliffe, \$102.43; F. Morgan, \$18.65; R. N. Munroe, \$482.06.....	871 47
<i>Printing and Stationery — Impressions et papeterie:—</i> King's Printer, supplies, \$910.55; sundries, \$54.43.....	964 98
<i>Miscellaneous — Divers:—</i> Cartage, express and freight, \$345.52; legal services, \$101.80; telegraph and telephone services, \$1,817.85; alterations and additions, \$323.60; sundries, \$319.54.....	2,908 31
<i>Other Outlay — Autres déboursés:—</i> T. Magladery, gratuity in lieu of 78 working days' retiring leave (P.C. 9/2980, Nov. 20, 1936).....	2,206 45 8,192 36

MINES AND RESOURCES—MINES ET RESSOURCES

IMMIGRATION AND COLONIZATION—Con.
IMMIGRATION ET COLONISATION—SuiteVote — Crédit 51 — Salaries and Contingencies—Con. — Traitements et dépenses
contingentes—Suite

GENERAL—Con. — EN GÉNÉRAL—Suite

Publicity—Publicité

<i>Travelling Expenses—Frais de voyages:—R. J. C. Stead.....</i>	62 10
<i>Printing and Stationery—Impressions et papeterie:—King's Printer, supplies.....</i>	8,541 37
<i>Miscellaneous—Divers:—Newspapers and publications, \$66.27; sundries, \$90.97 . . .</i>	157 24
	8,760 71

Inspection of British Immigrant Children
Surveillance de l'immigration des enfants anglais

<i>Salaries and Wages—Traitements et salaires:—Inspectors: J. A. Gillies, April 1 to August 23 at \$1,710 (retired), D. M. Morrison, April 1 to July 23 at \$1,710 (retired)</i>	1,208 96
<i>Travelling Expenses—Frais de voyages:—M. Leamy, \$5.60; D. J. Murphy, \$1.60; R. J. Pearce, \$4.25; M. J. Scobie, \$436.71.....</i>	448 16
<i>Printing and Stationery—Impressions et papeterie:—King's Printer, supplies....</i>	10 88
<i>Miscellaneous—Divers:—Sundries</i>	32 49
	1,700 49

Women's Immigration—Immigration des femmes

<i>Salaries and Wages—Traitements et salaires:—Women immigration officers: A. S. M. Bullock, 8 m. to Nov. 30 at \$2,280; C. Charlesworth, 8 m. to Nov. 30 at \$2,280. H. E. Davison, 8 m. to Nov. 30 at \$2,280. M. L. McNairn, 8 m. to Nov. 30 at \$1,767; investigating officers, M. Leamy, 8 m. to Nov. 30 at \$1,653, A. H. McNicol, \$1,710; conductress, M. T. McKenney, 8 m. to Nov. 30 at \$1,539; clerks and stenographers, J. M. Byers, 8 m. at \$1,710, 4 m. at \$1,539, R. E. Duncan, 8 m. to Nov. 30 at \$1,200, J. Forget, 8 m. to Nov. 30 at \$1,311, D. H. Whitehead, 8 m. to Nov. 30 at \$1,200.....</i>	13,703 00
<i>Travelling Expenses—Frais de voyages:—M. V. Burnham.....</i>	31 45
<i>Printing and Stationery—Impressions et papeterie:—King's Printer, supplies.....</i>	7 79
<i>Miscellaneous—Divers:—Uniforms, \$116.66; sundries, \$17.59.....</i>	134 25
	13,876 49

Deportation Expenses—Frais de déportation

<i>Salaries and Wages—Traitements et salaires:—Deportation officers, J. A. Aube, \$1,368, D. M. Binning, 4 m. to Mar. 31 at \$1,368, E. Chevrier, \$1,368, R. Clark, \$1,368, R. O. Dorman, \$1,200, C. B. Gadd, \$1,368, F. Harper, \$1,368, T. Howell, \$1,368, C. Perry, \$1,368, E. Roberts, 12 m. at \$1,368 (less 7 d., Oct.), H. Souillard, \$1,368; conductress, D. M. Binning, 8 m. to Nov. 30 at \$1,539; wages of escorts, \$766.25; sundry assistance, \$23.50.....</i>	15,758 01
<i>Miscellaneous—Divers:—Expenses of deports in transit to deportation points, \$8,638.44; maintenance of deports, \$2,561.39; railway and ocean fares, \$14,947.50; clothing, \$160.09; legal services, \$407.75; medical and hospital expenses, \$67.80; photographs and visa fees, \$223.38; taxis and transfer service, \$318.10; telegraph and telephone services, \$434.98; uniforms, \$396.74; printing and stationery, sundries, \$44.87; sundries, \$277.10.....</i>	28,478 14
	44,236 15
<i>Less—Refunds on account of deportation expenses.....</i>	2,761 93
	41,474 22

Chinese Immigration—Immigration chinoise

<i>Salaries and Wages—Traitements et salaires:—Special immigration officer and controller of Chinese immigration at Hong Kong, E. S. Doughty, \$4,464.96, living allowance, \$1,500 (less \$276.05 exchange adjustment); supervising inspector, R. Roff, \$2,280; inspectors, J. Gibson, 6 m. at \$1,425, 6 m. at \$1,482, H. Glover (part time), Apr. 1 to July 17 at \$900 (retired), T. A. Harris, 1 m. at \$1,539, C. R. Jarrett (part time), \$189.96, F. A. Nuds, Apr. 22 to Mar. 31 at \$1,425, C. P. Renwick (part time), \$171, A. J. Williams, \$1,482; relieving inspectors, \$20.37; departmental accountant, G. A. Stevens, Apr. 1 to Sept. 22 at \$2,109 (retired); principal clerk, H. Crump, 9 m. at \$1,938, 3 m. at \$2,052; interpreter, P. P. Schuloung, \$1,425; stationary engineer (heating), W. C. Taylor, \$1,824; stenographers, M. Brand, 11 m. to Mar. 31 at \$1,311, M. Walter, \$1,311; elevator</i>
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DETAILS OF EXPENDITURE—Con.— DÉTAIL DES DÉPENSES—Suite

IMMIGRATION AND COLONIZATION—Con.
IMMIGRATION ET COLONISATION—Suite

**Vote — Crédit 51 — Salaries and Contingencies—Con. — Traitements et dépenses
contingentes—Suite**

GENERAL—Conc. — EN GÉNÉRAL—Fin

Chinese Immigration—Conc.— Immigration chinoise—Fin

<i>Salaries and Wages—Conc.— Traitements et salaires—Fin</i>	
operator, A. C. Green, Apr. 1 to Dec. 17 at \$1,200; immigration guard and caretaker, B. A. Waddy, 2 m. at \$900, 10 m. at \$1,200 (less quarters, 10 m. at \$250); immigration hall attendant and caretaker, J. H. Blackmore, 8 m. at \$1,140, 4 m. at \$1,200 (less quarters, 4 m. at \$250); matron (part time), H. Blackmore, 4 m. to Mar. 31 at \$300; temporary assistance, \$106.01; Hong Kong office, \$1,186.11	26,023 08
<i>Travelling Expenses—Frais de voyages:—Sundry</i>	21 95
<i>Printing and Stationery—Impressions et papeterie:—King's Printer, supplies, \$124.23; sundries, \$26.71</i>	150 94
<i>Deportation Expenses—Frais de déportation:—Sundry</i>	243 55
<i>Miscellaneous—Divers:—Telegraph and telephone services, \$170.80; meals for staff, \$447.90; rental of office in Hong Kong, \$708.52; uniforms, \$212.30; removal expenses, T. A. Harris, Cloverdale, B.C., to Vancouver, B.C., \$19.35; sundries, \$1,051.23</i>	2,610 10
	<u>29,049 62</u>
(Page L—27)§	<u>103,053 89</u>

BOUNDARY INSPECTION — SURVEILLANCE DES FRONTIÈRES

Andover, N.B.:—Insp., F. S. Hillman, 3 m. at \$1,482, 9 m. at \$1,539; customs officers, S. M. Bishop, \$95, R. S. Curry, \$95, W. W. Curry, \$95, R. Kelly, \$95, D. W. Linton, \$50, H. W. McPhail, \$95, J. M. Pickard, \$95; overtime, \$286.52; travelling expenses, \$218.68; uniform, \$26.67; sundries, \$255.90; King's Printer, supplies, \$2.31	2,934 83
Armstrong, Que.:—Insp., J. T. Caron, May 1 to Sept. 30 at \$1,620, Oct. 1 to Dec. 12 noon at \$1,680; customs officers, A. J. Maheu, \$110.83, J. W. A. Simard, \$79.17; overtime, \$172.80; uniforms, \$29.04; sundries, \$46.22; King's Printer, supplies, \$5.70	1,450 70
Boston, Mass.:—Supervising inspectors, W. E. Bernhardt, 6 m. at \$1,710, 6 m. at \$1,767, living allowance, \$420, H. P. Harrison, 4 m. at \$1,710; travelling expenses, \$588.15; sundries, \$107.86; King's Printer, supplies, \$22.66	3,447 17
Brockville, Ont.:—Super. insp., F. C. Knight, \$1,824; insp., R. D. Webster, \$1,710; customs off., W. A. Roberts, \$95; overtime, \$428.45; travelling expenses, \$332.20; uniforms, \$62.68; sundries, \$62.13; King's Printer, supplies, \$16.79	4,531 25
Coaticook, Que.:—Insp., J. E. Vaillancourt, \$1,425; overtime, \$191.51; travelling expenses, \$81.95; uniforms, \$31.34; sundries, \$24.47; King's Printer, supplies, \$15.02	1,769 29
Cobourg, Ont.:—Customs officers, C. H. Bowndy, \$9.50, V. J. Butler, \$19.19, C. C. Fiddick, \$114, J. G. McNab, \$114, C. V. Niles, \$228	484 69
Cornwall, Ont.:—Super. insp., J. Brunette, 6 m. at \$1,710, 6 m. at \$1,767; insp., J. M. O'Callaghan, \$1,710; customs officers, J. R. C. Le Blanc, \$114, A. S. MacDonald, \$114, A. R. Revill, \$114; relief, \$21.24; overtime, \$573.04; travelling expenses, \$235.75; uniforms, \$41.83; sundries, \$15.88; King's Printer, supplies, \$14.58	4,692 82
Edmunston, N.B.:—Super insp., L. R. Belanger, \$1,710; insp., A. A. Soucy, \$1,653; customs officers, W. Birnie, \$57, J. A. Godbout, \$57, R. R. Richards, \$57; overtime, \$569.24; uniforms, \$172.70; sundries, \$98.54; King's Printer, \$3.99	4,457 67
Fort Erie, Ont.:—Supervising inspectors, C. A. Kane, \$1,710, J. R. McNeill, 6 m. at \$2,052, 6 m. at \$2,166, T. H. Ogilvie, \$1,710; senior insp., W. J. Kee, 6 m. at \$1,824, 6 m. at \$1,881; inspectors, E. J. Andrews, \$1,653, C. E. Bingleman, May 29 to Nov. 7 noon at \$1,500, W. D. Breckon, \$1,710, F. S. Brisbin, May 1 to Sept. 30 at \$1,680, Oct. 1 to Nov. 25 at \$1,740, R. D. Denham, \$1,710, C. Dunsmore, \$1,710, T. N. Fairley, May 29 to Nov. 10 noon at \$1,500, T. D. Gilmour, July 5 to Sept. 18 at \$1,500, W. Granville, May 29 to Nov. 10 noon, Mar. 26 to 31 at \$1,560, A. W. Hesler, June 15 to Nov. 7 at \$1,500, W. W. Huntley, May 15 to Nov. 10 noon at \$1,620, W. S. Jackson, May 29 to Oct. 22 at \$1,500, E. W. Johns, \$1,710, T. E. Jones, 2 m. to May 31 at \$1,710 (deceased), J. Mayor, May 1 to Sept. 30 at \$1,680, Oct. 1 to 24 noon at \$1,740, C. F. Miller, April 15 to Sept. 30 at \$1,596, 6 m. to Mar. 31 at \$1,653, H. A. Milne, \$1,653, T. J. O'Brien, May 15 to Sept. 30 at \$1,596, 6 m. to Mar. 31 at \$1,653, W. T. Oliver, May	

MINES AND RESOURCES—MINES ET RESSOURCES

IMMIGRATION AND COLONIZATION—*Con.*
IMMIGRATION ET COLONISATION—*Suite*Vote—Crédit 51—Salaries and Contingencies—*Con.*—Traitements et dépenses
contingentes—*Suite*BOUNDARY INSPECTION—*Con.*—SURVEILLANCE DES FRONTIÈRES—*Suite*Fort Erie, Ont.—*Conc.*

1 to Sept. 30 at \$1,680, Oct. 1 to Nov. 12 at \$1,740, J. C. Pattinson, \$1,710, W. J. Ryther, June 17 to Sept. 21 noon at \$1,500, J. R. Sabine, \$1,710, H. O. Saylor, \$1,653, H. C. Sexsmith, \$1,710, P. J. Sexsmith, \$1,710; overtime, \$5,857.40; travelling expenses, \$167.53; uniforms, \$927.14; sundries, \$261.48; King's Printer, supplies, \$234.90	44,187 35
Houlton, Me.:—Super. insp., F. O. Troy, \$1,824, allowance for use of car, \$180; inspectors, H. Leeming, May 15 to Jan. 16 noon, Jan. 25 to Feb. 23, Mar. 27 to 31 at \$1,425, L. H. Purinton, \$1,710; customs officers, W. E. Bailey, \$57, E. L. Cluff, \$60, C. G. McLaughlan, \$228; relief, \$19.69; overtime, \$744.80; travelling expenses, \$206.96; uniforms, \$89.35; sundries, \$342.19; King's Printer, supplies, \$22.75	6,584 00
Huntingdon, Que.:—Super insp., P. T. Baldwin, \$1,938; inspectors, W. J. Goandrey, \$1,710, allowance for use of car, \$155.55, L. N. Larche, \$1,710, C. E. Pease, 3 m. at \$1,653, July 1 to Jan. 22 noon, Feb. 25 to Mar. 31 at \$1,710; customs officers, J. J. A. Boisseau, \$114, A. Fennell, \$228, J. Fleming, \$171, L. J. B. Leduc, \$57, H. J. McCaffrey, \$19, E. W. McEwen, \$50, J. W. McGill, \$218.50, A. P. O'Reilly, \$104.04, W. Patterson, \$99.75, C. H. Pease, \$114, S. Z. Queneville, \$15, J. E. Robidoux, \$50, W. A. Rowat, \$28.50, H. T. Wilson, \$24.26; relief, \$57.88; overtime, \$872.21; travelling expenses, \$582.73; uniforms, \$116.02; sundries, \$48.92; King's Printer, supplies, \$22.21	10,036 81
Kingston, Ont.:—Insp., B. O. Smith, \$1,596; customs officers, C. Clark, \$95, H. C. McIlquham, \$71.25, R. J. Somerville, \$95; overtime, \$114.76; uniforms, \$58.01; sundries, \$4.83	2,034 85
Lacolle, Que.:—Supervising inspectors, N. C. Hebert, 11 m. to Mar. 31 at \$1,824, H. MacMillan, 1 m. to April 30 at \$1,938; inspectors, A. D. Beattie, May 28 to Jan. 28 noon at \$1,500, J. M. Benoit, May 28 to Dec. 26 at \$1,500, W. L. Dawson, May 1 to Jan. 28 noon at \$1,425, C. Gaboriau, May 1 to Jan. 28 noon at \$1,425, A. T. Goyette, \$1,425, A. P. Lamothe, 6 m. at \$1,539, 6 m. at \$1,596, J. A. Lecuyer, April 1 to Aug. 10 at \$1,710 (retired), H. E. Légare, \$1,710, C. F. Millard, \$1,596, A. W. H. Morin, July 1 to Dec. 9 noon at \$1,500, P. J. Poulin, April 4 to Dec. 12 noon, Mar. 27 to 31 at \$1,482, W. L. Yates, \$1,482; clerk, C. J. Fitzgerald, \$1,482; customs officers, J. T. Akester, \$15.78, D. J. Beattie, \$13.30, J. W. Beaudin, \$57, S. R. Blandford, \$95, P. Bourassa, \$47.50, A. Brosseau, \$81.45, L. Brosseau, \$228, H. Cote, \$228, J. Coupal, \$114, S. Coupal, \$171, G. A. Couture, \$57, R. Derick, \$190, A. De Serres, \$171, J. G. Fredette, \$36.77, P. A. Hebert, \$14.25, C. W. Hewson, \$19.61, A. L. Hunter, \$57, C. I. Jackson, \$88.56, X. J. R. Lamoureux, \$47.81, J. A. P. Lange, \$47.81, J. J. Le Quin, \$95, J. A. Mailloux, \$33.25, J. A. Parent, \$110.35, J. A. G. Parenteau, \$47.50, W. B. Sturgeon, \$95, T. A. Sutherland, \$55; relief, \$3.57; overtime, \$2,890.62; allowance for use of car, \$300; travelling expenses, \$529.10; cost of share of new Customs-Immigration quarters at Henrysburg, Que., O.C. Nov. 20, 1936, \$2,000; uniforms, \$390.93; sundries, \$365.57; King's Printer, supplies, \$109.33	26,202 34
McAdam Jct., N.B.:—Super. insp., J. T. Bottomley, 2 m. to May 31 at \$1,824; insp., H. P. Wade, \$1,539; customs officers, A. C. Kelly, \$91.89, J. Skene, \$95, W. H. Williams, \$95; overtime, \$177.46; travelling expenses, \$959.11; uniforms, \$29.09; sundries, \$106.89; King's Printer, supplies, \$21.13	3,418 53
Megantic, Que.:—Insp., A. A. McDonald, April 1 to Feb. 8 at \$1,710 (retired); customs officers, J. A. Brulotte, \$61.76, A. Cauchon, \$61.43, J. P. Charbonneau, \$61.12, A. J. Maheu, \$47.50, J. Michaud, \$59.73, J. F. Morin, \$62.98, J. F. E. Poulin, \$27.50, J. N. O. Poulin, \$36.57, J. J. Sevigny, \$124.13; overtime, \$97.76; travelling expenses, \$160.55; uniforms, \$26.67; sundries, \$5.82; King's Printer, supplies, \$5.94	2,305 17
Milltown, N.B.:—Insp., R. J. Casey, \$1,596; customs officers, S. Busby, \$54.82, G. L. Casey, \$57, E. S. Hayman, \$57, V. E. Hiltz, \$57, C. V. Norton, \$57, K. J. Webber, \$57, K. M. Woodcock, \$95; relief, \$22.77; overtime, \$286.52; travelling expenses, \$7.89; uniforms, \$26.67; sundries, \$13.87	2,388 54
Niagara Falls, Ont.:—Supervising inspectors, A. D. Adamson, 6 m. to Nov. 30 at \$1,710, J. C. Donohue, 4 m. to Oct. 31 at \$1,710 (deceased), F. J. Gray, 3 m. to Mar. 31 at \$1,710, H. W. Pew, \$1,710, M. H. Prentiss, \$1,710, R. Rigg, \$1,710, C. E. Willox, \$2,622; senior insp., H. A. Hunt, \$2,062; inspectors, A. D. Adamson, 2 m. to May 31 at \$1,710 (promoted), M. V. Ciaus, \$1,710, W. W. Condlin, \$1,710, H. J. Cudmore, \$1,710, F. J. Cupolo,	

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

IMMIGRATION AND COLONIZATION—Con.
IMMIGRATION ET COLONISATION—Suite

**Vote — Crédit 51 — Salaries and Contingencies—Con. — Traitements et dépenses
contingentes—Suite**

BOUNDARY INSPECTION—Con. — SURVEILLANCE DES FRONTIÈRES—Suite

Niagara Falls, Ont.—Conc.

\$1,710, H. Damude, \$1,710, M. W. Deacon, June 1 to Oct. 22 at \$1,620, L. Flower, \$1,710, E. J. Garrett, \$1,710, F. J. Gray, 9 m. to Dec. 31 at \$1,710 (promoted), G. W. Greves, June 1 to Oct. 22 at \$1,620, H. H. Harris, July 21 to Oct. 27 noon at \$1,500, W. S. Higgins, \$1,710, W. H. Holcomb, May 15 to Oct. 24 noon at \$1,680, R. G. James, 5 m. to Sept. 30 at \$1,596, Oct. 1 to 9 noon, Oct. 18 to Mar. 31 at \$1,653, L. G. Leish, May 15 to Oct. 24 noon at \$1,680, C. K. M. MacKay, \$1,710, E. S. Maidens, \$1,710, A. S. Morrison, 12 m. at \$1,710 (less 10 d. Aug.), W. A. Paterson, \$1,710, W. H. Shoveller, \$1,710, G. P. Shrimpton, May 15 to Oct. 24 noon, Nov. 22 to Mar. 31 at \$1,596, H. G. Skinner, 12 m. at \$1,710 (less 8 d. Aug.), J. W. Smith, June 15 to Oct. 22 at \$1,500, J. B. Stewart, \$1,710, H. N. Wheeler, April 26 to Oct. 9 noon, Feb. 10 to Mar. 31 at \$1,740, H. F. Woosman, May 1 to Oct. 9 noon at \$1,740; stenographer, A. L. May, 6 m. at \$1,080, 6 m. at \$1,140; customs off. R. H. Hamilton, \$96.22; overtime, \$5,262.06; gasoline and oil, \$68.90; travelling expenses, \$321.21; uniforms, \$852.57; sundries, \$466.67; King's Printer, supplies, \$303.83	55,917 71
Prescott, Ont.:—Super. insp., O. L. Walford, \$1,824; inspectors, W. W. Kingston, \$1,710, G. E. Slattery, \$1,710, overtime, \$812.44; travelling expenses, \$71.70; uniforms, \$96.35; sundries, \$71.36; King's Printer, supplies, \$15.50	6,311 35
Rock Island, Que.:—Super. insp., W. F. Beattie, June 15 to Mar. 31 at \$1,710; inspectors, W. E. Huse, \$1,710, C. J. Labonte, \$1,653, M. B. Quillinan, April 1 to Dec. 14 at \$1,500 (less \$47.46 adjustment under Salary Deduction Act), G. L. Rickard, \$1,653; customs officers, W. W. Curtis, \$95, L. B. Jenkins, \$95, P. J. Lecours, \$95, F. C. Miller, \$82.20, S. Prangley, \$95, L. E. Roberge, \$95, D. Sinclair, \$171, C. E. Smith, \$78.37; overtime, \$1,100.73; travelling expenses, \$220.82; uniforms, \$152.03; sundries, \$86.85; King's Printer, supplies, \$40.25	9,790 74
St. Armand, Que.:—Super. insp., L. P. Poissant, \$1,824; inspectors, E. A. Deyette, July 1 to Dec. 9 noon at \$1,560, C. B. Fulford, \$1,482, A. H. Grevatt, April 4 to Mar. 31 at \$1,425 (less 3 d. April), G. L. Kidd, \$1,596, C. Lauziere, \$1,539, J. P. Morissette, \$1,425, J. Mosher, May 21 to Nov. 10 noon at \$1,500, E. H. Naylor, 3 m. at \$1,482, 9 m. at \$1,539; customs officers, C. G. Campbell, \$60, N. F. Creller, \$114, J. Hebert, \$114, J. B. Lareau, \$114, A. H. Merritt, \$95; relief, \$22.58; overtime, \$2,213.56; allowance for use of car, \$300; rent of office, \$120; travelling expenses, \$281.85; uniforms, \$272.72; sundries, \$271.67; King's Printer, supplies, \$94.93	16,260 89
St. Leonard, N.B.:—Insp., J. T. I. Cyr, 6 m. at \$1,425, 6 m. at \$1,482; customs officers, E. J. Dube, \$95, G. M. McIntyre, \$95, J. C. G. Pelletier, \$95; relief, \$14.60; overtime, \$286.52; travelling expenses, \$120.85; uniforms, \$2.32; sundries, \$174.12; King's Printer, supplies, \$13.40	2,350 31
St. Stephen, N.B.:—Super. insp., J. T. Bottomley, 10 m. to Mar. 31 at \$1,824; inspectors, A. J. Douglas, \$1,710, H. E. MacDonald, \$1,539, N. S. McGarry, 3 m. at \$1,482, 9 m. at \$1,539, G. S. Ryder, June 30 to Dec. 8 at \$1,500; overtime, \$1,276.04; travelling expenses, \$643.80; uniforms, \$223.31; sundries, \$97.70; King's Printer, supplies, \$59.06	9,255 09
Sarnia, Ont.:—Super. insp., H. MacMillan, 11 m. to Mar. 31 at \$1,938; removal expenses, Lacolle, Que., to Sarnia, Ont., \$185; inspectors: F. J. Arnberg, 3 m. at \$1,539, 9 m. at \$1,596 (less 15 d. Aug.), H. E. Cattell, \$1,710, F. S. Elliott, \$1,653, C. G. Kilbreath, 6 m. at \$1,425, 6 m. at \$1,482, A. Lang, \$1,710, A. J. C. Payne, April 9 to Jan. 27 noon at \$1,596, G. S. Peters, \$1,710, F. G. Tigwell, May 15 to Jan. 14 noon and Jan. 16 to 26 at \$1,500 (less \$37.50 adjustment under Salary Deduction Act), H. A. Vince, July 27 to Dec. 3 at \$1,500; customs officers, W. J. Backus, \$171, M. H. Brush, \$57, W. J. Kelso, \$47.50, W. F. Moran, \$95, W. Pearson, \$95, R. D. Purser, \$39.98; H. M. Stover, \$114, R. D. Yorke, \$28.82, I. L. Young, \$28.82; overtime, \$2,169.24; allowance for use of car, \$240; travelling expenses, \$518.44; uniforms, \$322.57; sundries, \$255.91; King's Printer, supplies, \$135.70	18,846 89
Sault Ste. Marie, Ont.:—Super. insp., T. J. Wyatt, \$1,995; inspectors, E. Bradley, April 1 to Dec. 14 at \$1,710 (retired), P. Cowie, \$1,539, H. C. Foley, Sept. 22 to Mar. 31 at \$1,425 (less 7 d. Feb.), G. Yull, 6 m. at \$1,425, 6 m. at \$1,482; Customs officers, B. Harris, \$57, E. Henry, \$57, T. F. Orr, \$57, W. G. White, \$23.75, A. Wilding, \$57; temporary assistance, \$45; relief, \$5.30; overtime, \$931.75; travelling expenses, \$665.85; uniforms, \$125.33; sundries, \$311.33; King's Printer, supplies, \$67.79	9,312 27

MINES AND RESOURCES—MINES ET RESSOURCES

IMMIGRATION AND COLONIZATION—*Con.*
IMMIGRATION ET COLONISATION—*Suite*Vote — Crédit 51 — Salaries and Contingencies—*Con.* — Traitements et dépenses
contingentes—*Suite*BOUNDARY INSPECTION—*Con.* — SURVEILLANCE DES FRONTIÈRES—*Suite*

Stanhope, Que.:—Inspectors, W. F. Beattie, April 1 to June 14 at \$1,539, J. A. L'Heureux, July 13 to Mar. 31 at \$1,425; customs officers, J. R. A. Aubre, \$121.35, J. V. Gobeille, \$59.15, A. K. Grady, \$190, L. Lacroix, \$190, G. Moyle, \$104.50, F. L. Whiting, \$160.89, overtime, \$276.74; travelling expenses, \$22.82; uniforms, \$28.99; sundries, \$168.67; King's Printer, supplies, \$18.80.....	2,681 04
Sutton, Que.:—Super. insp., L. A. Gingras, \$1,824; inspectors, A. A. Beauvais, \$1,710, A. S. Premont, \$1,596; customs officers, J. A. A. Bergeron, \$97.45, L. P. Boiullette, \$190, E. N. Cardin, \$57, H. M. Clark, \$228, C. R. Crowell, \$114, F. Cusson, \$95, J. V. Gobeille, \$71.10, E. G. Hiller, \$57.92, A. J. V. Lague, \$60, H. A. Lebeau, \$95, L. E. Longeway, \$60, J. O. Parent, \$114, G. M. N. Patry, \$196.64, R. H. Phelps, \$60, L. G. Tremblay, \$95; relief, \$33.58; overtime, \$516.68; allowance for use of car, \$172.17; travelling expenses, \$20.67, uniforms, \$94.01; sundries, \$63.09; King's Printer, supplies, \$25.79.....	7,647 10
Windsor, Ont.:—Supervising inspectors, O. G. Adams, \$2,850, allowance for use of car, \$300, A. T. Anderson, \$1,710, V. M. Byrne, \$1,710, W. Grice, \$1,710, H. P. Harrison, 8 m. at \$1,710 (also at Boston), B. Hyland, \$1,710, T. J. Lane, \$1,710, P. H. McKinley, \$1,710, F. L. Phillips, \$1,710, E. H. Prince, \$1,710, L. S. Wall, \$1,710, J. Wilson, \$1,710; senior insp., C. McGinty, 6 m. at \$1,767, 6 m. at \$1,824, arrears, \$40.45; inspectors, J. W. Alton, \$1,539, A. E. Bales, 8 m. to Nov. 30 at \$1,539, H. E. Bernhardt, \$1,710, F. E. Brill, \$1,596, G. F. Brooks, 12 m. at \$1,539 (less 1 d. Aug.), D. E. Cromar, \$1,539, J. Elms, \$1,710, J. F. Cannon, \$1,710, W. E. Chadwick, \$1,596, J. J. Collins, \$1,710, C. G. Creasy, 12 m. at \$1,539 (less 1 d. Aug.), D. E. Cromar, \$1,539, J. Elms, \$1,710, J. F. Ford, \$1,596, C. E. Fordham, \$1,596, F. Fraser, 12 m. at \$1,596 (less 7 d. May), L. C. Goddard, \$1,539, T. Hesketh, \$1,710, D. C. Horsburgh, \$1,653, C. L. Jones, \$1,710, A. Lavery, 12 m. at \$1,710 (less 1 m. 21 d.), F. C. Lewis, \$1,596, J. M. Madden, \$1,539, H. W. Mansfield, June 26 to Dec. 4 noon at \$1,500, L. H. Marley, 12 m. at \$1,539 (less 11 d. Feb.), C. E. Mason, April 1 to Jan. 22 at \$1,710, gratuity on retirement, \$900, H. Maw, \$1,539, N. T. McGuire, 12 m. at \$1,596 (less 15 d.), H. Mills, \$1,596, E. Moody, 12 m. at \$1,710 (less 1 d. Aug.), C. B. Moulton, \$1,596, W. O. Murray, June 1 to Nov. 10 noon at \$1,500, W. L. O'Neil, \$1,539, W. Pearce, 12 m. at \$1,710 (less 7 d.), J. B. Potvin, \$1,539, G. A. Rawlins, \$1,596, J. A. Renaud, \$1,596, T. J. Robertson, Aug. 5 to Jan. 13 noon at \$1,500, J. O. St. Pierre, \$1,596, A. T. Scott, \$1,596, L. J. Scully, \$1,596, A. Smith, \$1,596, T. Thorpe, \$1,710, D. Vannan, \$1,710, W. A. Walsh, \$1,596, R. B. Watson, \$1,710, F. M. Watt, \$1,710, D. A. Weir, \$1,596, G. A. Westrop, \$1,596, B. E. Woodrow, \$1,596, L. T. Young, \$1,539; clerks and stenographers, A. L. Brown, \$1,200, I. O. McFadden, \$1,311, N. A. Pickering, 9 m. at \$1,311, 3 m. at \$1,368; customs officers, W. C. Heyd, \$48.03, S. Taylor, \$47.50; overtime, \$11,987.31; travelling expenses, \$515.76; uniforms, \$2,069.66; sundries, \$783.11; King's Printer, supplies, \$360.17.....	122,336 26
Coutts, Alta.:—Supervising inspectors, W. Elliott, 11 m. to Feb. 28 at \$1,824, T. Winton, 1 m. to Mar. 31 at \$1,710; inspectors, W. A. Shardlow, \$1,710, T. Winton, 11 m. to Feb. 28 at \$1,710, removal expenses, Windsor, Ont., to Coutts, Alta., \$349.78 (O.C. Aug. 28, 1936); overtime, \$155.04; travelling expenses, \$762.70; uniforms, \$94.02; sundries, \$242.72; King's Printer, supplies, \$2.32.....	6,698 58
Emerson, Man.:—Super. insp., R. B. Irvine, \$1,995; inspectors, G. A. Aylward, \$1,710, W. H. Baskerville, \$1,596, W. R. Baskerville, \$1,596, W. H. Bowness, \$1,539, J. W. Brown, April 1 to Jan. 15 at \$1,710 (retired), B. Murphy, \$1,596, living allowance, \$75.48, removal expenses, North Portal, Sask. to Emerson, Man., \$259.95 (O.C. Sept. 3, 1936), L. P. Root, May 2 to June 30 at \$1,539, 9 m. at \$1,596, C. Unsworth, \$1,653; customs officers, L. B. Ashby, \$52.25, H. V. Stinson, \$52.25, J. Sullivan, \$42.38; relief, \$4.35; overtime, \$642.20; travelling expenses, \$906.20; uniforms, \$286.54; sundries, \$307.88; King's Printer, supplies, \$3.42.....	17,118 71
Fort Frances, Ont.:—Super. insp., J. F. Lafreniere, \$1,995; inspectors, W. A. Martin, \$1,710, F. J. Strain, \$1,710, G. L. Wall, \$1,710; overtime, \$953.61; travelling expenses, \$420.40; uniforms, \$134.60; sundries, \$92.54; King's Printer, supplies, \$1.32.....	8,727 47
Fort William, Ont.:—Insp., E. R. Boisey, \$1,710; overtime, \$60.99; travelling expenses, \$27.10; uniforms, \$31.34; sundries, \$86.75; King's Printer, supplies, \$1.32.....	1,917 50

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

IMMIGRATION AND COLONIZATION—Con.
IMMIGRATION ET COLONISATION—Suite

**Vote — Crédit 51 — Salaries and Contingencies—Con. — Traitements et dépenses
contingentes—Suite**

BOUNDARY INSPECTION—Con. — SURVEILLANCE DES FRONTIÈRES—Suite

Gretna, Man.:—Insp., G. G. McEdward, \$1,539; overtime, \$232.56; travelling expenses, \$71.50; uniforms, \$31.34.....	1,874 40
Kingsgate, B.C.:—Super. insp., S. E. Gunn, \$1,710; inspectors, W. H. Dunbar, \$1,653, H. J. Hogg, 3 m. to Oct. 22 at \$1,500; overtime, \$681.96; travelling expenses, \$444.25; uniforms, \$93.96; sundries, \$67.77; King's Printer, supplies, \$4.83.....	5,030 77
Newgate, B.C.:—Insp., E. N. Lynn, 1 m. to April 30 at \$1,710 (transferred to Carway); customs officer, J. W. Shorthouse, \$166.45, relief, \$9.87; overtime, \$30.40; uniforms, \$33.72; sundries, \$3.....	385 94
Northgate, Sask.:—Inspectors, N. I. Herrington, 1 m. at \$190, 5 m. at \$1,590, 6 m. at \$1,653, E. R. Osler, July 21 to Oct. 3 at \$1,500; overtime, \$312.68; travelling expenses, \$236.64; uniforms, \$60.35; sundries, \$6.....	2,429.45
North Portal, Sask.:—Supervising inspectors, W. H. Dorsey, 11 m. to Feb. 28 at \$1,995 (retired), W. Elliott, 1 m. to Mar. 31 at \$1,824; inspectors, C. G. Davis, \$1,710, H. W. Kirk, \$1,710, removal expenses from Fort William, Ont., to North Portal, Sask., \$264.69 (O.C. May 14, 1936); customs off., G. H. Crosson, \$114; overtime, \$759.21; travelling expenses, \$274.50; uniforms, \$98.60; sundries, \$123.42; King's Printer, supplies, \$8.98.....	7,044 15
Pigeon River, Ont.:—Inspectors, G. F. Gibbs, \$1,710, H. G. Hills, May 15 to June 30 at \$1,539, F. Tyler, June 29 to Oct. 21 noon at \$1,620; overtime, \$426.76; travelling expenses, \$67.85; uniforms, \$86.92; sundries, \$11.02.....	3,004 40
Port Arthur, Ont.:—Inspectors, H. G. Hills, 6 m. to Dec. 31 at \$1,539, 3 m. at \$1,596, J. Wright, \$1,653; overtime, \$101.08; travelling expenses, \$13; uniforms, \$31.34; sundries, \$107.15; King's Printer, supplies, \$2.94.....	3,077 01
Rainy River, Ont.:—Super. insp., A. Brown, \$1,824; insp., J. A. Crackel, \$1,710; overtime, \$573.04; travelling expenses, \$148.35; uniforms, \$62.68; sundries, \$52.29.....	4,370 36
Snowflake, Man.:—Customs off., R. W. Bissett, \$200; relief, \$10.72; rent of office, \$90.....	300 72
Sprague, Man.:—Insp., A. E. Powell, \$1,710; uniforms, \$31.34; sundries, \$4.09....	1,745 43
Winnipeg, Man.:—District insp., W. W. Robertson, \$2,394; super. inspectors, A. Jankiewicz, \$1,824, J. W. Mossop, \$1,710; customs off., A. M. MacMartin, \$114; relief, \$6.45; travelling expenses, \$659.31; uniforms, \$96.34; sundries, \$1.....	6,805 10
Douglas, B.C.:—Super. insp., C. D. Reid, 11 m. to Feb. 28 at \$1,824; inspectors, G. S. C. Cooper, July 19 to Jan. 7 noon at \$1,500; T. A. Harris, 2 m. to May 31 at \$1,482 (transferred to Vancouver), A. D. Harvey, 3 m. at \$1,482, 9 m. at \$1,539, B. L. Hugh, \$1,710, D. McNamara, \$1,710; overtime, \$1,211.15; travelling expenses, \$4.25; uniforms, \$156.40; sundries, \$151.90; King's Printer, supplies, \$15.82.....	9,106 90
Huntingdon, B.C.:—Super. insp., J. I. Martin, 6 m. at \$1,767, 6 m. at \$1,824; inspectors, T. F. Morton, \$1,710, H. T. Peters, \$1,653; overtime, \$894.52; travelling expenses, \$237.31; uniforms, \$96.28; sundries, \$83.41.....	6,470 02
Osoyoos, B.C.:—Insp. E. A. Sillett, 3 m. at \$1,482, 9 m. at \$1,539; customs off., D. P. Simpson, \$190, relief, \$10.98; overtime, \$287.44; travelling expenses, \$81.20; uniforms, \$31.34; sundries, \$12.....	2,137 71
Pacific Highway, B.C.:—Supervising inspectors, C. D. Reid, 1 m. to Mar. 31 at \$1,824, B. R. Whiteley, April 1 to Dec. 22 at \$1,995 (retired); inspectors, J. W. Aitken, \$1,596, W. Allen, \$1,596, K. E. Calbick, Aug. 1 to Jan. 18 noon at \$1,500 (less 2 d.), F. Clarkson, April 16 to Mar. 31 at \$1,425 (less 1 d. April), R. B. Collishaw, \$1,710, W. J. Fraser, 10 m. to Jan. 31 at \$1,710 (transferred to Vancouver), H. B. McNaughton, July 18 to Mar. 31 at \$1,425, J. C. M. Willcock, July 17 to Mar. 31 at \$1,425; overtime, \$1,746.03; travelling expenses, \$349.55; uniforms, \$357.37; sundries, \$116.23; King's Printer, supplies, \$11.34..	14,567 77
Vancouver, B.C.:—District insp., H. W. Wilson, \$2,394; super. insp., A. C. O'Neill, April 1 to Mar. 17 at \$1,824 (retired); investigating off., W. J. Fraser, 2 m. to Mar. 31 at \$1,767; insp., T. A. Harris, 1 m. at \$1,482, 8 m. to Feb. 28 at \$1,539; travelling expenses, \$101.37; uniforms, \$89.34; sundries, \$353.59.....	6,137 65
Seattle, Wash.:—Super. insp., W. F. S. Creery, \$1,995, living allowance, \$300; inspectors, P. W. Bird, July 19 to Nov. 25 at \$1,500, Dec. 29 to Jan. 27, Feb. 11 to 24 at \$1,425, living allowance, \$118.96, R. E. Fitzgerald, \$1,710, living allowance, \$300; rent of office, \$540; travelling expenses, \$67.55; uniforms, \$146.10; sundries, \$294.87; King's Printer, supplies, \$13.88.....	6,192 23

MINES AND RESOURCES—MINES ET RESSOURCES

IMMIGRATION AND COLONIZATION—*Con.*
IMMIGRATION ET COLONISATION—*Suite*Vote — Cr dit 51 — Salaries and Contingencies—*Con.* — Traitements et d penses
contingentes—*Suite*BOUNDARY INSPECTION—*Con.* — SURVEILLANCE DES FRONTI RES—*Suite*

Relieving inspectors:—District inspectors, C. G. Greene, \$2,850, H. U. McCrum, 3 m. at \$2,508, 9 m. at \$2,622; supervising inspectors, J. A. Boulais, \$1,824, H. B. Demers, \$1,824, R. R. Hamilton, \$1,824, N. C. Hebert, 1 m. to April 30 at \$1,824 (transferred to Lacolle), W. M. High, \$1,824; inspectors, A. D. Adamson, Dec. 1 to 31 at \$1,710, A. E. Bales, 4 m. to Mar. 31 at \$1,539, W. A. McFaul, 5 m. to Mar. 31 at \$1,596, D. M. Morrison, Nov. 19 noon to Mar. 31 at \$1,425 (less 18½ d. Jan.); travelling expenses, \$1,236.86; uniforms, \$243.48; sundries, \$7.30; King's Printer, supplies, \$4.33.....	16,153 62
Sundry Ports:—	
Carway, Alta.:—Inspectors, E. N. Lynn, 11 m. to Mar. 31 at \$1,710, living allowance, \$77.42, W. Roberts (part time), \$158.33, O. D. Steed, 2 m. to July 31 (part time) at \$120, Aug. 1 to Oct. 9 noon at \$1,500; overtime, \$113.32; travelling expenses, \$17; uniforms, \$29.01; sundries, \$7.70.....	2,274 55
Chief Mountain, Alta.:—Inspectors, J. B. Fisher, Aug. 3 to 31 at \$1,500, R. W. Weiler (part time), \$55.83; relief, \$5.22; overtime, \$28.32; travelling expenses, \$77.72; sundries, \$38.97.....	323 00
Immigration inspectors (part time): Nova Scotia: Yarmouth, G. G. Miller, \$190. New Brunswick: Centreville, F. A. Gibson, \$95, relief, \$5.37; Clair, T. Paillard, \$190, C. A. Pincombe, \$114, H. J. Soucy, \$114; Connors, J. P. Pelletier, \$95; Gillespie Portage, F. H. Rideout, \$114, relief, \$6.51; Grand Falls, L. P. Gillespie, \$39.58, G. A. Hallett, \$23.75, J. A. Stacey, \$32.99, overtime, \$4.56; North Head, W. A. Thomas, \$100; North Lake, J. C. Moore, \$114; St. Andrews, W. H. Carson, \$57, K. B. Cross, \$11.86, H. P. Wilson, \$57; Welchpool, M. W. Newman, \$114; Wilson's Beach, H. G. Brown, \$114. Quebec: Comin's Mills, E. Brulotte, \$45.97, J. R. E. Charest, \$9.86, J. N. A. Lemieux, \$76, W. D. Sideleau, \$133; Hereford Road, E. Boisclair, \$57, J. R. E. Charest, \$17.47, J. R. Gagner, \$114, L. Therrien, \$22.22; Montreal, \$205.83; St. Regis, E. Caza, \$95. Ontario: Aultsville, W. M. Evans, \$6.33, C. W. Hanes, \$70.33; Gananoque, J. E. Dowsley, \$56.19, K. E. Mullen, \$228, G. E. O'Brien, \$60.48; Goderich, H. Hays, \$95; Kenora, W. F. Richards, \$190; London, E. H. Anstie, \$171; Midland, J. W. Webber, \$57; Morrisburg, W. C. Cochrane, \$114, C. M. Crobar, \$142.48, C. J. Lazerte, \$228, L. J. McCormack, \$111.78, relief, \$17.76; Niagara-on-the-Lake, H. C. Sheppard, \$57; Parry Sound, D. Hudson, \$47.50; Port Colborne, E. C. Little, \$95; Port Dover, N. Holden, \$95, relief, \$18.74; Port Stanley, J. A. Quinn, \$95; Rockport, J. F. Fitzsimmons, \$10.72, D. C. Kelly, \$74.54, L. Williams, \$17.62; Toronto, overtime, \$20.90. Manitoba: Bannerman, C. H. Kelly, \$110.83; Cartwright, A. G. Hopper, \$190, relief, \$10.72; Coulter, F. M. Pope, \$190; Crystal City, P. R. W. Baker, \$190, relief, \$11.23; Goodlands, A. H. Atkinson, \$190, relief, \$11.08; Haskett, H. T. Borthwick, \$190, relief, \$11.54; Lena, H. R. Beer, \$190, relief, \$10.21; Piney, W. T. Holden, \$190; Turtle Mountain, O. E. Calverley, \$95, relief, \$5.49; Windygates, S. F. Fargey, \$190, relief, \$11.38. Saskatchewan: Big Beaver, D. L. Paterson, \$114; Big Muddy, W. A. Kilpatrick, \$95; East Poplar River, R. W. Dalling, \$165.18, R. J. Dand, \$18.38, relief, \$10.78; Elmore, J. D. Burton, \$95, A. Nelson, \$95; Estevan, M. J. Roche, \$190; Marienthal, W. H. Yardley, \$190, relief, \$10.78; Monchy, F. Edwards, \$9.50; Treelon, D. McIntosh, \$190; West Poplar River, J. P. Cleghorn, \$190, relief, \$9.50; Willow Creek, C. R. Hogg, \$190, relief, \$10.81; Alberta: Aden, H. McLachlan, \$190, relief, \$7.92; Whiskey Gap, J. W. R. Gresham, \$114, relief, \$7.05; Wildhorse, R. S. Yates, \$190, relief, \$33.97. British Columbia: Aldergrove, H. A. J. Monk, \$68.18, J. B. Sloan, \$72.82, H. S. Wright, \$142.48, relief, \$24.21; Atlin, R. D. Nelson, \$49.80; Boundary Bay, A. R. Burton, \$94.11, E. T. Calvert, \$142.48, W. V. Fenton, \$13, C. M. McPhatter, \$88.67, P. V. Pereton, \$83.41, A. M. Roberts, \$7.68, relief, \$1.53; Bridesville, A. F. Eddy, \$95; Carson, R. D. Forrester, \$95, relief, \$5.40; Cascade City, A. J. McLean, \$237.48, E. S. Reynolds, \$77.75, relief, \$14.07; Flathead Valley, J. W. Sinclair, \$94.21, relief, \$11.23; Grand Forks, W. J. Cook, \$8.44; Midway, D. R. Young, \$142.48, relief, \$8.04; Myncaster, A. Porter, \$95, relief, \$5.36; Nelway, H. John, \$190; Paterson, A. Cox, \$190, relief, \$11.61; Prince Rupert, T. F. Fitch, \$285, relief, \$29.70; Roosville, C. P. Howell, \$190; Rykerts, P. W. Crawford, \$63.33, C. Davis, \$190; Sidney, W. Peddle, \$190, D. Sparling, \$71.24; Silver	

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

IMMIGRATION AND COLONIZATION—Con.
IMMIGRATION ET COLONISATION—Suite

**Vote — Cr dit 51 — Salaries and Contingencies—Con. — Traitements et d penses
contingentes—Suite**

BOUNDARY INSPECTION—Conc.—SURVEILLANCE DES FRONTI RES—Fin

Sundry Ports—Conc.

Immigration Inspectors—Conc.

Heights, P. Campbell, \$186.42, relief, \$25.04; Simalkameen, R. H. Carmichael, \$142.48, relief, \$26.61; Stewart, W. G. Broad, \$281.04, J. MacMillan, \$190, relief, \$61.83; Stikeen, D. P. Miller, \$47.50; Taku River, W. J. Nelson, \$47.50; Waneta, W. Crowe, \$237.48, relief, \$14.05; White Pass, D. A. Betts, \$50, L. A. McAlister, \$95, W. A. Noble, \$259.72, relief, \$11.82. Yukon: T. B. Caulkin, \$100, J. Mitchell, \$66.67, D. Withers, \$33.33; travelling expenses, \$122.08; sundries, \$274.74; King's Printer, supplies, \$14.18.....	13,749 89
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(Page L—27) \$ 529,278 99

INLAND AGENCIES — AGENCES DE L'INT RIEUR

Athabaska, Alta.:—Immig. hall caretaker, F. J. Lawley, April 1 to Nov. 27 noon at \$300; sundries, \$87.80.....	284 88
Calgary, Alta.:—Investigating officers, J. D. McIlhargey, \$1,881, G. F. Todd, 6 m. at \$1,938, 6 m. at \$2,052; typist, P. A. McKenzie, \$1,080. Travelling expcnses, \$1,160.30; uniforms, \$62.68; sundries, \$301.74; King's Printer, supplies, \$10.77..	6,491 49
Edmonton, Alta.:—Super. insp., C. J. Whiddon, \$1,995, allowance for use of car, \$180; investigating off., R. F. Dutton, 6 m. at \$1,425, 6 m. at \$1,482; guards, W. W. J. Louch, June 23 to Mar. 31 at \$900, M. McFayden, 3 m. to June 30 at \$900, G. Shannon, \$1,020; caretaker, H. J. Davey, \$950.04 (quarters valued at \$250 not included); stenographers, A. Scott, \$720, V. Sullivan, \$1,482; matron (part time), S. A. Davey, \$180. Meals for staff while on duty, \$168; travelling expenses, \$1,717.85; uniforms, \$127.78; sundries, \$679.98; King's Printer, supplies, \$19.57.	11,613 72
Falher, Alta.:—Immig. hall caretaker, R. R. Goodwin, quarters, heat and light; sundries.	11 25
Grande Prairie, Alta.:—Immig. hall caretaker, J. A. MacDonald, April 1 to Nov. 27 noon at \$300; sundries, \$73.60.....	270 68
Hamilton, Ont.:—Supervising inspectors, A. D. Adamson, 3 m. to Mar. 31 at \$1,710, allowance for use of car, \$20, removal expenses, Niagara Falls to Hamilton, Ont., \$39.60 (O.C. April 16, 1937), H. C. Sweeney, April 1 to Dec. 20 at \$1,824 (retired); stenographer, R. E. Cruickshanks, \$1,254. Travelling expenses, \$584.90; uniforms, \$31.34; sundries, \$230.16; King's Printer, supplies, \$221.33... ..	4,122 89
Ottawa, Ont.:—District superintendents, C. G. Congdon, 8 m. at \$3,249, 4 m. at \$3,420, J. S. Fraser, \$3,933; investigating officers, C. W. Desormeau, 3 m. at \$1,710, 9 m. at \$1,767, W. H. Foran, \$1,938, W. S. Larose, 6 m. at \$1,938, 6 m. at \$2,052, M. Leamy, 4 m. to Mar. 31 at \$1,653; inspector, G. L. Bourne, 4 m. to July 31 at \$1,539; head clerk, J. J. Hughes, 4 m. to Mar. 31 at \$2,850; principal clerks, W. J. Bambrick, \$2,280, A. M. Henderson, 12 m. at \$2,280 (less \$1), J. D. McFarlane, \$2,280, L. J. McGinnis, 4 m. to Mar. 31 at \$1,824, F. A. Smith, \$2,280; clerks and stenographers, D. E. Barnes, 12 m. at \$1,200 (less 3½ d. April), M. J. Bingham, 4 m. to Mar. 31 at \$1,368, M. R. Devlin, 8 m. to Nov. 30 at \$1,311, J. O. E. Gervais, 4 m. to Mar. 31 at \$1,254, A. M. Gowan, 4 m. to Mar. 31 at \$1,311, W. F. Gray, 4 m. to Mar. 31 at \$1,824, H. A. Grier, \$1,311, G. L. Howard, 4 m. to Mar. 31 at \$1,767, D. I. Hutchison, \$1,200, G. B. Leonard, 4 m. to Mar. 31 at \$1,539, R. Little, \$1,596, D. M. Loan, 4 m. to Mar. 31 at \$1,824, M. M. Manners, \$1,254, L. E. Matthews, \$1,311, L. J. McGinnis, 8 m. to Nov. 30 at \$1,824 (promoted), M. G. McLaren, 3 m. to Mar. 31 at \$1,080, M. K. Mears, April 1 to Dec. 23 at \$1,311 (resigned), G. M. Pooler, \$1,254, M. I. Rivest, 4 m. to Mar. 31 at \$1,539, E. M. Rowland, \$1,200, W. C. Selleck, 4 m. to Mar. 31 at \$1,254, J. A. Smith, 4 m. to Mar. 31 at \$1,311, R. E. Stewart, \$1,200, M. V. Tallon, \$1,539, J. G. Tomney, 4 m. to Mar. 31 at \$1,311; office boy, W. J. Dickman, \$660. Travelling expenses: A. E. Bales, \$399.25; O. Cormier, \$400.35; C. W. Desormeau, \$1,712.10, W. H. Foran, \$1,665; Wm. High, \$759.55; T. Howell, \$1,333.17; W. S. Larose, \$1,216.95; M. Leamy, \$756.40; sundry, \$537.17. Alterations and additions required for offices in Jackson Bldg., \$755.10; telephone and telegrams, \$2,034.27; uniforms, \$94.02; sundries, \$88.82; King's Printer, supplies, \$5,763.40.....	64,643 68

MINES AND RESOURCES—MINES ET RESSOURCES

IMMIGRATION AND COLONIZATION—*Con.*
IMMIGRATION ET COLONISATION—*Suite*Vote—Crédit 51—Salaries and Contingencies—*Con.*—Traitements et dépenses
contingentes—*Suite*INLAND AGENCIES—*Conc.*—AGENCES DE L'INTÉRIEUR—*Fin*

Peace River, Alta.:—Immig. hall caretaker, W. U. MacRae, 5 m. to Aug. 31 at \$300; sundries, \$50.45.....	175 45
Prince Albert, Sask.:—caretaker (part time), A. Jenkins, \$539.92 (quarters valued at \$250 not included); sundries, \$175.93.....	715 85
Regina, Sask.:—Investigating off., D. D. Nicolson, 6 m. at \$1,653, 6 m. at \$1,767; typist, G. W. Humphries, \$1,200; temporary assistance, \$64.07. Travelling expenses, \$448.15; uniforms, \$31.34; sundries, \$258.45; King's Printer, supplies, \$20.84.....	3,732 85
Saskatoon, Sask.:—Investigating off., S. Bowman, \$1,938; typist, F. E. Phillion, \$1,254; temporary assistance, \$58.06. Travelling expenses, \$579.85; uniforms, \$31.34; sundries, \$160.69; King's Printer, supplies, \$10.97.....	4,032 91
Spirit River, Alta.:—Immig. hall caretaker, D. H. Keay, May 1 to Nov. 25 at \$300, J. Weberg, 1 m. to April 30 at \$300; sundries, \$118.40.....	314 23
Toronto, Ont.:—Supervising inspectors, J. L. Malcolm, June 14 to Mar. 31 at \$2,394, allowance for use of car, \$125, J. C. Mitchell, April 1 to Dec. 22 at \$2,850 (retired); senior inspector, W. H. Artkin, \$1,995; investigating officers, C. Charlesworth, 4 m. to Mar. 31 at \$1,938, G. R. N. Collins, \$1,710, A. A. MacGee, \$1,710, R. M. McCheyne, 8 m. to Nov. 30 at \$1,710 (deceased); conductress, M. T. McKenney, 4 m. to Mar. 31 at \$1,539; clerks and stenographers, W. M. Donald, \$1,539, R. E. Duncan, 4 m. to Mar. 31 at \$1,200, H. C. Kennedy, \$1,200, R. McClintock, \$1,539, J. R. F. Steele, \$1,311, N. G. Underwood, 3 m. at \$1,140, 9 m. at \$1,200, D. H. Whitehead, 4 m. to Mar. 31 at \$1,200. Auto repairs and supplies, \$9.55; gasoline and oil, \$63.99; travelling expenses, \$613.90; uniforms, \$62.68; sundries, \$800; King's Printer, supplies, \$363.35.....	21,296 92
Winnipeg, Man.:—District superintendent, C. E. S. Smith, 3 m. at \$3,420, 9 m. at \$3,591; asst. district superintendent, W. M. Beatty, 9 m. at \$2,508, 3 m. at \$2,622; investigating officers, E. F. Hudson, \$1,653, W. B. Rose, \$2,394; inspectors, F. Chittick, \$1,425, A. E. Pilkie, \$1,710; interpreter, V. E. Mironko, \$1,425; senior guards, T. Johnston, \$1,482, A. Kyle, \$1,482; guards, J. Baker, \$1,080, R. Berry, \$1,080, H. Fulton, \$1,200, S. E. Wood, 12 m. at \$1,200 (less \$4.80 Workmen's Compensation); clerks and stenographers, A. Bernier, \$1,311, A. E. Brooks, \$1,080, G. J. Charette, \$1,200, F. Farrell, April 1 to Sept. 10 at \$1,311 (resigned), G. G. Ferguson, \$1,200, A. S. Gray, July 2 to Sept. 23 at \$720, E. Jankiewicz, \$1,200, V. K. Johnston, \$1,311, L. E. Long, 6 m. at \$1,539, 6 m. at \$1,596, H. A. McGavin, \$1,539, H. Michalski, \$1,311, J. L. Mundle, 12 m. at \$1,254 (less 4 d. Oct.), W. A. Neale, \$1,824, T. P. Rolfe, \$1,080, S. Saranchuk, \$900, B. T. Scott, \$1,200, C. C. Smith, 6 m. at \$1,311, 6 m. at \$1,368, F. Stafford, \$1,596, G. Thomas, \$1,254, A. E. Westman, \$1,482; firemen, P. Delaney, \$1,200, T. W. Pickersgill, \$1,200; immigration hall attendants, C. J. Anderson, \$1,140, B. Brennan, \$1,140, A. B. Gingras, \$1,140, T. Kirkwood, 3 m. \$960, 9 m. at \$1,020, G. E. Larue, \$1,140, T. Logan, \$1,140; matrons, F. Kyle, \$480, A. Rainford, \$840; kitchen helper, A. Butcher, 6 m. to Sept. 30 at \$420; charwoman, M. Hutchinson, \$389.40; temporary assistance, \$374.35. Travelling expenses, \$1,159.81; meals for staff, \$522.30; uniforms, \$495.43; sundry catering and office expenses, \$3,145.74; King's Printer, supplies, \$1,417.43.....	64,732 66
	182,439 46
Less—Receipts from sale of provisions, Winnipeg.....	181 98

(Page L—27) § 182,257 48

SEAPORT AGENCIES—AGENCES MARITIMES

Halifax:—Supervising inspector, H. M. Grant, \$2,736; senior inspector, G. L. Mott, \$1,995; inspectors, G. L. Bourne, 4 m. to Nov. 30 at \$1,539 (transferred from Ottawa), H. J. Fenton, \$1,653, J. Huck, 4 m. to Mar. 31 at \$1,710 (transferred from Quebec), living allowance, \$204.14, A. Malaidack, \$1,710, C. A. Martin, April 1 to Oct. 23 at \$1,710 (retired), A. L. Quinn, 4 m. to Mar. 31 at \$1,596 (transferred from Quebec), living allowance, \$200, A. Sylvain, 4 m. to Mar. 31 at \$1,653 (transferred from Quebec), living allowance, \$203.33; inspector-interpreter, E. Borg, \$1,881; interpreter, L. Diadik, 4 m. to

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

IMMIGRATION AND COLONIZATION—Con.
IMMIGRATION ET COLONISATION—Suite

**Vote — Crédit 51 — Salaries and Contingencies—Con. — Traitements et dépenses
contingentes—Suite**

SEAPORT AGENCIES—Con — AGENCES MARITIMES—Suite

Halifax—Conc.

Mar. 31 at \$1,425 (transferred from Quebec), living allowance, \$230; caterer, G. L. Bourne, 1 m. at \$1,539, 3 m. to Mar. 31 at \$1,596; senior guard, H. Wright, 3 m. at \$1,311, 9 m. at \$1,368; guards, T. Bartle, \$1,200, G. Flinn, \$1,200, R. H. Gates, \$1,080, J. Lyms, \$1,200, J. S. Pratt, \$900, S. Purcell, \$1,200, W. R. Rowley, \$1,020, H. Ryan, \$1,200, E. C. Shaw, Mar. 23 to 31 at \$900, W. E. Shore, \$1,080, J. J. Tuffin, 12 m. at \$1,200 (less 5 d. May), J. M. Weston, \$1,080, H. R. Yeates, \$1,020; clerks and stenographers, H. Bayley, \$1,824, A. M. Mielke, 8 m. at \$960, 4 m. at \$1,080, J. F. O'Connor, \$1,482, F. C. Crosman, living allowance, \$170.96; cook, D. J. Lawson, 7 m. to Mar. 31 at \$80 per m.; matrons, A. A. Amos, 4 m. to Mar. 31 at \$840 (transferred from Quebec), maintenance, \$4, M. Cochrane, \$840, maintenance, \$180; charwoman, R. Hardy, 12 m. at \$40 per m. (less 1 d.); waitress, A. T. Hunt, 7 m. to Mar. 31 at \$35 per m.; kitchen helper, G. A. Stephen, 7 m. to Mar. 31 at \$35 per m.; woman immigration officer, A. S. M. Bullock, living allowance, \$233.33; temporary assistance, \$305.80. Travelling expenses, \$299.28; meals supplied staff and detained immigrants, \$1,259.20; light and heat, \$765; sundry office expenses, \$6,208.85, uniforms, \$600.61; King's Printer, supplies, \$351.96

47,014 54

Montreal:—Supervising inspector, J. M. Langlais, \$2,622; inspectors, J. Good, 3 m. at \$1,653, 9 m. at \$1,710, J. R. Latour, \$1,653, L. N. Leuillier, 4 m. to Mar. 31 at \$1,653 (transferred from Quebec), living allowance, \$235, E. J. Murphy, 4 m. to Mar. 31 at \$1,710 (transferred from Quebec), living allowance, \$250; investigating officers, M. R. A. Barre, 3 m. at \$1,482, 9 m. at \$1,539, H. E. Davison, 4 m. to Mar. 31 at \$1,938, J. Dobson, \$1,767, P. Lemieux, \$1,653, T. T. Ross, \$1,653; woman officer, M. L. McNairn, 4 m. to Mar. 31 at \$1,767; principal clerks, L. N. Beard, \$2,280, J. A. D. Lalonde, \$2,280; clerks and stenographers, R. A. Ahern, \$1,710, F. C. Crosman, 4 m. to Mar. 31 at \$1,482, living allowance, \$24.19, E. Ferguson, \$1,311, J. Forget, 4 m. to Mar. 31 at \$1,311, P. Lefebvre, \$1,539, V. Ostiguy, \$1,539, B. Savard, \$1,311, N. H. Somerville, \$1,596, W. F. Upton, 4 m. to Mar. 31 at \$1,824 (transferred from Quebec), living allowance, \$68.32, M. I. Wilkes, 6 m. at \$1,080, 6 m. at \$1,140; senior guard, H. B. Costello, \$1,482; guards, M. Considine, 6 m. at \$900, 6 m. at \$960, H. J. Gillingham, \$1,200, F. Pare, 8 m. to Nov. 30 at \$1,200 (deceased), L. Pascale, \$900, A. E. Roach, \$1,200, H. Roy, \$1,020, E. B. Stein, 3 m. at \$960, 9 m. at \$1,020 (less 1 d. Aug.), J. M. Stephenson, 3 m. at \$960, 9 m. at \$1,020; firemen, A. Noel, Nov. 23 to Mar. 31 at \$1,140, M. J. Nolan, \$1,140, G. St. Jean, \$1,200; cleaner and helper, W. Woollard, 6 m. at \$900, 6 m. at \$960; cook, J. Doherty, 12 m. at \$100 per m. (less 1 d. June); senior matron, M. C. Stark, \$1,020; matron, E. Parent, 3 m. at \$720, 9 m. at \$780; housemaids, A. Chaletie, \$570, C. A. Parkyn, \$570; kitchen helpers, E. H. Bryce, \$300, B. Cartwright, 2 m. to May 31 at \$510, R. Fyfe, July 13 to Mar. 31 at \$300; temporary assistance, \$172.71. Travelling expenses, \$1,097.87; groceries and provisions, \$2,851.78; sundry office expenses, \$2,484.14; uniforms, \$723.47; King's Printer, supplies, \$527.37

57,510 93

North Sydney:—Supervising inspector, A. G. Christie, \$1,995; inspector, G. W. Strickland, \$1,710; temporary assistance, \$15; travelling expenses, \$207.09; sundry office expenses, \$209.44; uniforms, \$62.68; King's Printer, supplies, \$22.52

4,221 73

Quebec:—Supervising inspector, O. Cormier, \$2,850; senior inspector, J. P. O. Mathieu, \$1,995; inspectors, J. J. Conway, April 16 to Dec. 12 noon at \$1,500, J. Huck, 8 m. to Nov. 30 at \$1,710 (transferred to Halifax), J. A. Lemieux, April 16 to Sept. 30 at \$1,680, Oct. 1 to Dec. 12 noon at \$1,740, L. N. Leuillier, 8 m. to Nov. 30 at \$1,653 (less 7 d. July, transferred to Montreal), W. A. McPaul, 7 m. to Oct. 31 at \$1,596, E. J. Murphy, 8 m. to Nov. 30 at \$1,710 (transferred to Montreal), A. L. Quinn, 8 m. to Nov. 30 at \$1,596 (transferred to Halifax), living allowance, \$374.16, A. Sylvain, 6 m. at \$1,596, 2 m. to Nov. 30 at \$1,653 (transferred to Halifax); woman officer, A. S. M. Bullock, 4 m. to Mar. 31 at \$2,280; interpreter, L. Diadik, 8 m. to Nov. 30 at \$1,425 (transferred to Halifax); clerks and stenographers, F. C. Crosman, 8 m. to Nov. 30 at \$1,482 (transferred to Montreal), living allowance, \$374.99, V. Lawlor, \$1,596, W. F. Upton, 8 m. to Nov. 30 at \$1,824 (transferred to Montreal);

MINES AND RESOURCES—MINES ET RESSOURCES

IMMIGRATION AND COLONIZATION—*Con.*
IMMIGRATION ET COLONISATION—*Suite*Vote — Crédit 51 — Salaries and Contingencies—*Con.* — Traitements et dépenses
contingentes—*Suite*SEAPORT AGENCIES—*Con.* — AGENCES MARITIMES—*Suite*Quebec—*Conc.*

stationary engineer (heating), F. Fitzgerald, \$1,482; senior guard, W. Metcalfe, 6 m. at \$1,254, Oct. 1 to Mar. 4 at \$1,311 (resigned); guards, J. S. Allen, \$1,200, W. C. Byrne, April 6 to Sept. 30 at \$1,080, Oct. 1 to Dec. 12 noon at \$1,140, L. Gariepy, April 6 to Sept. 30 at \$960, Oct. 1 to Dec. 12 noon at \$1,020 (less 3 d.), A. Gosselin, \$1,200, W. Gosselin, April 6 to Sept. 30 at \$1,080, Oct. 1 to Dec. 12 noon at \$1,140, E. Lacasse, \$1,140, J. A. Lachance, April 6 to June 30 at \$1,080, July 1 to Dec. 12 noon at \$1,140, J. E. Laforest, April 6 to June 30 at \$1,080, July 1 to Dec. 12 noon at \$1,140, I. Lapointe, April 6 to June 30 at \$1,140, July 1 to Dec. 12 noon at \$1,200, L. Lefebvre, April 6 to Dec. 12 noon at \$900, L. Picard, Jan. 1 to Mar. 6 noon at \$960 (retired), A. Shields, April 6 to Sept. 30 at \$960, Oct. 1 to Dec. 12 noon at \$1,020, J. S. Tremblay, \$1,200; firemen, P. N. Doyer, April 3 to Dec. 17 at \$1,260, A. Petit, April 9 to Dec. 12 noon at \$1,140, E. Simard, April 3 to Dec. 17 and Feb. 25 to Mar. 31 at \$1,260; cook, D. Marcotte, April 14 to Nov. 30 at \$100 per m. (less 12 d.); matrons, A. A. Amos, 8 m. to Nov. 30 at \$840 (transferred to Halifax), maintenance, \$176, C. Lapointe, April 16 to Dec. 12 noon at \$480; kitchen helper, M. F. Morency, April 14 to Dec. 1 at \$480; waitresses, E. Boucher, Nov. 1 to Dec. 2 noon at \$330, M. R. Boutet, April 14 to Dec. 14 noon at \$330, M. Tendlond, April 14 to Nov. 4 at \$330; charwomen at \$40 per m., A. Cote, April 15 to Nov. 30, B. Lemay, April 15 to Nov. 30 (less 1 d. July), M. Marois, April 15 to Nov. 30 (less 1 d. July), G. Perreault, April 15 to Nov. 30; temporary assistance, \$216.46. Travelling expenses, \$215.20; groceries and provisions, \$2,365.91; light and heat, \$175.19; sundry office expenses, \$1,442.79; uniforms, \$902.50; King's Printer, supplies, \$243.68.....	44,926 60
Saint John:—Supervising inspector, C. H. Maxwell, \$2,394; inspector, J. B. Sibson, \$1,710; investigating officer, D. J. Murphy, \$1,938; senior guard, A. Stirling, \$1,482; guards, F. B. McKinnon, Jan. 1 to Feb. 8 at \$1,020 (retired), T. Meehan, Jan. 1 to Feb. 4 noon at \$960 (retired), A. M. Neil, Jan. 1 to Feb. 3 at \$1,020 (retired); stenographer, C. M. Boone, \$1,539; temporary assistance, \$60.97. Travelling expenses, \$1,205.96; sundry office expenses, \$295.60; uniforms, \$142.69; King's Printer, supplies, \$110.05.....	11,171 67
Sydney:—Supervising inspector, J. G. Young, April 1 to Mar. 27 at \$1,824 (retired); customs officer, J. M. Campbell, \$190; travelling expenses, \$526.97; sundry office expenses, \$184.93; King's Printer, supplies, \$6.80.....	2,713 09
Vancouver:—District superintendent, F. W. Taylor, 3 m. at \$3,078, 9 m. at \$3,192; investigating officer, W. C. Cowell, \$2,394; special agent, M. R. J. Reid, 2 m. to May 31 at \$2,508 (deceased); principal clerks, D. N. McDonell, 6 m. to Mar. 31 at \$1,824, H. N. Pickles, 6 m. to Sept. 30 at \$2,280; departmental accountant, H. N. Pickles, 6 m. to Mar. 31 at \$2,109; inspectors, F. Carter, July 20 to Oct. 24 noon at \$1,500, A. E. Galpin, \$1,710, R. S. Hardisty, July 17 to Mar. 31 at \$1,425, D. E. Hyndman, \$1,710, D. N. McDonell, 6 m. to Sept. 30 at \$1,710 (promoted); guards, R. Adamson, \$960, A. C. Bloom, \$1,200, R. McMoran, June 19 to Mar. 31 at \$900, F. C. D. Pratt, \$960; clerks and stenographers, S. E. Benson, 6 m. at \$720, 2 m. at \$780, 4 m. at \$1,080, M. E. Dafoe, July 2 to Sept. 30 at \$720 (less 6 d. July), D. H. Gibbons, June 30 to Mar. 31 at \$720, M. V. Miller, April 1 to July 11 at \$1,080, J. W. Randall, \$1,539, E. G. Rose, \$1,200, M. Ross, 6 m. at \$1,080 (less 1 d.), 6 m. at \$1,140, B. W. Walton, \$1,539; temporary assistance, \$321. Travelling expenses, \$2,057.11; meals supplied to staff and detentions, \$1,395.61; sundry office expenses, \$916.62; uniforms, \$371.06; King's Printer, supplies, \$1,508.86.....	32,398 36
Victoria:—Senior inspector, J. Marshall, \$1,995; inspectors, J. A. Anderson, \$1,653, J. Dorman, 6 m. at \$1,425, 6 m. at \$1,482; interpreter (part time), B. Kuwabara, \$300; guards, G. C. F. Allen, \$1,080, R. N. Barnes, July 9 to Oct. 14 noon at \$900, T. H. Hodge, \$1,200; stenographer, H. G. Parkinson, \$1,539; temporary assistance, \$62.51. Travelling expenses, \$38.90; meals supplied to staff and detentions, \$915.05; sundry office expenses, \$221.98; uniforms, \$261.07; King's Printer, supplies, \$125.82.....	11,084 14
Sundry ports:—Immigration inspectors (part time): Prince Edward Island, Charlottetown, L. W. Goodwin, \$114; Nova Scotia, Liverpool, H. E. Sawyer, \$57, Louisburg, W. E. Jewell, \$90, D. N. Johnston, \$30, Lunenburg, S. Mack, \$23.75, B. H. McLaughlin, \$71.25, Windsor, J. Cox, \$57; New Brunswick, Campbellton, F. W. Campbell, \$95, Dalhousie, G. S. Grimmer, \$57; Quebec,	

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

IMMIGRATION AND COLONIZATION—Con.
IMMIGRATION ET COLONISATION—Suite

**Vote — Crédit 51 — Salaries and Contingencies—Con. — Traitements et dépenses
contingentes—Suite**

SEAPORT AGENCIES—Conc. — AGENCES MARITIMES—Fin

Sundry ports—Conc.

Sorel, N. A. Paulhus, \$95, Three Rivers, J. R. Duval, \$95; Manitoba, Churchill, D. Kidd, \$15.83; British Columbia, Alert Bay, M. C. Potts, \$142.48, Britannia Beach, A. Bacon, \$95, relief, \$11.11, Nanaimo, B. S. Abrams, \$190, relief, \$5.80, New Westminster, P. Peele, \$285, relief, \$35.14, Ocean Falls, J. Wynne, \$190, relief, \$29.67, Port Alberni, A. Crozier, \$95, relief, \$5.54, Powell River, F. J. North, \$190, relief, \$7.92. Travelling expenses, \$37.49; sundry office expenses, \$92.40; King's Printer, supplies, \$4.95.....	2,218 33
	<u>213,259 39</u>
Less—Receipts from canteen in Halifax, \$2,336.12; meals supplied to depots, \$1,232.22; detention expenses refunded, \$14,358.62.....	17,926 96
	<u>(Page L—27) \$ 195,332 43</u>

GREAT BRITAIN AND CONTINENT OF EUROPE
GRANDE-BRETAGNE ET CONTINENT EUROPÉEN

London (Director's office):—Commissioner of European emigration, W. R. Little, \$5,415, living allowance, \$1,999.92; asst. commissioner of European emigration, A. N. O'Kelly, \$4,389, living allowance, \$900; chief clerk, H. R. F. Dalby, \$3,534, living allowance, \$499.92; departmental accountant, E. K. Hales, \$2,565; woman officer, H. M. Porter, 8 m. to Nov. 30 at \$2,280; clerks and stenographers, E. B. Audoire, \$1,020, W. H. Carey, \$1,824, C. E. Dale, \$1,368, E. Dron, \$1,824, O. A. Brant, \$1,311, I. B. Fowler, \$1,824, T. Higgs, \$1,311, E. M. Johnston, \$780, H. Leaver, \$1,020, A. Mitchell, \$1,020, L. M. Moss, \$1,311, J. Norman, \$960, M. Phillips, \$840, H. M. Porter, 4 m. to Mar. 31 at \$1,824, H. F. Sneath, \$1,539, M. D. Sprigge, 3 m. at \$1,254, 9 m. at \$1,311, A. Taylor, \$660, M. A. Turner, \$1,824, W. Turner, \$1,539, B. Westcott, \$780, R. Williamson, \$840, E. Young, \$1,020. Travelling expenses, \$347.43; sundries, \$2,678.54; King's Printer, supplies, \$25.60.....	50,394 16
Belfast:—Emigration agent, F. B. Cotsworth, \$2,964, living allowance, \$499.92; stenographer, M. A. Agnew, \$1,020; travelling expenses, \$57.55; rent, light and taxes, \$272.51; sundries, \$345.98; King's Printer, supplies, \$4.40.....	5,164 36
Bristol:—Clerk, L. Davies, April 1 to Oct. 16 at \$1,539 (retired); sundries, \$10.40..	846 09
Cardiff:—Clerk F. W. Doyle, 6 m. to Sept. 30 at \$1,368 (retired); rent, light and taxes, \$3.43; sundries, \$2.86.....	690 29
Glasgow:—Emigration agent, J. G. Perdue, \$2,394, living allowance, \$499.92; clerks and stenographers, J. G. McLaren, \$1,311, R. A. West, \$1,200; temporary assistance, \$29.19; travelling expenses, \$18.13; rent, light and taxes, \$2,105.55; sundries, \$526.97; King's Printer, supplies, \$4.40.....	8,089 16
Inverness:—Rent, light and taxes, \$302.20.....	302 20
Liverpool:—Emigration agent, F. W. Kerr, \$2,964, living allowance, \$499.92; stenographer, H. G. McNeight, \$1,368; travelling expenses, \$33.94; rent, light and taxes, \$300.41; sundries, \$245.66; King's Printer, supplies, \$4.40.....	5,916 33
York:—Clerk, T. J. Mathews, 6 m. to Sept. 30 at \$1,539 (retired); rent, light and taxes, \$2.29; sundries, \$3.94.....	775 73
Antwerp:—Emigration agent, J. A. Mitchell, \$2,964, living allowance, \$499.92; sten., M. S. H. Thomas, \$1,365.11; travelling expenses, \$173.92; rent, light, heat and taxes, \$1,937.78; sundries, \$384.76; King's Printer, supplies, \$6.48.....	7,331 97
Gdynia:—Emigration agent, A. O. Petersen, 9 m. at \$1,938, living allowance, \$374.94; travelling expenses, \$1,770.30; sundries, \$14.16.....	3,612 90
Hamburg:—Emigration agents, J. O. Mathews, 3 m. at \$1,938, 9 m. at \$2,052, living allowance, \$499.92; A. O. Petersen, 3 m. at \$1,938, living allowance, \$124.98; stenographers, M. Wiedemann, \$1,152.47 (April 1 to Jan. 8), I. M. du Cros, \$399.32 (Dec. 16 to Mar. 31); temporary assistance, \$47.10; travelling expenses, \$722.52; rent, light, heat and taxes, \$1,432.05; sundries, \$1,098.34; King's Printer, supplies, \$6.48; removal expenses, Mrs. A. O. Petersen and son, Halifax, Canada, to Hamburg, Germany, \$275.24.....	8,266 42
Paris:—Emigration agent, J. C. E. Belanger, \$2,964, living allowance, \$499.92; clerks and stenographers, E. Campbell, \$1,192.94, A. A. Connolly, \$1,441.12; temporary assistance, \$96.38; travelling expenses, \$444.95; rent, light, heat and taxes, \$3,187.08; sundries, \$804.12; King's Printer, supplies, \$6.48.....	10,636 99

MINES AND RESOURCES—MINES ET RESSOURCES

IMMIGRATION AND COLONIZATION—*Conc.*
IMMIGRATION ET COLONISATION—*Fin***Vote — Crédit 51 — Salaries and Contingencies—*Conc.* — Traitements et dépenses
contingentes—*Fin***GREAT BRITAIN AND CONTINENT OF EUROPE—*Conc.*
GRANDE-BRETAGNE ET CONTINENT EUROPÉEN—*Fin*

General:—Payment to employees to cover loss in exchange on salaries paid
during the year 5,933 05

(Page L—27) \$ 108,009 65

Classification: Vote — Crédit 51 (Pages L—27-40):—

Salaries and Wages:—

Ottawa. \$ 1,241 15
Outside. 961,957 23

963,198 38

Travelling Expenses.

41,677 17

Materials, Supplies, Repairs, etc.:—

General. 13,508 26
New Autos, Auto Repairs and Renewals. 9 55

13,517 81

Printing and Stationery.

23,741 24

Miscellaneous.

75,797 84

\$1,117,932 44**Vote — Crédit 52 — Empire Settlement Scheme, including grants authorized by
the Governor in Council — Projet de colonisation dans l'Empire, y compris
les subventions autorisées par le Gouverneur en Son Conseil**

Travelling Expenses — Frais de voyages:—M. Leamy, \$33; sundry, \$8.95. 41 95

Miscellaneous — Divers:—Telegraph and telephone services, \$148.21; sundries,
\$89.59; Kings Printer, supplies, \$91.14. 328 94

\$ 370 89**Vote — Crédit 53 — Relief of Distressed Canadians Outside of Canada — Secours
aux Canadiens nécessiteux, se trouvant à l'étranger***Miscellaneous — Divers*:—Advances for subsistence, transportation, etc.:—

By Department in Canada and London, England. 612 07

By British Consulates and Canadian Trade Commissioners. 402 54

\$ 1,014 61

OCEAN AND RIVER SERVICE—SERVICES OCÉANIQUES ET FLUVIAUX*

**Votes — Crédits 123 & 377† — Hydrographic, Tidal and Current Surveys and
Maintenance of Ships — Relevés hydrographiques des marées et des
courants et entretien des navires**

SUMMARY — SOMMAIRE

Charting. (Page L—41) 349,671 44
Precise Water Levels. (Page L—42) 24,761 93
Tidal and Current Surveys. (Page L—42) 33,211 72

\$ 407,645 09

* Charged in previous years to Marine Department — Inclus les années précédentes dans le Ministère de la
Marine.

† Supplementary vote — Crédit supplémentaire.

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

OCEAN AND RIVER SERVICE—Con.
SERVICES OCÉANIQUES ET FLUVIAUX—Suite

**Votes — Crédits 123 & 377+ — Hydrographic, Tidal and Current Surveys and
Maintenance of ships—Con.—Relevés hydrographiques des marées et
des courants et entretien des navires—Suite**

DETAILS — DÉTAIL

CHARTING — AFFRÈTEMENT

<i>Salaries and Wages — Traitements et salaires:—</i> Hydrographers: G. W. Baker, to Feb. 22, 1937, less 14 d., \$1,657.24; J. U. Beauchemin, \$3,420; R. W. Bent, \$2,565; L. M. Clarke, \$1,710; L. R. Davies, \$2,565; J. A. Deveault, \$2,052; W. F. Elliott, \$2,052; R. H. Ettershank, \$2,052; J. L. Foreman, \$2,565; R. J. Fraser, \$3,530.02; E. A. Ghysens, \$3,021; N. G. Gray, \$1,938; R. E. Hanson, \$2,052; R. L. B. Hunter, \$1,710; J. O. Johnson, \$1,938; J. H. Knight, \$3,021; G. W. Lacroix, \$1,710; H. L. Leadman, \$3,420; G. E. Lowe, \$1,938; M. A. MacKinnon, \$2,565; H. N. McQuarrie, \$1,938; O. M. Meehan, \$413.71; H. D. Parizeau, \$3,705; E. Radakin, \$1,938; J. I. A. Rutley, \$1,710; F. C. G. Smith, \$3,044.59; A. Stewardson, \$2,046.48; T. M. Tardif, \$2,052; S. R. Titus, \$1,710; V. Wiebe, \$1,710; W. K. Willis, \$2,565; N. Wilson, \$2,565; R. B. Young, \$2,052; sr. map draughtsman, P. E. Parent, \$2,052; map draughtsmen: M. Isabelle, \$1,439.25; C. R. Weese, \$1,439.25; student draughtsmen: H. M. Kelson, \$990; J. Pinard, \$996.77; sten., R. Gould, \$1,200; typists: S. R. Foubistin, \$33; G. P. R. J. Stoney, \$1,041; office boy, J. A. Pichette, \$350; C.G.S. <i>Acadia</i> and launch <i>Henry Hudson</i> : Master, H. V. Ryan, \$2,166; 1st officer, D. F. Fraser, \$1,377.52; D. M. Snelgrove, \$1,285.23; ch. eng., J. S. Cann, \$2,109; 2nd eng., N. A. McLeod, \$1,408.62; wireless operator, jr. officers and crew, \$23,451.98; C.G.S. <i>Cartier</i> : master, J. Roach, \$2,166; 1st officer, A. Smith, \$1,297.17; ch. eng., H. Simard, \$1,715; 2nd eng., E. Côté, \$1,333.09; wireless operator, jr. officers and crew, \$15,395.31; C.G. Launch <i>Boulton</i> , crew, \$1,683.18; Charlotte-town Harbour survey party, \$2,235.49; C.G.S. <i>Wm. J. Stewart</i> : master, J. J. Moore, \$2,223; 1st officer, J. Wells, \$1,596; ch. eng., J. Ascroft, \$2,109; 2nd eng., T. Salmon, \$1,458.84; wireless operator, D. A. MacDougal, \$1,819.78; jr. officers and crew, \$30,791.42; C.G.S. <i>Lillooet</i> , watchmen, \$1,442.35; C.G.H. <i>Pender</i> , watchmen and crew, \$5,981.22; sundry labour, \$50.20.....		189,567 71
<i>Travelling Expenses — Frais de voyages:—</i> Disbursed by the following officials: J. U. Beauchemin, \$304.25; E. A. Ghysens, \$152.40; N. G. Gray, \$122.65; H. D. Parizeau, \$141.71; F. C. G. Smith, \$187.85; sundry, \$1,299.75.....		2,208 61
<i>Materials, Supplies, Repairs, etc. — Matériel, fournitures, réparations, etc.:—</i> Coal: Bras D'Or Coal Co., Ltd., Little Bras D'Or Bridge, N.S., \$3,600.14; Indian Cove Coal Co., Sydney Mines, N.S., \$1,857.55; Vancouver Island Coals Ltd., Nanaimo, \$8,575; accounts under \$1,000: \$3,127.95.....		22,160 64
Provisions: Batchelor's Grocery Warehouse, Victoria, \$1,594.08; Kelly Douglas & Co., Victoria \$1,372.97; A. J. McDonald, N. Sydney, \$1,145.06; Pacific Meat Co., Ltd., Vancouver, \$2,470.33; accounts under \$1,000: \$9,386.80.....		15,969 24
Repairs, Renewals: Halifax Shipyards, Ltd., \$12,995.20; Purdy Bros., Ltd., Halifax, \$1,557.50; Bruce Stewart & Co., Charlottetown, \$3,090.18; accounts under \$1,000: \$2,040.86.....		19,683 74
Various: Louis T. Blais, Ltée., Montreal, provisions, gasoline, sundries, \$5,689.74; Brandram-Henderson Ltd., Halifax, paint supplies, \$1,792.95; Canada Western Cordage Co., Ltd., Vancouver, manilla rope, \$1,148.56; Imperial Oil Ltd., gasoline, oil, barrels, \$1,527.01; Ontario Hughes-Owens Co., Ltd., Ottawa, sounding gear parts, sundry instrument parts and repairs, \$3,663.17; Wm. Robertson & Son, Halifax, hardware, ship chandlery, \$1,078.55; Sears Company of Canada, Ltd., Montreal, printing press, \$13,137.50; accounts under \$1,000: drygoods, furnishings, \$1,388.34; electrical and radio supplies, \$1,248.24; gasoline, oil, \$2,101.28; hardware, ship chandlery, engine and machine parts, \$8,435.30; lime, \$204.96; lumber, \$1,650.60; paint supplies, \$1,333.58; plumbing supplies, \$170.49; photographic supplies, \$178.22; printing press equipment, \$803.88; soap, \$502.16; water, \$215.26; sundries, \$1,234.47; containers, \$54.95.....		47,559 21 105,372 83
<i>Printing and Stationery — Impressions et papeterie:—</i> King's Printer: salaries of engravers, \$15,939.97; supplies, \$19,338.06.....		35,278 03
<i>Miscellaneous — Divers:—</i> Department of Public Works, moving expenses of office equipment at Ottawa, photographic supplies, \$1,818.06; Pictou Marine Railway, hauling up C.G.S. <i>Cartier</i> and lay days, \$1,107.50; accounts under \$1,000: board, \$6,882.68; car and launch hire, \$241.25; express, freight, trucking, \$1,220.56.		

MINES AND RESOURCES—MINES ET RESSOURCES

OCEAN AND RIVER SERVICE—Con.
SERVICES Océaniques ET FLUVIAUX—SuiteVotes — Crédits 123 & 377† — Hydrographic, Tidal and Current Surveys and
Maintenance of ships—Con. — Relevés hydrographiques des marées et
des courants et entretien des navires—Suite

CHARTING—Conc. — AFFRÈTEMENT—Fin

<i>Miscellaneous—Conc. — Divers—Fin</i>	
inspection fees, \$380; laundry, \$1,216.32; re-embursement for fire losses, \$94.78; rentals, \$726.70; sick mariners' dues, \$113.10; telegrams and wireless messages, \$486.06; telephone service, \$103.21; towing and loading coal, \$1,557; sundries, \$670.07.	16,617 29
<i>Adjustments — Ajustements:—</i>	
Advance for wages, J. U. Beauchemin, deposited to Casual Revenue, Transport Dept., 1937-38	9 00
Detailed under Transport Dept. (Part Z): Dominion Steamers (Vote 117), \$2.87; Radio Service, maintenance and construction of Radio Direction Finding Stations, etc. (Vote 124), \$83.63; Construction (Vote 130), \$420.44; Maintenance and Supervision (Vote 130), \$181.02; Steamboat Inspection (Vote 144), \$20.59.	708 55 717 55
	349,762 02
Less—Charged to Transport Dept. (Part Z): Dominion Steamers (Vote 117)	90 58
	(Page L—40) \$ 349,671 44

PRECISE WATER LEVELS — NIVEAU EXACT DES EAUX

<i>Salaries and Wages — Traitements et salaires:—</i> Asst. engineer, C. A. Price, \$2,565; sr. eng. clerks: A. S. Matthewman, \$2,052; W. J. Miller, \$2,052; H. P. Williams, \$2,052; A. G. Tuttle (hydrometric recorder to Oct. 31), \$1,710; hydrometric recorders: A. W. W. Cole, \$1,482; W. E. Rainboth, \$1,482; river observers at \$15 and \$14.25 per m., \$5,626.91.		19,021 91
<i>Travelling Expenses — Frais de voyages:—</i> Disbursed by the following officials: A. S. Matthewman, \$545.24; W. J. Miller, \$254.05; Chas. A. Price, \$1,132.75; W. E. Rainboth, \$383.02; H. P. Williams, \$467.46.		2,782 52
<i>Materials, Supplies, Repairs, etc. — Matériel, fournitures, réparations, etc.:—</i> Lumber, \$132.53; photographic supplies, \$170.09; repairs, \$345.88; gauges, \$162.18; sundries, \$193.68.		1,004 36
<i>Printing and Stationery — Impressions et papeterie:—</i> King's Printer, supplies.		358 05
<i>Miscellaneous — Divers:—</i> Electric current, \$732.94; express, freight, cartage, \$152.01; petty expenses of officials on field operations, \$587.18; sundry, \$105.01.		1,577 14
<i>Adjustments — Ajustements:—</i> Detailed under Transport Dept. (Part Z), Construction (Vote 130)		17 95
	(Page L—40) \$ 24,761 93	

TIDAL AND CURRENT SURVEYS — LEVÉS DES MARÉES ET DES COURANTS

<i>Salaries and Wages — Traitements et salaires:—</i> Sr. tidal and current surveyors: S. C. Hayden, \$3,135; H. W. Jones, \$3,135; hydrographers: M. S. Madden, \$1,710; A. F. Wightman, \$1,938; sten., M. L. Cumbers, \$1,155; current observer, A. Rowlands, \$620; tidal observers, 9, \$2,223; sundry wages, \$56.65; <i>Lightship No. 23</i> : Capt. A. Boudreau, contractor at \$29.50 per d., \$2,566.50; extra assistance, \$1,381.80.		17,920 95
<i>Travelling Expenses — Frais de voyages:—</i> Disbursed by the following officials: H. W. Jones, \$358.50; M. S. Madden, \$109.67; sundry, \$151.58.		619 75
<i>Materials, Supplies, Repairs, etc. — Matériel, fournitures, réparations, etc.:—</i> Geo. T. Davie & Son, Levis, Que., repairs to <i>Lightship No. 23</i> , \$1,225; accounts under \$1,000: coal, \$792.50; hardware, castings, \$947.37; repairs, renewals, \$908.61; sundries, \$738.41.		4,611 89
<i>Printing and Stationery — Impressions et papeterie:—</i> King's Printer, supplies.		6,016 32
<i>Miscellaneous — Divers:—</i> Liverpool Observatory and Tidal Institute, Birkenhead, tidal predictions for 1938, \$1,104.73; accounts under \$1,000: board, \$690.40; boat hire, \$210; electric current, \$170.85; express, freight, cartage, \$346.28; sundries, \$215.41.		2,737 67

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

OCEAN AND RIVER SERVICE—Conc.
SERVICES Océaniques ET FLUVIAUX—Fin

**Votes — Crédits 123 & 377† — Hydrographic, Tidal and Current Surveys and
Maintenance of ships—Conc.—Relevés hydrographiques des marées et
des courants et entretien des navires—Fin**

TIDAL AND CURRENT SURVEYS—Conc.—LEVÉS DES MARÉES ET DES COURANTS—Fin

Adjustments — Ajustements:—

Advance to be accounted for in 1937-38, S. C. Hayden.....	200 00
Amount to be recovered from Geodetic Survey.....	15 00
Detailed under Transport Dept. (Part Z): Dominion Steamers (Vote 117), \$4.82; Maintenance and Supervision (Vote 130), \$1,074.12; Ship Channel (Vote 127), \$19.83.....	1,098 77
	<u>1,313 77</u>
	33,220 35
Less—Charged to Transport Dept. (Part Z): Dominion Steamers (Vote 117), \$2.55; Maintenance and Supervision (Vote 130), \$6.08.....	8 63
	<u>(Page L—40) \$ 33,211 72</u>

Classification: Vote — Crédit 123 (Pages L—40-43):—

Salaries and Wages.....	226,510 57
Travelling Expenses.....	5,610 88
Materials, Supplies, Repairs, etc.....	110,989 08
Printing and Stationery.....	41,652 40
Miscellaneous.....	20,932 10
Adjustments.....	1,950 06
	<u>\$ 407,645 09</u>

SCIENTIFIC INSTITUTIONS — INSTITUTIONS SCIENTIFIQUES*

**Vote — Crédit 138 — Dominion Observatory at Ottawa — Observatoire de
l'État, Ottawa**

<i>Salaries and Wages — Traitements et salaires:—</i> Ottawa..... (Page L—25)	34,693 52
<i>Travelling Expenses — Frais de voyages:—</i> R. E. De Lury, \$35; E. A. Hodgson, \$283.32; R. G. Madill, \$667.24; A. H. Miller, \$282.02; R. M. Stewart, \$346.60; sundry travel, \$77.73.....	1,691 91
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:—</i> Fred C. Henson Co., Pasadena, Cal., vertical seismograph, \$2,312.12; accounts under \$1,000; building supplies, \$815.38; electrical supplies, \$704.16; photo- graphic supplies, \$768.55; sundries, \$392.40.....	4,992 61
<i>Printing and Stationery — Impressions et papeterie:—</i> Kings Printer, supplies....	2,085 63
<i>Miscellaneous — Divers:—</i> Customs duty, \$80.24; express, freight and cartage, \$302.04; International Union, Canada's fee, \$282.65; membership fees and sub- scriptions, \$575.41; street car tickets, \$80; telephone tolls and telegrams, \$65.47; sundries, \$108.45.....	1,494 26
	<u>\$ 44,957 93</u>

**Vote — Crédit 139 — Dominion Astrophysical Observatory at Victoria, B.C.—
Observatoire astrophysique de l'État, Victoria, C.-B.**

<i>Salaries and Wages — Traitements et salaires:—</i> Director, W. E. Harper (salary shown under Civil Government); astronomers, C. S. Beals, \$3,135; A. McKellar, 6 m. at \$2,109, 6 m. at \$2,223; R. M. Petrie, \$2,565; asst. astronomers: G. H. Blanchet, July 21 to Mar. 31 at \$1,368; T. T. Hutchison, \$2,052; K. O. Wright, Sept. 21 to Mar. 31 at \$1,368; clk., L. M. Blake, \$1,824; caretaker, H. Little, \$684.....	14,100 45
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* Charged in previous years to Interior Department—Inclus les années précédentes dans le Ministère de l'Intérieur.

MINES AND RESOURCES—MINES ET RESSOURCES

SCIENTIFIC INSTITUTIONS—*Con.*—INSTITUTIONS SCIENTIFIQUES—*Suite***Vote — Crédit 139 — Dominion Astrophysical Observatory at Victoria, B.C.—*Conc.*
— Observatoire astrophysique de l'État, Victoria, C.B.—*Fin***

<i>Travelling Expenses — Frais de voyages:</i> —W. E. Harper, \$285.12; A. McKellar, \$51.07; sundry travel, \$43.43.....	379 62
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> — Chemical supplies, \$95.46; electrical supplies, \$120.71; instrument supplies and repairs, \$361.52; machine work, \$896.99; photographic supplies, \$298.58; sundries, \$98.88	1,872 14
<i>Printing and Stationery — Impressions et papeterie:</i> —King's Printer, supplies....	424 91
<i>Miscellaneous — Divers:</i> —Compensation for removal of hut (O.C. Sept. 10, 1936), \$300; express and freight, \$103.08; postage and telegrams, \$115.60; subscriptions to publications, \$243.09; telephone service and tolls, \$204.63; sundries, \$71.15..	1,037 55
	<hr/>
	\$ 17,814 67

Vote — Crédit 140 — Topographical and Air surveys — Levés topographiques et photographies par avion

HEAD OFFICE — ADMINISTRATION CENTRALE

<i>Salaries and Wages — Traitements et salaires:</i> —Ottawa..... (Page L—25)	79,493 92
<i>Travelling Expenses — Frais de voyages:</i> —F. H. Peters.....	216 30
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> — Hardware, \$191.73; lumber, \$150; map and lithographic supplies, \$1,209.15; wiring and connecting press, \$262.70; sundries, \$458.54.....	2,272 12
<i>Printing and Stationery — Impressions et papeterie:</i> —Kings Printer, supplies.....	5,105 96
<i>Miscellaneous — Divers:</i> —Custom duties, \$91.51; sundries, \$83.92.....	175 43
	<hr/>
	87,263 73

SURVEYS — LÉVIS

<i>Salaries and Wages — Traitements et salaires:</i> —Articled pupils, cooks, labourers, etc.	6,880 71
<i>Travelling Expenses — Frais de voyages:</i> —J. Carroll, \$278.10; P. W. Clark, \$566.95; C. B. C. Donnelly, \$130.34; E. S. Fry, \$458.50; P. E. Palmer, \$309.85; A. M. Perry, \$168.94; sundry travel, \$80.92.....	1,993 60
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> — Auto repairs and renewals, \$219.05; camp equipment and hardware, \$1,120.83; gasoline and oil, \$412.35; instruments and repairs, \$661.04; lumber, \$150; map and lithographic supplies, \$259.22; motor boat and parts, \$138.25; provisions, \$2,087.89; survey standards, \$237.60; sundries, \$586.97.....	5,873 20
<i>Printing and Stationery — Impressions et papeterie:</i> —King's Printer, supplies....	216 49
<i>Miscellaneous — Divers:</i> —Charter of aeroplane, \$423.80; express, freight and cartage, \$647.62; meals, \$185.30; storage, \$159.32; telegrams, \$97.78; sundries, \$56.84	1,570 66
<i>Other Outlay — Autres déboursés:</i> —Expenses in connection with surveying boundaries of New Westminster harbour, \$522.37, less one-half paid by Province of British Columbia	261 18
	<hr/>
	16,795 84

GENERAL — EN GÉNÉRAL

<i>Adjustments — Ajustements:</i> —Outstanding survey accounts of previous years, for particulars see A. G's report 1922-23 and correspondence in A. G's report 1908-09, pages K—151-153	22,743 55
	<hr/>
	126,803 12
<i>Less</i> —Outstanding survey accounts as above not yet brought to account.....	22,743 55
	<hr/>
	\$ 104,059 57

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

SCIENTIFIC INSTITUTIONS—Con.—INSTITUTIONS SCIENTIFIQUES—Suite

Vote — Cr dit 140 — Topographical and Air surveys—Conc. — Lev s topographiques et photographies par avion—Fin

Classified as follows—Classifi s comme suit:—

Salaries and Wages—	
Ottawa	79,493 92
Outside	6,880 71
Travelling Expenses	2,209 90
Materials, Supplies, Repairs, etc.	
General	7,926 27
Auto repairs and renewals	219 05
Printing and Stationery	5,322 45
Miscellaneous	1,746 09
Other Outlay	261 18
	<u>\$ 104,059 57</u>

Vote — Cr dit 140 — National Air Photographic Library — Collection de photographies a riennes

<i>Travelling Expenses — Frais de voyages:—</i> A. M. Narraway	21 75
<i>Materials, Supplies, Repairs, etc.—Mat�riel, fournitures, reparations, etc.:—</i>	
Photographic supplies	2,366 78
<i>Miscellaneous — Divers:—</i> Sundries	10 94
	<u>\$ 2,399 47</u>

Vote — Cr dit 140 — Board of Examiners for Dominion Land Surveyors, Fees, etc. — Examen des arpenteurs de l' tat: honoraires, etc. des membres du jury

<i>Salaries and Wages — Traitements et salaires:—</i> Services at Ottawa, attending meeting of the Board (Page L—25)		731 50
Presiding at examinations at \$5 per d., R. H. Cautley, \$20; G. H. Herriot, \$20; assistant, \$12		52 00
<i>Miscellaneous — Divers:—</i> Sundries		36 50
		<u>\$ 820 00</u>

Vote — Cr dit 140 — Canadian Institute of Surveying — Institut canadien des arpenteurs

<i>Loans, Grants, Subsidies, etc.—Pr�ts, allocations, subventions, etc.:—</i> Amount paid	\$ 350 00
	<u> </u>

Vote — Cr dit 141 — Geodetic Survey of Canada: Investigations, Triangulations, etc. — Relev s g od tiques du Canada; recherches, triangulations, etc.

HEAD OFFICE — ADMINISTRATION CENTRALE

<i>Salaries and Wages — Traitements et salaires:—</i> Ottawa (Page L—25)		17,804 33
<i>Travelling Expenses — Frais de voyages:—</i> J. L. Rannie, \$307.54; N. J. Ogilvie, \$927.41		1,234 95
<i>Materials, Supplies, Repairs, etc.—Mat�riel, fournitures, reparations, etc.:—</i>		
Auto repairs and renewals, \$35.59; instruments and repairs, \$246.25; mark tablets and wedges, \$259.50; tents and camp equipment, \$168.30; photographic supplies, \$117.19; sundries, \$406.67		1,233 50

MINES AND RESOURCES — MINES ET RESSOURCES

SCIENTIFIC INSTITUTIONS—*Conc.* — INSTITUTIONS SCIENTIFIQUES—*Suite*Vote — Crédit 141 — Geodetic Survey of Canada: Investigations, Triangulations, etc.—*Conc.* — Géodésie du Canada: Recherches, triangulations, etc.—*Fin*HEAD OFFICE—*Conc.* — ADMINISTRATION CENTRALE—*Fin*

<i>Printing and Stationery — Impressions et papeterie:</i> —King's Printer, supplies....	2,435 90
<i>Miscellaneous — Divers:</i> —Express and freight, \$190.09; membership fee in International Union of Geodesy and Geophysics, \$972.30; storage, \$138.40; subscriptions, \$83.08; telegrams, \$83.02; sundries, \$49.24.....	1,516 13 24,224 81

PRECISE LEVELLING — NIVELLEMENTS DE PRÉCISION

<i>Salaries and Wages — Traitements et salaires:</i> —Ottawa (Page L—25), \$26,036.20; outside, cooks, labourers, etc., \$3,214.87.....	29,251 07
<i>Travelling Expenses — Frais de voyages:</i> —L. O. R. Dozois, \$80.30; H. Montgomery, \$187.01; G. S. Raley, \$94.05; F. B. Reid, \$348.54; sundry travel, \$11.05.....	720 95
<i>Materials, Supplies, Repairs, etc. — Matériel, fournitures, réparations, etc.:</i> —Auto repairs and renewals, \$286.50; gasoline and oil, \$167.90; provisions, \$846.77; sundries, \$321.27.....	1,622 44 50 98
<i>Printing and Stationery — Impressions et papeterie:</i> —King's Printer, supplies....	267 70
<i>Miscellaneous — Divers:</i> —Express and freight, 163.88; storage, \$18.60; telephone, \$12.60; sundries, \$72.62.....	31,915 14

TRIANGULATION

<i>Salaries and Wages — Traitements et salaires:</i> —Ottawa (Page L—25), \$56,202; outside cooks, labourers, etc., \$4,313.....	60,515 00
<i>Travelling Expenses — Frais de voyages:</i> —J. H. Kihl, \$306.32; J. L. Rannie, \$18.30; J. E. Ratz-Ross, \$88.43; J. M. Riddell, \$714.85; G. W. Stead, \$34.60; B. J. Woodruff, \$357.50.....	1,520 00
<i>Materials, Supplies, Repairs, etc. — Matériel, fournitures, réparations, etc.:</i> —Auto repairs and renewals, \$177.20; batteries and cells, \$230.32; gas and oil, \$424.15; provisions, \$1,550.12; tents, \$164.75; sundries, \$218.56.....	2,765 10 153 60
<i>Printing and Stationery — Impressions et papeterie:</i> —King's Printer, supplies....	1,036 05
<i>Miscellaneous — Divers:</i> —Aerial reconnaissance, \$495; express and freight, \$129.03; horse hire, \$165.50; storage, \$129.65; sundries, \$116.87.....	65,989 75

ISOSTASY AND BASE LINES — ÉTUDES ISOSTATIQUES ET LIGNES DE BASE

<i>Salaries and Wages — Traitements et salaires:</i> —Ottawa (Page L—25), \$8,721; outside labourers, \$476.....	9,197 00
<i>Travelling Expenses — Frais de voyages:</i> —T. C. Dennis, \$369.03; D. J. Fraser, \$117.15; C. H. Ney, \$59.95.....	546 13
<i>Materials, Supplies, Repairs, etc. — Matériel, fournitures, réparations, etc.:</i> —Auto repairs and renewals, \$128.90; electrical supplies, \$105.50; gasoline and oil, \$155.49; tents and cots, \$60.54; sundries, \$141.25.....	591 68 123 13
<i>Printing and Stationery — Impressions et papeterie:</i> —King's Printer, supplies....	247 32
<i>Miscellaneous — Divers:</i> —Express and freight, \$146.99; storage, \$10.30; sundries, \$90.03.....	10,705 26
	<u>\$ 132,832 96</u>

Classified as follows — Classifiées comme suit:—

Salaries and Wages—	
Ottawa.....	108,763 53
Outside.....	8,003 87
Travelling Expenses.....	4,022 03
Materials, Supplies, Repairs, etc.	
General.....	5,584 53
Auto repairs and renewals.....	628 19
Printing and Stationery.....	2,763 61
Miscellaneous.....	3,067 20
	<u>\$ 132,832 96</u>

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

SCIENTIFIC INSTITUTIONS—Conc.—INSTITUTIONS SCIENTIFIQUES—Fin

Vote — Crédit 141 — Compensation for Injury to John Hedin — Remboursement de la pension payée à John Hedin

Other Outlay — Autres déboursés:—Temiskaming and Northern Ontario Railway Commission, pension awarded at \$20 per month.....\$ 240 00

Votes — Crédits 142 & 482 — Survey and Demarcation of International Boundaries — Levés et délimitations des frontières

HEAD OFFICE — ADMINISTRATION CENTRALE

Salaries and Wages — Traitements et salaires:—Ottawa..... (Page L—25) 15,618 00
Travelling Expenses — Frais de voyages:—N. J. Ogilvie..... 42 91
Materials, Supplies, Repairs, etc. — Matériel, fournitures, réparations, etc.:—
 Sundries 48 89
Printing and Stationery — Impressions et papeterie:—King's Printer, supplies.... 110 41
Miscellaneous — Divers:—Canada's share of progress payment on printing and binding Commissioners' joint report, \$996.17; sundries, \$9.40..... 1,005 57

MAINTENANCE — ENTRETIEN

Salaries and Wages — Traitements et salaires:—Axemen, cooks, foremen, labourers 9,243 14
Travelling Expenses — Frais de voyages:—D. F. Chisholm, \$414.46; H. S. Mussell, \$115.88; G. T. Prinsep, \$72.68; J. A. Pounder, \$117.90; sundry travel, \$17.54.... 738 46
Materials, Supplies, Repairs, etc. — Matériel, fournitures, réparations, etc.:—
 Auto repairs and renewals, \$441.96; gasoline and oil, \$480.40; hardware, \$288.72; provisions, \$2,246.51; sundries, \$355.99..... 3,813 58
Printing and Stationery — Impressions et papeterie:—King's Printer, supplies.... 4 16
Miscellaneous — Divers:—E. Bell, horse hire, \$1,676.40; accounts under \$1,000: express, freight and cartage, \$79.31; rental of car, \$150.30; rooms and meals, \$71.05; transportation of equipment, \$119.12; sundries, \$231.63..... 2,327 81
Adjustment — Ajustement:—Department of Transport, expenses in connection with boundary lights, \$309.50, less paid by United States Government, \$109.16... 200 34
16,327 49
\$ 33,153 27

Classified as follows — Classifiées comme suit:—

Salaries and Wages—	
Ottawa	15,618 00
Outside	9,243 14
Travelling Expenses	781 37
Materials, Supplies, Repairs, etc.	
General	3,420 51
Auto repairs and renewals.....	441 96
Printing and Stationery.....	114 57
Miscellaneous	3,333 38
Adjustment	200 34
	<u>\$ 33,153 27</u>

MINES AND GEOLOGICAL SURVEY — MINES ET LEVÉS GÉOLOGIQUES

Vote — Crédit 152 — For administration of the Explosives Act (Chap. 62, R.S.C., 1927) — Frais d'application de la Loi des explosifs (Ch. 62, S.R.C., 1927)

Salaries and Wages — Traitements et salaires:—Ottawa..... (Page L—25) 1,180 00
Travelling Expenses — Frais de voyages:—M. C. Fletcher, \$354.15; F. E. Leach, \$1,633.07, living allowance while in Ottawa, Jan. 5 to Mar. 31, 1937, \$272.10; G. Ogilvie, \$620.72; P. V. Rosewarne, \$12.45; M. S. Ralph, \$13.04..... 2,905 53
Materials, Supplies, Repairs, etc. — Matériel, fournitures, réparations, etc.:—
 Chemicals, \$7.42; laboratory supplies, \$32.38; motor car, less allowance, \$395 on old car, \$418.36; motor car repairs and supplies, \$45.27..... 503 43

MINES AND RESOURCES—MINES ET RESSOURCES

MINES AND GEOLOGICAL SURVEY—*Con.* — MINES ET LEVÉS GÉOLOGIQUES—*Suite*

Vote — Cr dit 152 — For administration of the Explosives Act (Chap. 62, R.S.C., 1927)—*Conc.* — Frais d'application de la Loi des explosifs, (Ch. 62, S.R.C., 1927)—*Fin*

<i>Printing and Stationery—Impressions et papeterie:—</i> King's Printer, supplies....	388 13
<i>Miscellaneous—Divers:—</i> Expenses, enforcement of Explosives Act by R.C.M.P., \$277.07; expenses <i>re</i> committee appointed to report on Berinite, \$688.70; freight and express, \$8.86; newspaper subscriptions and membership fees, \$49.50; telephones and telegrams, \$216.60; Vancouver Office expenses, \$62.57.....	1,303 30
	\$ 6,280 39

Vote — Cr dit 153 — Mines Branch: Investigation of Mineral Resources and Deposits, etc. — Mines:  tudes des ressources min rales et des gisements de min rai

<i>Salaries and Wages—Traitements et salaires:—</i> Ottawa..... (Page L—25)	159,642 04
<i>Materials, Supplies, Repairs, etc.—Mat�riel, fournitures, r�parations, etc.:—</i> Laboratory apparatus and supplies: Central Scientific Company of Canada, Limited, Toronto, \$2,483.79; Denver Equipment Company, Limited, Toronto, \$1,453.76; Fate-Root-Heath Company, Plymouth, Ohio, \$1,000; Hardinge Company Incorporated, York, Penna., \$1,627.88; Mico Instrument Company, Cambridge, Mass., \$6,000.68; Ontario Hughes-Owens Company, Limited, \$2,463.32; accounts under \$1,000: \$2,627.47.....	17,656 90
<i>Machinery parts and supplies: Canadian Fairbanks Morse Company, Limited, Montreal, \$2,299.47; Williams and Wilson, Limited, Montreal, \$1,622.26; accounts under \$1,000: \$1,856.84.....</i>	5,778 57
<i>Various: bags, \$99.86; carbons, \$201.60; cans, pails, tubs, \$360.15; chemicals and drugs, \$582.02; coal and coke, \$125.05; condensers, \$655.10; cupboards, \$97.20; electrical supplies, \$1,264.35; fire crete brick, etc., \$355.89; furnace, \$642.50; gasoline and oil, \$753.21; granite specimens, \$179.33; gravitometer, \$382; hardware, \$767.49; iron and bronze castings, \$733.89; iron and steel, \$790.90; liquid air, oxygen, etc., \$1,364.18; lumber, \$914.98; microscopes, \$365.35; motor car repairs and supplies, \$181.37; motors, \$258.25; paints, \$251.85; photographic supplies, \$472.13; platinum, \$124.91; plumbing supplies, \$661.66; prints, \$125.90; repairs, \$56.84; rubber belting, etc., \$168.38; sand and stone, \$127.33; Wilfey concentrating table, \$405; sundries, \$316.98.....</i>	13,785 65
	37,221 12
<i>Printing and Stationery—Impressions et papeterie:—</i> King's Printer, supplies....	18,066 48
<i>Miscellaneous—Divers:—</i> Car tickets, \$80; customs duty, \$879.23; expenses collecting gasoline samples, \$70.42; expenses salvaging, moving and repairs to warehouse, \$86.60; freight and express, \$1,817.76; membership fees, \$553.69; postage, \$114.51; subscriptions to newspapers, etc., \$80; telephones and telegrams, \$252.49; towel service, \$138.40; washing towels, \$180; sundries, \$78.51..	4,331 61

EXPENSES OF INVESTIGATORS — FRAIS DE RECHERCHES

Buisson, G. J. A., expenses.....	690 33
Burrough, E. J., expenses.....	459 48
Casey, J. M.: maintenance of motor cars, \$73.85; expenses, \$649.26.....	723 11
Eardley-Wilmot, V. L.: maintenance of motor car, \$170.91; expenses, \$320.59.....	491 52
Farnham, G. S., expenses.....	464 48
Goudge, M. F., expenses.....	693 36
Haanel, B. F., expenses.....	810 72
Haycock, M. H., expenses.....	473 77
Leverin, H. A.: maintenance of motor car, \$200.42; expenses, \$624.64.....	825 06
Malloch, E. S., expenses.....	512 79
Phillips, J. G., expenses.....	817 29
Robinson, A. H. A., expenses.....	650 31
Spence, H. S.: wages, \$22.30; maintenance of motor car, \$102.27; expenses, \$588.21.	713 78
Strong, R. A., expenses.....	455 62
Wilson, A. W. G., expenses.....	778 10

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

MINES AND GEOLOGICAL SURVEY—Con.—MINES ET LEVÉS GÉOLOGIQUES—Suite

Vote — Crédit 153 — Mines Branch: Investigation of Mineral Resources and Deposits, etc.—Conc.—Mines: Études des ressources minérales et des gisements de minéral—Fin

EXPENSES OF INVESTIGATORS—Conc.—FRAIS DE RECHERCHES—Fin

Sundry investigations:—C. E. Baltzer, \$9.35; H. L. Beer, \$88.70; W. P. Campbell, \$288.51; L. H. Cole, \$279.05; L. P. Collin, \$57.30; J. R. Cox, \$85.20; S. C. Ells, \$18; H. Frechette, \$139.15; C. H. Freeman, \$86.80; A. E. Laroche, \$73.73; W. R. McClelland, \$412.03; F. G. Neate, \$104.22; R. J. Offord, \$164.05; C. S. Parsons, \$182.35; R. H. Picher, \$180.96; P. V. Rosewarne, \$38.90; E. Swartzman, \$315.85; W. B. Timm, \$31.70; R. J. Traill, \$101.35; E. H. Wait, \$235.07.....	2,892 27 12,451 99
	<u>231,713 24</u>
Less—Refunds of gasoline tax.....	85 13
	<u>\$ 231,628 11</u>

Classified as follows—Classifiées comme suit:—

Salaries and Wages—	
At Ottawa	159,642 04
Outside	80 05
Travelling Expenses	11,320 62
Materials, Supplies, Repairs, etc.—	
General	37,703 71
New Autos and Auto Repairs, Renewals, etc.....	483 60
Printing and Stationery.....	18,066 48
Miscellaneous	4,331 61
	<u>\$ 231,628 11</u>

Vote — Crédit 154 — Geological Survey: Explorations, Surveys and Investigations, etc.—Levés géologiques: Explorations, études et recherches, etc.

Salaries and Wages — Traitements et salaires:—Ottawa..... (Page L—25)	71,934 99
Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:—	
Photographic supplies: W. E. Booth, Company, Limited, Toronto, \$1,380.82; various, \$1,348.21; plateholders, \$293.76.....	3,022 79
Tents, robes, bags, blankets, repairs, etc.: H. Carson, Company, Limited, \$1,279.60; S. S. Holden, Limited, \$1,098.59; Woods Manufacturing Company, Limited, \$1,389.19; accounts under \$1,000: \$624.24.....	4,391 62
Various: Mutual Services, repairs to motors, \$1,130.47; accounts under \$1,000: aluminum pots, \$165.59, aneroids, \$380, binoculars, \$112.80, blue print paper, \$702.23, cotton materials, etc., \$420.92, drugs and chemicals, \$154.74, electrical supplies, \$111.89, first aid supplies, \$453.91, gasoline and oil, \$164.06, geological hammers and picks, \$765.13, hardware, \$348.26, instruments, \$315.51, laboratory apparatus and supplies, \$231.42, lanterns and stoves, \$181.30, lumber, \$316.66, motor car repairs and supplies, \$1,103.79, paddles and canoes, \$791.63, prints, \$502.23, repairs, \$953.12, strata bags, \$246.96, stereoscopes, \$220, theodolite, \$250, wintering horses, \$1,297.47, wooden trays, \$285, sundries, \$183.10.....	11,788 19 19,202 60 34,040 72
Printing and Stationery — Impressions et papeterie:—King's Printer, supplies....	
Miscellaneous — Divers:—Customs duty, \$217.95; freight and express, \$2,248.12; laundry and dry cleaning, \$139.91; lettering trucks and painting survey signs, \$249.30; storage of equipment, \$391.62; storage of motor cars, \$828.72; telephones and telegrams, \$639.01; sundries, \$36.14.....	4,750 77

EXPENSES OF EXPLORERS, TOPOGRAPHERS AND OTHERS
DÉPENSES DES EXPLORATEURS, TOPOGRAPHES, ETC.

Alcock, F. J.: maintenance of motor car, \$56.29; expenses, \$207.98.....	264 27
Bancroft, M. F.: assistants, 2, \$490; wages, \$632.50; maintenance of motor car, \$152.60; expenses, \$1,278.38.....	2,553 48
Barbeau, C. M.: wages, \$1,460; maintenance of motor car, \$220.10; expenses, \$666.03.....	2,346 13

MINES AND RESOURCES—MINES ET RESSOURCES

MINES AND GEOLOGICAL SURVEY—*Con.* — MINES ET LEVÉS GÉOLOGIQUES—*Suite***Vote — Cr dit 154 — Geological Survey: Explorations, Surveys and Investigations, etc.—*Con.* — Lev s g ologiques: Explorations,  tudes et recherches, etc.—*Suite***EXPENSES OF EXPLORERS, TOPOGRAPHERS AND OTHERS—*Con.*
D PENSES DES EXPLORATEURS, TOPOGRAPHES, ETC.—*Suite*

Bostock, H. S.: assistants, 3, \$1,144.32; wages, \$1,076.25; transportation, \$1,740.60; wintering horses, \$209.20; expenses, \$1,112.26; compensation for loss of personal effects, P.C. 21/512: W. C. Howells, \$73, G. Mason, \$96.05, K. G. Rathbone, \$10.	5,461 68
Cairnes, C. E.: assistants, 2, \$630.20; wages, \$1,218; transportation, \$325.77; maintenance of motor car, \$186.61; hire of 7 pack horses, \$346.50; expenses, \$670.06.	3,377 14
Clarke, C. H. D.: wages, \$515; transportation, \$713.90; expenses, \$389.71.	1,618 61
Cockfield, W. E.: wages, \$579.45; transportation, \$108.10; maintenance, \$124.05; expenses, \$376.12	1,187 72
Cooke, H. C.: transportation, \$264.75; expenses, \$26.14	290 89
Downie, D. L.: assistants, 5, \$1,255.45; wages, \$918; transportation: Canadian Airways, Ltd., \$1,940.14, various, \$259.90; freight and express: Canadian Airways, Ltd., \$885.20, various, \$909.26; expenses, \$405.38; expenses re drowning accident of H. Sirulnikoff, P.C. 18/3195: Canadian Airways, Ltd., \$478.50, various, \$7.	7,058 83
DuVernet, F. P.: assistants, 2, \$781.65; wages, \$1,388; transportation, \$409.15; maintenance of horses, \$126.39; expenses, \$736.30	3,441 49
Flaherty, G. F.: assistants, 2, \$655.50; wages, \$1,058; transportation, \$215.41; freight and express, \$201.49; expenses, \$697.22	2,827 62
Gray, J. G.: assistants, 3, \$942; wages, \$430.50; transportation, \$318.65; maintenance of motor car, \$167.88; expenses, \$622.04	2,481 07
Gunning, H. C.: assistants, 7, \$2,105.65; wages, \$1,205.50; transportation, \$560.86; maintenance of motor car, \$129.73; expenses, \$1,345.79	5,347 53
Hage, C. O.: assistants, 2, \$672.60; wages, \$527; transportation, \$228.09; maintenance of motor car, \$655.08; expenses, \$472.40	2,555 17
Henderson, J. F.: assistants, 6, \$2,066.25; wages, \$366; transportation: Canadian Airways, Limited, \$3,992.61, MacKenzie Air Service, Limited, \$383.70, various, \$473.13; expenses, \$985.15	8,266 84
Jenness, D.: expenses	502 46
Kerr, F. A.: assistants, 4, \$1,434.95; wages, \$1,566.50; transportation, \$574.75; expenses, \$1,295.29	4,871 49
Kindle, E. D.: assistants, 3, \$986.10; wages, \$723.50; transportation, \$813.20; maintenance of motor car, \$92.26; expenses, \$942.53; expenses, J. W. Hoadley, P.C. 18/512, \$10	3,567 59
Kindle, E. M.: wages, \$27; transportation, \$160.25; maintenance of motor car, \$105.72; expenses, \$209.74	502 71
Laing, H. M.: assistant, \$252.50; wages, \$257.50; transportation, \$196.50; expenses, \$281.47; manuscript of report, maps, etc. of survey, \$120	1,107 97
Lang, A. H.: assistant, \$584.20; wages, \$977; transportation, \$209.44; expenses, \$814.12	2,584 76
LaRocque, C. J. A. A.: wages, \$49; maintenance of motor car, \$96.08; expenses, \$97.60	242 68
Marshall, J. R.: wages, \$174; maintenance of motor car, \$60.17; expenses, \$397.01	631 18
McDonald, R. C.: assistants, 5, \$1,595.60; wages, \$626.50; transportation, \$749.40; hire of 10 pack horses, \$630; maintenance of motor car, \$154.15; expenses, \$1,045.68	4,801 33
McLearn, F. H.: assistants, 3, \$1,027.75; wages, \$865; transportation, \$224.51; maintenance of motor car, \$299.89; expenses, \$706.27	3,123 42
McMurphy, R. C.: assistants, 3, \$928.75; wages, \$2,190.50; transportation: Canadian Airways, Limited, \$1,491.79, M. & C. Aviation, \$480, various, \$481.67; gasoline and oil, \$104.73; freight and express: Canadian Airways, Limited, \$134.84, M. & C. Aviation Company, \$111.42, various, \$49.62; expenses, \$1,257.23	7,230 55
McNaughton, D. A.: assistants, 4, \$1,567.65; wages, \$528; transportation, \$469.36; maintenance of motor car, \$142.01; expenses, \$900.13	3,607 15
Norman, G. W. H.: assistants, 3, \$870.30; wages, \$749.50; transportation: Canadian Airways, Limited, \$189, Dominion Skyways Limited, \$80, General Airways, Limited, \$80, various, \$229.22; express, Canadian Airways, Limited, \$462.89; expenses, \$693.48	3,354 39
Parlee, R. J.: assistants, 2, \$817.95; wages, \$1,176; transportation, \$434.50; maintenance of horses, \$106.54; expenses, \$575.96	3,110 95
Poitevin, E., expenses	241 79
Rice, H. M. A.: assistants, 3, \$953.70; wages, \$581; transportation, \$542; hire of 10 horses, \$581.25; maintenance of motor car, \$157.15; expenses, \$701.35	3,516 45

DETAILS OF EXPENDITURE—Con.— DÉTAIL DES DÉPENSES—Suite

MINES AND GEOLOGICAL SURVEY—Con.— MINES ET LEVÉS GÉOLOGIQUES—Suite

Vote — Crédit 154 — Geological Survey: Explorations, Surveys and Investigations, etc.—Conc. — Levés géologiques: Explorations, études et recherches, etc.—Fin

EXPENSES OF EXPLORERS, TOPOGRAPHERS AND OTHERS—Conc.
DÉPENSES DES EXPLORATEURS, TOPOGRAPHES, ETC.—Fin

Russell, L. S.: assistants, 4, \$1,498.65; wages, \$490; transportation, \$523.58; gasoline and oil, \$407.74; maintenance of motor car, \$306.34; freight and express, \$202.14; expenses, \$758.04	4,186 49
Spence, H. N.: wages, \$1,873; transportation, \$333.60; maintenance of motor car, \$120.51; freight and express: General Airways, \$236.31, various, \$70.76; expenses, \$1,258.51	3,892 69
Spence, J. W.: assistants, 12, \$3,412.90; wages, \$5,008.71; transportation, \$719.74; gasoline and oil, \$384.75; maintenance of motor cars, \$104.27; expenses, \$1,785.50	11,415 87
Sproule, J. C.: assistants, 5, \$1,595.60; wages, \$2,223; transportation: Dominion Skyways, Limited, \$273.29, various, \$367.46; gasoline and oil, \$80.69; freight and express: Dominion Skyways, Limited, \$685.38, various, \$11.74; expenses, \$1,363.28	6,600 44
Sternberg, C. M.: assistant, \$336; wages, \$522; transportation, \$372.12; gasoline and oil, \$106.80; maintenance of motor car, \$117.14; freight and express, \$336.62; expenses, \$508.71	2,299 39
Stockwell, C. H.: assistants, 9, \$2,519.30; wages, \$3,006.30; transportation: Canadian Airways, Limited, \$85.50, Wings, Limited, \$135, various, \$781.35; gasoline and oil, \$75.48; freight and express: Wings, Limited, \$238.99, various, \$332; expenses, \$2,549.50	9,723 42
Taverner, P. A.: assistant, \$270; wages, \$273; transportation, \$475.90; expenses, \$266.97	1,285 87
Taylor, T. M. C.: assistants, \$704; transportation, \$359.30; expenses, \$519.70	1,583 00
Tuttle, A. C.: assistants, 2, \$703.70; wages, \$1,171; transportation, \$600.68; maintenance of motor car, \$161.34; expenses, \$1,449.02	4,085 74
Weeks, L. J.: assistants, 5, \$1,589.20; wages, \$2,171; transportation, \$289.12; maintenance of motor cars, \$207.30; gasoline and oil, \$558.22; expenses, \$1,602.04	6,416 88
West, H. A. S.: assistants, \$396.15; wages, \$1,064.50; transportation, \$527.75; gasoline and oil, \$306.80; expenses, \$887.02	3,182 22
Wilson, A. E.: assistant, \$282.15; maintenance of motor car, \$58.63; expenses, \$260.34	601 12
Wilson, M. E., expenses	247 14
Wintemberg, W. J.: wages, \$162; expenses, \$94.50	256 50
Sundry investigations, reports, etc.: H. V. Ellsworth, \$2.95; C. S. Evans, \$37.30; N. F. G. Davis, \$150; R. C. Hosie, \$120; G. S. Hume, \$238.52; J. D. Leechman, \$107.55; D. A. Nichols, \$121.31; C. L. Patch, \$115.28; A. E. Porsild, \$235.01; J. A. Retty, \$103.25	1,231 17
<i>Adjustments — Ajustements:</i> —Detailed with Vote 342, Page L—119, \$3,916.70; in 1935-36, see A.G. Report, page P—18, \$1,326	5,242 70
	284,255 06
<i>Less—</i>	
Sale: canoe, \$30; heaters, 2, \$4.50; stoves, 2, \$20; gasoline, \$52.65\$	107 15
Refund of gasoline tax	335 37
	442 52
	<u>\$ 283,812 54</u>

Classified as follows—Classifiées comme suite:—

Salaries and Wages—	
At Ottawa	71,934 99
Outside	74,259 12
Travelling Expenses	31,483 01
Materials, Supplies, Repairs, etc.—	
General	53,661 48
New Autos and Auto Repairs, Renewals, etc.	2,872 11
Printing and Stationery	34,040 72
Miscellaneous	14,506 56
Other Outlay	1,054 55
	<u>\$ 283,812 54</u>

MINES AND RESOURCES—MINES ET RESSOURCES

MINES AND GEOLOGICAL SURVEY—*Conc.*—MINES ET LEVÉS GÉOLOGIQUES—*Fin***Vote — Crédit 154 — Geological Survey: Maintenance of Offices and Museum, etc. — Levés géologiques: Entretien des bureaux et du musée, etc.**

<i>Salaries and Wages — Traitements et salaires:</i> —Ottawa..... (Page L—25)	59,645 68
<i>Travelling Expenses — Frais de voyages:</i> —C. M. Barbeau.....	40 00
<i>Materials, Supplies, Repairs, etc. — Matériel, fournitures, réparations, etc.:</i> — Motion picture apparatus and supplies: Canadian Theatre Supply Co., Montreal, \$1,391.60; accounts under \$1,000: \$772.73.....	2,164 33
Various: beaver board, \$101.20; chemicals and drugs, \$380.68; covers for draught- ing tables, \$67.45; electrical supplies, \$246.73; gasoline, \$93; hardware, \$531.92; laboratory apparatus and supplies, \$1,060.08; lumber, \$795.76; cloth, etc., \$217.27; motor car supplies, \$21.18; photographic supplies, \$1,013.39; prints, \$431.55; various specimens, \$361.48; wood carvings, 7, \$300; wooden trays, \$134.99; sundries, \$232.77.....	5,989 45
<i>Printing and Stationery — Impressions et papeterie:</i> —King's Printer, supplies....	8,153 78
<i>Miscellaneous — Divers:</i> —Car tickets, \$70; customs duty, \$84.37; express and freight, \$457.49; membership fees, \$540.29; newspaper subscriptions, \$261.88; postage, \$582.54; rental of films, \$175.76; telegrams and telephones, \$175.04; Vancouver Office expenses, \$205.23; washing towels, \$223; sundries, \$46.62.....	2,822 22
<i>Adjustment — Ajustement:</i> —Detailed in 1935-36, see A.G.'s report, page P—12....	200 00
	\$ 80,016 88

**Under Statute — Statutaire — Domestic Fuel Act of 1927, 17 George V,
Chapter 52 — Loi de 1927 sur le charbon domestique, 17 Geo. V,
Chapitre 52**

<i>Loans, Grants, Subsidies, etc. — Prêts, allocations, subventions, etc.:</i> —Payments for Canadian coal used in the production of coke for domestic use and sold for that purpose: British Columbia Electric Power and Gas Company, Limited, \$34,186.15; Nova Scotia Light and Power Company, Limited, \$7,408.50; Quebec Power Company, \$12,220.12.....	\$ 53,814 77
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INDIAN AFFAIRS — AFFAIRES INDIENNES

**Votes — Crédits 166, 378† & 491 — Expenses connected with the administration,
etc., of Indian Affairs — Affaires indiennes: Frais d'administration, etc.**

SUMMARY — SOMMAIRE

Nova Scotia..... (Page L—53)	118,735 73
New Brunswick..... (Page L—54)	91,890 06
Prince Edward Island..... (Page L—54)	12,653 73
Quebec..... (Page L—55)	294,041 91
Ontario..... (Page L—56)	444,887 97
Manitoba..... (Page L—59)	256,383 51
Saskatchewan..... (Page L—61)	327,481 54
Alberta..... (Page L—64)	316,421 47
British Columbia— General..... (Page L—66)\$ 471,018 72	
Special Grant..... (Page L—69) 99,504 09	
	570,522 81
Northwest Territories..... (Page L—69)	90,728 77
Yukon..... (Page L—70)	21,616 98
General..... (Page L—70)	131,713 12
Indian Education— Residential Schools..... (Page L—71)1,411,124 84	
Day Schools..... (Page L—74) 330,433 05	
General Expenditure..... (Page L—83) 79,419 91	
	1,820,977 80
	\$ 4,498,055 40

† Supplementary vote — Crédit supplémentaire.

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

INDIAN AFFAIRS—Con.—AFFAIRES INDIENNES—Suite

Notes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—Con. — Affaires indiennes: Frais d'administration, etc.—Suite

DETAILS — DÉTAIL

NOVA SCOTIA — NOUVELLE ÉCOSSE

Annapolis Agency:—Salaries: agents, gr. 1 at \$200, Dr. A. A. Nichol, April 1 to May 20, Dr. E. C. Harry, 10 m. to Mar. 31; physicians, part time, Dr. H. E. Kelly, \$200, Dr. S. B. W. Braine, 7 m. to Mar. 31, \$280. Travelling expenses, agent, \$58.65; physician, \$12. Indians, \$9; drugs, \$18.50; hospitals, \$135.50; medical attendance, \$298.05; sundries, \$8.99; aids to Indians, \$2,874.91.....	4,089 68
Antigonish and Guysboro Agency:—Salaries: agent, gr. 1, W. J. Cameron, \$200; physician, part time, Dr. W. F. McKinnon, \$500. Travelling expenses, agent, \$62.08, Indians, \$15.96; drugs, \$3.50; hospitals, \$1,496.25; medical attendance, \$740.69; sundries, \$13.30; aids to Indians, \$4,854.94.....	7,886 72
Colchester Agency:—Salaries: agent, gr. 1, B. B. Fox, \$200; physician, part time, Dr. H. V. Kent, \$300. Travelling expenses, agent, \$264.94; drugs and medical supplies, \$334.30; bridge repairs, \$103.20; road grant, \$400; road repairs, \$575; hospitals, \$557.50; medical attendance, \$301.50; aids to Indians, \$6,832.52.	9,868 96
Cumberland Agency:—Salaries: agents, gr. 1 at \$200, Dr. C. H. Cameron, 4 m. to July 31; Rev. W. V. McCarthy, 8 m. to Mar. 31; physicians, part time at \$100, Dr. O. Drury, April 1 to 10, Dr. W. O. Coates, April 11 to Mar. 31, Dr. C. S. Henderson, April 1 to 10, Dr. C. E. Stuart, April 11 to Mar. 31, Dr. R. R. Withrow, \$100. Travelling expenses, agents, \$69.53; Indians, \$4; drugs, \$12; hospitals, \$721.25; medical services, \$764.79; sundries, \$13.42; aids to Indians, \$2,428.85.....	4,513 84
Digby Agency: Salaries: agent, gr. 1, S. E. Darres, \$200; physicians, part time, Dr. A. B. Campbell, \$400, Dr. H. J. Melanson, \$100. Travelling expenses, agent, \$68.91, Indians, \$23.59; road repairs, \$74.25; hospitals, \$937.20; medical attendance, \$418.25; sundries, \$1.20; aids to Indians, \$3,555.90.....	5,779 30
Eskasoni Agency:—Salaries: agent, gr. 1, A. R. McDonald, \$200; physicians, part time, at \$200, Dr. W. T. McKeough, 8 m. to Nov. 30, Dr. A. K. Roy, 4 m. to Mar. 31, drug allowance, 4 m. to Mar. 31, \$50. Travelling expenses, agent, \$64.40, Dr. A. K. Roy, \$35.10, Indians, \$16.20; road repairs, \$375; hospitals, \$419.50; medical attendance, \$123; telephone, \$24; aids to Indians, \$3,692.83...	5,200 03
Halifax Agency:—Salaries: agent, gr. 1, R. B. Henley, \$200; physician, part time, Dr. D. F. McInnis, April 1 to 14, \$7.77, drugs, \$26.25; hospitals, \$1,289.02; medical attendance, \$490.75; sundries, \$9.75; aids to Indians, \$1,319.15.....	3,342 69
Hants Agency:—Salaries: agents, gr. 1, J. S. Robb, \$200, at \$150, A. W. MacDonald, 2 m. to May 31, P. A. Millett, 10 m. to Mar. 31; physicians, part time, Dr. D. F. McInnis, April 1 to 14 at \$250, April 15 to Mar. 31 at \$1,200, drug allowance, Oct. 1, 1935, to April 15, 1936, at \$100, Dr. C. H. Morris, \$150. Travelling expenses, agents, \$18.64, Indians, \$8.50; drugs and medical supplies, \$192.15; hospitals, \$1,698.75; medical attendance, \$354.15; aids to Indians, \$4,077.46.....	8,066 87
Inverness Agency:—Salaries: agent, gr. 1, Rev. A. C. MacNeil, \$200; physician, part time, Dr. M. G. MacLeod, \$1,020. Travelling expenses, agent, \$110.05, Indians, \$46.15; road repairs, \$300; hospitals, \$1,254.64; medical attendance, \$406; aids to Indians, \$7,566.29.....	10,903 13
King's Agency:—Salaries: agent, gr. 1 at \$200, C. Spinney, Mar. 28, 1936, to Mar. 31, 1937; physician, part time, Dr. R. O. Bethune, \$200, drug allowance, 9 m. to Dec. 31, at \$100. Travelling expenses, agent, \$257.85, Indians, \$69.10; drugs, \$21.55; repairs, \$43.11; hospitals, \$1,841.10; medical attendance, \$1,476.25; postage, \$12.03; sundries, \$3.93; aids to Indians, \$9,154.23.....	13,356 32
Lunenburg Agency:—Salaries: agent, gr. 1 at \$200, B. W. Skinner, April 2 to Mar. 31; physicians, part time, Dr. H. A. Fraser, \$100, Dr. W. E. Pollett, \$50, drugs, \$6.25; surveys, R. R. Ross, \$351.68; medical attendance, \$103.65; aids to Indians, \$808.08.....	1,619 10
Pictou Agency:—Salaries: agent, gr. 1, Rev. A. A. Johnston, \$200; physician, part time, Dr. J. J. MacDonald, \$500, drug allowance, \$300. Travelling expenses, agent, \$25.48, Indians, \$1.50; drugs, \$18.50; hospitals, \$523.10; medical attendance, \$695.50; aids to Indians, \$5,163.57.....	7,427 65
Queen's Agency:—Salaries: agents, gr. 1, at \$100, C. A. Brown, April 1 to Aug. 9, H. Minard, Aug. 10 to Mar. 31. Travelling expenses, agent, \$33.54; hospitals, \$626.96; medical attendance, \$453.25; aids to Indians, \$1,132.20.....	2,345 95

MINES AND RESOURCES—MINES ET RESSOURCES

INDIAN AFFAIRS—*Con.* — AFFAIRES INDIENNES—*Suite*Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—*Con.* — Affaires indiennes: Frais d'administration, etc.—*Suite*NOVA SCOTIA—*Conc.* — NOUVELLE ÉCOSSE—*Fin*

Richmond Agency:—Salaries: agents, gr. 1, at \$200, J. A. Currie, April 1 to June 17, Dr. J. H. Langley, June 18 to Mar. 31; physician, part time, Dr. J. H. Digout, \$300, drug allowance, \$200. Travelling expenses, agent, \$10, Indians, \$15.75; hospitals, \$459.83; medical attendance, \$46.50; aids to Indians, \$6,506.18..	7,738 26
Shelburne Agency:—Salary: agent, gr. 1, F. Jackson, \$100. Travelling expenses, \$7.50; drugs, \$8.25; hospitals, \$224; medical attendance, \$946.55; sundries, \$1.40; aids to Indians, \$1,565.12.....	2,852 82
Sydney Agency:—Salaries: agent, gr. 1, J. MacKinnon, \$200; physician, part time, Dr. P. M. Carter, \$350. Travelling expenses, agent, \$139.40, Indians, \$113; drugs and medical supplies, \$110.27; pump expenses, \$37.40; hospitals, \$3,051.29; medical services, \$1,107.31; rent of office, 6 m., \$50; sundry, \$13; aids to Indians, \$6,265.77.....	11,437 44
Victoria Agency:—Salary: agent, gr. 1, Rev. D. J. Rankin, \$200. Travelling expenses, agent, \$57.28, Indians, \$23.25; hospitals, \$1,424.61; medical attendance, \$581.81; telephone, \$27; aids to Indians, \$4,768.14.....	7,082 09
Yarmouth Agency:—Salary: agent, gr. 1, G. L. Cann, \$150. Travelling expenses, agent, \$14.98, Indians, \$5.65; drugs and medical supplies, \$166.16; hospitals, \$72; medical expenses, \$792.25; aids to Indians, \$4,023.84.....	5,224 88
	(Page L—52) \$ 118,735 73

NEW BRUNSWICK — NOUVEAU BRUNSWICK

Northern Division:—Salaries: agent, gr. 4, part time, N. H. McPhail, \$1,080; physicians, part time, Dr. H. P. Laporte, \$200, Dr. A. L. McIntosh, July 16 to Mar. 31 at \$1,080; nursing services, Tobique Indian Hospital, Sisters of Charity, \$1,200; sundry labour, \$35. Travelling expenses, agent, \$33.45, Indians, \$12; drugs and medical supplies, \$170.53; hospital equipment and supplies, \$129.10; fuel, \$690; road repairs, \$261.50; hospitals, \$2,196.08; medical attendance, \$958.50; electricity, \$82.74; postage, \$12; rent of office, \$120; telephone, \$25.95; sundries, \$2.65; aids to Indians, \$6,147.63.....	14,123 58
Northeastern Division:—Salaries: agent, gr. 4, part time, C. Hudson, \$1,311; physicians, part time, at \$200, Dr. J. R. Disbrow, Dr. A. Sormany; Dr. G. Leger, 6 m. to Sept. 30, \$40, Dr. J. C. Meahan, \$150, Dr. R. H. Morrissey, \$750; constables, J. Ginish, \$50, J. Simon, \$50; sundry labour, \$32. Travelling expenses, agent, \$602.39, Indians, \$153.80; drugs, \$17.51; fuel, \$40; hospitals, \$4,218.10; medical attendance, \$3,714.85; postage, \$35; rent of office, y. to Sept. 30, 1936, \$50; telephone, \$110.71; aids to Indians, \$42,542.70.....	54,268 06
Southwestern Division:—Salaries: agent, gr. 4, part time, R. L. MacCutcheon, \$1,311; physicians, part time, Dr. H. S. Wright, \$840, Dr. B. W. Robertson, \$300, Dr. J. F. L. Brown, 2 m. at \$300, 10 m. at \$740, at \$200, Dr. C. P. Levesque, 1 m. to April 30, Dr. L. R. Murray, 11 m. to Mar. 31. Travelling expenses, agent, \$130.55, Indians, \$83.42; auto repairs, \$202.27; drugs and medical supplies, \$153.53; gasoline and oil, \$267.61; equipment repairs, \$20; water system repairs, \$419.75; hospitals, \$4,332.39; medical services, \$1,842.73; rent of office, 8 m. to Mar. 31, \$120; telegraph and telephone, \$115.12; sundry outlay, \$15.91; aids to Indians, \$12,477.54.....	23,498 42
	(Page L—52) \$ 91,890 06

PRINCE EDWARD ISLAND — ÎLE DU PRINCE ÉDOUARD

Salaries:—Agent, gr. 4, part time, N. A. McDougall, May 2 to Mar. 31, at \$960; physician, part time, Dr. J. A. Stewart, \$570; ferryman, A. Labobe, \$200. Travelling expenses, agent, \$450.47, Indians, \$26.25; drugs and medical supplies, \$413.65; hospitals, \$1,044.93; medical services, \$2,997.89; telephone, \$19.28; sundries, \$10.33; aids to Indians, \$6,043.51.....	(Page L—52) \$ 12,653 73
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DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

INDIAN AFFAIRS—Con. — AFFAIRES INDIENNES—Suite

Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—Con. — Affaires indiennes: Frais d'administration, etc.—Suite

QUEBEC — QUÉBEC

Barrière Lake District:—Travelling expenses: R.C.M.P., \$157.61; Indians, \$501.48. Hospitals, \$4,015.50; medical attendance, \$1,452.50; sundries, \$29.39; aids to Indians, \$7,164.88.	13,321 36
Béancour Agency:—Salaries: agent, gr. 1, A. Moras, \$199.92; physicians, part time, Dr. J. O. Roy, 6 m. to Sept. 30, \$99.96, Dr. J. E. Blondin, 5 m. to Mar. 31, \$83.30. Road repairs, \$20.53; medical supplies, \$60.75; hospitals, \$150; medical attendance, \$212.55; aids to Indians, \$1,725.35.	2,552 36
Bersimis Agency:—Salaries: Dr. E. Lavallee, agent, gr. 3, \$897 (allowances in kind, \$300), physician, part time, \$1,425. Travelling expenses: Dr. E. Lavallee, \$42.89; Indians, \$237.01. Equipment supplies and repairs, \$117.44; fuel, \$256.10; repairs, buildings, \$286.95, roads, \$1,518.68; medical supplies, \$30.56; hospitals, \$108; medical attendance, \$121; telegraph and telephone, \$16.45; sundries, \$16; aids to Indians, \$6,896.92.	11,970 00
Cacouna Agency:—Salaries: agents, gr. 2, D. Lebel, April 1 to Dec. 21, \$221.65, J. Berube, Dec. 26 to Mar. 25, \$75; physician, part time, Dr. D. Saindon, \$199.92, drug allowance, \$50. Travelling expenses: J. Berube, \$14.05; D. Lebel, \$55.30; Indians, \$19. Hospitals, \$115.50; medical attendance, \$1,275.50; postage, \$34.43; sundries, \$10.67; aids to Indians, \$2,492.15.	4,563 17
Caughnawaga Agency:—Salaries: agent, gr. 5, F. X. L. Brisebois, \$2,137.50, allowance, \$285; physician, part time, Dr. J. H. Jacobs, \$1,425; clerk, gr. 2, J. A. Laplante, \$1,080; caretaker, M. Nault, \$49.92; watchmen, May 1 to Sept. 30, A. L. Dailleboust, \$35, J. Dailleboust, \$100, A. Diabo, \$100. Travelling expenses: agent, \$78.53; J. K. Jocks, \$691.84; Indians, \$9.10. Clothing, \$249.26; equipment and supplies, \$52.55; road repairs, \$1,833.39; medical supplies, \$211.32; hospitals, \$6,785.40; medical attendance, \$3,315.25; electricity, \$416.98; telegraph and telephone, \$105.33; sundries, \$21.01; aids to Indians, \$36,010.06.	54,992 44
Gaspé Agency:—Salaries: agent, gr. 1, R. F. Eden, \$150; medical supplies, \$23.50; hospitals, \$126; medical attendance, \$475; aids to Indians, \$2,635.13.	3,409 63
Lorette Agency:—Salaries: agent, gr. 2, M. E. Bastien, \$399.96; physician, part time, Dr. E. Allard, \$100. Travelling expenses: Indians, \$43.48. Fuel, \$65; road repairs, \$150; medical supplies, \$105; hospitals, \$1,152.88; medical attendance, \$2,464.20; aids to Indians, \$12,465.80.	16,946 32
Maniwaki Agency:—Salaries: agent, gr. 3, E. S. Gauthier, \$1,368, allowance for office, year 1936, \$110. Travelling expenses: agent, \$94.75; Indians, \$100.97. Repairs, buildings, \$49.80, roads, \$1,708.90; medical supplies, \$31.17; hospitals, \$598.75; medical attendance, \$305; postage, \$2; aids to Indians, \$1,903.82.	6,273 16
Manowan and Obijuan District:—Travelling expenses: Dr. P. S. Rivard, \$71.43; Dr. J. H. Tousignant, \$47.85; Indians, \$301.95. Medical supplies, \$25.45; hospitals, \$3,675.50; medical attendance, \$1,704.10; freight and cartage, \$66; aids to Indians, \$11,252.11.	17,144 39
Maria Agency:—Salaries: agent, gr. 2, J. A. Cyr, \$300; physician, part time, Dr. J. R. Boileau, \$300. Travelling expenses: Indians, \$26.25. Medical supplies, \$5.65; hospitals, \$332.70; medical attendance, \$481.80; fees, etc., D. Levesque, commissioner under Inquiries Act (O.C. Mar. 31, 1936), \$44.25; postage, \$12; telegraph and telephone, \$36; aids to Indians, \$9,383.69.	10,922 34
Mingan Agency:—Salaries: Dr. E. E. Binet, agent, gr. 2, \$420, physician Provincial Bureau of Health, \$600. Travelling expenses: Dr. E. E. Binet, \$328; Dr. St. Cyr, \$60; Indians, \$30. Rent of storehouse, \$225; sundries, \$11.80; aids to Indians, \$1,995.58.	3,670 38
Oka Agency:—Salaries: agents, gr. 2, P. E. Brisebois, 10 m. to Jan. 31, \$375, F. Harbour, Feb. 3 to Mar. 31, \$72.32; physician, part time, Dr. C. Guilbeault, \$900; custodian, M. Martin, \$200. Travelling expenses: P. E. Brisebois, \$238.83; Indians, \$25.78. Fuel, \$31.25; medical supplies, \$16.97; hospitals, \$1,263.50; medical attendance, \$686; electricity, \$15; rent of office, \$50; fees, etc., R. Poisson, commissioner under Inquiries Act (O.C. Apr. 3, 1936), \$97.71; sundries, \$13.11; aids to Indians, \$15,088.97.	19,074 44
Pierreville Agency:—Salaries: agent, gr. 2, B. Maurault, \$399.96. Travelling expenses: agent, \$6.46; Indians, \$16.25. Road repairs, \$100.10; medical supplies, \$1.25; hospitals, \$1,085.90; medical attendance, \$1,111.61; electricity, \$115.51; aids to Indians, \$10,502.46.	13,339 50

MINES AND RESOURCES—MINES ET RESSOURCES

INDIAN AFFAIRS—*Con.* — AFFAIRES INDIENNES—*Suite*Votes — Crédits 166, 378⁷ & 491 — Expenses connected with the administration, etc., of Indian Affairs—*Con.* — Affaires indiennes: Frais d'administration, etc.—*Suite*QUEBEC *Conc.* — QUÉBEC *Fin*

Pointe Bleue Agency:—Salaries: agent, gr. 3, A. de la Boissière, \$1,233.96 (allowances in kind, \$400); physicians, part time, Dr. A. D. Bouchard, \$199.92. Dr. J. H. Pinault, 649.92. Dr. J. H. Tousignant, \$499.92. Travelling expenses: agent, \$3; doctors, \$173.50; Indians, \$78.35. Engine accessories, etc., \$238.88; fuel, \$90; repairs, buildings, etc., \$89.84. roads, \$315.30; medical supplies, \$48.88; hospitals, \$1,492.05; medical attendance, \$488.10; postage, \$10; telegraph and telephone, \$89.45; aids to Indians, \$1,269.89.....	6,970 96
Restigouche Agency:—Salaries: Dr. A. Richard, agent, gr. 3, \$1,229.04, allowance for travel, cleaning office and care of lighting plant, \$360 (allowances in kind, \$500), physician, part time, \$741; sundry labour, \$28. Travelling expenses: Dr. Richard, \$19.95; Indians, \$62.90; fuel, \$366; gasoline and oil, \$132.31; road repairs, \$1,394.12; hospitals, \$2,345.90; medical attendance, \$1,636.55; postage, \$16.18; telegraph and telephone, \$24.15; sundries, \$35.20; relief to tubercular pupils, \$1,037.57; aids to Indians, \$24,286.59.....	33,715 46
St. Augustine Agency:—Salaries: agent, gr. 1, Dr. D. G. Hodd, Oct. 1, 1935, to Sept. 30, 1936, \$200; physician, Grenfell Labrador Mission, 12 m. to Dec. 31, \$200. Travelling expenses: doctor, \$17; aids to Indians, \$6,743.42.....	7,160 42
St. Regis Agency:—Salaries: agent, gr. 3, D. P. McNaughton, \$1,296 (allowances in kind, \$300); graduate nurse, M. W. Oliver, 7 m. to Mar. 31, \$787.50 (allowances in kind at \$366); dispenser, \$189.65; sundry labour, \$101.77. Travelling expenses: agent, \$241.52; nurses, J. McCaig, \$34.78. M. W. Oliver, \$468.66; Indians, \$21.25; auto repairs, \$17.06; equipment, supplies and repairs, \$98.32; expenses of handiwork worker, \$54.78; fuel, \$302.55; gasoline and oil, \$89.45; installing heating and plumbing in office, \$535.53; repairs, buildings, \$84.37, roads, \$499.78; medical supplies, \$37.47; hospitals, \$4,110; medical attendance, \$3,504.05; legal, \$500; telegraph and telephone, \$219.16; sundries, \$22.60; aids to Indians, \$14,060.95.....	27,277 20
Seven Islands Agency:—Salaries: Dr. J. H. Lavallee, agent, gr. 2, 8 m. to Nov. 30, \$347.52 (allowances in kind at \$500), gr. 3, 4 m. to Mar. 31, \$204 (allowances in kind at \$300), physician, part time, \$1,425. Travelling expenses: Dr. Lavallee, \$1,018.87; Indians, \$65.40; fuel, \$418.20; repairs to buildings, \$1,445.81; supplies, \$56.90; medical supplies, \$212.87; hospitals, \$127; medical attendance, \$60.50; telegraph and telephone, \$31.50; sundries, \$33.95; aids to Indians, \$14,030.96.....	19,478 48
Temiskaming Agency:—Salaries: agent, gr. 3, Z. Caza, \$1,300.20 (allowances in kind, \$216). Travelling expenses: agent, \$75; Indians, \$318.12. Hospitals, \$4,502.80; medical attendance, \$5,067.32; telegraph and telephone, \$24.80; sundries, \$31.05; aids to Indians, \$9,940.61.....	21,259 90
	(Page L—52) \$ 294,041 91

ONTARIO

Alhwick Agency:—Salary, agent, gr. 3, J. O. Grieve, \$960; travelling expenses, agent, \$114.26. R.C.M.P., \$3.60; hospitals, \$1,026.60; medical attendance, \$1,063; office rent, \$75; sundries, \$6; aids to Indians, \$134.50.....	3,382 96
Caldwell Agency:—Travelling expenses, E. J. Sexsmith, \$316.65; medical supplies, \$3.80; hospitals, \$180.35; medical attendance, \$1,328.57; telegraph and telephone, \$19.69; sundries, \$5.30; aids to Indians, \$2,516.56.....	4,370 92
Cape Croker Agency:—Salaries: agent, gr. 4, A. C. Poste, \$1,586.04 (allowances in kind, \$200); physician, part time, Dr. D. E. Scott, \$1,710, less \$1,539 paid from Trust Fund; field matron, Elsie S. Poste, \$300. Travelling expenses, agent, \$379.02; gasoline and oil, \$43.40; building repairs, \$35.80; medical supplies, \$8.70; hospitals, \$2,997.40; medical attendance, \$525.50; telegraph and telephone, \$21.19; sundries, \$26; aids to Indians, \$165.50.....	6,259 55
Caradoc Agency:—Salaries: agent, gr. 4, A. D. Moore, \$1,917 (allowances in kind, \$420); medical superintendent, Dr. T. R. McLeod, \$3,139.50 less \$949.92 paid from Trust Fund (allowances in kind, \$480); sundry, \$27.01. Travelling expenses: agent, \$300.48; R.C.M.P., \$4.80; Indians, \$85.60; sundry, \$324.11. Ford tudor, \$765.21, less \$340 on old car; auto repairs, \$184.37; gasoline and oil, \$300.40; fuel, \$194; building repairs, \$120.67; equipment, \$25.61; irrigation, \$149.04; medical supplies, \$361.85; road repairs, \$1,881.66 less refund, Province of Ontario, \$1,141.78; electricity, \$107.46; legal expenses, \$121.11; hospitals, \$11,230.60; medical attendance, \$1,101; medical and hospital attendance, A. D. Moore (O.C. May 14, 1936), \$119; telegraph and telephone, \$47.28; sundries, \$158.47; aids to Indians, \$20,637.08.....	40,871 61

DETAILS OF EXPENDITURE—*Con.*—DÉTAIL DES DÉPENSES—*Suite*

INDIAN AFFAIRS—*Con.*—AFFAIRES INDIENNES—*Suite*

**Votes — Crédits 166, 378† & 491 — Expenses connected with the administration,
etc., of Indian Affairs—*Con.* — Affaires indiennes: Frais d'administration,
etc.—*Suite***

ONTARIO *Con.*—*Suite*

Chapleau Agency:—Salaries: agent, gr. 4, part time, T. J. Godfrey, \$1,311; sundry, \$25. Travelling expenses: agent, \$179.70; Indians, \$183.05; fuel, \$40.80; medical supplies, \$75.98; hospitals, \$6,168.05; medical attendance, \$4,067.66; electricity and water, \$28; office and store room rent, \$300; telegraph and telephone, \$83.27; sundries, \$41.72; aids to Indians, \$13,563.01.....	26,067 24
Christian Island Agency:—Salaries: agent, gr. 3, G. A. Lumsden, \$750 (allowances in kind, \$120); field matron, Mrs. H. S. Rawlins, \$300; sundry, \$10. Travelling expenses, agent, \$548.80; Indians, \$6. Boat, \$35; boat repairs, \$109.73; building repairs, \$91.47; dock repairs, \$25; equipment, \$385.58; fuel, \$45; gasoline and oil, \$261.06; medical supplies, \$27.33; hospitals, \$557.50; medical attendance, \$333; operation of boat, \$173; telegraph and telephone, \$28.25; sundries, \$22.50; aids to Indians, \$91.50.....	3,800 72
Fort Frances Agency:—Salaries: agent, gr. 4, A. Spencer, \$1,908 (allowances in kind, \$600); physicians, part time, Dr. J. E. O'Donnell, Aug. 16 to Mar. 3, \$892.54, Dr. R. Moore, 5 m. to Aug. 31, \$250, Dr. D. R. Young, 9 m. to Mar. 31, \$585; farming instructor, W. J. Hayes, \$1,236 (allowances in kind, \$360); interpreter, E. Lyons, \$969, allowance, \$456. Travelling expenses: agent, \$211.35; R.C.M.P., \$6.45; Indians, \$69; sundry, \$10.50. Auto repairs, \$82.65; motor boat, \$180; building repairs, \$51.90; fuel, \$292; gasoline and oil, \$184.65; medical supplies, \$128.40; electricity and water, \$106.45; hospitals, \$1,434.50; medical attendance, \$1,410.40; telegraph and telephone, \$95.79; taxes, \$31.07; sundries, \$23.01; aids to Indians, \$5,824.74.....	16,439 40
Georgina Island Agency:—Salary, agent, gr. 2, O. J. Silver, \$399.96; travelling expenses, agent, \$120.63; Indians, \$4.50; fuel, \$3.50; medical supplies, \$10; hospitals, \$167.25; medical attendance, \$218.50; office rent, \$50; roadwork, \$7; telegraph and telephone, \$32.08; sundries, \$5.75; aids to Indians, \$355.94.....	1,375 11
Golden Lake Agency:—Salary, agent, gr. 2, J. M. Farrell, \$399.96; travelling expenses, agent, \$108.56; R.C.M.P., \$10.90; Indians, \$48.39; medical supplies, \$29.68; hospitals, \$2,033.90; medical attendance, \$2,064.75; office rent, \$75; road repairs, \$500; telegraph and telephone, \$11.18; sundries, \$13.60; aids to Indians, \$7,674.63.....	12,970 54
Gore Bay Agency:—Salaries: agent, gr. 4, E. F. Priddle, \$1,938; physician, part time, Dr. F. A. Strain, \$250, drug allowance, \$150. Travelling expenses, agent, \$318.30; Indians, \$20. Medical supplies, \$24.79; hospitals, \$747; medical attendance, \$627.20; telephone, \$28.34; sundries, \$42.25; aids to Indians, \$562.89.....	4,708 77
James Bay Agency:—Salaries: agent, gr. 4, part time, Dr. W. L. Tyrer, \$1,140; physicians, part time, Dr. W. L. Tyrer, \$1,995, Dr. E. Brunet, \$1,425; dispensers, \$450; labourer, W. Moore, \$600; nursing services, Lady Minto Hospital, Cochrane, \$3,000; services of launch crew, \$748.67. Travelling expenses, agent, \$364.34, R.C.M.P., \$251.46, Indians, \$1,929.25, sundry, \$114.30. Boat repairs, \$364.32; fuel, \$157.20; gasoline and oil, \$228.53; hospital equipment, \$105; medical supplies, \$109.57; hospitals, \$17,300.90; medical attendance, \$1,322.75; office rent, \$144; telegraph, \$3.00; freight, \$581.17; sundries, \$301.50; aids to Indians, \$48,921.94.....	81,558 50
Kenora Agency:—Salaries: agent, gr. 5, F. Edwards, \$2,421 less 13 d., \$87.43 (allowances in kind at \$600); clerk, Indian Agency, I. Meikle, \$1,197, allowance, \$570; interpreter, J. J. Linklater, \$962.52, allowance, \$114 (allowances in kind, \$130); physicians, part time, Dr. A. D. Ferguson, \$1,329.96, Dr. H. K. Mitchell, \$1,995; labourer, A. Flett, 13 m. to Mar. 31, \$260; sundry, \$45. Travelling expenses, agent, \$979.64, Dr. A. D. Ferguson, \$232.12, Dr. H. K. Mitchell, \$79.25, R.C.M.P., \$13.34, Indians, \$560.05, sundry, \$216.37. Boat repairs, \$168.97; gasoline and oil, \$148.77; fuel, \$593.45; building repairs, \$234.65; medical supplies, \$1,068.65; electricity and water, \$187.96; hospitals, \$6,339.30; medical attendance, \$1,867.85; medical office rent, y. to Dec. 31, \$192; telegraph and telephone, \$150.39; postage, \$45; sundries, \$58.54; aids to Indians, \$5,777.95.....	27,721 30
Manitowaning Agency:—Salaries: agent, gr. 4, R. J. Lewis, \$1,930.44 (allowances in kind, \$150); clerk, gr. 1, J. Hembruff, \$750. Travelling expenses, agent, \$56.84, Indians, \$38.93, sundry, \$15.65. Medical supplies, \$8.23; hospitals, \$5,359.45; medical attendance, \$3,410.15; prizes, \$104.15; telephone, \$11.99; sundries, \$5.15; grant, Manitoulin Agric. Society (O.C. April 22, 1936), \$100; aids to Indians, \$4,318.62.....	16,109 60

MINES AND RESOURCES—MINES ET RESSOURCES

INDIAN AFFAIRS—*Con.* — AFFAIRES INDIENNES—*Suite***Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—*Con.* — Affaires indiennes: Frais d'administration, etc.—*Suite***ONTARIO—*Con.* — *Suite*

Moravian Agency:—Salaries: agents, gr. 3, Nelson Stone, 1 m. to April 30, \$109.25, R. S. Spence, \$720. Travelling expenses, R. S. Spence, \$221.69, R.C.M.P., 35c., Indians, \$63. Medical supplies, \$23.40; hospitals, \$2,012.20; medical attendance, \$1,392.75; office rent, \$116; telephone, \$19.31; sundries, \$23.84; aids to Indians, \$143.50	4,845 29
New Credit Agency:—Salary, agent, gr. 3, M. Winger, \$1,311; travelling expenses, agent, \$108.69; electricity and gas, \$29.90; fuel, \$4.25; hospitals, \$633.85; medical attendance, \$319.50; office rent, \$180; telephone, \$40.45; sundries, \$17.99; aids to Indians, \$791.20	3,436 83
Parry Sound Agency:—Salaries: agent, gr. 4, J. M. Daly, \$1,938, allowance, \$342; physician, part time, Dr. K. A. Denholm, \$1,995 less \$855 paid from Trust Fund; typist, gr. 1, E. Knight, \$1,020. Travelling expenses, agent, \$416.10, Indians, \$15.95; medical supplies, \$14.57; hospitals, \$2,039.85; medical attendance, \$964; telegraph and telephone, \$66.98; sundries, \$47.89; aids to Indians, \$4,203.75	12,209 09
Port Arthur Agency:—Salaries: agent, gr. 5, J. G. Burk, \$2,337, allowance, \$570; clerk, gr. 3, W. L. Leroy, \$1,325.25; farming instructor, J. W. Boyd, May 15 to Sept. 30, \$318.40, allowance, \$113.70; physician, part time, Dr. J. C. Gillie, \$600, less \$500.04 paid from Trust Fund; dispensers, \$468.34; constable, J. Bananish, \$120; matron, Mrs. J. Desmoulin, \$120; launch engineers at \$90 per month, P. Page, Sept. 25 to Dec. 15, \$238.55, F. Sikes, May 1 to Sept. 25, \$435; tugmaster at \$75 per month, J. R. Hardy, May 1 to Dec. 15, \$561.30; foreman at \$35 per month, R. Hardy, 6 m. to Sept. 30, \$210; sundry, \$121. Travelling expenses, agent, \$1,551.34, Indians, \$1,879.28, sundry, \$442.92. Auto repairs, \$116.72; construction of life boat, \$300; launch repairs, \$998.07; gasoline and oil, \$675.87; labour on breakwater, \$1,586.29; medical supplies, \$165.84; hospitals, \$9,517.75; medical attendance, \$6,120.62; telegraph and telephone, \$395.78; sundries, \$345.34; aids to Indians, \$18,417.66	49,551 98
Rama Agency:—Salary, agent, gr. 3, A. S. Anderson, \$1,311, travelling expenses, agent, \$106, Indians, \$9.50. Fuel, \$48; medical supplies, \$5; hospitals, \$1,453.58; medical attendance, \$615.80; legal expenses, \$144.39; office rent, \$120; telephone, \$22.56; sundry, \$30; aids to Indians, \$72.50	3,938 33
Rice Lake Agency:—Salary, agent, gr. 2, V. M. Eastwood, \$575.04; dispenser, \$36. Travelling expenses, agent, \$99.99, Indians, \$8. Equipment, \$53; medical supplies, \$4.15; hospitals, \$1,627.50; medical attendance, \$3,323.45; office rent, \$120; telephone, \$16.49; sundries, \$12; aids to Indians, \$245	6,120 62
Sarnia Agency:—Salaries: agent, gr. 3, J. C. Tremouth, \$720, allowance, \$300; typists, gr. 1, J. Lucas, \$1,020 less 7 d., \$19.83, D. C. Crone, July 16 to Sept. 5, \$100.97. Travelling expenses, agent, \$292.90, Indians, \$65. Medical supplies, \$5; road repairs, \$1,100.77; hospitals, \$2,040.50; medical attendance, \$1,403.95; telephone, \$58.87; sundries, \$39.40; aids to Indians, \$229	7,356 51
Saugeen Agency:—Salary, agent, gr. 3, D. Robertson, \$1,300.92 (allowances in kind, \$200); travelling expenses, agent, \$295.28, Indians, \$19.50. Construction of new office, \$2,112.13; fuel, \$29.48; medical supplies, \$2.10; electricity, \$28.51; hospitals, \$434.50; medical attendance, \$2,105.79; surveys, W. R. White, \$241.95; telephone, \$48.23; sundries, \$22.76; aids to Indians, \$82	6,723 15
Sault Ste. Marie Agency:—Salaries: agent, gr. 4, G. H. Sims, \$1,938, allowance, \$342; physician, part time, Dr. A. S. McCaig, \$1,425 less \$950 paid from Trust Fund; constable, T. Thibeault, \$1,200 less \$660 paid from Trust Fund; field matron, A. Whytall, \$420; dispensers, \$137. Travelling expenses, agent, \$266.45, Indians, \$46.90. Auto repairs, \$63.35; gasoline and oil, \$54.58; medical supplies, \$65.10; hospitals, \$2,785.15; medical attendance, \$2,165.65; telegraph and telephone, \$96.91; sundries, \$60.60; grant, Garden River Agricultural Society (O.C. April 22, 1936), \$100; aids to Indians, \$9,100.93	18,657 62
Scuzog Agency:—Salary, agent, gr. 1, J. W. Gerrow, \$200; physician, part time, Dr. C. P. Peterson, \$480 less \$200 paid from Trust Fund. Travelling expenses, agent, \$5.60; medical supplies, \$5.76; hospitals, \$14.25; office rent, \$48; aids to Indians, \$36.55	590 16
Six Nations Superintendency:—Salaries: superintendent, E. P. Randle, \$2,622, allowance, \$570; clerk, gr. 4, H. M. Hill, \$1,824; stenographer, gr. 1, C. G. Breckin, \$750. Travelling expenses, superintendent, \$80, Indians, \$25.25, sundry, \$17.75. Auto repairs, \$130.25; gasoline and oil, \$185.73; building repairs, \$298.46; construction of electric line to R.C.M.P. barracks, \$397.86; medical supplies, \$19.13; hospitals, \$4,899.68; medical attendance, \$218.50; postage, \$112.34; telegraph and telephone, \$340.12; sundries, \$47.36; grant to Oshweken Fair (O.C. April 22, 1926), \$300; aids to Indians, \$3,347.14	16,185 57

DETAILS OF EXPENDITURE—Con.— DÉTAIL DES DÉPENSES—Suite

INDIAN AFFAIRS—Con.— AFFAIRES INDIENNES—Suite

Notes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—Con. — Affaires indiennes: Frais d'administration, etc.—Suite

ONTARIO—Conc.— Fin

Six Nations, Lady Willingdon Hospital:—Salaries: medical superintendent, Dr. W. Davis (salary, \$3,249 paid from Trust Fund), allowance, \$900 less \$540 paid from Trust Fund; graduate nurses (allowances in kind at \$360), A. L. Begg, \$894, J. McCaig, \$894, M. L. Murdock, \$1,692, M. E. Shore, \$1,350, M. Simons, \$1,065; J. Anthony, matron, 2 m. to June 30, \$90 (allowances in kind at \$120), housekeeper, 9 m. to Mar. 31, \$315 (allowances in kind at \$180); housekeeper, M. Davis, April 1 to July 7, \$177.42 (allowances in kind at \$120); matron, D. Johnson, 1 m. to April 30, \$45 (allowances in kind at \$120); maids at \$1.25 per d., \$797.50; seamstresses at \$1.25 per d., \$200.65; laundress at \$1.50 per d., \$456; labourer, R. Hill, \$540; sundry, \$76.25. Travelling expenses, sundry, \$46.50. Auto repairs, \$140.24; gasoline and oil, \$180.96; building construction and repairs, \$385.30; construction of electric line to hospital, \$4,644.24; drugs, \$37.82; equipment, \$342.97; hospital supplies, \$292.91; provisions, \$3,133.16; fuel, \$895.81; light and power, \$84.92; telephone, \$128.73; sundries, \$6.64	19,273 02
Sturgeon Falls Agency:—Salaries: agents, gr. 4, G. P. Cockburn, April 1 to June 17, \$414.52 less \$162.47 paid from Trust Fund, J. A. Levesque, \$1,482; physician, part time, Dr. M. James, \$199.92, drug allowance, \$199.92; dispensers, \$100. Travelling expenses, J. A. Levesque, \$211.56. Indians, \$63.97. Equipment, \$23.46; medical supplies, \$162.65; hospitals, \$4,577.50; medical attendance, \$5,688.14; telegraph and telephone, \$66.06; sundries, \$39.71; aids to Indians, \$2,267.05	15,363 99
Thessalon Agency:—Salaries: agent, gr. 3, C. F. Rothera, \$1,311; physicians, part time, Dr. H. H. Harvie, \$1,899.96, Dr. J. Langlois, \$600, drug allowance, \$200; dispensers, \$150. Travelling expenses, agent, \$498.82, Indians, \$17.10, sundry, \$350.63. Boat repairs, \$13.97; medical supplies, \$9.55; hospitals, \$3,144.50; medical attendance, \$378.25; office rent, \$180; telephone, \$39.49; sundries, \$32.25; aids to Indians, \$8,580.86	17,406 38
Tyendinaga Agency:—Salaries, agent, gr. 4, H. J. Eade, \$1,539; field matron, G. Eade, 6 m. to Sept. 30, \$85. Travelling expenses, agent, \$188.33, Indians, \$32.12. Clerical services, \$18; road repairs, \$1,500 less refund, Province of Ontario, \$689.74; medical supplies, \$15.40; hospitals, \$3,012.75; medical attendance, \$5,974.08; postage, \$21; telephone, \$41.05; sundries, \$3.03; aids to Indians, \$451	12,191 02
Walpole Island Agency:—Salary, agent, gr. 3, A. Highfield, \$1,239 (allowances in kind, \$300); travelling expenses, agent, \$160.06, Indians, \$74.71, sundry, \$82.45. Building repairs, \$521.07; fuel, \$136.25; road repairs, \$1,000, less refund, Province of Ontario, \$346.78; hospitals, \$1,189.55; medical attendance, \$949.50; telegraph and telephone, \$38.50; sundries, \$22.79; aids to Indians, \$439.24	5,506 34
	444,992 12
Less—Outstanding advance, G. Lumsden (A. G. Report 1935-36, Page I—21)	104 15
	<u>(Page L— 52) \$ 444,887 97</u>

MANITOBA

Manitoba Inspectorate:—Salaries: inspector of Indian Agencies, gr. 3, A. G. Hamilton, \$3,249; stenographers, gr. 2, E. Diggle, \$1,311, sundry, \$34.84; graduate nurse, K. T. Morrice, 8 m. to Nov. 30, \$599.27, allowance, Oct. 15 to Nov. 30, \$43.17 (allowances in kind to Oct. 15 at \$360). Travelling expenses: A. G. Hamilton, \$529.81; E. Diggle, \$16.75; nurse, G. Woodcock, \$486; Indians, \$3.45. Chevrolet Coach, \$849.25 less \$325 on used car; auto repairs, \$99.02; garage rent, \$63; gasoline and oil, \$209.78; equipment, supplies and repairs, \$59.49; postage, \$69.58; telegraph and telephone, \$290.70; sundries, \$24.78; grant to Manitoba Agricultural Exhibition (O.C. April 22, 1936), \$200	7,813 89
Birtle Agency:—Salaries: agent, gr. 4, A. G. Smith, \$1,518 (allowance in kind, \$420); physician, part time, Dr. H. L. Edwards, \$600; farming instructor, D. A. H. Nield, \$840 (allowances in kind, \$360); caretaker, S. Brown, 7 m., \$70; clerk, annuity payments, 6 d., \$24; dispensers, \$30; sundry, \$11.50. Travelling expenses: agent, \$314.68; D. A. H. Nield, \$8.40; R.C.M.P., \$15.77; Indians, \$25.15. Auto repairs, \$270.34; fuel, \$365.22; gasoline and oil, \$288.19; repairs to buildings, \$277.85; supplies, repairs and cleaning, \$171.37; medical supplies, \$156.18; hospitals, \$1,953.27; medical attendance, \$3,328.75; electricity, \$69.26; postage, \$31.85; telegraph and telephone, \$150.76; sundries, \$32.20; aids to Indians, \$4,762.94	15,315 38

MINES AND RESOURCES—MINES ET RESSOURCES

INDIAN AFFAIRS—*Con.* — AFFAIRES INDIENNES—*Suite*Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—*Con.* — Affaires indiennes: Frais d'administration, etc.—*Suite*MANITOBA—*Con.* — *Suite*

Claudeboye Agency:—Salaries: agent, gr. 4, E. McPherson, \$1,634, allowance, \$399; clerk, J. F. Lockhart, gr. 2, 8 m. to Nov. 30, gr. 3, 4 m. to Mar. 31, \$1,167; farming instructor, J. C. Scott, \$1,254 (allowance in kind \$120); caretaker, part time, S. Perrin, \$40; graduate nurse, M. W. Oliver, 2 m. to May 31, \$225 (allowances in kind at \$360, transferred to Qu'Appelle Hospital); Pine Falls Hospital Board, \$1,500; dispensers, \$505.83; sundry, \$63. Travelling expenses: agent, \$1,847.48; J. C. Scott, \$90; Indians, \$1,947.40; sundry, \$18. Road repairs, \$429.68; equipment, supplies and repairs, \$72.90; medical supplies, \$98.94; hospitals, \$10,645.70; medical attendance, \$4,241.30; postage, \$53; telegraph and telephone, \$143.16; freight, \$60.36; sundry, \$2; aids to Indians, \$28,202.49.	54,640 24
Fisher River Agency:—Salaries: agent, gr. 4, F. J. Clarke, \$1,920, allowance, \$228 (allowances in kind \$360); medical superintendent, Dr. P. E. Moore, \$3,073.50 (allowances in kind \$660); clerk, F. W. Hughes, gr. 1, 8 m. to Nov. 30, gr. 3, 4 m. to Mar. 31, \$982; farming instructor, J. Spence, \$945, allowance, \$240; interpreter, W. Cochrane, \$840, allowance, \$240; dispensers, \$170; sundry, \$2. Travelling expenses: agent, \$385.54; Dr. P. E. Moore, \$682.10; J. Spence, \$75; clerk, \$13.50; nurses, \$25.15; Indians, \$183.07. Auto repairs, \$164.97; fuel, \$715.70; gasoline and oil, \$643.86; equipment, supplies and repairs, \$1,438.66; road repairs, \$1,004.20; medical supplies, \$48.93; hospitals, \$4,102.55; medical attendance, \$1,122.60; freight, \$252.32; sundries, \$63.95; aids to Indians, \$8,733.32	28,295 92
Fisher River Nursing Station:—Salaries: graduate nurse, O. Thomas, \$894 (allowances in kind, \$360); maids, \$180; sundry, \$8. Travelling expenses, nurse, \$423.64. Provisions, \$358.04; equipment, supplies and repairs, \$248.48; medical supplies, \$24.20.	2,136 36
Fort Nelson and Churchill Agency:—Salaries: agents, R.C.M.P., \$599.88; physician, annuity payments, Dr. A. Larose, \$310; dispensers, \$200. Travelling expenses: agents, \$61.71; Dr. A. Larose, \$146.25; Indians, \$247.51. Hospitals, \$1,284.50; medical attendance, \$423.46; freight, \$39.10; sundries, \$17.15; aids to Indians, \$3,211.33.	6,540 89
Griswold Agency:—Salaries: agent, gr. 4, W. Gordon, \$1,923, allowance, \$228 (allowances in kind, \$300); physicians, part time, Dr. J. W. Cairns, \$300, Dr. F. K. Purdie, \$399.96; labourer, Z. Sioux, \$480. Travelling expenses: agent, \$38.70; Indians, \$16. Auto repairs, \$106.99; equipment, supplies and repairs, \$274.18; gasoline and oil, \$227.25; fuel, \$239.85; grain, feed, etc., \$133.01; medical supplies, \$101.13; hospitals, \$285.50; medical attendance, \$1,151.80; telephone, \$4.69; sundries, \$25.50; aids to Indians, \$4,200.46.	10,172 02
Norway House Agency:—Salaries: agent, gr. 4, P. G. Lazenby, \$1,923, allowance, \$285 (allowances in kind, \$300); clerk, gr. 1, J. McLennan, June 10 to Sept. 30, \$296; field matron, United Church, \$360; interpreter, G. Balfour, \$1,140, allowance, \$60; teamsters, D. McKay, April 1 to July 28, \$351.29, N. Queskikapow, 63 m. to Mar. 31, \$422.50; allowance, \$97.50 (transferred from Hospital); dispensers, \$604.20. Travelling expenses: P. G. Lazenby, etc., \$831.09; Dr. W. N. Turpel, \$107.56; matron, \$24.50; nurse, \$60; Indians, \$714. Equipment, supplies and repairs, \$795.37; fuel, \$985.75; gasoline and oil, \$202.89; horse, \$135; medical supplies, \$31.22; hospitals, \$1,235.10; medical attendance, \$808.12; freight, \$309.94; telegraph, \$27.73; postage, \$88.35; sundries, \$66.68; aids to Indians, \$9,396.01.	21,358 80
Norway House Hospital:—Salaries: medical superintendent, Dr. W. N. Turpel, \$3,219 (allowances in kind, \$600); graduate nurses (allowances in kind at \$360), G. Woodcock, \$894, L. P. Wyatt, \$1,407, M. L. Rungav, Oct. 16 to Mar. 31, \$410.95; hospital attendants, N. Queskikapow, \$51 m. to Sept. 15, \$357.50 (allowances in kind at \$180, transferred to Agency), T. York, Sept. 16 to Mar. 31, \$195 (allowances in kind at \$180); laundresses (allowances in kind at \$180), E. Paker, Feb. 4, 1936 to Mar. 31, 1937, \$416.90, M. Walker, \$360; kitchen helper, Feb. 28, 1936 to Mar. 31, 1937, \$261.38. Travelling expenses, Indians, \$51.20. Fuel, \$536.50; gasoline and oil, \$483.32; equipment and repairs, \$544.18; provisions and supplies, \$2,470.79; repairs to buildings, \$362.56; freight, \$148.57; sundries, \$14.30.	12,133 15
Pas Agency:—Salaries: agent, gr. 4, S. Lovell, \$1,518 (allowances in kind, \$420); Dr. P. C. Robertson, medical superintendent, part time, 8 m. to Nov. 30, physician, part time, 4 m. to Mar. 31, \$1,710; clerk, Indian Agency, J. T. White, \$1,293, allowance, \$228 (allowances in kind, \$360); interpreter, R. McGillivray, \$720, allowance, \$480; field matron, United Church, \$540; dispenser, \$607.50; sundry, \$25.35. Travelling expenses: agents, etc., \$2,174.35; medical officers,	

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

INDIAN AFFAIRS—Con.—AFFAIRES INDIENNES—Suite

Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—Con.—Affaires indiennes: Frais d'administration, etc.—Suite

MANITOBA—Conc.—Fin

Pas Agency—Conc.

\$437.20; Indians, \$3,463.88. Construction and repairs, \$1,430.89; supplies and boat repairs, \$169.88; fuel, \$487.45; gasoline and oil, \$25.55; medical supplies, \$601.08; hospitals, \$14,107.35; medical attendance, \$3,226.51; electricity and water rates, \$148.67; postage, \$29; freight and cartage, \$332.57; telegraph and telephone, \$82.30; sundries, \$72.25; aids to Indians, \$22,121.03.....	56,031 81
Portage la Prairie Agency:—Salaries: agent, gr. 4, J. Waite, \$1,938. allowance, \$379.92; physicians, part time, Dr. A. R. Lerner, \$600, Dr. A. E. Medd, \$799.92; Dr. C. C. Simpson, \$600, clerk, G. R. Russell, gr. 2, 8 m. to Nov. 30, gr. 3, 4 m. to Mar. 31, \$1,167; farming instructors (allowances in kind, \$240), J. C. Auld, \$1,071. allowance, \$228. F. T. Bean, \$1,014. allowance, \$228. A. Campbell, Apr. 1 to Oct. 14, \$169.20. allowance, \$150.46 (allowances in kind to Aug. 14 at \$240); farming instructors (allowances in kind at \$300), A. C. Benson, \$900, C. L. Mitchell, \$900. R. J. Sawyer, Aug. 14 to Mar. 31, \$530.65; cleaner and helper, J. A. Trinder, \$60; dispensers, \$322.92; sundry, \$39. Travelling expenses: agent, \$694.06; Dr. A. E. Medd, \$104.70; J. C. Auld, \$94.45, removal expenses, \$177.93 (O.C. May 28, 1937); F. T. Bean, \$7.90. removal expenses, \$147.95 (O.C. May 28, 1937); R.C.M.P., \$70.37; Indians, \$672.74; sundry, \$65.52. Auto repairs, \$75.88; construction and repairs, \$468.96; equipment, supplies and repairs, \$663.34; fuel, \$455.88; gasoline and oil, \$204.92; hay, grain, etc., \$145.82; horse, \$90; medical supplies, \$286.91; hospitals, \$7,214.17; medical attendance, \$6,128.90; freight and cartage, \$58.71; postage, \$99.90; telegraph and telephone, \$177.49; sundries, \$149.53; aids to Indians, \$12,290.95.....	41,945 05

(Page L—52) \$ 256,383 51

SASKATCHEWAN

Saskatchewan Inspectorate:—Salaries: inspectors of Indian Agencies, gr. 3, W. Murison, \$3,420 (retired), Dr. T. Robertson, 4 m. to Mar. 31, \$1,140; stenographers, gr. 2, H. E. Wylie, \$1,254, gr. 1, N. K. Redgrave, June 4 to 27, \$48; graduate nurse, I. Healy, \$894, less \$596 charged to Qu'Appelle Hospital (allowances in kind, \$360). Travelling expenses: W. Murison, \$58.60; C. P. Schmidt, \$69.40; Dr. T. Robertson, \$265.10. Chevrolet coach, \$883.55, less \$375 on used car; auto repairs, etc., \$54.33; garage rent, \$59.50; gasoline and oil, \$194.69; medical attendance, \$20; postage, \$102.69; telegraph and telephone, \$309.56; sundries, \$42.02; aids to Indians, \$10.75.....	7,855 19
Battleford Agency:—Salaries: agent, gr. 5, S. L. Macdonald, \$1,971 (allowances in kind, \$480); medical superintendent, Dr. H. C. Norquay, \$3,219 (allowances in kind, \$600); medical superintendent, Isle à la Crose Hospital, part salary, \$2,000; clerk, Indian Agency, G. P. Collins, 11 m. to Feb. 28 (deceased), \$1,185.25. allowance, \$209 (allowances in kind at \$360) less \$78.45 overpaid in 1935-36; clerk, gr. 2, J. E. Ebey, Mar. 1 to 31, \$90; farming instructors (allowances in kind, \$480), A. Lockhart, \$1,002. W. D. Taylor, \$1,230, F. C. Starnes, April 1 to Mar. 20 (retired), \$1,199.63, allowance, \$99.75 (allowances in kind, April 1 to Dec. 20 at \$480); farming instructors (allowances in kind at \$300), W. Cockburn, Dec. 21 to Mar. 31, \$234.84, A. Waters, \$870; farm hand, D. Nelson, Sept. 2 to Oct. 15, \$95; cleaner and helper, Mrs. J. Cairns, 6 m. to Sept. 30, \$12; overseer and labourers, \$425; dispensing, \$328.33. Travelling expenses: agent, annuity payments, etc., \$721.70; medical superintendent, \$223.20; Dr. P. E. Lavoie, \$340.52; farming instructors, \$173.91; R.C.M.P., \$73.13; Indians, \$267.63. Ford Tudor, \$879.38, less \$418 on used car; auto repairs, etc., \$522.62; employees' rations, \$730.24; equipment, supplies and repairs, \$692.42; fuel, \$1,383.42; garage rent, \$30.50; gasoline and oil, \$667.94; repairs to buildings, \$310.87; seed grain, etc., \$105.25; medical supplies, \$162.30; hospitals, \$4,837.50; medical attendance, \$1,393; electricity and water rates, \$351.76; freight and cartage, \$75.01; legal, \$35.04; postage, \$53.05; rent, doctor's house, \$360; telegraph and telephone, \$187.95; sundries, \$58; aids to Indians, \$18,434.98.....	46,853 67
Carlton Agency:—Salaries: agent, gr. 5, R. S. Davis, \$1,857 (allowances in kind, \$480); clerk, Indian Agency, C. S. Bell, \$1,281 (allowances in kind, \$600); farming instructors (allowances in kind, \$480), H. Melvin, \$945, G. Burch, \$930.75, G. E. Butcher, \$930.75; labourers, J. P. Colson, 8 m. to Nov. 30, \$320, C. Fox, Jan. 7 to Mar. 31, \$117.50; nurses, Church of England, \$960; dispensers, \$217.44; sundry, \$129.75. Travelling expenses: agent, \$817.23; farming	

MINES AND RESOURCES—MINES ET RESSOURCES

INDIAN AFFAIRS—*Con.* — AFFAIRES INDIENNES—*Suite*Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—*Con.* — Affaires indiennes: Frais d'administration, etc.—*Suite*SASKATCHEWAN—*Con.* — *Suite*Carlton Agency—*Conc.*

instructors, team, etc., \$198.95; doctor and nurses, \$141.25; Indians, \$291.50; Ford Tudor, \$875, less \$400 on used car; auto repairs, \$277.02; employees' rations, \$1,028.15; equipment supplies and repairs, \$519.61; fuel, \$659.85; gasoline and oil, \$424.57; grain threshing, etc., \$262.07; repairs, buildings, \$1,264.15, lighting plant, \$640.25; medical supplies, \$1,027.68; hospitals, \$10,494.63; medical attendance, \$6,426.48; freight and cartage, \$82.90; postage, \$42; telegraph and telephone, \$192.45; aids to Indians, \$10,061.88.....

43,016 81

Crooked Lakes Agency:—Salaries: agent, gr. 5, E. A. W. R. McKenzie, \$1,971 (allowances in kind, \$480); physicians, part time, Dr. G. H. Craig, \$600, Dr. C. H. Stapleford, \$600; clerk, Indian Agency, W. J. B. Ball, \$1,281 (allowances in kind, \$600); farming instructors, L. Carlson, \$945 (allowances in kind, \$480), W. T. Guest, \$1,231.87, allowance, \$31.10 (allowances in kind, April 1 to Mar. 3 at \$480), J. R. Morrison, \$1,230 (allowances in kind, \$480), H. C. Ainger, Mar. 3 to 31, \$65.48 (allowances in kind at \$300); graduate nurses, H. A. Lamb, \$951 (allowances in kind, \$360), United Church, \$600; housekeepers, nurses' residence, \$120; labourer, B. Frances, \$600; sundry, \$209.55. Travelling expenses: agent, \$247.10; farming instructors, \$1,015.89; nurse, \$534.26; R.C.M.P., \$87.70; Indians, \$101.49. Auto repairs, etc., \$493.91; employees' rations, \$918.72; equipment, supplies and repairs, \$995.78; fuel, \$904.09; gasoline and oil, \$547.23; grain, threshing, etc., \$206.19; horses, \$180; medical supplies, \$446.33; hospitals, \$7,006.25; medical attendance, \$2,776.66; electricity and water rates, \$111.06; postage, \$72.03; telegraph and telephone, \$294.26; rent, agent's house, \$240, clinic, \$52; sundries, \$110.62; aids to Indians, \$7,963.43.....

35,741 00

Duck Lake Agency:—Salaries: agents, gr. 5, C. P. Schmidt, 8 m. to Nov. 30, \$1,354 (allowances in kind, 7 m. to Oct. 31 at \$480), transferred to Alberta Inspectorate, S. H. Simpson, 3 m. to Mar. 31, \$408.75 (allowances in kind at \$360); physicians, part time, Dr. A. Montreuil, 11 m. to Feb. 28 (deceased), \$440, Dr. A. H. Touchette, \$499.92; clerk, Indian Agency, S. H. Simpson, 9 m. to Dec. 31, \$960.75 (allowances in kind at \$600); farming instructors (allowances in kind, \$480), J. Goodson, \$1,230, E. S. Jones, \$1,002, F. W. Reeves, \$945, E. A. Moore, 4 m. to July 31 (retired), \$414 (allowances in kind, 2 m. to May 31 at \$480), T. V. Bégard, 10 m. to Mar. 31, \$700 (allowances in kind at \$300); interpreter, J. Mike, \$888 (allowances in kind, \$480); farm hand, A. B. Eagle, \$360; dispensers, \$180; clerical work, \$80; sundry, \$281.22. Travelling expenses: C. P. Schmidt, \$224.35; S. H. Simpson, \$182.75; farming instructors, \$103.27; Indians, \$38.79. Auto repairs, etc., \$335.86; construction of clerk's residence, \$5,490.75 (contract \$5,520, O.C. Sept. 30, 1936); employees' rations, \$1,101.82; equipment, supplies and repairs, \$650.62; fuel, \$365.59; gasoline and oil, \$256.63; grain, \$98.27; medical supplies, \$366.97; hospitals, \$4,518.45; medical attendance, \$3,598.80; postage, \$68.86; telegraph and telephone, \$202.49; sundries, \$72.26; aids to Indians, \$9,130.15.....

36,550 32

File Hills Agency:—Salaries: agent, gr. 4, G. A. Dodds, \$1,908 (allowances in kind, \$600); clerk, Indian Agency, A. G. Richardson, \$1,224 (allowances in kind, \$600); farming instructor, H. H. Clarke, \$1,230 (allowances in kind, \$480); interpreter, E. Starr, \$774 (allowance in kind, \$480). Travelling expenses: agent, employees, etc., \$54.40; Indians, \$13.76. Auto repairs, \$124.21; employees' rations, \$713.85; equipment, supplies and repairs, \$520.83; fuel, \$445.85; gasoline and oil, \$341.52; haying, \$142.70; horses, \$200; repairs to buildings and lighting plant, \$741.45; medical supplies, \$83.08. hospitals, \$971.50; medical attendance, \$297.50; telegraph and telephone, \$90.52; sundries, \$35.47; aids to Indians, \$2,534.06.....

12,416 70

Union Lake Agency:—Salaries: Dr. J. T. Hill, agent, gr. 5, part time, \$1,520.04 (allowances in kind, \$600), physician, part time, \$1,983.96; clerk, Indian Agency, D. H. Cameron, \$1,224 (allowances in kind, \$600); farming instructors (allowances in kind, \$480), R. C. Hamer, \$1,002, G. M. Malloch, \$1,002, F. M. Warne, \$1,230; interpreter, D. Vanasse, \$945 (allowances in kind, \$480); farm hand, A. Delphi, \$60; dispenser, A. E. Peterson, \$120; field matron, Mrs. J. H. Lirette, \$70. Travelling expenses: Dr. J. T. Hill, \$212.27; R.C.M.P., \$33.16; Indians, \$30.55. Ford coach, \$858.41, less \$165 on used car; auto repairs, \$161.20;

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

INDIAN AFFAIRS—Con.—AFFAIRES INDIENNES—Suite

Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—Con. — Affaires indiennes: Frais d'administration, etc.—Suite

SASKATCHEWAN—Con.— Suite

Onion Lake Agency— <i>Conc.</i> employees' rations, \$785.76; equipment, supplies and repairs, \$699.50; fuel, \$670.60; gasoline and oil, \$287.95; grain, haying, etc., \$408.75; repairs to buildings, \$1,213.27; medical supplies, \$246.60; hospitals, \$5,758.75; medical attendance, \$2,683.43; telegraph and telephone, \$132.55; sundries, \$83.30; aids to Indians, \$9,452.15.....	32,710 20
Pelly Agency:—Salaries: agent, gr. 5, J. P. B. Ostrander, \$2,031 (allowances in kind, \$420); physician, part time, Dr. J. I. Wallace, \$720; clerk, Indian Agency, L. J. Sutherland, April 1 to Oct. 4, \$654.27 (allowances in kind at \$600); farming instructors (allowances in kind, \$480), J. M. Lauder, \$1,230, F. Pollock, \$1,173, J. Rourke, \$1,116; farm hands (allowances in kind at \$120), A. Cote, April 1 to 27, \$40.50, A. W. Whitehawk, 2 m. to June 30, \$90, P. Propp, 9 m. to Mar. 31, \$405 (allowances in kind at \$180), clerical work, \$80. Travelling expenses: agent, treaty payments, etc., \$93.80; doctor, \$67.20; farming instructors, \$119.45; R.C.M.P., \$17.46; Indians, \$31.10. Chevrolet coach, \$880.34, less \$385 on Ford Tudor; auto repairs, etc., \$231.18; employees' rations, \$900.30; equipment, supplies and repairs, \$399.52; fuel, \$533.47; gasoline and oil, \$292.93; horses, \$175; repairs to buildings, \$573.39; sewerage system, plumbing, etc., \$704.26; medical supplies, \$31.80; hospitals, \$965.30; medical attendance, \$770.20; electricity, \$231.25; postage, \$30.79; telegraph and telephone, \$151.14; sundries, \$46.68; aids to Indians, \$5,602.62.....	20,003 95
Qu'Appelle Agency:—Salaries: agent, gr. 5, F. Booth, \$1,914 (allowances in kind, \$480); physician, part time, Dr. G. B. Isman, \$600; clerk, Indian Agency, G. A. Havers, \$1,281 (allowances in kind, \$600); farming instructors, G. S. Dodd, \$870 (allowances in kind, \$300), R. F. Hillhouse, \$1,230 (allowances in kind, \$480), J. O. Hough, \$894 (allowances in kind, \$360); farm hand, A. Platana, \$720 (allowances in kind, \$180). Travelling expenses: agent, etc., \$355.50; R.C.M.P., \$59.14; Indians, \$10.87. Auto repairs, \$248.94; employees' rations, \$827.16; equipment, supplies and repairs, \$354.42; fuel, \$1,042.98; gasoline and oil, \$542.97; grain threshing, etc., \$76.90; horses, \$150; repairs to buildings and plants, \$219.07; medical supplies, \$212.36; hospitals, \$1,710; medical attendance, \$894; telegraph and telephone, \$312.13; sundries, \$35.73; aids to Indians, \$7,926.56.....	22,487 73
Qu'Appelle Health Unit:—Salaries: medical superintendent, Dr. A. B. Simes, \$3,249, allowance, \$570; graduate nurse, I. M. Lucas, \$1,692 (allowances in kind, \$360). Travelling expenses: Dr. Simes, \$278.10; I. M. Lucas, \$1,031.83. Auto repairs, \$640.96; equipment and supplies, \$22.10; gasoline and oil, \$553.93; medical attendance, \$225; telegraph and telephone, \$108.18; sundries, \$68.74....	8,439 84
Qu'Appelle Hospital:—Salaries: graduate nurses (allowances in kind at \$360), H. A. Cookson, July 18 to Mar. 31, \$629.65, E. Doll, 8 m. to Mar. 31, \$596, C. Fisk, \$1,350, H. J. Gibney, June 22 to Mar. 31, \$1,090.43, I. J. Healy, \$894, less \$298 charged to Saskatchewan Inspectorate, A. M. Johnson, Oct. 15 to Mar. 31, \$413.35, M. W. Oliver, 3 m. to Aug. 31 (transferred to St. Regis), \$337.50, E. Sampson, May 8 to Mar. 31, \$892.68, A. J. Slabick, 8 m. to Mar. 31, \$596, sundry, \$280; clerical work at \$2 a day, E. Lindsay, \$452; hospital attendant, W. L. McIsaac, \$480 (allowance in kind, \$180), orderly and janitor, M. Dieter, \$250.50; housekeeper, Mrs. M. Reimer, \$540 (allowances in kind, \$180), cooks, \$161; laundryman, I. Weekend, \$469.50; maids, laundresses, etc., \$768.35; sundry labour, \$105. Travelling expenses: H. A. Cookson, \$30.25; E. Doll, \$29.25; I. Healy, \$30.85; A. M. Johnson, \$52.55; M. Oliver, \$27.45; sundry, \$100.40. Auto repairs, \$276.79; clothing and blankets, \$333.67; equipment and supplies, \$4,942.36; fuel, \$2,010.51; gasoline and oil, \$391.88; provisions and rations, \$5,105.35; repairs to buildings, engines, etc., \$721.15; medical supplies, \$320.59; medical attendance, \$30; electricity and water rates, \$1,421.41; freight and cartage, \$225.74; rent of house for hospital attendant, \$137; telegraph and telephone, \$194.88; sundries, \$63.23.....	26,363 27
Touchwood Agency:—Salaries: agent, gr. 5, J. W. Waddy, \$1,971 (allowances in kind, \$480); clerk, Indian Agency, D. G. Stuart (4 d. leave without pay), \$1,260.10 (allowances in kind at \$600); farming instructors (allowances in kind, \$480), D. Bird, \$945, A. F. Fair, \$945, W. Gilchrist, \$1,230, F. W. Hunt, \$1,059, E. O. Warren, \$870 (allowances in kind, \$300); interpreter, F. Morris, \$945 (allowances in kind, \$480); dispensers, \$65; sundry labour, \$33.	

MINES AND RESOURCES—MINES ET RESSOURCES

INDIAN AFFAIRS—Con. — AFFAIRES INDIENNES—Suite

Notes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—Con. — Affaires indiennes: Frais d'administration, etc.—Suite

SASKATCHEWAN—Conc. — Fin

Touchwood Agency—Conc.

Travelling expenses: agent, \$153.45; farming instructors, \$107.79; Indians, \$114.46; sundry, \$18.70. Auto repairs, etc., \$287.01; employees' rations, \$1,461.35; equipment, supplies and repairs, \$465.17; fuel, \$799.74; gasoline and oil, \$379.29; grain, haying, \$214.05; horse, \$75; repairs to buildings, \$343.17; medical supplies, \$483.40; hospitals, \$2,638.25; medical attendance, \$5,882.34; electricity, \$145.65; surveys, S. Harding, \$193.06; telegraph and telephone, \$128.90; sundries, \$54.16; aids to Indians, \$8,127.20.	31,395 24
Wood Mountain Agency:—Travelling expenses, Indians, \$8.57; medical supplies, \$17.15; hospitals, \$1,780.60; medical attendance, \$337.95; aids to Indians, \$1,473.35.	3,617 62

(Page L—52) \$ 327,481 54

ALBERTA

Alberta Inspectorate:—Salaries: inspector of Indian Agencies, gr. 3, M. Christianson, 8 m. to Nov. 30, \$2,280 (transferred to Ottawa), C. P. Schmidt, 4 m. to Mar. 31, \$1,064; stenographer, gr. 2, M. P. Blanchfield, \$1,200; sundry, \$71.94. Travelling expenses, agents, \$723.41. Auto repairs, \$161; gasoline and oil, \$231.78; postage, \$70; telegraph and telephone, \$283.55; nursing services, M. Christianson (O.C. June 11, 1936), \$7; sundries, \$71.46; grants, Calgary Exhibition, \$350, Edmonton Exhibition Association, \$350 (O.C. April 22, 1936) ..	6,864 14
Blackfoot Agency:—Salaries: agent, gr. 5, G. H. Gooderham, \$1,971 (allowances in kind, \$480); clerk, Indian Agency, H. E. James, \$1,281 (allowances in kind, \$600); interpreter, E. Calchild, \$945 (allowances in kind, \$480); sundry, \$120. Travelling expenses, agent, \$59.05; sundry, \$10.84. Auto repairs, \$268.50; employees' rations, \$356.55; equipment, supplies and repairs, \$59.42; fuel, \$516.89; gasoline and oil, \$233.80; hay, \$195.19; medical supplies, \$66.92; electricity, \$149.02; postage, \$55; telegraph and telephone, \$226.64; sundries, \$20.49; aids to Indians, \$8.10.	6,544 01
Blood Agency:—Salaries: agent, gr. 5, J. E. Pugh, \$1,983 (allowances in kind, \$240); clerks, Indian Agency (allowances in kind, \$600), M. McLeod, \$1,281, A. McMillan, \$1,281; farming instructors (allowances in kind, \$480), W. Betts, \$1,230, T. Gregson, \$1,230; head stockman, P. McFarquhar, \$1,059 (allowances in kind, \$480); farm hands (allowances in kind at \$180), T. Bullshields, \$300, T. A. Eaglechild, \$300; A. Fox, 2 m. to May 31, \$50, G. Wellman, \$720; farm hand, E. Three Persons, 10 m. to Mar. 31, \$250; interpreter, J. Twigg, \$831 (allowances in kind, \$480). Travelling expenses, agents, \$155.60, Indians, \$110.48. Chevrolet truck, \$762.24 less \$70 on used car; Ford car, \$500.28; auto repairs, \$714.74; employees' rations, \$1,756.70; equipment, supplies and repairs, \$393.28; fuel, \$929.77; gasoline and oil, \$1,157.77; grain, \$365; repairs to buildings, \$1,060.51; medical supplies, \$240.94; hospitals, \$291.20; medical attendance, \$1,061; electricity, \$670.25; postage, \$71.06; rent, R.C.M.P. quarters, \$133.32; telegraph and telephone, \$147.92; sundries, \$9.42; aids to Indians, \$27,236.66	48,213 14
Blood Hospital:—Salaries: physician, part time, Dr. J. K. Mulloy, \$2,280; nursing services, Grey Nuns, \$4,290; firemen-labourers at \$900 (allowances in kind at \$180), N. Aldridge, 3 m. to June 30, N. Pratt, 7 m. to Jan. 31, V. H. Woolf, 2 m. to Mar. 31; mails at \$240, Mrs. A. Bullshields, M. Davis, at \$180, J. Nealy, 1 m. to April 30, N. Many Bears, 11 m. to Mar. 31. Clothing, \$498.86; equipment, supplies and repairs, \$1,508.12; fuel, \$921.58; provisions, \$4,243.05; medical supplies, \$231.51; electricity, \$601.11; telegraph and telephone, \$59.27; sundries, \$77.99	16,271 49
Edmonton Agency:—Salaries: agent, gr. 5, G. C. Laight, \$1,857 (allowances in kind, \$480); physician, part time, Dr. A. Giroux, \$199.92; clerk, Indian Agency, W. P. B. Pugh, \$1,110.75 (allowances in kind, \$300); farming instructors, J. D. Bristow, April 2 to Mar. 31, \$837.67 (allowances in kind at \$300), P. Conway, \$1,230 (allowances in kind, \$480); interpreter, W. O'Donnell, \$720 (allowances in kind, \$240); dispensers, \$99.96. Travelling expenses, agent, \$83.07, nurses, \$156.75, Indians, \$312.95, sundries, \$9.20. Auto repairs, \$374.13; employees' rations, \$453.25; equipment, supplies and repairs, \$489.40; fuel, \$577.85; gasoline and oil, \$332.68; grain, \$196.63; medical supplies, \$215.75; hospitals, \$4,093.66; medical attendance, \$5,838.88; electricity, \$130.14; postage, \$51.53; telegraph and telephone, \$179.86; sundries, \$60.15; aids to Indians, \$6,067.83	25,679 01

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

INDIAN AFFAIRS—Con.—AFFAIRES INDIENNES—Suite

Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—Con. — Affaires indiennes: Frais d'administration, etc.—Suite

ALBERTA—Con.— Suite

Fort Smith Agency:—Salaries: Dr. H. W. Lewis, agent, gr. 4, part time, \$570, medical superintendent, \$3,159 (allowances in kind, \$660); physician, part time, Dr. J. M. Morrow, \$570; interpreter, R. Armit, \$960, allowance, \$513; labourer, R. Fraser, 10 m. to Mar. 31, \$700. Travelling expenses, agent, \$780.08, Dr. Morrow, \$338; Indians, \$812.69. Fuel, \$474; building repairs, \$455.06; equipment, supplies and repairs, \$175.14; medical supplies, \$375.23; hospitals, \$10,553.45; medical attendance, \$1,228.50; freight, \$129.83; sundries, \$97.95; aids to Indians, \$20,610.27.....	42,511 20
Hobbema Agency:—Salaries: agent, gr. 5, R. H. Palmer, 10 m. to Jan. 31, \$1,747, allowance, \$85.50 (allowances in kind at \$360); physician, part time, Dr. A. S. McCoolgan, 4 m. to July 31, \$233.32; clerk, Indian Agency, H. Moore, \$1,110.75 (allowances in kind, \$300); farming instructors at \$840 (allowances in kind at \$300), P. Cockerill, April 1-4, R. McLaren, April 5 to Mar. 31, T. G. McLeod, \$1,230 (allowances in kind, \$480); interpreter, J. White, \$945 (allowances in kind, \$480); farm hand, J. Roasting, 5 m., \$75. Travelling expenses, agent, \$16,10, R.C.M.P., \$13.47, Indians, \$38.65. Auto repairs, \$195.07; employees' rations, \$324.54; equipment, supplies and repairs, \$540.72; fuel, \$769.41; gasoline and oil \$346.80; building repairs, \$693.87; medical supplies, \$202.98; hospitals, \$952.15; medical attendance, \$2,414; electricity, \$474.98; postage, \$40; telegraph and telephone, \$95.57; sundries, \$27; aids to Indians, \$7,883.24.....	21,295 12
Hobbema Nursing Station:—Salary, graduate nurse, C. Conroy, \$1,236 (allowance in kind, \$360); sundry, \$57.07. Travelling expenses, nurse, \$479.01. Fuel, \$119.90; equipment, supplies and repairs, \$137.42; provisions, \$230.38.....	2,259 78
Lesser Slave Agency:—Salaries: agent, gr. 4, N. P. L'Heureux, \$1,680 (allowances in kind, \$600); physician, part time, Dr. H. A. Hamman, \$699.96; farming instructor, J. Galibois, \$870 (allowances in kind, \$300); interpreter, C. C. Anderson, \$945 (allowances in kind, \$480); graduate nurse, M. Garde, \$897, less \$28.28 (allowances in kind at \$360); clerk, \$78; dispensers, \$267; sundry, \$18. Travelling expenses, agent, \$1,239.35, R.C.M.P., \$33.45, Dr. H. A. Hamman, \$454.52, nurse, \$438.42, Indians, \$413.80, sundry, \$133.75. Auto repairs, \$327.20; building repairs, \$276.98; employees' rations, \$415.24; equipment, supplies and repairs, \$706.86; fuel, \$300; gasoline and oil, \$274.47; hay, \$31.50; medical supplies, \$150.55; hospitals, \$10,788.25; medical attendance, \$5,180.32; freight and cartage, \$87.42; postage, \$154.84; telegraph and telephone, \$106.52; sundries, \$48; aids to Indians, \$31,956.33.....	58,944 45
Peigan Agency:—Salaries: agent, gr. 5, H. C. Lancaster, \$1,971 (allowances in kind, \$480); clerk, Indian Agency, T. W. V. Webb, \$1,167 (allowances in kind, \$600); farming instructor, R. E. Patterson, \$1,059 (allowances in kind, \$480); farm hand, P. Plain Eagle, \$426 (allowances in kind, \$420); interpreter, J. C. Shoe, \$720 (allowances in kind, \$240); sundry labour, \$24.62. Travelling expenses, agent, \$20.85, sundry, \$50.32. Auto repairs, etc., \$263.54; employees' rations, \$738.18; equipment, supplies and repairs, \$691.78; fuel, \$685.29; gasoline, oil, etc., \$168.95; medical supplies, \$114.23; seed and salt, \$414; medical attendance, \$142.75; telephones, \$85.52; sundries, \$139.65; aids to Indians, \$10,963.22.....	19,839 90
Peigan Hospital:—Salaries: physician, part time, Dr. G. A. Dubuc, \$1,200, graduate nurse, S. M. Green, \$1,179 (allowances in kind, \$360); housekeepers, K. Spreckley, April 1 to Nov. 13, Jan. 22 to Mar. 31, \$292.68, K. M. Cameron, Nov. 14 to Jan. 21, \$65.82; sundry labour, \$441.84. Travelling expenses, \$27.60. Clothing, \$62.34; equipment and supplies, \$179.55; fuel, \$220.18; medical supplies, \$65.30; provisions, \$685.23; repairs, \$288.01; sundries, \$68.95.....	4,776 50
Saddle Lake Agency:—Salaries: agent, gr. 4, W. E. Gullion, \$1,908 (allowances in kind, \$600); clerk, G. A. Mitchell, gr. 2, 8 m., gr. 3, 4 m., \$1,167 (allowances in kind, \$120); farming instructor, J. Boorse, \$945 (allowances in kind, \$420); labourer, N. Shirt, \$720 (allowances in kind, \$180); dispenser, Rev. W. H. Day, \$60; sundry labour, \$4.50. Travelling expenses, agent, \$291.78; Rev. W. H. Day, auto allowance, \$60, nurse, \$119.20, sundry, \$95.20. Auto repairs, etc., \$310.13; employees' rations, \$565.50; equipment, \$191.49; fuel, \$319.94; gasoline and oil, \$233.33; medical supplies, \$363.24; repairs, \$413.83; freight, express, etc., \$110.53; hospitals, \$5,886.80; medical attendance, \$4,838.71; telephones, \$212.85; sundries, \$195.92; aids to Indians, \$9,271.12.....	28,284 37
Sarcee Agency:—Salaries: agent, gr. 4, Dr. T. F. Murray, \$1,908 (allowances in kind, \$600); clerk, gr. 1, part time, Mrs. T. F. Murray, \$199.92; farming instructor, E. E. Hetherington, \$1,230 (allowances in kind, \$480); sundry	

MINES AND RESOURCES—MINES ET RESSOURCES

INDIAN AFFAIRS—Con. — AFFAIRES INDIENNES—Suite

Notes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—Con. — Affaires indiennes: Frais d'administration, etc.—Suite

ALBERTA—Conc. — Fin

Sarcee Agency—Fin

labour, \$5.75. Auto repairs, \$383.57; building repairs, \$574.32; employees' rations, \$414.18; fuel, \$541.28; gasoline and oil, \$291.45; electricity, \$145.92; hospitals, \$451.50; medical attendance, \$213.50; sundries, \$237.56; aids to Indians, \$3,844.26	10,441 21
Sarcee Hospital:—Salaries: physician, part time, Dr. T. F. Murray, \$1,120.92; graduate nurse, F. Henderson, \$894 (allowances in kind, \$360); cook, Mrs. M. Smith, \$720; maid, M. Bigelow, May 11 to Mar. 31, \$164.36; sundry labour, \$15.20; equipment, \$307.57; fuel, \$870.13; gasoline and oil, \$175.09; repairs, \$234.82; provisions, \$1,047.99; seed, \$191.08; electricity, \$142.21; sundries, \$227.74	6,111 11
Stony Agency:—Salaries: agent, gr. 4, part time, Dr. W. B. Murray, \$570; clerk, G. R. Reid, gr. 2, 8 m., gr. 3, 4 m., \$1,229 (allowances in kind, \$120); interpreter, D. Wildman, \$945 (allowances in kind, \$480); sundry labour, \$11.50. Travelling expenses, Dr. Murray, \$82.10; Indians, \$61.27; sundry, \$1.30. Auto repairs, etc., \$316.77; employees' rations, \$115.11; equipment and repairs, \$286.50; fuel, \$82.50; gasoline and oil, \$269.82; grain, feed, etc., \$271.10; medical supplies, \$96.19; repairs to buildings, \$756.56; electricity, \$240; medical attendance, \$356.94; sundries, \$146.08; aids to Indians, \$6,568.38.	12,406 12
Stony Hospital:—Salaries: medical superintendent, Dr. W. B. Murray, \$3,054 (allowances in kind, \$480); graduate nurse, E. Tate, \$894 (allowances in kind, \$360); housekeeper, Mrs. B. Schoeppe, \$360 (allowances in kind, \$120); sundry labour, \$36.62. Travelling expenses, nurses, \$82.45. Medical supplies, \$30.18; equipment and repairs, \$62.83; fuel, \$670.51; provisions, \$780.62; sundry, \$8.71.	5,979 92
(Page L—52) \$	
<u>316,421 47</u>	

BRITISH COLUMBIA—COLOMBIE BRITANNIQUE

Inspectorate:—Salaries: Indian commissioner, D. M. McKay, 4 m. to Mar. 31, \$1,273; assistant commissioner, C. C. Perry, \$3,648; inspector of agencies, gr. 2, G. S. Pragnell, \$2,850; agricultural agent, J. D. Caldwell, \$1,938, allowance, \$570; principal clerk, A. Hill, \$2,280; stenographers, gr. 2, A. Corcoran, \$1,311, H. C. A. Nathan, \$1,095. Travelling expenses, J. D. Caldwell, \$768.65, A. C. Hill, \$4.65, D. M. McKay, \$217.80, C. C. Perry, \$136.15, G. S. Pragnell, \$796.05. Expenses of Vancouver Jubilee, \$448.15; telegraph and telephone, \$365.87; postage, \$135; sundries, \$22.15.	17,859 47
Babine Agency:—Salaries: agent, gr. 5, G. C. Mortimer, \$2,427 (allowances in kind, \$480); clerk, gr. 2, S. Mallinson, \$1,200; physicians, part time, Dr. H. C. Wrinch, 10 m. to Jan. 31, \$1,108.30, Dr. L. B. Wrinch, 2 m. to Mar. 31, \$316.66; field matrons, Mrs. M. Forbes, 6 m. to Sept. 30, \$150, Mrs. E. McLean, \$300, Mrs. K. T. Moroney, \$300, Mrs. A. F. Parkinson, \$300; dispensers, Mrs. E. M. Orn, 3 m. to Dec. 31, \$25, Mrs. B. T. Shearman, 3 m. to Mar. 31, \$45; United Church of Canada, \$550; sundry labour, \$108. Travelling expenses, agent, \$647.37; Indians, \$151.37, sundry, \$13.05. Construction and building repairs, \$367.59; building bridge, \$72.76; fuel, \$243.25; medical supplies, \$212.91; hospitals, \$6,983.75; medical attendance, \$2,661.37; postage, \$51; telegraph and telephone, \$78.01; sundries, \$254.56; aids to Indians, \$5,739.81.	24,306 76
Bella Coola Agency:—Salaries: agents, I. Fougner, gr. 5, April 1 to Nov. 14, \$1,521.05, allowance, \$256.45 (allowances in kind at \$540), J. Gillett, gr. 4, Nov. 1 to 14, \$74.42, gr. 5, Nov. 15 to Mar. 31, \$743.48 (allowances in kind at \$480 and \$540), (transferred from Queen Charlotte Agency); launchman, T. A. Levelton, \$1,425; physicians, part time, Dr. G. E. Darby, \$1,234.92, Dr. H. A. McLean, 6 m. to Sept. 30, \$375, drug allowance, \$75; United Church of Canada, field matrons, \$1,029, Mission Ship, "Thos. Crosby," \$1,532.23, services of physician, \$450; sundry labour, \$155.40. Travelling expenses, agents, \$128.21, T. Levelton, \$249.43, Indians, \$114.95. Fuel, \$261.25; gasoline and oil, \$389.33; repairs and supplies for launch, \$1,051.03; repairs to lighting system, \$266.10; hospitals, \$10.175; medical attendance, \$373; telegraph and telephone, \$106.10; sundries, \$100.53; aids to Indians, \$7,040.25.	29,118 13
Cowichan Agency:—Salaries: agent, gr. 5, H. Graham, \$2,451, allowance, \$456; clerk, gr. 2, K. Robertson, \$1,311; physicians, part time, Dr. G. W. Bissett, \$1,995, Dr. W. F. Drysdale, \$750, Dr. T. W. A. Gray, 2 m. to Mar. 31, \$237.50, Dr. J. McKee, \$499.92, Dr. M. W. Thomas, 7 m. to Oct. 31, \$831.25; services of hospital physicians, Chemainus, \$699.96, Rest Haven, \$699.96, special surgical	

DETAILS OF EXPENDITURE—Con.— DÉTAIL DES DÉPENSES—Suite

INDIAN AFFAIRS—Con.— AFFAIRES INDIENNES—Suite

**Votes — Crédits 166, 378† & 491 — Expenses connected with the administration,
etc., of Indian Affairs—Con. — Affaires indiennes: Frais d'administration,
etc.—Suite**

BRITISH COLUMBIA—Con.— COLOMBIE BRITANNIQUE—Suite

Cowichan Agency—*Conte.*

work, \$300, Public Health Nursing Service, 480; sundry labour, \$26. Travelling expenses, agent, \$514.59, Indians, \$226.87. Auto repairs, etc., \$163.14; gasoline and oil, \$219.07; garage rent, \$60; dyking, \$1,500; medical supplies, \$313.06; repairs, \$84.63; hospitals, \$3,591.35; medical attendance, \$2,554.53; postage, \$95; telephone, \$129.86; sundries, \$3.83; aids to Indians, \$15,126.19.....	40,320 31
Fort St. John Agency:—Salaries: Dr. H. A. W. Brown, agent, gr. 2, \$546.12, physician, part time, \$855. allowance for rent, light, fuel and office telephone, \$352; dispensers, 2 at \$60. 1, 6 m., \$12; sundry labour, \$13. Travelling expenses, Dr. Brown, \$1,411.10, Indians, \$105.45. Equipment, supplies and repairs, \$440.51; hospitals, \$1,026; freight, express, etc., \$3,077.85; sundries, \$115.30; aids to Indians, \$5,797.82.....	13,872 15
Kamloops Agency:—Salaries: agent, gr. 5, W. J. Ferguson, \$2,223, allowance, \$342; medical superintendent, Dr. P. S. Tennant, \$3,135, allowance, \$456; farming instructors and constables, R. Howe, \$1,083, allowance, \$285, S. W. O. Knight-Bruce, 49 d., \$152; stenographer, gr. 2, B. Smith, \$1,311; physicians, part time, Dr. A. Beach, \$499.92, Dr. W. A. Drummond, 7 m. to Mar. 31, \$560; sundry labour, \$88.50. Travelling expenses, agent, \$58.20; physician, \$79.45, constables, \$241.86, Indians, \$179.90. Auto repairs, etc., \$806.74; Ford coach, \$869.74, less \$325 allowed on used car; gasoline and oil, \$696.78; erecting, T. B. hut, \$91.83; medical supplies, \$341.85; garage rent, \$173; hospitals, \$6,891.30; medical attendance, \$2,144.50; postage, \$71.85; telegraph and telephone, \$230.16; sundries, \$82.25; aids to Indians, \$7,650.25.....	30,420 08
Kootenay Agency:—Salaries: agent, gr. 4, A. Irwin, \$1,518 (allowances in kind, \$420); physicians, part time, Dr. H. A. Christie, \$349.92, Dr. F. E. Coy, \$499.92, Dr. F. W. Green, \$699.96, Dr. G. B. Henderson, \$499.92; stenographer, Mrs. G. Irwin, 10 m. to Mar. 31, \$100; sundry labour, \$153. Travelling expenses, agent, \$273.73, agent's removal expenses (O.C. Sept. 3, 1936), \$462.23, R. Howe, \$55.60, Indians, \$56.70. Auto repairs, etc., \$169.54; Ford tudor, \$862.18; building repairs, \$910.15; fuel, \$123.25; gasoline, oil, etc., \$195.47; medical supplies, \$524.13; hospitals, \$1,924.50; medical attendance, \$307.50; nursing services, \$200; special treatment for T.B. pupils, \$780.75; telegraph and telephone, \$84.13; sundries, \$114.35; aids to Indians, \$5,970.30.....	16,835 23
Kwawkewlth Agency:—Salaries: agent, gr. 5, M. S. Todd, \$2,025 (allowances in kind, \$540); stenographer, S. M. Thompson, gr. 1, 8 m. at \$960, gr. 2, 4 m. at \$1,080; physicians, part time, Dr. N. B. Hall, \$600, Dr. G. Lawson, \$349.92; Columbia Coast Mission and Ship, \$2,049.96; Church of England, services field matron, \$250, nurse, \$300; sundry labour, \$15. Travelling expenses, agent, \$518.39, nurse, \$20.70, Indians, \$261.48. Fuel, \$115.41; gasoline, oil, etc., \$174.79; medical supplies, \$97.05; removal of and repairs to buildings, \$665.30; launch supplies and repairs, \$267.69; hospitals, \$8,387.10; medical attendance, \$402.25; nursing services, \$86.73; telegraph and telephone, \$105.09; sundries, \$163.59; aids to Indians, \$5,334.05.....	23,389 50
Lytton Agency:—Salaries: agent, gr. 5, A. Strang, \$1,843, allowance, \$380; stenographer, gr. 1, M. E. Drewett, \$969 less 41 d., \$106.80; physicians, part time, Dr. J. P. Ellis, \$1,200, Dr. A. S. McCaffrey, \$999.96, Dr. C. H. Ployart, \$1,425; sundry labour, \$197.50. Travelling expenses, agent, \$369.90, A. H. Barber, \$29.35, Dr. Ellis, \$201.42, Dr. Ployart, \$110.55, Indians, \$690.66. Auto repairs, etc., \$238.81, gasoline and oil, \$237.13; construction of office, \$3,620.46; medical supplies, \$799.72; road repairs, \$200; hospitals, \$7,137.50; medical attendance, \$606.50; rentals, \$97.50; postage, \$117.50; telegraph and telephone, \$142.63; sundries, \$182.16; aids to Indians, \$18,420.81.....	40,110 26
New Westminster Agency:—Salaries: agent, gr. 5, A. O'N. Daunt, \$2,442, allowance, \$399 (allowances in kind, \$180); stenographer, gr. 3, L. M. Dynes, \$1,539; farming instructor and constable, \$1,026, allowance, \$285; physicians, part time, Dr. W. E. Henderson, \$1,720, drug allowance, 2 m. to May 31, \$50, Dr. J. M. McDiarmid, \$180, Dr. W. H. McIntyre, \$600, Dr. N. J. Paul, \$1,200 less \$609.96 detailed in Vancouver Agency; field matrons at \$480, Mrs. C. O. Daly, Mrs. M. H. Burns. Travelling expenses, agent, \$256.40, constable, \$546.05, stenographer, \$28.75; Dr. McCaffrey, \$45.50; Indians, \$180.55. Auto repairs, etc., \$457.10; fuel, \$139.92; gasoline and oil, \$360.36; medical supplies, \$357.64; garage rent, \$96; hospitals, \$4,641; medical attendance, \$1,803.42; care of T.B. pupils, \$1,385.40; postage, \$88.30; survey of boundaries, \$107.40; telegraph and telephone, \$528.19; water service, pumping and rental, \$310; sundries, \$170.51; aids to Indians, \$4,615.81.....	25,909 34

MINES AND RESOURCES—MINES ET RESSOURCES

INDIAN AFFAIRS—*Con.* — AFFAIRES INDIENNES—*Suite*

Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—*Con.* — Affaires indiennes: Frais d'administration, etc.—*Suite*

BRITISH COLUMBIA—*Con.* — COLOMBIE BRITANNIQUE—*Suite*

Nicola Agency:—Salaries: agent, gr. 5, A. H. Barber, \$2,442, allowance, \$285 (allowances in kind, \$180); stenographer, gr. 1, A. E. Smith, \$900; physician, part time, Dr. A. F. Gillis, \$999.96; sundry labour, \$72. Travelling expenses, agent, \$328.15, Indians, \$78.87. Auto repairs, etc., \$103.95; Chevrolet coach, \$932.05 less \$300 allowed on used car; fuel, \$80.60; gasoline and oil, \$257.40; garage rent, \$65; hospitals, \$2,393.50; light and water, \$124.80; medical attendance, \$680.50; telegraph and telephone, \$104.88; sundries, \$61.05; legal, \$3,900.65; printing, \$1,306.90; aids to Indians, \$4,436.29.	19,253 55
Okanagan Agency:—Salaries: agent, gr. 5, J. Coleman, \$2,442, allowance, \$285 (allowances in kind, \$180); stenographer, gr. 2, H. Milne, \$1,311 less \$137.44, leave without pay; physicians, part time, Dr. S. G. Baldwin, \$799.92, Dr. J. A. Shotton, \$600, Dr. R. B. White, \$549.96; nursing services, Keremos School Board, \$600, Penticton School Board, \$115, Public Health Commission, Oliver, B.C., \$600, Victorian Order of Nurses, \$480; sundry labour, \$168.67. Travelling expenses, agent, \$283.15, R.C.M.P., \$26.15, Indians, \$180.14. Auto repairs, etc., \$371.51; electricity, \$80; fuel, \$97.19; gasoline and oil, \$302.18; medical supplies, \$701.06; hospitals, \$1,769; medical attendance, \$1,737.19; postage, \$84.50; sundries, \$73.91; aids to Indians, \$1,494.70.	15,014 79
Queen Charlotte Agency:—Salaries: agent, gr. 4, J. Gillett, 7 m. to Oct. 31, \$1,116.50 (allowances in kind at \$480), B. T. Phillips, Dec. 23 to Mar. 31, \$400.60 (allowances in kind at \$420); physician, part time, Dr. G. A. Charter, \$750; graduate nurse, G. M. Frost, \$840, field matron, V. T. Gladstone, \$480; sundry labour, \$28.50. Travelling expenses, agents, \$262.69, nurse, \$169.99, physician, \$49.68, R. Howe, \$78.70; Indians, \$213.50. Medical supplies, \$137.91; hospitals, \$1,944.75; medical attendance, \$1,457.87; telephone, \$66; sundries, \$118.30; aids to Indians, \$3,713.85.	11,828 84
Skeena River Agency:—Salaries: agent, gr. 5, Rev. W. E. Collison, \$2,442, allowance, \$399 (allowances in kind, \$180); stenographer, gr. 2, Mrs. J. Jacobs, \$1,311; farming instructor and constable, E. G. Newnham, April, \$114, allowance, \$9.50 (retired); constable, A. J. Watkinson, \$1,311, allowance, \$285; launchman, T. Moorehouse, \$1,425; physicians, part time, Dr. J. P. Cade, \$474.96, Dr. D. J. McDonald, \$2,280, Dr. A. E. Perry, \$1,899.96; Port Simpson Hospital, 3 m., \$240; United Church of Canada, services, field matrons, 6 m., \$210; sundry labour, \$252.63. Travelling expenses, agent, \$609, constable, \$250.05, Dr. McDonald, \$360, Indians, \$211.89. Fuel, \$180; gasoline and oil, \$196.13; launch supplies and repairs, \$731.06; medical supplies, \$885.40; hospitals, \$18,759.50; medical attendance, \$1,802.48; moorage, \$186; telegraph and telephone, \$177.49; sundries, \$166.17; aids to Indians, \$3,603.80.	40,968 02
Stikine Agency:—Salaries, agent, gr. 5, H. Reed, \$2,450.96, allowance, \$379.96; services of physicians, St. Andrew's Hospital, \$750, Province of British Columbia, Apr. 1 to Aug. 28, \$612.90; sundry labour, \$136.50. Travelling expenses, agent, \$1,509.65, physicians, etc., \$36.15, Indians, \$782.78. Fuel, \$142.15; gasoline and oil, \$125.48; launch repairs, \$80.74; medical supplies, \$105.06; hospitals, \$659.50; medical attendance, \$193.25; telegraph, \$114.64; water system, \$50; sundries, \$192.35; freight, express, etc., \$141.88; aids to Indians, \$6,098.17.	14,562 12
Stuart Lake Agency:—Salaries: agent, gr. 5, R. H. Moore, \$2,442, allowance, \$285 (allowances in kind, \$180); typist, gr. 2, J. F. Lacey, \$1,254; farming instructors and constables, A. E. Bennett, Apr. 1 to 23, \$53.67, allowance, \$7.66, A. J. F. Rae, \$1,080, allowance, \$120, G. E. Sharpe, Mar. 10, 1936, to Mar. 31, 1937, \$889.67, allowance, \$127.10; physicians, part time, Dr. E. J. Lyon, \$699.96, Dr. W. C. Pitts, \$1,425, Dr. W. R. Stone, \$999.96; field matron, Mrs. E. G. Bloomfield, \$1,020; sundry labour, \$118. Travelling expenses, agent, \$1,190.90, clerk, \$54.80, A. J. F. Rae, \$272.65, G. E. Sharpe, \$385.65, Dr. Stone, \$799.83, Indians, \$445.14; sundry, \$81.86. Auto repairs, \$675.14; Ford Tudor, \$915.27 less \$275 allowed on used car; gasoline and oil, \$795.19; fuel, \$251.64; launch repairs, \$443.36; medical supplies, \$505.04; hospitals, \$1,301.25; medical attendance, \$2,104.25; postage, \$61.50; rentals, garage, \$54, dispensary, \$247.50, office, \$180, warehouse, \$120; telegraphs and telephone, \$189.38; sundries, \$154.54; aids to Indians, \$9,305.03.	30,780 94
Vancouver Agency:—Salaries: agent, gr. 5, F. J. C. Ball, \$2,451, allowance, \$570; stenographer, gr. 2, D. Heclas, \$1,200; physicians, part time, Dr. F. Inglis, \$720, Dr. O. O. Lyons, \$799.92, Dr. N. J. Paul, \$1,200, less \$590.04 detailed in New Westminster Agency; field matrons, Mrs. N. J. Nicholson, \$720, Mrs. W. H. Sowrey, \$480; sundry labour, \$32.50. Travelling expenses, agent, \$815.31, Dr.	

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

INDIAN AFFAIRS—Con.—AFFAIRES INDIENNES—Suite

Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—Con.—Affaires indiennes: Frais d'administration, etc.—Suite

BRITISH COLUMBIA—Conc.—COLOMBIE BRITANNIQUE—Fin

Vancouver Agency—Conc. Lyons, \$7.68, Indians, \$124.92. Auto repairs, \$80.22; fuel, \$86; gasoline and oil, \$183.54; medical supplies, \$82.75; hospitals, \$3,773.50; medical attendance, \$909.50; telegraph and telephone, \$199.93; legal, \$33.70; sundries, \$71.94; aids to Indians, \$284.25	14,236 62
Vancouver Health Unit:—Salaries: medical superintendent, Dr. J. R. Atkinson, \$3,420. Travelling expenses, physician, \$1,746.06. Indians, \$9.40. Medical supplies, \$115.81; hospitals, \$464; office rent, \$540; telegraph and telephone, \$93.76; sundries, \$72.16	6,461 19
West Coast Agency:—Salaries: agent, gr. 5. P. B. Ashbridge, \$2,023.50, allowance, \$342; launchman, N. W. Garrard, \$1,200; physicians, part time, Dr. W. E. Bavis, Apr. 1 to Dec. 16, \$492.98, Dr. A. Edgelow, 5 m. to Aug. 31, \$166.65, Dr. J. C. Thomas, \$999.96, Dr. J. G. Robertson, Sept. 25 to 30 at \$900, 6 m. to Mar. 31 at \$1,200; United Church of Canada, services of graduate nurses, \$637.50; sundry labour, \$265. Travelling expenses, agent, \$413.75, physicians, \$76.85, Indians, \$880.86. Gasoline and oil, \$169.67; launch repairs and supplies, \$650.93; medical supplies, \$698.68; repairs to trails and wharves, \$205.15; hospitals, \$4,486.50; medical attendance, \$1,943.35; telegraph and telephone, \$165; sundries, \$74.26; aids to Indians, \$15,417.30	31,924 89
Williams Lake Agency:—Salaries: agent, gr. 5. H. E. Taylor, \$2,427 (allowances in kind, \$480); farming instructor, G. D. McKenzie, \$969, allowance, \$285; field matron, C. Auld, \$480; physician, part time, Dr. G. R. Baker, \$999.96; services of physicians, Chilcotin General Hospital, 10 m., \$866.64, War Memorial Hospital, \$1,106.64; sundry labour, \$180.50. Travelling expenses, agent, \$333.82, G. D. McKenzie, \$293.95, R.C.M.P., \$24.97, physicians, \$387.27, Indians, \$166.64. Auto repairs, \$713.36; Chevrolet coach, \$908.55, less \$105 allowed on used car; fuel, \$178.01; gasoline and oil, \$530.43; medical supplies, \$170.58; repairs to buildings, \$504.01; hospitals, \$3,488.25; medical attendance, \$367.02; light and water, \$119.63; telegraph and telephone, \$117.82; sundries, \$209.40; aids to Indians, \$8,123.08	23,846 53
(Page L—52) \$	
<u>471,018 72</u>	

BRITISH COLUMBIA — COLOMBIE BRITANNIQUE

Special Grant — Allocation spéciale

Agencies:—Salaries: manual training grants to 13 residential schools, \$7,242.50, payments to individuals, \$708; Asst. Power Development Engineer, A. L. McNaughton, \$207.87; Dr. A. L. McQuarrie, medical officer, gr. 3, \$3,961.50; H. E. Gerry, graduate nurse (allowances in kind, \$360), \$1,692. Travelling expenses: medical officer, \$1,799.84; nurse, \$918.08. Auto repairs, \$201.16; seed, \$7,279.46; hay, \$3,151.98; manual training supplies, \$2,166.03; implements, \$1,033.65; live stock, \$667.33; fruit trees, \$506.45; dynamite, \$307.40; fencing material, \$446.97; gasoline and oil, \$162.41; harness, \$173.55; irrigation, \$1,090.32; orchard spraying, \$434.39; repairs, \$624.11; Coqualeetza Preventorium, \$339.82. Hospitals, \$41,801.05; nursing care, \$861.95; tuition fees, \$755.53; expenses of Kamloops Fair, \$1,497.25; sundry, \$199.11. Purchase of land, Williams Lake (O.C. Aug. 23, 1934), \$17,243.75 less \$15,000 paid in 1934-35 and 1935-36, interest, \$134.63, survey fees, \$5,331; Cassiar District (O.C. Nov. 5, 1936), \$59.75. Adjustments: Surveys and Engineering Branch (Page L—95), \$24,038.83 less \$11,909.47 charged in Generally, etc. (Page L—52) \$	99,504 09
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NORTH WEST TERRITORIES — TERRITOIRES DU NORD-OUEST

Fort Good Hope Agency:—Salaries: Dr. P. W. Head, agent, gr. 3, part time, \$570. Medical superintendent, \$3,073.50 (allowances in kind, \$660) less \$150 paid by R.C.M.P.; physician, part time, Dr. J. A. Urquhart, \$285; services of nurses at \$1,080. Roman Catholic Diocese of MacKenzie I. Church of England I; interpreters, \$748.14; clerk, \$42. Travelling expenses, agent, \$197.38, Indians, \$60.26. Fuel, \$320.70; supplies, \$29.21; hospitals, \$11,424.50; freight and express, \$375.60; rent of warehouse, \$120; sundries, \$75.93; purchase of land (O.C. May 28, 1936), \$400; aids to Indians, \$5,768.90	25,501 12
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MINES AND RESOURCES—MINES ET RESSOURCES

INDIAN AFFAIRS—*Con.* — AFFAIRES INDIENNES—*Suite*

Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—*Con.* — Affaires indiennes: Frais d'administration, etc.—*Suite*

NORTHWEST TERRITORIES—*Conc.* — TERRITOIRES DU NORD-OUEST *Fin*

Fort Resolution Agency:—Salaries: Dr. J. E. Amyot, agent, gr. 4, \$1,461 (allowances in kind, \$420), physician, part time, \$1,482; services of nurses, Church of England, 1, \$1,020, Roman Catholic Diocese of MacKenzie, 2, 13 m. to Mar. 31, \$2,730; farm hands (allowances in kind at \$120), J. Farrow, 2 m. to May 31, \$140, allowance, \$50, L. L'Abbé, 10 m. to Mar. 31, \$650, allowance, \$250; launch engineers, W. Johnson, May 1 to Aug. 2, \$460, C. E. Linden, Sept., \$150; pilot, H. Heron, June 7 to Sept. 30, \$570; sundry, \$26; deckhand, June 1 to Sept. 20, \$455; steward, \$166; interpreter, \$18. Travelling expenses, agent, \$463.21, removal expenses (O.C. July 10, 1936), \$408.33, Indians, \$1,538.55. Gasoline and oil, \$1,349.74; grain and seed, \$182.21; boat engine, \$941.76; launch repairs, \$160.59; launch supplies and provisions, \$290.73; cattle, \$50; sundry repairs, \$21.68; supplies, \$27.61; sundry labour, \$227.25; medical equipment, \$96.31. Hospitals, \$2,119.55; medical attendance, \$248; rent of house, \$120; freight and express, \$409.22; postage, \$80.18; aids to Indians, \$8,883.68.	27,246 60
Fort Simpson Agency:—Salaries: Dr. W. A. M. Truesdell, agent, gr. 4, \$1,794 (allowances in kind, \$600), physician, part time, \$1,995; interpreter, J. Villeneuve, \$945 (allowances in kind, \$480); services of 2 nurses, Roman Catholic Diocese of MacKenzie, \$2,160; H. McGurran, launch engineer, June 1 to Oct. 21, \$666.60, labourer, \$532, arrears 1935-36, \$76.25; Jonas Lafferty, pilot, \$127, labour, \$225.25; labourer, C. Whitlock, \$621.75; sundry labour, \$974.20. Travelling expenses, Indians, \$418.65. Fuel, \$1,298.50; gasoline and oil, \$1,229.69; repairs and construction, \$2,026.59; launch supplies, repairs, etc., \$792.31; rations, \$435.31; grain, \$481.17; supplies, \$137.22. Hospitals, \$8,307; medical attendance, \$217.60; freight and express, \$614.52; postage, etc., \$83.68; aids to Indians, \$11,821.76.	37,981 05
Fort Smith Agency:—(See Province of Alberta).	

(Page L—52) \$ 90,728 77

YUKON

Salaries: agent, R.C.M.P., \$474.96; physicians, Dr. H. J. Nunn, 5 m. to Aug. 31, \$500, arrears of salary 1935-36, \$60, Dr. H. C. Duncan, 7 m. to Mar. 31, \$695; services of physician, Whitehorse Hospital Board, 12 m. to Feb. 28, \$1,116.25; services of nurse, Church of England, 10 m. to Mar. 31, \$1,000. Travelling expenses: R.C.M.P., \$350; physicians, \$23.25; Indians, \$431.71. Drugs, \$694.08; medical attendance, \$278.50; hospitals, \$6,841; telegraph and telephone, \$23.41; printing, etc., \$21.90; legal, \$300; sundries, \$103.18; aids to Indians, \$8,703.74.	(Page L—52) \$ <u>21,616 98</u>
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GENERAL — EN GÉNÉRAL

<i>Salaries and Wages — Traitements et salaires.</i> —Salaries at Ottawa (Page L—25), \$9,123.20; medical officer, gr. 3, Dr. J. J. Wall, \$4,047; graduate nurse, B. Cousins, April 1 to Oct. 14, \$912.68, allowance, 2 m., \$57 (allowances in kind to Aug. 14 at \$360); commissioner appointed under Part II of Inquiries Act, to make a general survey of Indian conditions (O.C. Mar. 14, July 2, 1936), Dr. Thos. Robertson, Mar. 19, 1936, to Nov. 19, 1937, 246 days at \$20 per day; assistant power development engineer, A. L. McNaughton, \$577.87 less \$207.87 detailed in B.C. Special Grant; special investigator <i>re</i> muskrat production, Thos. Lamb (O.C. Mar. 30, 1937, \$1,200) 1st instalment, \$500; sundry, \$164.55.	20,094 43
<i>Travelling Expenses — Frais de voyages.</i> —P. J. Bernard, \$34.85; M. Christianson, \$133.32; S. Cookson, \$73.50; B. Cousins, \$157.10; J. McCaig, \$53.13; T. McGoekin, \$34.80; G. Patrick, \$262.24; Dr. T. Robertson, \$1,659.77; C. P. Schmidt, \$20.25; F. M. Steel, \$794.14; Dr. E. L. Stone, \$232.22; Dr. W. L. Tyrer, \$212.20; Dr. J. J. Wall, \$1,486.80; Indians, \$196.90.	5,351 22
<i>Materials, Supplies, Repairs, etc. — Matériel, fournitures, réparations, etc.</i> —Auto repairs, etc., \$427.58; blueprints, \$205.20; drugs, \$91.68; survey expenses, W. R. White, \$111.90; supplies, etc., issued to A. J. MacDonald, Claresholm Farm, \$854.69; triennial clothing, \$7,322.46.	9,013 51
<i>Printing and Stationery — Impressions et papeterie.</i> —King's Printer, stationery and office supplies for all agencies.	8,169 36
<i>Miscellaneous — Divers.</i> —Government Officers Guarantee Fund, \$560.59; registration of births, marriages and deaths, \$218; hospitals, \$860; medical attendance, \$839.25; telegraph and telephone, \$71.25; sundries, \$166.76; freight, \$610.58.	3,326 43

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

INDIAN AFFAIRS—Con. — AFFAIRES INDIENNES—Suite

Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—Con. — Affaires indiennes: Frais d'administration, etc.—Suite

GENERAL—Conc. — EN GÉNÉRAL—Fin

<i>Loans, Grants, Subsidies, etc.—Prêts, allocations, subventions, etc.:</i> —Grants to Fairs (O.C. April 22, 1936) Regina Exhibition Assoc. Ltd., \$350, Vancouver Fall Fair, \$350; suppression of liquor traffic, credited to Trust Fund Account 310, \$4,000	4,700 00
<i>Other Outlay — Autres déboursés:</i> —Aids to Indians.....	18,927 36
<i>Adjustments — Ajustements:</i> —Lands, Parks and Forests Branch (Page L—89), part salary of F. M. Steel, \$1,795.50; Surveys and Engineering Branch, expenses of surveys (Page L—95), \$24,038.83 less \$22,579.11 detailed in B.C. Special Grant, etc.; Dept. of Pensions and National Health, drugs, etc., supplied to Indian agencies, hospitals and schools, \$58,400.26; R.C.M.P., \$7,160.87 less \$6,941.37 detailed in Agencies, etc. Refunded to Casual Revenue (Page L—6), overpayment of salary, J. T. White, \$52.44; Casual Revenue, 1937-38, outstanding advance, A. Irwin, \$25.98, travel of auditors, \$150.75, overpayments, C. Bourget, \$10, Dr. M. James, \$16.66.....	62,130 81

(Page L—52) \$ 131,713 12

INDIAN EDUCATION — INSTRUCTION DES INDIENS

Residential Schools — Pensionnats	Per Capita Grant — Allocation par élève		Watch- men — Gardiens	Equip- ment — Maté- riel	Additions and Repairs — Additions et réparations	Travel- ling Ex- penses — Frais de voyage	Sun- dries — Divers	Total
	Rate — Taux	Amount — Montant						
<i>Nova Scotia— Nouvelle-Écosse</i>								
Shubenacadie.....	\$ 180 00	\$ 25,612 81		\$ 215 71	\$ 3,291 46	\$ 215 76	\$ 45 75	\$ 29,381 49
<i>Quebec — Québec</i>								
Fort George.....	200 00	6,650 00					26 38	6,676 38
<i>Ontario</i>								
Albany.....	200 00	14,842 80	\$ 210 00					15,052 80
Cecelia Jeffrey.....	165 00	17,550 64	180 00		90 15	17 10	156 54	17,994 43
Chapleau.....	160 00	15,170 36		659 00	482 28	297 75	32 95	16,642 34
Fort Frances.....	165 00	10,528 00	280 00	450 89	288 98		138 18	11,686 05
Fort William.....	150 00	11,666 48				201 50		11,867 98
Kenora.....	165 00	10,708 50	280 00	70 13	2,899 95	2 50	48 16	14,009 24
McIntosh.....	165 00	12,009 49	280 00	750 43	616 07		227 10	13,883 09
Mohawk.....	160 00	22,713 36					12 90	22,726 26
Moose Fort.....	200 00	7,600 00	249 03		9 44		16 43	7,874 90
Mount Elgin.....	150 00	21,503 60		604 06	3,767 08	2 00	111 64	25,988 38
Shingwauk.....	160 00	19,465 12		1,167 40	1,605 14	314 56	474 62	29,623 57
<i>Contract</i>								
Sioux Lookout.....	165 00	18,384 01	160 00	422 47	4,134 05	205 00	167 88	23,473 41
Spanish.....	160 00	28,008 00		126 47	403 20	716 40	77 52	29,331 59
		210,150 36	1,639 03	4,250 85	20,895 07	1,756 81	1,463 92	240,154 04
<i>Manitoba</i>								
Birtle.....	170 00	17,753 30			249 75	80	74 20	18,078 05
Brandon.....	170 00	27,277 76			1,796 89	547 00	81 60	29,703 25
Cross Lake.....	175 00	4,911 44						4,911 44
Eikhorn.....	170 00	22,972 97	280 00	766 86	266 65	454 37	91 79	24,832 64

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

INDIAN AFFAIRS—Con.—AFFAIRES INDIENNES—Suite

Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—Con.—Affaires indiennes: Frais d'administration, etc.—Suite

INDIAN EDUCATION—Con.—INSTRUCTION DES INDIENS—Suite

Residential Schools — Pensionnats	Per Capita Grant — Allocation par élève		Watch- men — Gardiens	Equip- ment — Maté- riel	Additions and Repairs — Additions et répara- tions	Travel- ling Ex- penses — Frais de voyage	Sun- dries — Divers	Total
	Rate — Taux	Amount — Montant						
<i>British Columbia— Colombie Britannique</i>								
Ahousalt.....	\$ 180 00	\$ 8,090 01	\$ 200 00	\$ 49 50	\$ 4,385 76	\$ 2 00	\$ 26 20	\$ 12,753 47
Alberni.....	180 00	19,404 66	140 00		575 45	112 05	173 63	20,405 79
Alert Bay.....	180 00	34,200 00		157 40		340 30	124 60	34,822 30
Cariboo.....	170 00	19,134 12	192 50	248 55	1,847 60	3 35		21,426 12
Christie.....	180 00	17,720 73	200 00	71 01	113 30	142 65	23 20	18,270 89
Coqualectza.....	170 00	30,655 13		120 87	1,970 39	520 35	72 05	33,338 79
Kamloops.....	170 00	45,756 20		53 19	2,085 00	355 45	28 55	48,278 39
Kitamaat.....	175 00	4,724 84						4,724 84
Kootenay.....	170 00	10,703 22		614 08				11,317 30
Kuper Island.....	170 00	15,562 14		60 77	2,413 31	1 60	10 45	18,048 27
Lejac.....	170 00	20,060 00			341 47	144 40	61 61	20,607 48
Port Simpson.....	175 00	4,822 49						4,822 49
St. George.....	180 00	28,390 76		85 50		2 40	30 00	28,508 66
St. Mary's.....	170 00	20,060 00	350 00	594 00	1,385 55	397 44		22,786 99
Sechelt.....	170 00	12,793 22			52 01	41 00		12,886 23
Squamish.....	170 00	9,488 13					715 77	10,203 90
		301,565 65	1,082 50	2,054 87	15,169 84	2,062 99	1,266 06	323,201 91
<i>Northwest Territories Territoires du Nord- Ouest</i>								
Aklavik, C.E.†.....	200 00	1,624 03						1,624 03
Aklavik, R.C.....	200 00	4,166 71	280 00	213 55	283 90		33 66	4,977 82
Fort Resolution.....	200 00	8,077 38	280 00	649 87	89 84		13 74	
					*3,500 00			12,610 83
Hay River.....	200 00	6,044 86	280 00			119 00	50 16	6,494 02
Providence.....	200 00	10,222 01	280 00			69 90	7 00	10,578 91
		30,134 99	1,120 00	863 42	5,873 74	188 90	104 56	36,285 61
<i>Yukon</i>								
Carcross.....	250 00	9,500 00		478 61	1,221 67	278 80	87 63	11,566 71
St. Paul's.....	250 00	4,522 00					12 16	4,534 16
		14,022 00		478 61	1,221 67	278 80	99 79	16,100 87
		1,263,027 89	10,776 53	27,352 80	94,700 97	6,162 74	9,103 91	1,411,124 84

* Grants for construction and repairs, etc., approved by Orders-in-Council — Allocations pour construction et réparations approuvées par divers arrêtés en conseil.

† New School established by Order-in-Council—Nouvelle école ouverte tel qu'autorisé par arrêté en conseil.

MINES AND RESOURCES—MINES ET RESSOURCES

INDIAN AFFAIRS—*Con.* — AFFAIRES INDIENNES—*Suite*

Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—*Con.* — Affaires indiennes: Frais d'administration, etc.—*Suite*

INDIAN EDUCATION—*Con.* — INSTRUCTION DES INDIENS—*Suite*

Day Schools Externats	Teachers — Instituteurs		Janitors, etc. — Con- cierges, etc.	Repairs and addi- tions — Répara- tions, et addi- tions	Supplies and equip- ment — Fourni- tures, et maté- riel	Sun- dries — Divers	Total
	Name — Nom	Salary — Traite- ment					
<i>Nova Scotia — Nouvelle-Écosse</i>							
Afton.....	McKeough, A., 3 m.....	\$ 225 00					
	Forbes, J. M., 7 m.....	525 00	\$ 75 00		\$ 69 72	\$ 14 00	\$ 908 72
Bear River.....	Ford, R. L.....	700 00	30 00		27 00	5 00	762 00
Eskasoni.....	Dunn, M. A.....	750 00	55 00		246 92	7 75	1,059 67
Indian Cove.....	McGirr, G.....	800 00	72 00	\$ 22 22	42 50	22 65	959 37
Malagawatch.....	Kennedy, C.....	700 00	70 00		47 04	15 55	832 59
Middle River.....	Burns, A., 3 m.....	195 00					
	McLean, M. E., 7 m.....	455 00	70 00	74 32	165 50	17 71	977 53
Millbrook.....	Smith, E., 3 m.....	195 00					
	McKinnon, F. B., 7 m.....	455 00	64 00	308 71	194 20	53 00	1,269 91
Salmon River.....	Madden, F., 3 m.....	210 00					
	Bissett, H. I., 7 m.....	490 00	70 00	20 60	119 44	21 00	931 04
Sydney.....	Gallagher, C.....	850 00	67 50	41 44	49 95	19 87	1,028 76
Whycocomagh.....	MacDonald, A.....	750 00	56 00	72 32	172 03	58 30	1,108 65
		7,300 00	629 50	539 61	1,134 30	234 85	9,838 24
<i>New Brunswick — Nouveau-Brunswick</i>							
Big Cove.....	Fraser, A. L.....	800 00					
	Fraser, Mrs. A. L.....	600 00	100 00	74 38	223 00	78 65	1,876 03
Burnt Church.....	Hogan, C. J., 3 m.....	240 00					
	Hogan, M.....	750 00					
	Hogan, V. A., 7 m.....	560 00	125 00	20 47	200 00	67 45	1,962 92
Eel Ground.....	Fitzgerald, I.....	750 00	225 00	20 00		28 59	1,023 59
Eel River.....	Tremblay, A., 3 m.....	210 00					
	Arsenault, B. L., 7 m.....	490 00	65 00	17 45	51 50	43 33	877 28
Indian Island.....	Savage, C. E. F.....	700 00	100 00		94 00	257 17	1,151 17
Kingsclear.....	O'Brien, E. M.....	750 00	80 00	26 03	116 14	33 87	1,006 04
Oromocto.....	Delaney, E., 3 m.....	275 00					
	Scott, M. E., 7 m.....	525 00	50 00	22 29	126 00	25 33	1,023 62
Red Bank.....	Keohoe, S. M.....	700 00	80 00	38 20	166 85	14 05	999 10
St. Mary's.....	McElligot, R.....	750 00	80 00	33 45	140 60	32 27	1,036 32
Tobique.....	Sr. M. Dolorosa.....	700 00					
	Sr. M. F. Joseph.....	700 00	350 00	69 77	288 75	63 26	2,171 78
Woodstock.....	Sr. M. Victorine, 3 m.....	240 00					
	Sr. M. Annette, 7 m.....	560 00					
	Sr. M. Catharine.....	750 00	80 00	44 29	330 98	78 67	2,083 94
		11,050 00	1,335 00	366 33	1,737 82	722 64	15,211 79
<i>Prince Edward Island — Ile du Prince- Édouard</i>							
Lennox Island.....	Sark, J. J.....	650 00	75 00	143 63	129 53	8 25	1,006 41

DETAILS OF EXPENDITURE—*Con.*—DÉTAIL DES DÉPENSES—*Suite*INDIAN AFFAIRS—*Con.*—AFFAIRES INDIENNES—*Suite*

Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—*Con.* — Affaires indiennes: Frais d'administration, etc.—*Suite*

INDIAN EDUCATION—*Con.*—INSTRUCTION DES INDIENS—*Suite*

Day Schools Externats	Teachers — Instituteurs		Janitors, etc. — Con- cierges, etc.	Repairs and addi- tions — Répara- tions, et addi- tions	Supplies and equip- ment — Fourni- tures, et maté- riel	Sun- dries — Divers	Total
	Name — Nom	Salary — Traite- ment					
<i>Quebec — Québec</i>							
Bersimis.....	Sr. Fidele de Jesus, 3 m.	\$ 60 00					
	Sr. des Seraphines, 7 m.	350 00					
	Sr. St. Angeline, 3 m.	150 00					
	Sr. St. Jeanne.....	600 00					
	Sr. St. Marc, 4 m.	80 00		\$ 322 85	\$ 594 67	\$ 52 73	\$ 2,210 25
Brennan Lake.....	McMahon, M.	765 00	\$ 40 00	40 00	94 50	3 00	942 50
Caughnawaga Bush.....	Phillips, M. K.	700 00	35 00	5 39	120 48	7 22	868 09
Caughnawaga R.C. Schools and Teachers' Resi- dence.....	Sisters of St. Ann.....	10,475 00					
	Champagne, A., 3 m.	120 00					
	Jacobs, T.	750 00					
	Snow, A., 3½ m.	227 50					
	Snow, V., 6½ m.	422 50	2,020 00	339 97	2,222 93	1,137 57	17,715 47
Caughnawaga, U.C.....	Daly, V. M., 8½ m.	783 00					
	Elford, F., 2½ m.	209 03					
	Kenner, N. L., 3 m.	270 00					
	Dean, Rev. C. C., 7 m.	665 00	150 00	26 43	339 39	133 10	2,575 95
Chenail.....	Billings, F. U.	700 00	60 00		60 85	65 50	886 35
Chetlain.....	Legarde, G.	850 00	50 00	50 44	259 40	159 70	1,369 54
Congo Bridge.....	Somers, R., 3 m.	210 00					
	McSheffrey, M., 6 m., 12 d.	447 09	15 00		27 50	2 44	702 03
Cornwall Island.....	Peters, E.	800 00	50 00	6 00	74 85	18 46	949 31
Cornwall Island, E.	Chisholm, C. J.	900 00	50 00	64 80	367 35	71 03	1,453 18
Fort George.....	Nesbitt, B. A.	700 00			36 75		736 75
Hunter's Point.....	Nephin, C. A., 11 m. to Dec. 31.	800 00	40 00		37 50	5 70	883 20
Long Point.....	McLaren, J. D.	900 00			46 70	100 00	1,046 70
Lorette.....	Sr. St. René, 3 m.	195 00					
	Sr. St. Aimée, 7 m.	455 00					
	Sr. St. Vincent Ferrier.	550 00	110 00	22 00	258 00	44 50	1,634 50
Manowan.....	Bordeleau, U., 4 m.	360 00					
	Richard, O., 4 m.	260 00		7 00	6 90	6 69	640 59
Maniwaki.....	White, F.	800 00	100 00	147 25	61 87	12 38	1,121 50
Maria.....	Gideon, D.	600 00	50 00	17 87	48 00		715 87
Obedjwan.....	Dionne, L., 4 m.	360 00					
	Lafrance, J., 4 m.	260 00		11 30		14 40	645 70
Oka County.....	Smith, A. E.	1,000 00	75 00	4 75	127 50	46 69	1,253 94
Oka Village.....	Tupper, B.	950 00	75 00	86 67	122 06	91 22	1,324 95
Pointe Bleue.....	Sr. Henri Suzo, 3 m.	150 00					
	Sr. Adrien, 7 m.	350 00					
	Sr. M. du Carmel.	600 00					
	de la Boissiere, A.		285 00	5 06	90 00	44 92	1,524 98
Restigouche.....	Sr. M. of St. J. Baptist, 3 m.	180 00					
	Sr. St. Leo, 7 m.	420 00					
	Sr. St. Bridget.	550 00					
	Sr. St. Peter.	550 00	20 35	78 92	231 32	203 55	2,234 14

MINES AND RESOURCES—MINES ET RESSOURCES

INDIAN AFFAIRS—Con. — AFFAIRES INDIENNES—Suite

Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—Con. — Affaires indiennes: Frais d'administration, etc.—Suite

INDIAN EDUCATION—Con. — INSTRUCTION DES INDIENS—Suite

Day Schools — Externats	Teachers — Instituteurs		Janitors, etc. — Con- cierges, etc.	Repairs and addi- tions — Répara- tions, et addi- tions	Supplies and equip- ment — Fourni- tures, et maté- riel	Sun- dries — Divers	Total
	Name — Nom	Salary — Traite- ment					
<i>Quebec-Conc. Québec-Fin</i>							
Rupert House.....	Morrow, G., 7 m. to Dec. 31.....	\$ 315 00	\$ 25 00		\$ 25 00	\$ 55 00	\$ 420 00
St. Frances, R.C....	Sr. R. de la Croix.....	500 00					
	Sr. M. Josephine.....	700 00					
	Sr. St. René.....	600 00	160 00	\$ 93 79	624 30	203 03	2,881 12
St. Frances, C.E....	Emmett, A.....	650 00		18 00	48 00	8 65	724 65
St. Isidore Road....	Stacey, M.....	750 00	50 00	7 85	101 97	40	910 22
St. Regis Island....	Fitzpatrick, H.....	800 00	53 50	25 92	47 35	80 85	1,007 62
St. Regis Village....	McDonald, M.....	1,050 00					
	McRae, H. C.....	900 00	116 50	166 36	403 10	26 55	2,662 51
Timiskaming.....	Sr. St. J. Eucharist.....	850 00	50 00	102 58	74 80	7 55	1,084 93
Waswanippi.....	Iserhoff, S. R., 3 m.....	225 00	15 00			19 40	259 40
Weymontaching....	Alie, M., 4 m.....	360 00					
	Boisvenue, T., 4 m.....	260 00		17 29		9 19	646 48
		39,484 12	3,695 55	1,668 49	6,553 04	2,631 42	54,032 42
<i>Ontario</i>							
Albany River.....	Joselyn, Rev. R. A., 12 m. to Dec. 31.....	450 00	50 00		61 75	6 60	568 35
Alnwick.....	Atkinson, D., 3 m.....	300 00					
	Loukes, J. D., 7 m.....	630 00	25 00		163 50	39 92	1,158 42
Back Settlement....	Howe, H. M.....	950 00	54 00	71 84	76 85	38 22	1,190 91
Batchawana.....	Robichaud, E. M.....	800 00	50 00	51 60	113 25	9 25	1,024 10
Bear Creek.....	Stiltz, M.....	900 00	54 00	4 25	54 74	19 86	1,032 85
Birch Island.....	Clarke, M., 3 m.....	270 00					
	Fortin, E. L., 7 m.....	560 00	40 00	23 80	77 65	17 98	989 43
Buzwah.....	Wakegijig, C.....	800 00	50 00		20 00	15 95	885 95
Cape Croker, No. 1	Burke, S. J.....	950 00	61 68	143 01	108 22	76 48	1,339 39
	Nesbitt, M., 3 m.....	240 00					
Cape Croker, No. 2	Bell, I., 7 m.....	560 00					
	Rawlings, H. S.....	850 00	96 40	35 66	212 00	48 11	2,042 17
Cat Lake.....	Martin, L. A., 3 m.....	240 00				3 54	243 54
Christian Island....	O'Toole, M.....	900 00	75 00	7 65	135 04	287 01	1,404 70
Dokis.....	Addy, L.....	850 00	26 00	7 50	12 50	10 53	906 53
English River.....	Clarke, N., 5 m.....	325 00					325 00
Fort Hope.....	MacDonald, Rev. J. A., 7 m.....	315 00	30 00		84 70	59 30	489 00
	McPherson, K. B., 3 m.....	240 00					
	McCullough, E. M., 7 m.....	560 00	131 00	79 90	92 00	23 85	1,126 75
Garden River, C.E.	Davies, A. L.....	900 00	50 00	31 22	162 00	39 79	1,183 01
Garden River, R. C.....	O'Driscoll, C., 3 m.....	270 00					
	Hickey, M. R., 7 m.....	595 00					
	Gattie, L.....	885 00	60 00	7 90	310 53	44 01	2,172 44
Garden Village.....	Cox, E.....	800 00	29 00		69 20	11 40	909 60
Georgina Island....	Gibson, R. A.....	850 00	90 00	90 26	33 00	16 70	1,079 96
Gibson.....	Sommer, C. O.....	850 00	50 00	15 85	159 00	13 90	1,088 75
Golden Lake.....	Currie, J.....	900 00	80 00	10 68	2 20	11 95	1,004 83
Goulais Bay.....	Cazaly, M. I.....	800 00	50 00	38 50	96 00	48 24	1,032 74
Gull Bay.....	Ross, D.....	900 00	50 00		40 70	33 21	1,023 91
Henvey Inlet.....			20 00				20 00

DETAILS OF EXPENDITURE—*Con.*—DÉTAIL DES DÉPENSES—*Suite*INDIAN AFFAIRS—*Con.*—AFFAIRES INDIENNES—*Suite*

Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—*Con.* — Affaires indiennes: Frais d'administration, etc.—*Suite*

INDIAN EDUCATION—*Con.*—INSTRUCTION DES INDIENS—*Suite*

Day Schools — Externats	Teachers — Instituteurs		Janitors, etc. — Con- cierges, etc.	Repairs and additions — Répara- tions, et addi- tions	Supplies and equip- ment — Fourni- tures, et maté- riel	Sun- dries — Divers	Total
	Name — Nom	Salary — Traite- ment					
<i>Ontario—Con.</i> — <i>Suite</i>							
Hiawatha.....	Thompson, M. D., 3 m.	\$ 90 00					\$ 210 00
	Brooks, H. J., 4 m.	120 00					245 00
Honey Harbour.....	Johnston, J. F., 7 m.	245 00					
Kaboni.....	Byrne, M., 3 m.	225 00					
	Prudhomme, S. A., 7 m.	525 00	\$ 50 00	\$ 85	\$ 12 00	\$ 25 70	838 55
Kettle Point.....	Dill, G.	900 00	34 33	78 89	279 51	132 21	1,424 94
Lake Helen.....	Vesey, G.	850 00	50 00			264 10	1,164 10
Long Lac.....	Wright, M.	850 00	50 00	65 00	270 04	50 05	1,285 09
Lower French River.....	Carruthers, A. B.	800 00	70 00	244 43	102 00	62 69	1,279 12
Maganetawan.....	O'Meara, G. E.	900 00	78 00	4 60	82 25	37 70	1,102 55
Manitou Rapids.....	Herrem, A., 3 m.	270 00					
	Pratt, P. L., 7 m.	630 00	20 00	408 89	164 55	2 15	1,495 59
Mattawa.....	St. Anne Therese, 6 m.	210 00					
	Sr. Liliosa, 4 m.	140 00					350 00
Michipicoten.....	Sussman, H., 7 m.	490 00					490 00
Mission Bay.....	Troy, C.	1,000 00	50 00	16 40	212 40	31 75	1,310 55
Mississauga.....	MacNulty, M.	950 00	40 00	53 40	61 85	33 93	1,139 18
Mobert.....	Prudhomme, S. A., 3 m.	240 00					
	Douglas, J., 7 m.	560 00	50 00	34 97	347 23	47 60	1,279 80
Moose Deer Point.....	Donald, E.	800 00	50 00		48 00	9 30	907 30
Moose Fort.....	Westgate, A. A., 3 m.	150 00					
	Sampson, Rev. L. A., 4 m.	200 00			75 00		425 00
Moraviantown.....	Ward, Rev. J. A.	850 00	80 00	84 70	142 50	69 28	1,226 48
Mud Lake.....	Long, B. V.	800 00					
	Rome, W. G.	950 00	23 75	7 60	270 00	16 05	2,067 40
Muncey.....	Comfort, B.	850 00	79 00	7 75	124 41	30 66	1,091 82
New Credit.....	Knight, L., 3 m.	240 00					
	Hill, J. C., 7 m.	630 00	120 00	117 01	140 42	59 99	1,307 42
Oneida, No. 2.....	Morris, V. H.	850 00	74 00	47 50	80 85	62 03	1,114 38
Oneida, No. 3.....	Rumble, G. A., 3 m.	255 00					
	Brayford, L. O., 7 m.	595 00	114 00	40 01	127 35	92 04	1,223 40
Pic.....	Reed, M. H.	850 00	50 00		36 15	123 00	1,059 15
Port Elgin.....	Bell, S. M.	900 00	61 66	6 41	101 65	33 03	1,102 75
Rabbit Island.....						20 00	20 00
Rama.....	Smith, M., 3 m.	255 00					
	McNeice, R. P. L., 7 m.	595 00					
	Swerdfeger, G.	1,000 00	150 00	330 76	369 78	79 29	2,779 83
River Settlement.....	Evoy, M. H., 3 m.	270 00					
	Sabin, A. P., 7 m.	630 00	104 00	13 50	52 30	25 71	1,095 51
Ryerson.....	McArthur, A. I.	850 00	103 00	226 15	120 15	8 80	1,308 10
St. Clair.....	Windover, W. E.	1,050 00	39 84	29 83	58 79	56 65	1,235 11
Sagamook.....	Kelly, H. C.	800 00	52 00	89 60	393 64	37 72	1,372 96
Sand Point.....	Fex, S. A., 3 m.	255 00					
	Van Hatten, N., 7 m.	595 00	50 00	1 95	119 20	18 47	1,039 62
Saugeen.....	Knechtel, W. M.	1,000 00	75 00	29 60	130 00	32 45	1,267 05
Scotch Settlement.....	McIver, M. J.	900 00	50 00	93 45	130 00	10 74	1,184 19
Seine River*.....	Leeder, J., 3 m.	270 00			303 54		573 54
Serpent River.....	Bush, A.	850 00	50 00	13 00	151 80	11 45	1,076 25
Shawanaga.....	English, E.	850 00	56 00	231 35	105 00	23 46	1,265 81

MINES AND RESOURCES—MINES ET RESSOURCES

INDIAN AFFAIRS—Con. — AFFAIRES INDIENNES—Suite

Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—Con. — Affaires indiennes: Frais d'administration, etc.—Suite

INDIAN EDUCATION—Con. — INSTRUCTION DES INDIENS—Suite

Day Schools — Externats	Teachers — Instituteurs		Janitors, — Con- cierges, etc.	Repairs and addi- tions — Répara- tions, et addi- tions	Supplies and equip- ment — Fourni- tures, et maté- riel	Sun- dries — Divers	Total
	Name — Nom	Salary — Traite- ment					
<i>Ontario—Conc.— —Fin</i>							
Sheguiandah, C.E.	Abbott, J. A., 3 m.	\$ 240 00					
	Ballantyne, M., 7 m.	560 00	\$ 50 00	\$ 3 50	\$ 12 00	\$ 5 75	\$ 871 25
Sheguiandah, R.C.	Lapointe, E.	800 00	50 00		15 00	1 00	866 00
Sheshegwaning, R.C.	LaVictoire, V.	850 00	50 00	6 50	124 20	93 47	1,124 17
Sidney Bay.....	Eddington, G.	900 00	51 66	33 35	53 10	37 60	1,075 71
Six Nations.....	Anderson, M., 69 d.	229 83					
	Davis, V.	1,200 00					
	English, H. V., 2 m.	180 00					
	Garlow, J. L., 7 m.	700 00					
	General, E.	1,000 00					
	Green, D. T., 7 m.	700 00					
	Green, T. E. R., 7 m.	630 00					
	Hill, A.	900 00					
	Hill, D., 13 d.	39 00					
	Hill, Mina, 3 m.	330 00					
	Hill, Mary.	1,000 00					
	Jamieson, J. L.	1,200 00					
	Jamieson, Mary, 23 d.	69 00					
	Jamieson, N.	1,200 00					
	Jamieson, S., 3 m.	300 00					
	Miller, H.	900 00					
	Monture, E.	900 00					
	Smith, O.	1,000 00					
	Taylor, W., 7 m.	700 00	1,456 00	372 84	390 35	309 73	15,706 75
Spanish River.....	Crooks, H. F.	800 00	40 00	6 86	44 00	20 30	911 16
Stony Point.....	Anderson, M. E.	850 00	38 33	139 38	58 00	36 87	1,122 58
Sucker Creek.....	Willis, B.	850 00	50 00		38 55	7 30	945 85
Timagami.....	Wittig, Rev. L. C., 6 m. to Oct. 15.	511 46	20 00	167 30	57 29	15 00	801 05
Trout Lake.....	Sigston, E., 73 d.	365 00			49 00	114 48	528 48
Tyendinaga.....	Bell, L. M.	900 00					
	Brant, L.	850 00					
	Claus, L.	900 00					
	Stoddart, N. H.	950 00	310 60	269 12	475 83	46 95	4,701 90
Walpole Island, No. 1.....	Daly, J. W.	950 00					
	Daly, V. M.	850 00	140 00	68 75	161 00	61 18	2,230 93
Walpole Island, No. 2.....	George, E. E.	950 00	95 00	52 87	60 00	59 74	1,217 61
West Bay.....	Wynn, M.	900 00	30 00	47 70	46 00	26 05	1,049 75
Whitefish Bay.....	Laflech, A.	770 00	42 00	3 00	198 10	74 84	1,087 94
Whitefish Lake.....	Wabegijig, M., 3 m.	240 00					
	Kinoshameg, M., 5 m., 13 d. to Mar. 31.	433 55	30 00		16 00	6 50	726 05
Whitefish River.....	Stump, H. J., 13 m.	780 00					780 00
Whitesand.....	Van Hatten, N., 3 m.	180 00					
	McGuire, A., 6½ m.	443 33	47 30		343 19	72 32	1,086 14
Wikwemikong.....	Goody, J., 3 m.	285 00					
	O'Driscoll, C., 7 m.	665 00					
	Trudeau, R.	800 00	60 00	255 95	40 00	90 75	2,196 70
		80,276 17	5,656 95	4,324 84	8,968 80	3,463 63	102,629 89

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

INDIAN AFFAIRS—Con.—AFFAIRES INDIENNES—Suite

Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of
Indian Affairs—Con.—Affaires indiennes: Frais d'administration, etc.—Suite

INDIAN EDUCATION—Con.—INSTRUCTION DES INDIENS—Suite

Day Schools — Externats	Teachers — Instituteurs		Janitors, etc. — Con- cierges, etc.	Repairs and addi- tions — Répara- tions, et addi- tions	Supplies and equip- ment — Fourni- tures, et maté- riel	Sun- dries — Divers	Total
	Name — Nom	Salary — Traite- ment					
<i>Manitoba</i>							
Beren's River, R.C.....	Leach, Rev. F., 3 m.....	\$ 240 00					
	Sr. M.P. de Neri, 7 m....	560 00	\$ 64 00		\$ 161 68	\$ 34 27	\$ 1,059 95
Beren's River, U.C.....	Street, C. D.....	1,100 00	55 00	\$ 130 25	232 05	88 12	1,605 42
Big Eddy.....	McKay, E.....	850 00	50 00	10 85	56 38	7 85	975 08
Black River.....	Slater, G.....	650 00	30 00	125 98	27 00		832 98
Bloodvein River.....	Guimond, B., 3 m.....	240 00					
	Leach, Rev. F., 7 m.....	595 00	30 00	80 60	173 93	50 66	1,170 19
Brokenhead.....	Sage, G. E.....	950 00	30 00	81 25	9 90	9 90	1,071 15
Chemawawin.....	Barrett, H. P.....	900 00		65 35	73 50	1 30	1,040 15
Churchill.....	Rowe, Rev. L. F., 2 m..	160 00			49 00		209 00
Cross Lake, R.C.....	Sr. St. Luc.....	950 00			82 00	88 12	1,120 12
Cross Lake, U.C.....	Shoup, C.....	950 00	17 50	18 25	136 60	87 39	1,209 74
Ebb and Flow Lake.....	Taggart, A. G.....	900 00		107 67	76 65	52 35	1,136 67
Fairford.....	Fairservice, I. G.....	950 00					
	Skatfeld, N.....	900 00	315 50		303 21	35 21	
Bus driver						170 00	2,673 92
Fisher River.....	Stevens, M.....	850 00					
Bus driver	Tong, W. G.....	1,050 00	134 00	96 06	221 00	29 05	
Fort Alexander.....	Harbord, C. R.....	950 00	30 00	154 30		156 00	2,536 11
God's Lake, U.C.....	Hiltz, R. S., 48 d.....	192 00			24 50	14 70	1,149 00
God's Lake, R.C.....	Cordeau, J., 2 m.....	160 00			28 06	24 71	241 21
Grand Rapids.....	Armstrong, G. M.....	900 00	21 00	6 80	57 76	29 49	217 55
Hollowater River.....	Marsh, R. C., 8 m. to Dec. 31.....	525 00	39 00		168 65	4 95	990 36
Island Lake, R.C.....	Gauthier, A.....	900 00	15 00	1 75	110 25	133 82	757 60
Island Lake, U.C.....	Mutch, W., 9½ m.....	966 67	4 50		85 75	85 84	1,160 82
Jackhead.....	McKenzie, C. R.....	900 00	35 00	25 25	282 50	19 74	1,142 76
Jack River, C.E.....	Cope, E. G., 3 m.....	195 00					1,262 49
	Cheales, A. B., 4 m.....	260 00			104 73	6 54	566 27
Jack River, R.C.....	Sr. Morin.....	800 00			61 25	16 88	878 13
Lake Manitoba.....	Sr. M. Cecelia.....	450 00					
	Sr. M. Clara, 3 m.....	300 00					
	Sr. M. Margarita, 7 m..	700 00		49 40	91 49	15 18	1,606 07
Lake St. Martin.....	Walier, S.....	850 00		15 25	112 72	13 20	991 17
Little Grand Rapids, R.C.....	Guimond, A., 3 m.....	240 00					
	Guimond, B., 7 m.....	560 00	39 00		161 71	28 04	1,028 75
Little Grand Rapids, U.C.....	Schuetze, L.....	900 00	21 00		148 59	27 93	1,097 52
Little Saskatche- wan.....	Whedon, A.....	950 00		23 60	89 83	39 81	1,103 24
Moose Lake.....	Scruse, A.J., 7 m. to Dec. 31.....	245 00			36 75	50	282 25
Nelson House, R.C.....	Lauze, R.....	850 00		1 50	67 63	10 54	929 67
Nelson House, U.C.....	Bell, I., 3 m.....	285 00					
	Monias, E., 7 m.....	665 00		147 97	180 57	22 09	1,300 63

MINES AND RESOURCES—MINES ET RESSOURCES

INDIAN AFFAIRS—*Con.* — AFFAIRES INDIENNES—*Suite*

Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—*Con.* — Affaires indiennes: Frais d'administration, etc.—*Suite*

INDIAN EDUCATION—*Con.* — INSTRUCTION DES INDIENS—*Suite*

Day Schools — Externats	Teachers — Instituteurs		Janitors, etc. — Con- cierges, etc.	Repairs and addi- tions — Répara- tions, et addi- tions	Supplies and equip- ment — Fourni- tures, et maté- riel	Sun- dries — Divers	Total
	Name — Nom	Salary — Traite- ment					
<i>Manitoba—Conc.</i> <i>—Fin</i>							
Oak River, Sioux	Stapleton, W. H.	\$ 800 00	\$ 50 00		\$ 110 17	\$ 15 49	\$ 975 66
Oxford House	Scoates, A. M.	950 00		\$ 3 47	85 75	78 32	1,117 54
Pas.	Wright, A.	900 00	50 00	43 66	66 62	1 75	1,062 03
Peguis, Centre	Wright, J., 3 m.	270 00					
	Clark, A. L., 7 m.	630 00	35 00	68 80	185 30	38 10	1,227 20
Peguis, North	Eaton, A.	900 00	35 00	23 60	163 45	35 64	1,157 69
Peguis, South	Field, A. C. E.	900 00	35 00	46 15	173 70	35 12	
Bus driver						644 00	1,833 97
Pekangikum	Schultze, R., 96 d.	288 00			158 00		446 00
Pine Bluff	Sicotte, P.	850 00		8 00	30 75	4 80	893 55
Poplar River	Baird, D. M.	950 00	79 00	95 20	159 90	12 08	1,296 18
Red Earth	Lowe, Rev. J. L.	850 00		7 40	61 50	35 56	954 46
Rossville	Smith-Windsor, E.	950 00		25	66 40	27 02	1,043 67
Shoal Lake	Faithful, I. M., 4 m.	260 00					
	Wilde, C. E., 3 m.	225 00			49 00	7 20	541 20
Shoal River	Cooke, Rev. C. E.	800 00					
	Cooke, Mrs.	300 00		2 40	105 01	54 35	1,261 76
Split Lake	Cowley, Rev. G. C., 7 m. to Dec. 31	595 00			40 34	14 50	649 84
Swan Lake	Cooper, Rev. J. E.	1,100 00		15 04	196 11	41 83	1,352 98
Waterhen River	Sr. P. Fuller	810 00		5 60	68 24	13 93	897 77
York Factory	Goldring, F. E., 7 m. to Dec. 31	490 00			49 00		539 00
		40,366 67	1,214 50	1,461 65	5,174 88	2,368 67	60,576 47
<i>Saskatchewan</i>							
Ahtahkakoops	Goodman, E. B.	900 00	18 00	56 20	224 80	15 70	1,214 70
Assiniboine	Hodgson, F. M.	1,000 00	47 00	17 90	202 00	31 05	1,297 95
Big Island Lake	Lirette, J. H.	900 00			119 00	172 05	1,191 05
Big River	Merrett, C.	1,000 00	11 00	126 93	135 13	14 56	1,287 62
Coté	Jamieson, R. M.	950 00					
	Roy, Mrs. R. F.	750 00	100 00	374 70	358 08	148 36	2,681 14
Day Star	Torpey, Rev. R. F.	850 00	50 00	25 13	141 21	38 50	1,104 84
Fishing Lake	Laws, Rev. A. J.	900 00	20 00	18 10	151 25	9 55	1,098 90
Fort à la Corne, N.	McFarlane, A. M.	900 00	30 00	2 34	191 55	24 98	1,148 87
Fort à la Corne, S.	Siddons, A. J.	950 00	30 00	74 30	224 10	48 51	1,326 91
Frog Lake	Peterson, A. E.	1,050 00		69 05	114 75	5 05	1,238 85
John Smith's	Waite, Rev. G. J.	800 00	30 00	18 50	225 28	36 10	1,109 88
Key's	Kerley, W. J. D.	900 00		40 25	200 10	57 45	1,197 80
Little Pines	Armitage, M.	600 00					
	Cunningham, A. L.	900 00	100 00	81 88	361 08	27 55	
Bus driver						158 00	2,228 51
Little Red River	Shaw, H. W., 5 m.	400 00					
	Dey, F. C., 7 m.	595 00		85 40	165 52	40 56	1,286 48
Long Lake	Hebert, C.	900 00	7 00	451 99	121 75	12 75	1,493 49
Ministikwan	Chamberlain, J.	700 00	18 00		89 63		807 03
Mistawasis	Moore, Rev. W. W.	750 00		65 12	150 83	42 37	1,008 34
Montreal Lake	Plunkett, B. T.	850 00		36 35	86 65	20 06	993 06
Red Pheasant	Reynolds, H.	850 00	24 00	338 66	257 15	59 45	
Bus driver						370 00	1,899 26
Round Plains	Meek, Rev. J. G., 7 m.	420 00		12 20		5 65	437 85
Stanley	Spence, A., 3 m., 19 d. to Sept. 19	345 17			61 25	1 00	407 42

DETAILS OF EXPENDITURE—*Con.*—DÉTAIL DES DÉPENSES—*Suite*INDIAN AFFAIRS—*Con.*—AFFAIRES INDIENNES—*Suite*

Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—*Con.*—Affaires indiennes: Frais d'administration, etc.—*Suite*

INDIAN EDUCATION—*Con.*—INSTRUCTION DES INDIENS—*Suite*

Day Schools — Externats	Teachers — Instituteurs		Janitors, etc. — Con- cierges, etc.	Repairs and addi- tions — Répara- tions et addi- tions	Supplies and equip- ment — Fourni- tures et maté- riel	Sun- dries — Divers	Total
	Name — Nom	Salary — Traite- ment					
<i>Saskatchewan—Conc.</i>							
Sturgeon Lake.....	MacDonald, T. E.....	\$ 950 00		\$ 136 83	\$ 172 00	\$ 15 61	\$ 1,274 44
Thunderchild.....	Beanland, K. E.....	850 00	\$ 8 00	32 68	187 65	23 30	1,101 63
White Bear.....	Blair, M. G., 3 m.....	270 00					
	McGregor, M. V., 7 m...	630 00	45 00	20 20	237 45	29 90	1,232 55
White Cap, Sioux.....	Carlin, E.....	900 00		59 85	307 07		1,266 92
		22,760 17	538 00	2,144 66	4,485 30	1,408 06	31,536 09
<i>Alberta</i>							
Morley.....	Bradley, M., 3 m.....	225 00					
	Telfer, J., 7 m.....	525 00					750 00
Sarcee.....	Gibney, Rev. F. M. R.....	1,000 00		83 44		9 77	1,093 21
		1,750 00		83 44		9 77	1,843 21
<i>British Columbia Colombie Britan- nique</i>							
Alert Bay.....	Wickett, W. P.....	900 00	50 00	445 57	224 80	2 40	1,622 77
Bella Bella.....	Perry, F. L., 9 m.....	855 00					
	Swartz, L., 1 m.....	95 00	40 00	8 91	93 85	18 10	1,110 86
Bella Coola.....	Young, R.....	900 00	44 20		36 00	42 60	1,022 80
Boothroyd.....	Blatchford, L.....	950 00	50 06	81 95	71 90	19 72	1,173 57
Campbell River.....	Earle, H.....	850 00	50 00		49 00	19 99	968 99
Cape Mudge.....	Hill, J., 3 m.....	270 00					
	Colwell, Rev. T. C., 7 m.....	630 00	65 00	197 35	82 70	10 76	1,255 81
Chehalis.....	Burns, J. W.....	965 00	50 00		56 00	55 75	1,126 75
Cowichan.....	Neary, B. F., 4 m.....	360 00					
	Sr. M. Alphonsa, 6 m...	540 00	25 00	49 60	36 43	33 25	1,044 28
Fort Babine.....	Moroney, J. J.....	1,100 00	60 00		100 45	186 55	1,447 00
Fort Graham.....	Downing, P. J., 3 m...	272 90				46 85	319 75
Fort McLeod.....	Cormack, G. N., 3 m...	272 90		31 50		59 75	364 15
Gitladamicks.....	Kinby, Rev. S.....	850 00	50 00		45 00	54 45	999 45
Glen Vowell.....	Parkinson, A. F.....	850 00	60 00	198 47	26 63	12 40	1,147 50
Gwinaha.....	Jater, P. A., Apr. 1 to June 5, Sept. 1 to Dec. 31.....	348 33		61 56	42 00	9 70	461 59
Hartley Bay.....	Findlay, J. A.....	950 00	30 00		91 85	11 25	1,083 10
Hazelton.....	Shearman, Rev. B., 7 m.	630 00					
	Stewart, N., 3 m.....	255 00	70 00	1 50	149 70	107 35	1,213 55
Homalce.....	Sowney, W. H.....	950 00	55 00	51 53	106 83	11 03	1,174 39
Katzie.....	Winter, M.....	1,050 00			35 00	5 75	1,090 75
Kincolith.....	Aylwin, E. M.....	1,000 00	50 00	80	98 80	9 16	1,158 76
Kingcome.....	Arrowsmith, P. M.....	750 00	50 00		150 00	6 90	956 90
Kispiox.....	Burchill, Rev. J. T.....	900 00	60 00	147 20	7 50	21 45	1,136 15
Kitamaat.....	Nelson, R.....	750 00	40 00	5 25	115 35	20 14	930 74
Kitkatla.....	Lawrence, Rev. M. H., 3 m.....	270 00					
	Goodreid, Rev. G. H., 7 m.....	630 00	50 00	6 30	102 50	20 65	1,079 45

MINES AND RESOURCES—MINES ET RESSOURCES

INDIAN AFFAIRS—Con. — AFFAIRES INDIENNES—Suite

Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—Con. — Affaires indiennes: Frais d'administration, etc.—Suite

INDIAN EDUCATION—Con. — INSTRUCTION DES INDIENS—Suite

Day Schools — Externats	Teachers — Instituteurs		Janitors, etc. — Con- cierges, etc.	Repairs and addi- tions — Répara- tions et addi- tions	Supplies and equip- ment — Fourni- tures et maté- riel	Sun- dries — Divers	Total
	Name — Nom	Salary — Traite- ment					
<i>British Columbia —Conc.—Colombie Britannique—Fin</i>							
Kitsegukla.....	Bell, I. W., 3 m.....	\$ 285 00					
	Black, Rev. B., 7 m.....	665 00	\$ 64 00	\$ 2 35	\$ 133 47	\$ 8 60	\$ 1,158 42
Kitseles.....	Hewson, A. J., 3 m.....	270 00					
	Kelly, R., 7 m.....	630 00	50 00		60 00	100 00	1,110 00
Kitwanga.....	Flores, Rev. H., 4 m.....	340 00					
	Orn, E. M., 90 d.....	249 52					
	Shearman, Rev. B., 3 m.....	270 00	60 00	19 50	5 00	115 27	1,059 29
Klappan*.....	Bosse, Rev. L., 5 m.....	450 00			421 58	48 30	919 88
Klembie.....	Glover, J. B.....	900 00	40 00		53 80	10 30	1,004 10
Koksilah.....	Creighton, E. H.....	950 00	25 00	11 08	24 69	17 07	1,027 84
Lakalsap.....	Hayhurst, Mrs. N. C.....	900 00					
	Hayhurst, J.....	300 00	50 00	22 45	186 05	25 02	1,483 52
McDame.....	Fitspatrick, E. J., 3 m.....	300 00		27 84		69 20	397 04
Mamalillikulla.....	Bowden, H., Apr. 1 to June 30, Nov. 2 to Dec. 31.....	447 00	40 00		49 00	15 33	551 33
Massett.....	Gibson, E., 7 m.....	630 00					
	Kent, R. M., 3 m.....	300 00					
	Kerr, K. M., 6 m.....	580 00					
	Moon, P., 3 m.....	300 00	57 00	35 12	180 00	34 63	2,116 75
Metlakatla.....	Bryant, T. A.....	1,050 00	50 00	219 99	89 50	27 24	1,436 73
Moberley Lake.....	Gethering, L. M., 4 m.....	360 00		50 00		10 15	420 15
Nanaimo.....	Klippert, E. S.....	1,150 00	50 00	44 71	50 10	28 10	
	Bus driver.....					600 00	1,922 91
Okanagan.....	Kepworth, M.....	900 00	50 00	165 95	145 70	40 80	1,302 45
Osoyoos.....	Walsh, A.....	900 00	50 00	8 45	62 50	16 00	1,036 95
Penticton.....	Weydert, M. E.....	1,000 00		3 10	89 00	22 85	1,114 95
Port Essington.....	Pogson, Mrs. E.....	1,000 00	50 00	4 60	54 00		1,108 60
Port Simpson.....	Horton, R. J.....	900 00					
	Kinley, L. E.....	1,000 00	70 00	57 40	138 50	102 65	2,268 55
Quatsino Bay.....	Hill-Tout, E. A.....	900 00	50 00	40 00	42 00	6 35	1,038 35
Rocher de Boule.....	MacDonald, J.....	900 00	60 00	16 62	75 00	136 75	1,188 37
Saanich.....	Morry, C. B., 3 m.....	270 00					
	Lovick, G. M., 7 m.....	630 00	30 00		15 00	19 21	964 21
Seabird Island.....	Grist, F. G. M.....	900 00	75 00	1 65	45 00	22 00	1,043 65
Seton Lake.....	McLennan, C.....	900 00	100 00		102 00	41 60	1,143 60
Shulus.....	Westaway, D. C.....	900 00	30 00	146 94	60 00	44 96	1,181 90
Skidegate.....	Phillips, E. M., 3 m.....	270 00					
	Vanderveen, C. A., 5 m.....	450 00					
	Weaver, V. F., 9 m.....	810 00	48 00	1 00	165 00	5 20	1,749 20
Skwah.....	Daly, C. O.....	1,000 00	56 00	100 63	104 00	60 40	1,321 03
Skammon.....	Boeur, M.....	950 00	50 00		24 00	35 94	1,059 94
Smith's Inlet.....					63 75	35 55	99 30
Songhees.....	Burt, M., 3 m.....	240 00					
	Hughes, M. T., 7 m.....	560 00	25 00	23 08	14 00	13 51	875 59
Squamish.....	Sr. Mary Amy.....	750 00			65 00	4 95	819 95
Tahltan.....	Thorman, W. P., 5 m.....	450 00				35 90	485 90
Telegraph Creek.....					13 75	4 00	17 75
Ucuelet.....	Storch, C.....	900 00			127 50	35 97	1,063 47
		47,950 65	2,179 20	2,289 95	4,381 18	2,579 75	59,380 73

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

INDIAN AFFAIRS—Con. — AFFAIRES INDIENNES—Suite

Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—Con. — Affaires indiennes: Frais d'administration, etc.—Suite

INDIAN EDUCATION—Conc. — INSTRUCTION DES INDIENS—Fin

Day Schools — Externats	Teachers — Instituteurs		Janitors, etc. — Con- cierges, etc.	Repairs and addi- tions — Répara- tions et addi- tions	Supplies and equip- ment — Fourni- tures et maté- riel	Sun- dries — Divers	Total
	Name — Nom	Salary — Traite- ment					
<i>Northwest Territories — Territoires du Nord-Ouest</i>							
Fort McPherson...	Greenwood, Rev. T., 4½ m.....	\$ 112 50					\$ 112 50
Fort Simpson, C.E.	Cook, Rev. H. G., 1 m.....	65 00					65 00
Fort Simpson, R.C.	Sr. Gadbois, 3 m.....	195 00			\$ 100 00	\$ 80	750 80
	Sr. Gamache, 7 m.....	455 00				1 25	651 25
Fort Smith.....	Sr. O. Lavoie.....	650 00			100 00	2 05	1,579 55
		1,477 50					
<i>Yukon</i>							
Champagne Landing.....	Stringer, U. R., 125 d.....	207 00					207 00
Fort Selkirk.....	Valentine, Rev. W., 3 m.....	300 00					
	Ward, Rev. R. C. W., 7 m.....	700 00					1,000 00
Little Salmon.....	Herron, M. A., 42 d.....	126 00					126 00
Mooselide.....	Anderson, Rev. A.....	1,100 00					1,100 00
Old Crow.....	McCabe, M. E., 6 m.....	420 00				4 25	424 25
Tislin Lake.....	Loat, C. J., 47 d.....	141 00					141 00
		2,994 00				4 25	2,998 25
		256,049 28	\$15,323 50	\$13,022 00	32,604 95	13,433 32	330,433 05

* New schools established by Order-in-Council — Nouvelles écoles établies par Arrêté en conseil.

General Expenditure — Dépenses en général

School Inspections:—Nova Scotia, \$127.50, travel, \$44.12; New Brunswick, inspector of schools, Rev. F. C. Ryan, \$600, travel, \$201.12; Quebec, \$435, travel, \$73.17; Ontario, \$3,435; Manitoba, \$412.50, travel, \$51.35; Saskatchewan, \$785; Alberta, \$475; British Columbia, inspector of schools, G. H. Barry, \$2,223, travel, \$1,143.37	10,006 13
Tuition:—Maintenance and tuition of Indian pupils at colleges, institutions and white day schools.....	23,830 51
Stationery:—King's Printer, supplies for all schools.....	40,006 36
Miscellaneous:—Services and travel, T. J. Arnall, \$126.55; assistance to ex-pupils, \$2,167.68; brushes, \$110.25; clothing, \$100.97; school books, \$336.33; sundries, \$155.61; freight and express, \$243.78.....	3,241 17
Adjustments:—Surveys and Engineering Branch (Page L—95), \$24,038.83 less \$22,508.31 charged to B.C. Special Grant; Royal Canadian Mounted Police, travel, \$457.22; outstanding advance to be accounted for in 1937-38, E. McPherson, \$108; overpayment of salary, W. Stead, \$240.....	2,335 74

(Page L—52) \$ 79,419 91

MINES AND RESOURCES—MINES ET RESSOURCES

INDIAN AFFAIRS—*Con.* — AFFAIRES INDIENNES—*Suite*

Votes — Crédits 166, 378† & 491 — Expenses connected with the administration, etc., of Indian Affairs—*Conc.* — Affaires indiennes: Frais d'administration, etc.—*Fin*

Classification: Votes — Crédits 166, 378† & 491 (Pages L 52-84):—

Salaries and Wages:	
Ottawa	9,123 20
Outside	867,105 47
Travelling Expenses	106,156 50
Materials, Supplies and Repairs, etc.:—	
General	374,433 79
New Autos and Auto Repairs, etc.	21,272 43
Printing and Stationery	49,504 55
Miscellaneous	715,142 10
Loans, Grants, Subsidies, etc.	1,288,675 26
Other Outlay	989,435 64
Adjustments	77,206 46
	\$4,498,055 40

Under Statute — Statutaire — Indian Annuities — Annuités payées aux Indiens

Agencies — Agences	Chiefs — Chefs \$25.00	Head- men — Direct- eurs \$15.00	Indians — Indiens \$5.00	Enfran- chisement — Natura- lisation \$100.00	Commun- tation — \$50.00	Arrears — Arriérés	Total
Battleford	11	15	2,228		1	\$ 335 00	\$ 12,025 00
Birtle	3	4	498		1	5 00	2,680 00
Blackfoot	1	8	795				4,120 00
Blood	1	6	1,337				6,800 00
Carlton	7	15	2,304			25 00	11,945 00
Claudeboye	12	26	3,250	1	8	50 00	17,490 00
Crooked Lake	5	7	1,142			5 00	5,945 00
Duck Lake	2	1	1,000				5,065 00
Edmonton	4	6	831		1	5 00	4,400 00
File Hills	3		492	3			2,835 00
Fisher River	2	9	1,619	5	6	140 00	9,220 00
Fort Churchill	1	2	206			5 00	1,090 00
Fort Frances	12	22	851		2	5 00	4,990 00
Fort Good Hope	3	7	825		1	55 00	4,410 00
Fort Resolution	6	14	1,671				8,715 00
Fort St. John	4	3	327			10 00	1,790 00
Fort Simpson	4	10	1,163			20 00	6,085 00
Fort Smith	4	10	1,456			155 00	7,685 00
Hobbema	3	6	1,110		1		5,765 00
Kenora	10	17	1,249			35 00	6,785 00
Lesser Slave Lake	11	19	2,898		6	165 00	15,515 00
Norway House	5	15	3,114	1	4	15 00	16,235 00
Onion Lake	7	14	1,296			5 00	6,870 00
Pas	11	28	3,395	6	18	15 00	19,185 00
Peigan	1	4	447				2,320 00
Pelly	4	6	802				4,200 00
Portage la Prairie	9	23	2,554	1	7		13,790 00
Qu'Appelle	1	4	802		1		4,145 00
Saddle Lake	2	7	1,045			5 00	5,385 00
Surcee	1		160				825 00

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

INDIAN AFFAIRS—Conc. — AFFAIRES INDIENNES—Fin

Under Statute — Statutaire — Indian Annuities—Conc. — Annuités payées aux Indiens—Fin

Agencies Agences	Chiefs Chefs \$25.00	Head- men Dirce- teurs \$15.00	Indians Indiens \$5.00	Enfran- chisement Natali- sation \$100.00	Comm- tation \$50.00	Arrears Arriérés	Total
Savanne.....	5	13	1,240			\$ 120 00	\$ 6,640 00
Stony.....	3	5	697				3,635 00
Touchwood.....	5	8	1,223				6,360 00
York Factory.....	1	4	416			85 00	2,250 00
Temiskaming, Indians at \$4.....			44,443 99			8 00	404 00
	164	338	44,542	17	57	1,268 00	237,599 00
Treaty 9: Annuities.....							20,548 00
Robinson Treaty: Grant of account on Robinson Treaty transferred to Trust Account No. 26.....							7,500 00
							265,647 00
Loss—Treaty 9 Annuities refunded by Province of Ontario, \$20,544; 1935-36 unclaimed annuity, Fort Good Hope Agency, \$40.....							20,584 00
							245,063 00

**Under Statute — Statutaire — Exchequer Court awards — Jugements
adjudicatifs de la cour de l'Échiquier**

<i>Other Outlay—Autres déboursés:—Geo. Dreaver et al. (Mistawasis Band), award, credited to Trust Account 304.....</i>	\$ 15,580 51
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GOVERNMENT OF THE NORTHWEST TERRITORIES*
ADMINISTRATION DES TERRITOIRES DU NORD-OUEST

Votes — Crédits 169 & 493 — Salaries and Expenses — Traitements et dépenses

HEAD OFFICE — ADMINISTRATION CENTRALE

<i>Salaries and Wages — Traitements et salaires:—Ottawa..... (Page L-25)</i>	16,405 46
<i>Travelling Expenses — Frais de voyages:—A. Norquay, \$229.24; J. L. Turner, \$18.20</i>	247 44
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:—</i>	
Photographic supplies, \$720.98; sundries, \$198.01.....	918 99
<i>Printing and Stationery — Impressions et papeterie:—King's Printer, supplies....</i>	1,211 85
<i>Miscellaneous — Divers:—Commissions on fur sold, \$139.23; express and freight, \$348.47; telegraph and radio messages, \$434.57; sundries, \$110.71.....</i>	1,032 98
<i>Other Outlay — Autres déboursés:—Wolf bounties.....</i>	1,395 00
	21,211 72

HOSPITALS — HÔPITAUX

<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:—</i>	
Telephone batteries, receiver, etc.....	15 00
<i>Loans, Grants, Subsidies, etc.—Prêts, allocations, subventions, etc.:—Contribution toward building Anglican Mission Hospital, Aklavik, destroyed by fire, \$10,000 (O.C. Aug. 1/37); treatment and maintenance of destitute: Aklavik, All Saints Mission, \$797.50, Roman Catholic Mission, \$5,185; Chesterfield, Ste. Therese's, \$5,297.50; Fort Simpson, Ste. Marguerite, \$370; Fort Smith, Roman Catholic General Hospital, \$1,230.50; Hay River, St. Peter's, \$1,910; Pangnirtung, Church of England, \$4,162.50.....</i>	28,953 00
	28,968 00

* Charged in previous years to Interior Department — Inklus les années précédentes dans le Ministère de l'Intérieur.

MINES AND RESOURCES—MINES ET RESSOURCES

GOVERNMENT OF THE NORTHWEST TERRITORIES—*Con.*
ADMINISTRATION DES TERRITOIRES DU NORD-OUEST—*Suite*

Votes — Crédits 169 & 493 — Salaries and Expenses—*Con.* — Traitements et dépenses—*Suite*

MEDICAL SERVICES—SERVICES MÉDICAUX

<i>Salaries and Wages—Traitements et salaires:</i> —Medical officers: Dr. J. Amyot, \$570; Dr. G. F. Homer, Aug. 10 to Mar. 31, \$1,538.08; Dr. L. D. Livingstone, to Feb. 28 less 12½ days, \$2,907.51; Dr. A. G. MacKinnon, to Feb. 14, \$2,087.63; Dr. N. M. McArthur, July 9 to Sept. 1, \$365.81; Dr. T. Melling, Sept. 9 to Mar. 31, \$1,343.30; Dr. J. M. Morrow, \$2,622; Dr. T. J. Orford, July 21 to Mar. 31, \$1,666.79; Dr. N. J. Thomson, \$199.92; Dr. W. A. M. Truesdell, \$570; Dr. J. A. Urquhart, \$2,736, living allowance, \$1,500; nurses: M. L. Dupont, \$1,080; F. L. Giles, Sept. 19 to Mar. 31, \$576; A. Heroux, \$1,080; E. P. Hockin to Jan. 7, \$827.42; M. Lachambre, \$1,080; M. Nadeau, \$1,080; M. A. Solomon, to May 26, \$165.48; G. D. Somers, \$1,080; interpreter, \$1,235; sundry labour, \$545.33.....	26,856 27
<i>Travelling Expenses—Frais de voyages:</i> —Dr. G. F. Homer, \$287.15; Dr. L. D. Livingstone, \$40; Dr. N. M. McArthur, \$142.90.....	470 05
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Department of Pensions and National Health, medical supplies, \$1,091.60; Hudson's Bay Co., provisions and supplies, \$4,134.43; Western Grocers, Ltd., Edmonton, provisions, \$1,037.78; accounts under \$1,000; coal, \$287.50; electrical supplies, \$309.88; gasoline and oil, \$904.83; hardware and building supplies, \$346.61; medical and optical supplies, \$516.49; nets, \$106.65; photographic supplies, \$177.13; provisions, \$1,242.52; radio, \$150.30; scow, \$250; sundries, \$232.72.....	10,788 44
<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies,....	133 13
<i>Miscellaneous—Divers:</i> —Express and freight, \$572.28; launching and storing boat, \$125; removal expenses: Dr. L. D. Livingstone, \$310.65 (O.C. Mar. 18/37); Dr. A. G. MacKinnon, \$505.61 (O.C. Mar. 18/37); Dr. T. Melling, \$924.90 (O.C. Mar. 18/37); Dr. T. J. Orford, \$224.20 (O.C. Feb. 10/37); rentals, \$135; room and board, \$168; sundries, \$159.64.....	3,425 28 41,673 17

SCHOOLS—ÉCOLES

<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Anglican school for Eskimos at Aklavik, equipment and supplies,.....	2,177 22
<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies,....	121 97
<i>Loans, Grants, Subsidies, etc.—Prêts, allocations, subventions, etc.:</i> —Anglican schools: Aklavik, \$200, Baker Lake, \$62.50, Eskimo Point, \$125, Fort McPherson, \$50, Fort Simpson, \$150, Fort Smith, \$375, Hay River, \$200, Lake Harbour, \$62.50, Pangnirtung, \$187.50; Roman Catholic schools: Aklavik, \$400, Fort Providence, \$400, Fort Resolution, \$300, Fort Simpson, \$150, Fort Smith, \$375,....	3,037 50 5,336 69

DISTRICT OFFICE—BUREAU REGIONAL: FORT SMITH

<i>Salaries and Wages—Traitements et salaires:</i> District agent, A. L. Cumming, to Nov. 30, \$2,166, living allowance, \$800 (transferred to Ottawa); clerks: N. W. Champagne, \$1,824, living allowance, \$1,500, W. J. Taylor, \$271; labourers, etc., \$1,305.21.....	7,866 21
<i>Travelling Expenses—Frais de voyages:</i> —A. L. Cumming,.....	485 71
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Electrical supplies, \$108.38; gasoline and oil, \$333.37; hardware and building supplies, \$341.38; life buoys, \$134.14; wood, \$531.50; sundries, \$283.46.....	1,732 23
<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies,....	199 34
<i>Miscellaneous—Divers:</i> —Express and freight, \$399.29; hospital treatment and burial expenses, \$60.35; postage, \$303.48; telegraph and radio messages, \$24.27; sundries, \$106.25.....	893 64 11,177 13

WOOD BUFFALO PARK—PARC AUX BISONS DE WOOD

<i>Salaries and Wages—Traitements et salaires:</i> —Wardens: R. J. Allan, \$951.06; M. J. Dempsey, \$1,635.12; F. C. Dent, \$900; W. J. Taylor, \$585; machinist, C. H. Cooper, \$1,020; labourers, etc., \$4,904.23.....	9,995 41
<i>Travelling Expenses—Frais de voyages:</i> —Sundry travel,.....	51 00
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Campbell Wilson and Horne, Ltd., Edmonton, provisions, \$2,381.35; Marshall Wells, Ltd., Edmonton, hardware, \$1,306.08; North Star Oil Co., gasoline and	

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

GOVERNMENT OF THE NORTHWEST TERRITORIES—Con.
ADMINISTRATION DES TERRITOIRES DU NORD-OUEST—Suite

Votes — Crédits 169 & 493 — Salaries and Expenses—Con. — Traitements et dépenses—Suite

WOOD BUFFALO PARK—Conc. — PARC AUX BISONS DE WOOD—Fin

<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.—</i> Fin oil, \$1,092.62; Swift Canadian Ltd., Edmonton, provisions, \$1,224.84; accounts under \$1,000: fodder, \$443.60; gasoline engine, \$433.35; hardware and building supplies, \$1,533.43; harness and sleighs, \$367.30; meals and provisions, \$1,979.74; nets and twine, \$216.08; skiff, \$70; tents and camp equipment, \$397.06; wagon, \$188.92; sundries, \$473.23	12,107 60
<i>Printing and Stationery — Impressions et papeterie:—</i> King's Printer, supplies.	3 15
<i>Miscellaneous — Divers:—</i> Hudson's Bay Co., transportation and freight, \$1,215.98; accounts under \$1,000: express and freight, \$529.79; sundries, \$49.85.	1,795 62 23,952 78

REINDEER STATION — RENNES

<i>Salaries and Wages — Traitements et salaires:—</i> Botanist, A. E. Porsild, \$2,394; assistant superintendent of reindeer, H. W. Nesbitt to Oct. 27, \$1,299.35; herders: M. N. Hatta, \$300, W. E. Hogan, \$883.19; M. N. Pulk, \$720; A. Tornensis, \$720; labour foreman, J. A. Parsons, July 16 to Mar. 31, \$1,213.55; labourers, \$6,528.73	14,058 82
<i>Travelling Expenses — Frais de voyages:—</i> W. E. Hogan, \$387.50; H. W. Nesbitt, \$564.75	952 25
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:—</i> Ashdown Hardware Ltd., Edmonton, hardware, \$1,285.85; Hayward Lumber Co., Edmonton, lumber, \$1,861.49; MacDonald's Consolidated, Edmonton, provisions, \$1,764.47; Northern Whaling and Trading Co., New York, whale boat, \$1,625; accounts under \$1,000: camp equipment, \$297.85; coal, \$703.55; dogs, \$160; dog feed, \$165; gasoline and oil, \$1,027.49; hardware and building supplies, \$1,485.62; motor and equipment, \$378.72; nets, \$113.14; provisions, \$1,107.23; scow, \$70; sundries, \$282.03.	12,327 44
<i>Printing and Stationery — Impressions et papeterie:—</i> King's Printer, supplies.	105 84
<i>Miscellaneous — Divers:—</i> Hudson's Bay Co., transportation and freight, \$2,497.45; accounts under \$1,000: freight, \$62.43, removal expenses, M. N. Hatta, \$790 (O.C. Oct. 8/36); sundries, \$16.35.	3,366 23
<i>Other Outlay — Autres déboursés:—</i> Northwest Livestock Corporation and Arthur J. Baldwin, assignee, 12 reindeer (strayed) at \$65, allowance for dogs and sleds taken over with reindeer herd, \$670; bonus to herders for reindeer fawns counted and marked at annual round-up, \$468.	1,918 00 32,728 58

RELIEF TO DESTITUTES — SECOURS AUX INDIGENTS

<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:—</i> Hudson's Bay Co., provisions and supplies, \$7,107.13; accounts under \$1,000: provisions, \$919.07; wood, \$12	8,038 20
<i>Miscellaneous — Divers:—</i> Royal Canadian Mounted Police, maintenance of prisoners, \$1,606.74; accounts under \$1,000: burial expenses, \$100; freight and transportation, \$567.46; hospital treatment and maintenance, \$1,514.63; sundries, \$7.81	3,796 64
<i>Loans, Grants, Subsidies, etc.—Prêts, allocations, subventions, etc.:—</i> Provincial Mental Hospital, Ponoka, \$579; maintenance of destitute children at Residential Schools: Anglican Missions: Hay River, \$631.45, Shingle Point, \$1,450; Roman Catholic Missions: Aklavik, \$2,206.83, Fort Providence, \$1,168.55, Fort Resolution, \$2,335.97	8,371 80 20,206 64

ARCTIC EXPEDITION — EXPÉDITION ARCTIQUE

<i>Travelling Expenses — Frais de voyages:—</i> D. L. McKeand.	71 55
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:—</i> Liquor and medical supplies, \$106.95; sundries, \$15.26.	122 21
<i>Miscellaneous — Divers:—</i> Hudson's Bay Co., transport of personnel and supplies to the Eastern Arctic, \$23,000; accounts under \$1,000: express, \$4.59; gratuities to stewards, etc., \$95; radio messages, \$796.54.	23,896 13 24,089 89

MINES AND RESOURCES—MINES ET RESSOURCES

GOVERNMENT OF THE NORTHWEST TERRITORIES—*Conc.*
ADMINISTRATION DES TERRITOIRES DU NORD-OUEST—*Fin*Votes—Crédits 169 & 493—Salaries and Expenses—*Conc.*—Traitements et dépenses—*Fin*

GENERAL—EN GÉNÉRAL

<i>Adjustments—Ajustements:</i> —Balance outstanding from previous years, late Dr.	
W. M. Wilkinson	84 45
	<u>209,429 05</u>
Less—Outstanding balance, Dr. W. M. Wilkinson	84 45
	<u>\$ 209,344 60</u>
Classified as follows—Classifiées comme suit:—	
Salaries and Wages—	
Ottawa	16,405 46
Outside	59,211 71
Travelling Expenses	2,278 00
Materials, Supplies, Repairs, etc.	47,792 33
Printing and Stationery	1,775 28
Miscellaneous	38,206 52
Loans, Grants, Subsidies, etc.	40,362 30
Other Outlay	3,313 00
	<u>\$ 209,344 60</u>

GOVERNMENT OF THE YUKON TERRITORY—GOUVERNEMENT DU YUKON

Vote—Crédit 171—Salaries and Expenses—Traitements et dépenses

<i>Salaries and Wages—Traitements et salaires:</i> —Dawson: comptroller, G. A. Jeckell, \$2,679, living allowance, \$1,500; surveys engineer, H. G. Dickson (part time), \$1,200; legal adviser, C. E. McLeod, \$475; mining recorders, L. S. Kingston, \$190, G. Reid, \$38.50, D. Withers, \$95; clerks: F. G. Berton, \$1,539, living allowance, \$1,500; A. Coldrick, \$1,026, living allowance, \$1,500; V. Faulkner, \$1,539, living allowance, \$1,200; M. Gillespie, \$285; R. L. Gillespie, \$1,724, living allowance, \$1,200; C. Grant, \$570; S. Wood, Nov. 30 to Mar. 31, \$440.64, living allowance, \$504.17; sundry labour, \$660.21		19,865 52
<i>Travelling Expenses—Frais de voyages:</i> —G. A. Jeckell, \$1,738.17; R. Rosmussen, \$20		1,758 17
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Auto repairs and renewals, \$35.50; gasoline and oil, \$210.50; provisions, \$133.49; repairs to typewriters, \$133.90; sundries, \$32.60		595 99
<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies		859 77
<i>Miscellaneous—Divers:</i> —Expenses in connection with insane: Provincial Mental Hospitals at Essondale and New Westminster, \$10,457, clothing and funerals, \$905.94; accounts under \$1,000: advertising, \$973; auto storage, \$45; commissions on collections, \$1,123.91; express and freight, \$217.55; car and horse hire, \$157; postage, \$122; government officer's guarantee fund, \$39; subscriptions, \$17; telegrams and radio messages, \$95.14; telephone services: Dawson, \$570, Mayo, \$93.25; sundries, \$73		14,893 79
<i>Adjustments—Ajustements:</i> —Outstanding advance, S. M. Wood		40 00
	<u>\$ 38,013 24</u>	

Vote—Crédit 171—Grants—Subventions

<i>Loans, Grants, Subsidies, etc.—Prêts, allocations, subventions, etc.:</i> —Grant to Yukon Council for local purposes, the construction and maintenance of roads . . . \$	<u>70,000 00</u>
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DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

DOMINION LANDS AND PARKS — DOMAINE ET PARCS DE L'ÉTAT *

Vote — Cr dit 172 — Dominion Lands: Seed Grain and Ordnance, Admiralty and Public Lands, Salaries and Expenses — Domaine de l' tat: Grains de semences, terres domaniales, militaires, de l'Amiraut , publiques: Traitements et d penses

DOMINION LANDS — DOMAINE DE L' TAT

<i>Salaries and Wages — Traitements et salaires:</i> —Ottawa (Page L—25), \$22,143; Edmonton: agent, A. Norquay, \$3,192, clerk, F. M. B. Cottingham, \$1,539; Regina: agent, J. A. Reid, \$3,192, stenographer, D. L. Hawkey, \$1,311; Revelstoke: agent, T. J. Wadman, to Aug. 11, \$992.90 (retired); Winnipeg: inspector, J. F. Drew, to Aug. 31, \$608 (retired); labourers, etc., \$381.72.....	33,359 62
<i>Travelling Expenses — Frais de voyages:</i> —D. B. Gow.....	7 00
<i>Materials, Supplies, Repairs, etc. — Mat�riel, fournitures, r�parations, etc.:</i> —Bedding, \$50.35; hardware and lumber, \$85.80; sundries, \$74.59.....	210 74
<i>Printing and Stationery — Impressions et papeterie:</i> —King's Printer, supplies....	1,214 06
<i>Miscellaneous — Divers:</i> —Car tickets, \$19; express and freight, \$25.84; postage, \$79; subscriptions and memberships, \$28; telephone and telegrams, \$157.68; sundries, \$65.48.....	375 00
	<u>35,166 42</u>

MINING LANDS — TERRAINS MINIERS

<i>Salaries and Wages — Traitements et salaires:</i> —Ottawa (Page L—25), \$7,329; Calgary, petrol engineer, F. M. Steel, \$3,591, less \$1,795.50 paid by Indian Affairs Branch; Cameron Bay min. insp., April 1 to Nov. 30, M. Meikle, \$2,090, living allowance, \$1,000, clerk, J. H. Davies, \$225; Fort Smith, agent, Dec. 1 to Mar. 31, M. Meikle, \$1,045, living allowance, \$500, dept. acct., P. E. Trudel, \$2,109, living allowance, \$1,200; labourers, etc., \$226.82.....	17,520 32
<i>Travelling Expenses — Frais de voyages:</i> —F. M. Steel.....	16 95
<i>Materials, Supplies, Repairs, etc. — Mat�riel, fournitures, r�parations, etc.:</i> —Binoculars, \$215.30; photographic supplies, \$625.27; wood, \$387.75; sundries, \$196.70.....	1,425 02
<i>Printing and Stationery — Impressions et papeterie:</i> —King's Printer, supplies....	168 97
<i>Miscellaneous — Divers:</i> —Express and freight, \$67.95; removal expenses, M. Meikle, \$507.46 (P.C. Jan. 28/37); telegrams and telephone, \$17.08; sundries, \$23.35....	615 84
	<u>19,747 10</u>

ORDNANCE LANDS — TERRAINS MILITAIRES

<i>Salaries and Wages — Traitements et salaires:</i> —Ottawa (Page L—25), \$10,203; caretakers (part time): J. Adcock, Tenby Bay, \$24.96; J. Ferris, Normandale, \$24.96; R. Harris, Tenby Bay, \$4.25; P. Jacobs, Tenby Bay, \$16.26; D. Ross, Point Edward, \$199.92; labourers, etc., \$470.22.....	10,945 57
<i>Travelling Expenses — Frais de voyages:</i> —D. E. Chartrand, \$23.15; J. H. McKnight, \$171.29; C. Rinfret, \$145.66.....	340 10
<i>Materials, Supplies, Repairs, etc. — Mat�riel, fournitures, r�parations, etc.:</i> —Auto repairs and renewals, \$217.56; first aid kit, \$37.69; gasoline and oil, \$83.25; photographic supplies, \$154.56; sundries, \$246.36.....	739 42
<i>Printing and Stationery — Impressions et papeterie:</i> —King's Printer, supplies....	64 78
<i>Miscellaneous — Divers:</i> —Land Surveyor's fees, \$27; taxes, \$1,339.08; sundries, \$62.85.....	1,428 93
	<u>13,518 80</u>

JOINT RELIEF — SECOURS EN COMMUN

<i>Miscellaneous — Divers:</i> —Province of Alberta, share of cost of collecting joint relief to March 31, 1935.....	547 00
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GENERAL — EN G N RAL

<i>Adjustments — Ajustements:</i> —Outstanding advances from previous years not accounted for: A. Baptie, \$25.50; A. W. Brooke, \$11.75; W. Collie, \$9.81; H. M. Daly, \$138.83; D. C. McNab, \$19.60; A. Reid, \$20.05; D. J. Rose, \$8.41; J. H. Stewart, \$3.25.....	237 20
	<u>69,216 52</u>
<i>Less</i> —Outstanding balances as shown above.....	<u>237 20</u>
	<u>\$ 68,979 32</u>

* Charged in previous years to Interior Department — Includs les ann es pr c dentes dans le Minist re de l'Int rieur.

MINES AND RESOURCES—MINES ET RESSOURCES

DOMINION LANDS AND PARKS—*Con.*—DOMAINE ET PARCS DE L'ÉTAT—*Suite*

Vote — Crédit 172 — Dominion Lands: Seed Grain and Ordnance, Admiralty and Public Lands, Salaries and Expenses—*Conc.* — Domaine de l'État: Grains de semences, terres domaniales, militaires, de l'Amirauté, publiques: Traitements et dépenses—*Fin*

Classified as follows—Classifiées comme suit:—

Salaries and Wages—	
Ottawa.	39,675 00
Outside.	22,150 51
Travelling Expenses.	361 05
Materials, Supplies, Repairs, etc.—	
General.	2,157 62
Auto repairs and renewals.	217 56
Printing and Stationery.	1,447 81
Miscellaneous.	2,966 77
	\$ 68,979 32

Vote — Crédit 172 — Advancement of Forest Conservation — Encouragement à la conservation des forêts

HEAD OFFICE — ADMINISTRATION CENTRALE

<i>Salaries and Wages — Traitements et salaires:</i> —Ottawa (Page L—25), \$55,761.08; sundry labour, \$319.	56,080 08
<i>Travelling Expenses — Frais de voyages:</i> —H. W. Beall, \$49.49; D. R. Cameron, 616.94; R. D. Craig, \$136.36; A. Gorman, \$91.05; J. D. B. Harrison, \$140.96; C. C. Heimburger, \$114.83; D. A. Macdonald, \$513.60; G. A. Mulloy, \$49.37; W. M. Robertson, \$177.36; H. E. Seely, \$36.13; R. M. Watt, \$90.02; J. G. Wright, \$140.40; sundry, \$39.99.	2,196 50
<i>Materials, Supplies, Repairs, etc. — Matériel, fournitures, réparations, etc.:</i> —Gasoline and oil, \$37.04; instruments, \$132.40; laboratory supplies, \$141.61; photographic and blue print supplies, \$613.48; repairs, \$142.14; sundries, \$81.78.	1,148 45
<i>Printing and Stationery — Impressions et papeterie:</i> —King's Printer, supplies.	4,222 44
<i>Miscellaneous — Divers:</i> —Customs brokerage, \$59.40; express, freight and cartage, \$114.86; subscriptions and fees, \$272.86; telegrams and telephones, \$480.62; sundries, \$23.43.	951 17
	64,598 64

EXPERIMENTAL STATION, PETAWAWA — STATION D'EXPÉRIMENTATION DE PETAWAWA

<i>Salaries and Wages — Traitements et salaires:</i> —Forestry engs., R. H. Candy, \$2,565; C. C. Heimburger, 8 m. at \$1,368, 4 m. at \$1,710; forest assts., A. L. Best, 8 m. at \$1,368 (transferred to Prairies District), G. Clarkson, \$2,052; R. W. Pouliotte, \$2,052; asst. in forest and laboratory research, J. W. B. Sisam, \$1,368; draughtsman, L. G. Francis, \$1,710; auto mechanic, L. Reynolds, \$1,338.25; labour foreman, I. Clouthier, \$1,172.20; cooks and cookees, \$658.48; labourers, \$4,860.83; towermen, \$968.90.	21,139 66
<i>Travelling Expenses — Frais de voyages:</i> —E. Druce, \$33.65; C. C. Heimburger, \$34.80; sundry, \$46.05.	114 50
<i>Materials, Supplies, Repairs, etc. — Matériel, fournitures, réparations, etc.:</i> —Payette and Godin, Pembroke, Ont., provisions, \$1,078.48; accounts under \$1,000; auto repairs and renewals, \$549.30; boats and boat supplies, \$100; building supplies and hardware, \$519.19; electrical and telephone supplies, \$135.35; gasoline and oil, \$825.99; laboratory supplies, \$55.56; machinery, \$102; photographic supplies, \$27.76; provisions, \$475.84; repairs, \$56.84; sundries, \$70.38.	3,996 69
<i>Printing and Stationery — Impressions et papeterie:</i> —King's Printer, supplies.	81 59
<i>Miscellaneous — Divers:</i> —Board and lodging, \$27.75; express, freight and cartage, \$75.58; fire patrol, \$63.73; postage, \$23.69; sawing lumber, \$34.46; sundries, \$53.38.	278 59
	25,611 03

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

DOMINION LANDS AND PARKS—Con.—DOMAINE ET PARCS DE L'ÉTAT—Suite

Vote—Crédit 172—Advancement of Forest Conservation—Con.—Encouragement à la conservation des forêts—Suite

QUEBEC DISTRICT—RÉGION DU QUÉBEC

<i>Salaries and Wages—Traitements et salaires:</i> —Forestry engs., J. D. B. MacFarlane, 4 m. to Mar. 31, at \$2,109; R. G. Ray, 8 m. at \$1,368, 4 m. at \$1,710; labour, \$308.30.	2,493 30
<i>Travelling Expenses—Frais de voyages:</i> —R. G. Ray, \$30.66; sundry, \$18.70.	49 36
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Auto repairs and renewals, \$186.38; building supplies and hardware, \$95.52; fire hose, \$49.24; gasoline and oil, \$179.63; sundries, \$39.97.	550 74
<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies.	49 43
<i>Miscellaneous—Divers:</i> —Legal services, \$36.95; sundries, \$56.46.	92 41
<i>Other Outlay—Autres déboursés:</i> —Purchase of cottage (O.C. May 28/36).	325 00
	3,561 24

MARITIMES DISTRICT—RÉGION DES PROVINCES MARITIMES

<i>Salaries and Wages—Traitements et salaires:</i> —Forestry engs.: J. C. Veness, \$2,565; M. B. Morrison, \$2,052; asst. in forest survey, J. E. Corbett, 2 m. to May 31 at \$1,440; asst. in forest and laboratory research, J. E. Whittaker, Sept. 15 to Mar. 31 at \$1,368; labourers, \$813.58.	6,415 38
<i>Travelling Expenses—Frais de voyages:</i> —M. B. Morrison, \$366.21; J. C. Veness, \$99.15.	465 36
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Auto repairs and renewals, \$747.20; building supplies and hardware, \$129.77; fire hose, \$186.56; gasoline and oil, \$781.14; photographic supplies, \$22.01; seed, \$33.63; sundries, \$31.46.	1,931 77
<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies.	73 48
<i>Miscellaneous—Divers:</i> —Board and lodging, \$27.35; express, freight and cartage, \$90.99; garage rent, \$85.33; postage, \$36; telegrams and telephones, \$112.13; sundries, \$19.15.	370 95
	9,256 94

PRAIRIES DISTRICT—RÉGION DES PRAIRIES

<i>Salaries and Wages—Traitements et salaires:</i> —Forestry engs.: F. Tunstell \$3,135; H. L. Holman, \$3,135; H. A. De Veber, \$2,565; W. E. D. Halliday, \$2,337; J. L. McLenahan, \$1,710; R. M. Watt, 4 m. to Mar. 31 at \$2,109; assts. in forest and laboratory research, A. L. Best, 4 m. to Mar. 31 at \$1,368 (transferred from Petawawa); H. A. Parker, 4 m. to Mar. 31 at \$1,368; stens., L. V. Allingham, 4 m. to Mar. 31 at \$1,254; O. E. Blackburn, \$1,200; labour, \$1,372.71.	17,487 71
<i>Travelling Expenses—Frais de voyages:</i> —G. Tunstell, \$233.70; R. M. Watt, \$183.64; sundry, \$20.60.	437 94
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Auto repairs and renewals, \$539.37; building supplies and hardware, \$421.94; farm implements, \$191.06; fire hose, \$371.38; gasoline and oil, \$862.85; ice, \$100; photographic supplies, \$23.42; provisions, \$349.93; repairs, \$96.02; sundries, \$56.91.	3,012 88
<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies.	170 39
<i>Miscellaneous—Divers:</i> —Advertising, \$250.29; board and lodging, \$84.75; express, freight and cartage, \$248.12; garage rent, \$60; livery, \$82.20; postage, \$80.15; removal expenses of A. L. Best from Petawawa, Ont., to Winnipeg, Man., \$187.22; subscriptions and fees, \$92.37; telegrams and telephones, \$542.27; sundries, \$30.09.	1,657 46
	22,766 38

BRITISH COLUMBIA DISTRICT—RÉGION DE LA COLOMBIE BRITANNIQUE

<i>Salaries and Wages—Traitements et salaires:</i> —Chief forestry eng., C. MacFayden, \$3,819; supervisor of fire ranging, E. G. Saunders, \$2,565; clerk, A. Thiselton, \$1,539; labour, \$1,505.25.	9,428 25
<i>Travelling Expenses—Frais de voyages:</i> —C. MacFayden, \$179.98; E. G. Saunders, \$34.65.	214 63
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Auto repairs and renewals, \$61.17; fire hose, \$98.49; fuel, \$119; gasoline and oil, \$69.01; hardware, \$38.09; provisions, \$23.99; repairs, \$63.23; seed, \$7,220.66; seed containers, \$253.21; sundries, \$21.13.	7,967 98

MINES AND RESOURCES—MINES ET RESSOURCES

DOMINION LANDS AND PARKS—*Con.*—DOMAINE ET PARCS DE L'ÉTAT—*Suite*Vote—Crédit 172—*Avancement of Forest Conservation—Con.*—*Encouragement à la conservation des forêts—Suite*BRITISH COLUMBIA DISTRICT—*Conc.*—RÉGION DE LA COLOMBIE BRITANNIQUE—*Fin*

<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies...	89 45
<i>Miscellaneous—Divers:</i> —Express, freight and cartage, \$1,558.51; light and power, \$121.82; postage, \$56.74; telegrams and telephones, \$159.91; water services, \$36.92; sundries, \$12.98.....	1,946 88 19,647 19

FOREST PRODUCTS LABORATORIES—LABORATOIRES POUR L'ÉTUDE DES PRODUITS FORESTIERS

Ottawa—

<i>Salaries and Wages—Traitements et salaires:</i> —Ottawa (Page L—25), \$59,125.95; outside, sundry labour, \$49.....	59,174 95
<i>Travelling Expenses—Frais de voyages:</i> —E. A. Atwell, \$78.25; M. J. Brophy, \$146.38; E. S. Fellows, \$42.55; C. W. Fritz, \$63.25; J. D. Hale, \$25.70; J. F. Harkom, \$383.93; J. H. Jenkins, \$31.15; W. J. LeClair, \$340.76; T. A. McElhanney, \$398.90; J. B. Prince, \$213.74; G. H. Rochester, \$161.17; W. E. Wakefield, \$53.80; sundry, \$41.39.....	1,980 97
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Auto repairs and renewals, \$69.46; building supplies and hardware, \$489.32; electrical supplies, \$89.86; fire hose, \$459.62; gasoline and oil, \$67.95; laboratory supplies, \$751.42; lumber, \$505.48; photographic supplies and processing, \$364.82; plumbing, \$104.70; refrigeration plant, \$495; repairs, \$161.01; signs, \$36.50; sundries, \$59.35.....	3,654 49
<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies..	870 92
<i>Miscellaneous—Divers:</i> —Car tickets, \$48; express, freight and cartage, \$323.63; subscriptions and fees, \$329.87; telegrams and telephones, \$67.55; sundries, \$20.30.....	789 35 66,470 68

Montreal—

<i>Salaries and Wages—Traitements et salaires:</i> —Forest products eng., H. W. Johnston, 6 m. at \$3,534, 6 m. at \$3,819; chemist, F. H. Yorston, 6 m. at \$2,679, 6 m. at \$2,793; asst. chemist, C. R. Mitchell, 6 m. at \$2,223, 6 m. at \$2,337; jr. chemists, C. Alexander, \$2,052; G. D. C. Jones, 8 m. at \$1,311, 4 m. at \$1,710; G. J. C. Potter, 6 m. at \$1,938, 6 m. at \$2,052; clerk, J. L. Beverley, \$1,767; stens.: S. Comm, Dec. 17 to Feb. 16 at \$720; M. A. Miller, \$1,311; M. J. Paquette, \$1,080; carpenter, M. Zampino, \$1,353.57; labourers, J. Bowerman, \$1,112; H. Deziel, \$1,089; machinist foreman, C. Landry, \$1,562.89; machinist, A. Murray, \$1,335.66; machinist's helper, J. Robertson, \$1,200; plumber, A. Pope, \$897.....	27,014 94
<i>Travelling Expenses—Frais de voyages:</i> —H. W. Johnston, \$258.60; F. H. Yorston, \$112.35; sundry, \$8.35.....	379 30
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Building supplies and hardware, \$846.22; electrical supplies, \$56.04; laboratory supplies, \$2,709.98; lumber, \$172.12; machinery, \$91.61; repairs, \$366.57; sundries, \$66.69.....	4,309 23
<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies..	884 54
<i>Miscellaneous—Divers:</i> —Customs brokerage, \$65.02; express, freight and cartage, \$42.15; postage, \$112; rentals, \$35.88; subscriptions and fees, \$240.59; telegrams and telephones, \$309.84; sundries, \$32.68.....	838 16 33,426 17

Vancouver—

<i>Salaries and Wages—Traitements et salaires:</i> —Forest products engs.: R. M. Brown, \$4,104; J. B. Alexander, 8 m. at \$2,565, 4 m. at \$2,622; H. W. Eades, 8 m. at \$2,052, 4 m. at \$2,109; J. H. Jenkins, 8 m. at \$2,565 less 9 d., 4 m. at \$2,622; R. S. Perry, 8 m. at \$2,565, 4 m. at \$2,622; forest products assts.: W. W. Davidson, \$1,710; R. J. Eades, \$1,710; F. W. Guernsey, \$2,052; J. T. Lee, \$2,052; D. S. Wright, \$2,052; clerk, E. Parr, \$1,824; sten., M. M. Harris, \$1,311; carpenter, A. White, \$1,694.33; firemen, H. Chapman to Dec. 20, \$995.15; J. M. Keane, Jan. 4 to Mar. 31, \$320.63; labourers, \$87.50.....	29,673 55
<i>Travelling Expenses—Frais de voyages:</i> —J. B. Alexander, \$72.61; R. M. Brown, \$118.90; H. W. Eades, \$27.36; F. W. Guernsey, \$32.85; J. H. Jenkins, \$113.75; R. S. Perry, \$37.31.....	402 78
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Auto repairs and renewals, \$92.96; building supplies and hardware, \$158.17; electrical supplies and repairs, \$73.27; gasoline and oil, \$111.48; laboratory supplies, \$247.54; lumber, \$146.86; machinery, \$110; sundries, \$66.80.....	1,007 08

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

DOMINION LANDS AND PARKS—Con.—DOMAINE ET PARCS DE L'ÉTAT—Suite

Vote — Crédit 172 — Advancement of Forest Conservation—Conc. — Encouragement à la conservation des forêts—Fin

FOREST PRODUCTS LABORATORIES—Conc.
LABORATOIRES POUR L'ÉTUDE DES PRODUITS FORESTIERS—Fin

Vancouver—Conc.		
<i>Printing and Stationery—Impressions et papeterie:—Kings' Printer, supplies..</i>		179 64
<i>Miscellaneous—Divers:—Express, freight and cartage, \$80.67; postage, \$83; subscriptions and fees, \$122.63; telegrams and telephones, \$227.85; sundries, \$43.44.</i>		557 59
		<u>\$1,820 64</u>
<i>Adjustments—Ajustements:—T. E. Parker, balance outstanding, March 31, 1937</i>		3,529 47
		<u>280,688 38</u>
<i>Less—</i>		
Department of National Defence: fire-fighting services and improvements at Petawawa, \$1,932.63; survey of trespass damage and fire claim in British Columbia District, \$128.44.	2,061 07	
Collection of seed, etc.:—British Forestry Commission, \$8,446.55; Government of New Zealand, \$1,062.69; Government of Northern Ireland, \$212.56; Irish Free State, \$1,190.18.	10,911 98	
Outstanding balance, T. E. Parker.	3,529 47	
		<u>16,502 52</u>
		<u>\$ 264,185 86</u>
Classified as follows—Classifiées comme suit:—		
Salaries and Wages—		
Ottawa.	114,887 03	
Outside.	114,020 79	
Travelling expenses	6,241 34	
Materials, Supplies, Repairs, etc.—		
General.	25,333 47	
New autos, repairs and renewals.	2,245 84	
Printing and Stationery.	6,621 88	
Miscellaneous.	7,483 56	
Other Outlay	325 00	
	277,158 91	
<i>Less—Adjustments.</i>	12,973 05	
		<u>\$ 264,185 86</u>

Vote — Crédit 172 — Canadian Forestry Association — Association forestière du Canada

Loans, Grants, Subsidies, etc.—Prêts, allocations, subventions, etc.:—Amount paid. \$ 1,620 00

Vote — Crédit 172 — Surveys and Investigations of Water and Power Resources, etc.—Levés et études des forces hydroélectriques

HEAD OFFICE — ADMINISTRATION CENTRALE

<i>Salaries and Wages—Traitements et salaires:—Ottawa.....</i>	(Page L—25)	54,759 00
<i>Travelling Expenses—Frais de voyages:—J. T. Johnston, \$735.14; N. Marr, \$207.75; G. G. McEwen, \$52.75; T. M. Patterson, \$92.15.....</i>		1,087 79
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:—</i>		
Metering supplies, \$545.90; photographic and map supplies, \$483.56; photostat paper, \$644.30.		1,673 76
<i>Printing and Stationery—Impressions et papeterie:—King's Printer, supplies....</i>		4,569 55
<i>Miscellaneous—Divers:—Express and freight, \$161.11; printing reports, \$316; subscriptions and fees, \$338.96; telegrams, \$276.35; telephone tolls, \$267.01; sundries, \$57.12.</i>		1,416 55
		<u>63,506 65</u>

MINES AND RESOURCES—MINES ET RESSOURCES

DOMINION LANDS AND PARKS—*Con.*—DOMAINE ET PARCS DE L'ÉTAT—*Suite*Vote — Crédit 172 — Surveys and Investigations of Water and Power Resources,
etc.—*Con.* — Levés et études des forces hydroélectriques—*Suite*HYDROMETRIC SURVEYS, MARITIME PROVINCES
LEVÉS HYDROMÉTRIQUES, PROVINCES MARITIMES

<i>Salaries and Wages—Traitements et salaires:</i> —Dist. hydraulic eng., K. G. Chisholm, \$3,762; water and power engs.: F. W. Donkin, \$1,710, N. I. Foster, \$2,052; stens.: E. A. Croucher, June 3 to Mar. 31 at \$720; F. A. Handy, Apr. 1 to Aug. 26 at \$1,254; gauge readers, \$1,224; labourers, \$58.22.....	9,907 87
<i>Travelling Expenses—Frais de voyages:</i> —K. G. Chisholm, \$117.10; F. W. Donkin, \$212.80; N. I. Foster, \$220.60.....	550 50
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Auto repairs and renewals, \$209.72; Ford coach, \$786.26 less \$175 allowance on old car; gasoline and oil, \$248.87; sundries, \$99.41.....	1,169 26
<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies....	34 28
<i>Miscellaneous—Divers:</i> —Garage rent, \$124; postage, \$33; telephone service, \$54.57; sundries, \$54.06.....	265 63
	11,927 54

HYDROMETRIC SURVEYS, QUEBEC—LEVÉS HYDROMÉTRIQUES, QUÉBEC

<i>Salaries and Wages—Traitements et salaires:</i> —Dist. hydraulic eng., L. G. Denis, \$3,762; water and power engs.: O. E. Fournier, \$2,052, J. P. R. Gauthier, \$2,565, A. LaRocque, \$2,565, T. J. Moore, 12 m. at \$2,052 less 14 d.; sten., S. A. Young, \$1,596; gauge readers, \$709.10; labourers, \$983.85.....	16,207 72
<i>Travelling Expenses—Frais de voyages:</i> —O. E. Fournier, \$683.55; J. P. R. Gauthier, \$710.31; A. LaRocque, \$874.35; N. Marr, \$14.35; sundry, \$4.65.....	2,287 21
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Auto repairs and renewals, \$191.79; boats, 3, \$157.63; gasoline and oil, \$296.60; metering supplies, \$119.61; sundries, \$184.83.....	950 51
<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies....	151 04
<i>Miscellaneous—Divers:</i> —Auto storage, \$85.75; express and freight, \$29.15; telephone service, \$98.71; sundries, \$316.79.....	530 40
	20,126 88

HYDROMETRIC SURVEYS—LEVÉS HYDROMÉTRIQUES: ONTARIO

<i>Salaries and Wages—Traitements et salaires:</i> —Water and power engs.: J. R. Bissett, \$3,135, T. H. Burt, \$1,710, C. G. Cline, \$3,135, G. H. Wood, \$2,565, W. H. Yeates, \$1,710; sten., P. W. Grant, \$1,311; gauge readers, \$4,995.75; labourers, \$882.05.....	19,443 80
<i>Travelling Expenses—Frais de voyages:</i> —J. R. Bissett, \$635.13, use of own car, \$130.90; T. J. Moore, \$585.24; G. H. Wood, \$2.90; W. H. Yeates, \$1,336.50.....	2,690 67
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Auto repairs and renewals, \$150.40; boats, 2, \$48; Chevrolet coach, \$763.55 less \$75 allowance on old car; gasoline and oil, \$241.87; metering supplies, \$163.54; photographic supplies, \$46.04; sundries, \$335.14.....	1,673 54
<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies....	4 01
<i>Miscellaneous—Divers:</i> —Changing location of gauge, \$189.96; garage rent, \$97.50; telephone service and telegrams, \$71.92; sundries, \$311.43.....	670 81
	24,482 83

HYDROMETRIC SURVEYS—LEVÉS HYDROMÉTRIQUES: MANITOBA

<i>Salaries and Wages—Traitements et salaires:</i> —D. B. Gow, sr, asst. eng., 8 m. at \$3,135, dist. hydraulic eng., 4 m. at \$3,249; water and power engs.: J. T. Rose, \$2,052, W. H. Wallace, \$2,052; sten., G. Owen, \$1,200; gauge readers, \$1,215.91; labourers, etc., \$1,096.26.....	10,789 17
<i>Travelling Expenses—Frais de voyages:</i> —T. H. Burt, \$375, D. B. Gow, \$179.15, use of own car, \$236.60; P. W. Grant, \$28.85; J. T. Rose, \$276.11; W. H. Wallace, \$185.55; sundry, \$10.45.....	1,291 71
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Auto repairs and renewals, \$249.69; blue prints, \$69.55; Chevrolet coach, \$844.28 less \$300 allowance on old car; gasoline and oil, \$406.92; metering supplies, \$87.17; outboard motor, \$171.75; sundries, \$187.11.....	1,716 47
<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies....	261 53
<i>Miscellaneous—Divers:</i> —Air transportation, \$90; auto storage, \$103.50; postage, \$45; telephone service and telegrams, \$147.48; sundries, \$109.77.....	495 75
	14,554 63

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

DOMINION LANDS AND PARKS—Con.—DOMAINE ET PARCS DE L'ÉTAT—Suite

Vote — Crédit 172 — Surveys and Investigations of Water and Power Resources, etc.—Con.—Levés et études des forces hydroélectriques—Suite

HYDROMETRIC AND IRRIGATION SURVEYS

LEVÉS HYDROMÉTRIQUES ET IRRIGATIONS: ALBERTA & SASKATCHEWAN

<i>Salaries and Wages—Traitements et salaires:</i> —O. H. Hoover, divisional hydrom. eng., 8 m. at \$2,565, water and power eng., 4 m. at \$2,679; asst. office eng., J. Cawthorn, \$2,451; water and power engs.: R. D. Barnetson, July 3 to Mar. 31 at \$1,800, less 76 d., P. A. Fetterly, \$2,565, W. T. McFarlane, \$2,565, G. H. Nettleton, \$2,052; stens.: A. M. Leacy, \$1,596; W. MacDonald, Nov. 9 to Mar. 31 at \$720; gauge readers, \$1,366.25; labourers, etc., \$845.45.....	17,285 77
<i>Travelling Expenses—Frais de voyages:</i> —R. D. Barnetson, \$208.65; G. S. Deslandes, \$125; P. A. Fetterly, \$506.85; O. H. Hoover, \$146.35, use of own car, \$40.60; W. T. McFarlane, \$606.90; G. H. Nettleton, \$191.70; G. H. Whyte, \$14.20.....	1,840 25
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Auto repairs and renewals, \$665.11; building supplies and hardware, \$127.72; gasoline, \$609.22; oil, \$135.72; recorder paper, \$120; sundries, 313.02.....	1,970 79
<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies....	206 17
<i>Miscellaneous—Divers:</i> —Auto storage, \$214.40; electric power, \$74.80; express, freight and telegrams, \$103.78; postage, \$81.71; telephone service, \$185.55; sundries, \$135.73.....	795 97
	22,098 95

HYDROMETRIC SURVEYS — LEVÉS HYDROMÉTRIQUES:
BRITISH COLUMBIA — COLOMBIE BRITANNIQUE

<i>Salaries and Wages—Traitements et salaires:</i> —Dist. hydraulic eng., C. E. Webb, \$3,762; asst. eng., W. C. Warren, \$2,565; water and power engs.: C. B. Corbould, \$2,052, L. S. S. George, \$1,710, E. H. Tredcroft, July 3 to Sept. 30 at \$1,800, A. C. Whitehouse, \$2,052, G. H. Whyte, \$3,135, J. W. H. Wilkes, \$1,710; clk., F. MacLachlan, \$1,824; sten., G. M. Gulliford, \$1,311; gauge readers, \$3,154.60; labourers, etc., \$8,491.36.....	32,207 28
<i>Travelling Expenses—Frais de voyages:</i> —C. B. Corbould, \$482.65; L. S. S. George, \$81.72; F. MacLachlan, \$47.35; J. C. McLean, \$35; A. L. McNaughton, \$132.15; W. C. Warren, \$571.70; C. E. Webb, \$530.63; A. C. Whitehouse, \$711.80; G. H. Whyte, \$135.08; J. W. H. Wilkes, \$631.85.....	3,359 93
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —A. B. Balderston Ltd., Vancouver, Ford coaches, 2, \$1,684.44 less \$350 allowance on 2 old cars, auto repairs and renewals, \$58; The Canada Ingot Iron Co. Ltd., Vancouver, metal fluming, \$2,018.11; Canadian Wood Pipe and Tanks, Ltd., Vancouver, wood pipe and tank, \$4,241.23; accounts under \$1,000: auto repairs and renewals, \$893.40; blue prints, \$183.83; building supplies and hardware, \$2,277.65; Ford coach, \$896.07 less \$299 allowance on old car; gasoline, \$1,238.73; metering supplies, \$742.15; oil, \$298.30; provisions, \$280.99; sundries, \$586.35....	14,800 25
<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies....	38 39
<i>Miscellaneous—Divers:</i> —Advertising, \$30; auto storage, \$238.75; express, freight and cartage, \$963.07; postage, \$227.52; telephone service, \$271.99; telegrams, \$256.78; sundries, \$516.88.....	2,504 99
	52,910 84
	209,608 32
<i>Less—Refunds for services rendered:</i> —Indian Affairs Branch, \$24,038.83; H. E. P. C. of Ontario, \$8,500; New Brunswick Electric Power Commission, \$67.50; Nova Scotia Power Commission, \$2,869.34; Provinces: Alberta, \$2,000; British Columbia, \$5,000; Manitoba, \$2,000; New Brunswick, \$202.50; Nova Scotia, \$416.67; Quebec, \$10,000; Saskatchewan, \$2,000..	57,094 84
	\$ 152,513 48

MINES AND RESOURCES—MINES ET RESSOURCES

DOMINION LANDS AND PARKS—*Conc.* — DOMAINE ET PARCS DE L'ÉTAT—*Suite*Vote — Cr dit 172 — Surveys and Investigations of Water and Power Resources,
etc.—*Conc.* — Lev s et  tudes des forces hydro lectriques—*Fin*HYDROMETRIC SURVEYS—*Conc.* — LEV S HYDROM TRIQUES—*Fin*
BRITISH COLUMBIA—*Conc.* — COLOMBIE BRITANNIQUE—*Fin*

Classified as follows—Classifi es comme suit:—

Salaries and Wages—	
Ottawa	54,759 00
Outside	105,841 61
Travelling Expenses	13,108 06
Materials, Supplies, Repairs, etc.—	
General	17,760 87
New autos, repairs, and renewals	6,193 71
Printing and Stationery	5,264 97
Miscellaneous	6,680 10
	209,608 32
Less—Refunds	57,094 84
	\$ 152,513 48

Vote — Cr dit 172 — Lake of the Woods Control Board — Commission de
contr le du lac des BoisSalaries and Wages—*Traitements et salaires*:—

Ottawa	(Page L—25)	2,052 00
Outside: Water and power engs., gr. 1, at \$1,710: C. O. Allen; C. C. Galloway; gauge readers, \$717; labourers, \$49.74		4,186 74
Travelling Expenses— <i>Frais de voyages</i> :—T. H. Burt, \$138.45; C. C. Galloway, \$9.70; D. B. Gow, \$141.50; W. H. Wallace, \$13.70		303 35
Materials, Supplies, Repairs, etc.— <i>Mat�riel, fournitures, reparations, etc.</i> :— Auto repairs and renewals, \$125.35; blue prints, etc., \$40.92; gasoline and oil, \$114.62		280 89
Miscellaneous— <i>Divers</i> :—Auto storage, \$65.75; telephone and telegrams, \$25.41; sundries, \$29.34		120 50
		\$ 6,943 48

Vote — Cr dit 495 — Construction of Dam at Outlet of Lac Seul — Construction
d'un barrage au d bouch  du lac Seul

Salaries and Wages— <i>Traitements et salaires</i> :—Gauge readers, etc.		349 00
Travelling Expenses— <i>Frais de voyages</i> :—T. H. Burt, \$101.20; C. C. Galloway, \$2.85; W. H. Wallace, \$25.10		129 15
Materials, Supplies, Repairs, etc.— <i>Mat�riel, fournitures, reparations, etc.</i> :— Blue prints, etc.		26 35
Miscellaneous— <i>Divers</i> :—Postage, etc.		10 50
Other Outlay— <i>Autres d�bours�s</i> :—Treasurer of the Province of Ontario, pay- ments as per agreement:—		
Five per cent interest on Ontario's share of net capital cost to Dec. 31, 1935 (\$273,872.01), for 1 year to Dec. 31, 1936	\$	13,693 60
Operation and maintenance in 1936		2,500 00
(See A. G's report 1935-36, page K—30)		16,193 60
		\$ 16,708 60

Vote — Cr dit 495 — Lake of the Woods Easement — R gularisation de la
d charge du lac des Bois

Travelling Expenses— <i>Frais de voyages</i> :—T. L. Cory, \$97.15; I. R. Strome, \$25.95.		123 10
Miscellaneous— <i>Divers</i> :—Legal fees, Mitchell, Gillette, Nye & Harries, Duluth, Minn., \$5,177.96; sundry, \$3.		5,180 96
		\$ 5,304 06

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

DOMINION LANDS AND PARKS—Con.—DOMAINE ET PARCS DE L'ÉTAT—Suite

**Vote — Cr dit 495 — Development of Canadian Section of the International
Peace Garden in Manitoba — Pour l'am lioration de la partie canadienne
du Jardin de la paix internationale (Manitoba)**

Other Outlay — Autres d bours s:—Province of Manitoba, construction of high-
way, Canadian section, International Peace Garden.....\$ 11,825 25

**Votes — Cr dits 172 & 495 — Canadian National Parks — Parcs nationaux du
Canada**

HEAD OFFICE — ADMINISTRATION CENTRALE

<i>Salaries and Wages — Traitements et salaires:</i> —Ottawa..... (Page L—25)	100,004 39
<i>Travelling Expenses — Frais de voyages:</i> —D. S. Rawson, \$129.80; J. Smart, \$251.75	381 55
<i>Materials, Supplies, Repairs, etc. — Mat�riel, fournitures, reparations, etc.:</i> — Badges and licence plates, \$158.74; fire fighting equipment, \$363.60; photographic supplies, \$557.24; sundries, \$94.22.....	1,173 80
<i>Printing and Stationery — Impressions et papeterie:</i> —King's Printer, supplies.....	7,238 46
<i>Miscellaneous — Divers:</i> —Car tickets, \$45; express, \$30.50; freight, \$70.40; govern- ment officers' guarantee fund, \$294.67; removal expenses, J. Smart, \$530.35; subscriptions and fees, \$186.57; tanning and mounting buffalo hides, \$86.28; telegrams, \$1,118.78; telephone rents and tolls, \$256.41.....	2,618 96
<i>Other Outlay — Autres d�bours�s:</i> —Retiring gratuity, J. B. Harkin.....	728 63
	<u>112,145 79</u>

PUBLICITY — PUBLICIT 

<i>Salaries and Wages — Traitements et salaires:</i> —Labourers, etc.....	1,093 45
<i>Travelling Expenses — Frais de voyages:</i> —J. C. Campbell, \$500.77; T. S. Heaslip, \$429.18; R. J. C. Stead, \$32.05; sundry, \$15.90.....	977 90
<i>Materials, Supplies, Repairs, etc. — Mat�riel, fournitures, reparations, etc.:</i> — Associated Screen News, motion picture film, \$4,346.69; Dept. Trade and Com- merce, photographic supplies, \$3,012.52; Photographic Stores, Ottawa, photo- graphic supplies, \$1,763.89; W. J. Oliver, Calgary, photographic supplies, \$3,730.80; accounts under \$1,000; exhibition supplies, \$1,123; photographic supplies, \$403.90; sundries, \$11.87.....	14,392 67
<i>Printing and Stationery — Impressions et papeterie:</i> —King's Printer, supplies.....	3,749 42
<i>Miscellaneous — Divers:</i> —Cartage, \$375.75; electric power, \$121.60; express, \$2,489.10; freight, \$84.85; subscriptions and fees, \$100; taxidermy, \$34.50.....	3,205 80
	<u>23,419 24</u>

OTTAWA TRUCKING SERVICE — SERVICE DE CAMIONNAGE   OTTAWA

<i>Salaries and Wages — Traitements et salaires:</i> —Ottawa..... (Page L—25)	3,021 00
<i>Materials, Supplies, Repairs, etc. — Mat�riel, fournitures, reparations, etc.:</i> — Auto repairs and renewals, \$144.53; gasoline and oil, \$159.59.....	304 12
	<u>3,325 12</u>

HISTORIC SITES AND MONUMENTS — SITES ET MONUMENTS HISTORIQUES

<i>Salaries and Wages — Traitements et salaires:</i> —Hon. supts.: Fort Louisburg, R. A. Peters, June 10 to Mar. 31 at \$200; M. Pope, 1 m. at \$200 (retired); caretakers: E. Lalanne, Fort Chambly, \$1,182; W. G. Webb, Fort Wellington, \$1,182; various caretakers: 1 at \$180; 2 at \$99.96; 4 at \$50; 62 at \$25; labourers, etc., \$4,886.17.....	9,558 35
<i>Travelling Expenses — Frais de voyages:</i> —E. A. Cruikshank, allowance, \$30; K. D. Harris, \$28.03; D. C. Harvey, \$97.30, allowance, \$202.50; F. W. Howay, \$492.28, allowance, \$465; F. Landon, \$26.45, allowance, \$90; N. A. Sparks, \$416.06; J. E. Spero, \$27.98; E. Fabre-Surveyer, \$49.55, allowance, \$240; A. S. Thomas, \$269.08; J. C. Webster, \$170.83, allowance, \$145; sundry, \$21.99.....	2,772 05
<i>Materials, Supplies, Repairs, etc. — Mat�riel, fournitures, reparations, etc.:</i> — P. Davignon, Marieville, exhibition supplies, \$1,022.14; accounts under \$1,000; auto repairs and renewal, \$62.43; building supplies and hardware, \$3,366.65; camp equipment, \$874.06; electrical supplies, \$332.27; exhibition supplies, \$309; fuel, \$753.38; gasoline and oil, \$124.22; memorial tablets, \$684.63; photographic supplies, \$231.48; sundries, \$30.45.....	7,790 76
<i>Printing and Stationery — Impressions et papeterie:</i> —King's Printer, supplies....	201 40
<i>Miscellaneous — Divers:</i> —Cartage, \$130.75; electric power, \$210.91; rentals, \$55; telephone rents and tolls, \$88.19; water taxes, \$42.20; sundries, \$142.38.....	669 43
	<u>20,991 99</u>

MINES AND RESOURCES—MINES ET RESSOURCES

DOMINION LANDS AND PARKS—*Con.*—DOMAINE ET PARCS DE L'ÉTAT—*Suite*Votes—Crédits 172 & 495—Canadian National Parks—*Con.*—Parcs nationaux du Canada—*Suite*

BANFF PARK—PARC DE BANFF

<i>Salaries and Wages—Traitements et salaires:</i> —P. J. Jennings, supt., \$2,934 and house; C. G. Childe, asst. eng., \$2,565; C. H. McCauley, gen. constr. foreman, \$2,394; J. E. Martin, fish hatchery supt., \$1,701; E. M. Wakelyn, jr. eng., \$2,052; O. A. Anderson, machinist foreman, \$1,792.95; J. F. Woodworth, sanitary insp., \$1,539; A. Chisholm, stable boss, \$1,311; J. R. Warren, suprv. park warden, \$2,052; W. G. Fyfe, timber insp., \$1,824; caretakers: J. R. Anderson, 10 m. to Jan. 31 at \$1,368 less 22 d.; Mrs. A. Bollans, \$1,254; J. R. Brown, April 1 to Aug. 13 at \$1,368; W. J. Dunstan, 8 m. at \$900, 4 m. at \$1,080 and house; M. C. Glover, \$1,368; E. I. Holliday, \$1,311; S. G. James, \$1,368, house allowance, \$171; R. L. Jolly, 2 m. at \$1,080 less 2 d.; D. K. McTrow, \$1,539; W. Noble, \$1,359 and house, L. Parker, 4 m. to Mar. 31 at \$1,080; J. Raby, \$1,539; E. V. Reeve, 12 m. at \$960 less 16 d.; B. D. Stevens, \$1,254; J. Thomson, 4 m. to Mar. 31 at \$1,200; clk. and stens.: K. H. Bingay, 11 m. to Feb. 28 at \$1,824 (deceased); E. Brown, \$1,368; A. B. Clarke, 12 m. at \$1,539 less 2 d.; T. A. Davidson, \$1,710; M. Dewar, \$1,311; J. M. Dignall, \$1,824; L. C. Doolan, \$1,311; C. L. Harris, \$1,368; J. L. Horsfall, \$2,280; H. S. Johnson, 9 m. at \$1,824 (transferred from Prince Albert); H. W. Leacock, \$1,596; J. McCowan, \$1,539; K. B. Mitchell, \$1,080; W. A. Renwick, \$1,539; Mrs. A. Staple, \$1,311; R. J. Steeves, \$1,425; F. L. G. Webster, \$1,254; cleaners and helpers: P. B. Ashton, 4 m. to Mar. 31 at \$900; elec. foreman, A. H. Reeve, \$1,995; elec. helper, E. F. Dunsmore, \$1,080; elec. power plant operators: E. Smith, 8 m. at \$1,795.50, 4 m. at \$1,938 and house (overpayment \$5 refunded to Casual Revenue 1937-38); R. A. Harris, \$1,641.60; K. Kyme, \$1,641.60; A. G. Watters, \$1,641.60; physician, G. M. Atkin, 8 m. at \$200, 4 m. at \$900; stip. magistrate, G. E. Hunter, 8 m. at \$600, 4 m. at \$900; telephone operators: H. E. Brown, \$1,140; P. M. Keefe, April 1 to Aug. 19 at \$900; H. I. Cain, Nov. 9 to Mar. 31 at \$720; W. G. Pearce, \$1,200; wardens: W. Child, 5 m. to Mar. 31 at \$1,254; H. C. Davies, 4 m. to Mar. 31 at \$1,200 less 3 d.; C. C. Fuller, \$1,653; J. W. Gladstone, \$1,653; U. L. Lacasse, \$1,653; F. C. Murphy, \$1,254; J. Naylor, \$1,653; W. D. Neish, 3 m. at \$1,596, 9 m. at \$1,653; E. W. Peyto, April 1 to May 13 at \$1,653 (retired); W. H. Peyto, \$1,653; W. J. Potts, 8 m. at \$1,653; suprv. park warden, 4 m. at 1,824; P. G. Woodworth, \$1,653; matrons, \$1,556.58; mechanics, labourers, etc., \$98,918.24....	191,528 31
<i>Travelling Expenses—Frais de voyages:</i> —G. E. Hunter, \$64.65; P. J. Jennings, \$345.98; J. E. Martin, \$178.12; sundry, \$55.36.....	644 11
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —J. H. Ashdown Co., Ltd., Calgary, building supplies and hardware, \$1,453.22; Brewster Transport Co., Banff, auto supplies, \$1,597.61, forage, \$3,984.12, road oil, \$14,313.12; Bell and Morris Ltd., Calgary, building supplies and hardware, \$1,857.23; Hall's Feed and Transport Co., Calgary, forage, \$1,075.20; Imperial Oil Co. Ltd., Calgary, gasoline and oil, \$1,391.53; C. H. Livingstone, Banff, coal, \$1,717.21; National Cash Register Co., Ottawa, registers, 2, \$1,128.10; Swift Canadian Co., Calgary, provisions, \$1,032.09; Standish and Son, Banff, building supplies and hardware, \$1,125.17; Union Oil Co., Calgary, gasoline and oil, \$5,141.55; D. White and Sons, Banff, provisions, \$2,233.25; Winnipeg Brass Co., buffalo licence plates, \$1,388.28; accounts under \$1,000: auto repairs and renewals, \$3,003.38; badges and licence plates, \$91; building supplies and hardware, \$3,992.90; camp equipment, \$3,615.43; clothing, \$286; coal, \$2,208; electrical supplies, \$2,595.14; fire fighting equipment, \$680.06; forage, \$465.80; Ford coupe, \$750.33; gasoline and oil, \$505.89; harness, \$156.47; hatchery supplies, \$161.91; instrument supplies and repairs, \$103.14; liquid air, \$65.45; machinery, \$3,681.89; medical supplies, \$223.92; photographic supplies, \$139.52; provisions, \$2,629.74; smithwork, \$330; telephone line equipment, \$386.15; zoo provisions, \$636.84; sundries, \$128.31; total, \$66,274.95 less board and stores supplied employees, \$2,813.17.....	63,461 78
<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies....	1,194 74
<i>Miscellaneous—Divers:</i> —Care of indigents, \$3,268.03; crossings maintenance, \$118.40; express, \$470.97; fares, \$87.75; fish eggs, \$663.76; freight, \$1,322.15; postage, \$607; telegrams, \$228.71; telephone rents and tolls, \$123.73; sundries, \$239.96.....	7,130 46
	263,959 40

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

DOMINION LANDS AND PARKS—Con.—DOMAINE ET PARCS DE L'ÉTAT—Suite

Votes — Crédits 172 & 495 — Canadian National Parks—Con. — Parcs nationaux du Canada—Suite

BUFFALO PARK — PARC AUX BISONS: WAINWRIGHT

<i>Salaries and Wages—Traitements et salaires:</i> —A. G. Smith, supt., \$2,094 and house; Mrs. E. Alexander, caretaker, 8 m. at \$300; clk.: E. R. Frickelton, \$1,539; C. H. Horn, \$1,311; farm supt., D. H. Folkins, 4 m. to Mar. 31 at \$1,710 and house less 4 d.; stable bosses: J. Beckett, 4 m. at \$1,080; B. Morgan, 2 m. at \$1,080; wardens: E. J. Cotton, \$1,653; D. W. Davison, \$1,653; R. Sharp, \$1,653; H. B. Walker, \$1,881; mechanics, labourers, etc., \$23,628.88.....	36,704 49
<i>Travelling Expenses—Frais de voyages:</i> —E. J. Cotton, \$97.09; D. W. Davison, \$36.65; A. G. Smith, \$72.85; sundry, \$50.21.....	256 80
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Manitoba Bridge Co., Winnipeg, pressure tanks, \$3,271; O'Neill-Morkin Machinery Co., Edmonton, machinery, \$1,078; Mrs. T. Madkins, Wainwright, meals, \$1,887.50; Mrs. W. Moreau, Wainwright, meals, \$2,182.50; accounts under \$1,000; auto repairs and renewals, \$500.32; building supplies and hardware, \$2,054.92; camp equipment, \$74.72; coal, \$349.29; electrical supplies, \$82.25; forage, \$1,547.45; fuel gas, \$62.25; gasoline and oil, \$1,175.04; harness, \$120.38; machinery, \$465.11; meals, \$1,504; medical supplies, \$53.47; provisions, \$251.92; smithwork, \$75.77; tanning and dressing buffalo hides, \$938.50; sundries, \$70.84; total, \$17,745.23 less board and stores supplied employees, \$5,520.25.....	12,224 98
<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies....	99 40
<i>Miscellaneous—Divers:</i> —Advertising, \$161.34; express, \$65.42; freight, \$587; postage, \$35; rentals, \$60.10; slaughtering buffalo, \$245.50; telegrams, \$107.94; telephone rents and tolls, \$160.32; threshing, \$88; sundries, \$202.32.....	1,712 94 50,998 61

ELK ISLAND PARK — PARC DE L'ÎLE AUX ÉLANS: LAMONT

<i>Salaries and Wages—Traitements et salaires:</i> —Supts.: A. Coxford, \$1,832 and house; B. I. Love, 4 m. to Mar. 31 at \$1,539 and house; J. H. Atkinson, jr. eng., \$2,052; A. M. Coxford, clk., 6 m. to Sept. 30 at \$720; wardens: J. F. McKellar, \$1,653; T. E. Randall, 4 m. to Mar. 31 at \$1,254; mechanics, labourers, etc., \$10,499.01.....	17,326 01
<i>Travelling Expenses—Frais de voyages:</i> —B. I. Love.....	256 73
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Auto repairs and renewals, \$182.45; building supplies and hardware, \$635.55; camp equipment, \$218.83; coal, \$129.81; fire fighting equipment, \$54.18; forage, \$234.43; gasoline and oil, \$1,105.12; harness, \$44.60; machinery, \$163.73; provisions, \$935.76; seeds and plants, \$75.04; smithwork, \$54.60; sundries, \$18.21; total, \$3,852.31 less board and stores supplied employees, \$841.20.....	3,011 11
<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies....	58 99
<i>Miscellaneous—Divers:</i> —Express and freight, \$50.55; horse, \$125; telephone rents and tolls, \$127.30; sundries, \$50.08.....	352 93 21,005 77

FORT ANNE PARK — PARC DU FORT ANNE: ANNAPOLIS ROYAL (N.S.—N.É.)

<i>Salaries and Wages—Traitements et salaires:</i> —E. K. Eaton, hon. supt., 8 m. to Dec. 31 at \$600; H. L. Hardy, sten., \$900; mechanics, labourers, etc., \$1,469.66..	2,769 66
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Building supplies and hardware, \$47.80; camp equipment, \$81.31; fuel, \$223.50..	352 61
<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies....	59 41
<i>Miscellaneous—Divers:</i> —Postage, \$35.10; telephone rents and tolls, \$47; water and light, \$94.42; sundries, \$24.98.....	201 50 3,383 18

GEORGIAN BAY ISLAND PARK — PARC DE L'ÎLE DE LA BAIE GÉORGIENNE

<i>Salaries and Wages—Traitements et salaires:</i> —G. Lynn, warden \$1,482; F. J. Smith, caretaker, \$199.92; mechanics, labourers, etc., \$1,568.05.....	3,249 97
<i>Travelling Expenses—Frais de voyages:</i> —J. E. Spero.....	100 00
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Building supplies and hardware, \$311.02; camp equipment, \$64.57; forage, \$161; gasoline and oil, \$197.30; motor boat supplies and repairs, \$130.45; rowboat, \$70; sundries, \$40.68.....	975 02
<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies....	9 43
<i>Miscellaneous—Divers:</i> —Motor boat hire, \$32; sundries, \$17.03.....	49 03 4,383 45

MINES AND RESOURCES—MINES ET RESSOURCES

DOMINION LANDS AND PARKS—Con.—DOMAINE ET PARCS DE L'ÉTAT—Suite

Votes — Crédits 172 & 495 — Canadian National Parks—Con. — Parcs nationaux du Canada—Suite

GLACIER PARK — PARC DU GLACIER

<i>Salaries and Wages — Traitements et salaires:</i> —E. N. Russell, supt. (salary shown under Yoho Park); wardens: W. H. Hartley, \$1,653; R. H. Mann, \$1,653; mechanics, labourers, etc., \$2,197.90.....	5,503 90
<i>Travelling Expenses — Frais de voyages:</i> —W. H. Hartley, \$57.36; R. W. Langford, \$40.45; R. H. Mann, \$54.35; sundry, \$20.90.....	173 06
<i>Materials, Supplies, Repairs, etc. — Matériel, fournitures, réparations, etc.:</i> —Building supplies and hardware, \$317.48; camp equipment, \$37.39; gasoline and oil, \$26; sundries, \$12.10.....	392 97
<i>Miscellaneous — Divers:</i> —Freight, \$195.23; sundries, \$25.25.....	220 48
	6,290 41

JASPER PARK — PARC DE JASPER

<i>Salaries and Wages — Traitements et salaires:</i> —A. C. Wright, supt., \$2,655, house allowance, Apr. 1 to June 14, \$135.67; J. B. Snape, asst. eng., \$2,565, less 25½ d.; E. A. E. Sullivan, instrumentman, \$1,710; T. O'Hagan, physician, \$855; A. B. Campbell, police magistrate, \$700; C. V. Phillips, suprv. warden, \$1,824; clk. and stenos.: W. Booth, \$1,254; C. E. Burrows, \$1,482; G. H. Charlton, \$2,280; J. R. Heckley, \$1,482; W. W. Morrison, 7 m. to Oct. 31 at \$1,311 (retired); H. Powers, \$1,539; H. E. P. Sullivan, \$1,311; wardens: E. H. Brasnett, \$1,653; F. A. Bryant, \$1,653; J. Curran, \$1,653; H. S. Davis, \$1,653; H. A. Driver, \$1,653; G. Fowlie, \$1,653; A. K. Hobbins, 8 m. to Nov. 30 at \$1,653 (retired); D. Hoover, 3 m. at \$1,482, 9 m. at \$1,596; F. H. R. Jackson, \$1,254 less 11 d.; J. W. Macklin, \$1,653; C. W. Matheson, \$1,653; E. McDonald, \$1,653; A. Nelles, \$1,653; F. L. Wells, \$1,653; mechanics, labourers, etc., \$66,295.76.....	108,743 52
<i>Travelling Expenses — Frais de voyages:</i> —Sundry.....	78 87
<i>Materials, Supplies, Repairs, etc. — Matériel, fournitures, réparations, etc.:</i> —Brewster Transport Co., Banff, road oil, \$3,996.86; Burns and Co., Edmonton, provisions, \$1,080.12; Edmonton Motors, Chevrolet coach, \$696.05, Chevrolet coupe, \$687; Hayward Lumber Co., Jasper, coal, \$1,898.16; Imperial Oil Co. Ltd., Edmonton, gasoline and oil, \$2,865.41; McLeod Mercantile Co., Spruce Grove, forage, \$2,151.91; Texas Oil Co. Ltd., Jasper, gasoline and oil, \$1,110.90; accounts under \$1,000: auto repairs and renewals, \$1,872.54; building supplies and hardware, \$3,233.51; camp equipment, \$651; coal, \$513.35; electrical supplies, \$668.79; fire fighting equipment, \$1,376.78; forage, \$208.39; gasoline and oil, \$1,133.92; harness, \$185.18; licence plates, \$183.65; liquid air, \$62.14; machinery, \$1,363.67; meals, \$1,140.28, provisions, \$2,189.86; telephone wire, \$392.66; sundries, \$52.20; total, \$29,714.33, less board and stores supplied employees, \$3,426.29.....	26,288 04
<i>Printing and Stationery — Impressions et papeterie:</i> —King's Printer, supplies....	505 09
<i>Miscellaneous — Divers:</i> —Can. Nat. Rlys., electrical energy, \$15,236.30; accounts under \$1,000: care of indigents, \$300; express and freight, \$623.35; fares, \$586; fish eggs, \$689.75; horse hire, \$36; postage, \$215; telegrams, \$195.18; sundries, \$108.40; total, \$17,989.98 less Can. Nat. Rlys., maintenance of water main, \$330.51	17,659 47
	153,274 99

KOOTENAY PARK — PARC DE KOOTENAY

<i>Salaries and Wages — Traitements et salaires:</i> —J. W. Rutledge, veterinary insp., \$1,824; A. Gordon, \$1,254; wardens: S. H. Brewer, Aug. 1 to Sept. 30 at \$1,653 (retired); T. D. Harrison, Aug. 1 to Sept. 30 at \$1,653 (retired); J. J. Meredith, \$1,653; A. Rutherford, 4 m. to Mar. 31 at \$1,200; O. Young, 4 m. to Mar. 31 at \$1,200; E. C. Peatfield, clk., 1 m. to Mar. 31 at \$1,311, less 14 d.; mechanics, labourers, etc., \$27,755.32.....	33,897 23
<i>Travelling Expenses — Frais de voyages:</i> —G. M. Atkin, \$50.40; G. F. Horsey, \$66.55; G. E. Hunter, \$43.35; E. N. Russell, \$40.90; sundry, \$24.70.....	225 90
<i>Materials, Supplies, Repairs, etc. — Matériel, fournitures, réparations, etc.:</i> —J. S. Blakley, Radium Hot Springs, provisions, \$1,582.58; Brewster Transport Co., Banff, road oil, \$6,677.41; Imperial Oil Co. Ltd., Banff, gasoline and oil, \$3,504.27; Estate of J. C. Pitts, Invermere, provisions, \$1,695.10; Sinclair Canyon Motor Co., Radium Hot Springs, tires and tubes, \$1,148.57; accounts under \$1,000: auto repairs and renewals, \$838.04; badges and licence plates, \$425.17; building supplies and hardware, \$1,640.16; camp equipment, \$1,132.79; coal, \$216; explosives, \$731.46; fire fighting equipment, \$310.44; forage, \$68.24; gasoline and oil, \$140.59; machinery, \$758.81; meals, \$55.80; medical supplies, \$110.17; sundries, \$87.81; total, \$21,123.41 less board and stores supplied employees, \$2,671.95....	18,451 46

DETAILS OF EXPENDITURE—Con.— DÉTAIL DES DÉPENSES—Suite

DOMINION LANDS AND PARKS—Con.— DOMAINE ET PARCS DE L'ÉTAT—Suite

Votes — Crédits 172 & 495 — Canadian National Parks—Con. — Parcs nationaux du Canada—Suite

KOOTENAY PARK—Conc. — PARC DE KOOTENAY—Fin

<i>Printing and Stationery—Impressions et papeterie:—</i> King's Printer, supplies....	32 16
<i>Miscellaneous—Divers:—</i> Exchange on U.S. funds, \$53.08; express and freight, \$113.76; postage, \$40; telegrams and telephones, \$133.62; wintering horses, \$213.75; sundries, \$110.	664 21
	53,270 96

NEMISKAM PARK — PARC DE NEMISKAM

<i>Salaries and Wages—Traitements et salaires:—</i> E. McHugh, warden.....	1,653 00
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:—</i> Building supplies and hardware, \$144; forage, \$517.26.	661 26
	2,314 26

NOVA SCOTIA PARK — PARC DE NOUVELLE ÉCOSSE

<i>Salaries and Wages—Traitements et salaires:—</i> A. Livingstone, clk., 4 m. to Mar. 31 at \$1,311; wardens: A. G. Buchanan, 4 m. to Mar. 31 at \$1,596; H. MacDougall, 4 m. to Mar. 31 at \$1,200; J. Roach, 4 m. to Mar. 31 at \$1,200....	1,769 00
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POINT PELEE PARK — PARC DE LA POINTE PELÉE: ONTARIO

<i>Salaries and Wages—Traitements et salaires:—</i> R. J. Grant, supt., 3 m. to June 30 at \$200, 4 m. to Mar. 31 at \$1,539; G. P. Clarke, caretaker, 10 m. to Jan. 31 at \$1,080; mechanics, labourers, etc., \$5,987.70.	7,450 68
<i>Travelling Expenses—Frais de voyages:—</i> R. J. Grant, \$46.34; J. E. Spero, \$80....	126 34
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:—</i> Municipal Road Spraying and Oiling Co., Toronto, supplying and applying road oil, \$1,433.70; accounts under \$1,000: auto repairs and renewals, \$178.39; building supplies and hardware, \$107.48; camp equipment, \$467.95; fire fighting equipment, \$1,344.31; gasoline and oil, \$485.28; sundry, \$18.75.	4,035 96
<i>Printing and Stationery—Impressions et papeterie:—</i> King's Printer, supplies....	46 81
<i>Miscellaneous—Divers:—</i> Drilling well, \$199.50; sundries, \$83.68.	233 18
	11,942 87

PRINCE ALBERT PARK — PARC DE PRINCE ALBERT

<i>Salaries and Wages—Traitements et salaires:—</i> J. A. Wood, supt., \$2,655, house allowance 7 m. to Mar. 31, \$350; A. Bellaney, caretaker, \$831.63; G. H. L. Dempster, jr. eng., 7 m. to Mar. 31 at \$1,710; clks. and stens.: W. J. Barker, \$217.74; B. Haldenby, 12 m. at \$1,311 less 18 d.; H. S. Johnson, 3 m. to June 30 at \$1,824 (transferred to Banff Park); H. B. Matte, \$1,482; F. T. McEwen, 10 m. to Mar. 31 at \$1,080; B. I. M. Strong, 9 m. to Mar. 31 at \$1,539 less 10 d.; G. Davies, superv. warden, \$1,824; wardens: W. Anderson, \$1,653; F. J. Carter, 4 m. to Mar. 31 at \$1,200 less 15 d.; H. W. Genge, 4 m. to Mar. 31 at \$1,200; G. L. Holden, 4 m. to Mar. 31 at \$1,200; R. F. Hubel, 4 m. to Mar. 31 at \$1,200; M. P. O. Mellin, \$1,653; E. L. Millard, \$235.71; S. C. Pooock, 4 m. to Mar. 31 at \$1,200 less 6 d.; F. N. Russell, 4 m. to Mar. 31 at \$1,200; C. O. Walrod, \$1,653; mechanics, labourers, etc., \$67,381.58.	86,977 96
<i>Travelling Expenses—Frais de voyages:—</i> J. F. McKellar, \$29.85; J. A. Wood, \$411.26; sundry, \$11.60.	452 71
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:—</i> Bell's Ltd., Prince Albert, fertilizer, \$322.63, forage, \$5,168.40; Brewsters Transport Co., Banff, road oil, \$1,382.92; Burns and Co., Prince Albert, provisions, \$3,171.27; Imperial Oil Co. Ltd., Saskatoon, gasoline and oil, \$1,539.35; Kernaghan Hardware, Prince Albert, building supplies and hardware, \$1,860.55; Macdonald's Consolidated, Prince Albert, provisions, \$1,967.91; Modern Motors Ltd., Prince Albert, auto repairs and renewals, \$1,369.93, Ford coach, \$501.65; C. Niedners and Sons, Coaticook, fire hose, \$1,119.65; Albert Olson Co., Regina, machinery, \$1,015.81; Plaunt Hardware, Ottawa, fire pumps, 3, \$1,050; L. A. Wilmot, Toronto, machinery, \$1,123; accounts under \$1,000: auto repairs and renewals, \$1,203.08; building supplies and hardware, \$1,685.01; camp equipment, \$2,103.63; electrical supplies, \$107.87; fire fighting equipment, \$109.83; forage, \$622.99; gasoline and oil, \$3,336.09; harness, \$98.75; machinery, \$2,272.42; medical supplies, \$100.43; motor boat supplies, \$52.39; plants and seeds, \$385.45; provisions, \$3,285.18; zoo provisions, \$89.44; sundries, \$125.45; total, \$37,171.08 less board and stores supplied employees, \$12,782.33.	24,388 75

MINES AND RESOURCES—MINES ET RESSOURCES

DOMINION LANDS AND PARKS—*Con.*—DOMAINE ET PARCS DE L'ÉTAT—*Suite*Votes—Crédits 172 & 495—Canadian National Parks—*Con.*—Parcs nationaux du Canada—*Suite*PRINCE ALBERT PARK—*Conc.*—PARC DE PRINCE ALBERT—*Fin*

<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies....	509 89
<i>Miscellaneous—Divers:</i> —Advertising, \$35.56; aerial fire patrol, \$981.80; boat hire, \$268.50; cartage, \$95.61; electric power, \$300.42; express, \$118.09; freight, \$395.67; horses, 5, \$645; machinery hire, \$81.43; postage, \$134.50; telegrams, \$135.05; telephone rents and tolls, \$82.15; truck hire, \$42; water taxes, \$43.02; sundries, \$125.98.	3,484 78
	115,814 09

REVELSTOKE PARK, B.C.—PARC DE REVELSTOKE, C.B.

<i>Salaries and Wages—Traitements et salaires:</i> —W. H. Moore, warden, \$1,653; mechanics, labourers, etc., \$6,291.63.	7,944 63
<i>Travelling Expenses—Frais de voyages:</i> —R. W. Langford, \$121.50; E. N. Russell, \$146.40; sundry, \$35.50.	303 40
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Auto repairs and renewals, \$516.11; building supplies and hardware, \$257.39; explosives, \$99.15; fire fighting equipment, \$196.98; gasoline and oil, \$348.69; provisions, \$368.50; sundries, \$31.16; total, \$1,817.98 less board and stores supplied employees, \$301.35.	1,516 63
<i>Miscellaneous—Divers:</i> —Auto and truck hire, \$133; telephone rents and tolls, \$44.70; sundry, \$18.37.	196 07
	9,960 73

RIDING MOUNTAIN PARK—PARC DE RIDING MOUNTAIN

<i>Salaries and Wages—Traitements et salaires:</i> —J. Smart, forestry eng. (acting supt.), 8 m. to Nov. 30 at \$3,819 (transferred to Ottawa); O. Heaslip, supt., 4 m. to Mar. 31 at \$2,451; clks.: J. S. Chalmers, \$1,539; G. A. Fairbairn, \$1,710; A. G. H. Mast, 4 m. to Mar. 31 at \$1,425; forest assts.: D. B. Bingley, 8 m. at \$1,254 and house, warden, 4 m. at \$1,425; P. J. Brodie, 8 m. at \$1,254 and house, warden, 4 m. at \$1,425; J. A. Hjalmarson, 8 m. at \$1,710, warden, 4 m. at \$1,653; J. F. May, 8 m. at \$1,710, warden, 4 m. at \$1,653; W. A. Scott, \$2,052; G. Palsen, warden, \$1,653; mechanics, labourers, etc., \$36,688.45.	53,474 85
<i>Travelling Expenses—Frais de voyages:</i> —O. E. Heaslip, \$270.15; sundry, \$17.10.	287 25
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Brewster Transport Co., Banff, roal oil, \$2,142.55; Imperial Oil Co. Ltd., Winnipeg, gasoline and oil, \$2,348.30; accounts under \$1,000: auto repairs and renewals, \$1,086.02; building supplies and hardware, \$616.78; camp equipment, \$459.85; electrical supplies, \$339.64; fire fighting equipment, \$147.87; forage, \$1,611.01; gasoline and oil, \$3,924.57; harness, \$42.41; machinery, \$1,151.16; photographic supplies, \$41.97; provisions, \$2,745.34; plants and seeds, \$76.37; smithwork, \$108.10; sundry, \$56.57; total, \$16,898.51, less board and stores supplied employees, \$3,758.64.	13,139 87
<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies....	190 73
<i>Miscellaneous—Divers:</i> —Canadian Airways, Winnipeg, aerial survey, \$5,316; accounts under \$1,000: express and freight, \$254.77; postage, \$285.12; telegrams and telephones, \$160.29; sundry, \$80.72.	6,096 90
	73,189 60

ST. LAWRENCE ISLANDS PARK—PARC DES ÎLES DU SAINT-LAURENT

<i>Salaries and Wages—Traitements et salaires:</i> —Caretakers: P. D. Carson, \$279.88; T. Ferris, \$308.76; E. Fitzgibbon, \$199.92; T. Glover, \$108.36; D. C. Riddell, \$98.39; J. Manor, \$99.96; D. E. Root, \$125.04; G. Seargeant, \$199.92; A. Truesdell, \$150; mechanics, labourers, etc., \$1,175.65.	2,745 68
<i>Travelling Expenses—Frais de voyages:</i> —N. C. Sparks, \$44.74; J. E. Spero, \$81.02.	125 76
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Building supplies and hardware, \$739.53; camp equipment, \$119.76; fire fighting equipment, \$27.39; gasoline and oil, \$35.03; motor boat supplies, \$29.97; sundries, \$25.79.	977 47
<i>Printing and Stationery—Impressions et papeterie:</i> —King's Printer, supplies....	16
<i>Miscellaneous—Divers:</i> —Motor boat hire, \$66.20; sundries, \$49.85.	116 05
	3,965 12

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

DOMINION LANDS AND PARKS—Con.—DOMAINE ET PARCS DE L'ÉTAT—Suite

Votes — Crédits 172 & 495 — Canadian National Parks—Con. — Parcs nationaux du Canada—Suite

WATERTON LAKES PARK — PARC DES LACS WATERTON

<i>Salaries and Wages—Traitements et salaires:—</i> H. Knight, supt., \$2,094 and house; Provincial Treasurer, Alta. (salary of J. W. Low, police magistrate), \$200; clks.: R. E. Ayres, \$1,080; H. T. Galbraith, 8 m. at \$1,197, 4 m. at \$1,311; G. E. Bailey, hatchery supt., \$1,476 and house; W. C. Cable, hatchery asst., \$1,311; J. C. Holroyd, suvr. warden, 6 m. at \$1,824, 6 m. at \$1,938; wardens: B. Barnes, \$1,653; J. M. Giddie, \$1,653; L. S. McAllister, \$1,653; mechanics, labourers, etc., \$29,844.17.....	44,082 17
<i>Travelling Expenses—Frais de voyages:—</i> C. K. Le Capelain, \$406.62; A. J. Dayman, \$65.05; H. Knight, \$269.74; E. Smith, \$40.35; sundry, \$91.46.....	873 22
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:—</i> Brewster Transport Co., Banff, road oil, \$4,460.50; Cardston Motors, gasoline and oil, \$2,233.59; accounts under \$1,000: auto repairs and renewals, \$905.40; building supplies and hardware, \$2,161.59; camp equipment, \$813.94; coal, \$447.25; electrical supplies, \$337.28; fire fighting equipment, \$221.37; forage, \$900.30; gasoline and oil, \$207.29; machinery, \$1,408.81; medical supplies, \$119.28; provisions, \$1,145.22; plants and seeds, \$162.25; sundries, \$144.52; total, \$15,668.59 less board and stores supplied employees, \$662.35.....	15,006 24
<i>Printing and Stationery—Impressions et papeterie:—</i> King's Printer, supplies....	254 17
<i>Miscellaneous—Divers:—</i> Care of indigents, \$933.13; electric power, \$400.45; express and freight, \$190.57; fish eggs, \$480.63; horses, 2, \$250; postage, \$100; telegrams and telephones, \$404.87; sundries, \$149.46.....	2,909 11 63,124 91

WAWASKESY PARK — PARC DE WAWASKESY

<i>Salaries and Wages—Traitements et salaires:—</i> J. W. Smith, caretaker.....	199 92
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YOHO PARK — PARC DE YOHO

<i>Salaries and Wages—Traitements et salaires:—</i> E. N. Russell, supt., \$2,655 and house; clks.: C. Hack, \$1,824 (deceased); J. Mather, \$1,311; R. W. Langford, suvr. warden, \$1,881; wardens: J. Burkitt, \$1,653; B. Coppock, \$1,653; C. V. Nickolson, \$1,482; J. Tocher, \$1,653; mechanics, labourers, etc., \$22,114.92.....	36,226 92
<i>Travelling Expenses—Frais de voyages:—</i> G. Hill, \$157.15; G. F. Horsey, \$89.70; E. N. Russell, \$258.04; sundry, \$74.31.....	579 20
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:—</i> Brewster Transport Co., Banff, road oil, \$5,391.39; T. King, Golden, provisions, \$1,553.21; Salmon Arm Farmers Exchange, forage, \$1,010.43; Union Oil Co., Calgary, gasoline and oil, \$2,199.36; accounts under \$1,000: auto repairs and renewals, \$2,299.64; building supplies and hardware, \$1,282.40; camp equipment, \$327.24; coal, \$321.41; explosives, \$717.27; fire fighting equipment, \$337.89; forage, \$440.60; gasoline and oil, \$155.75; harness, \$95.66; machinery, \$1,313.78; medical supplies, \$92.86; provisions, \$572.54; telephone equipment, \$64.57; sundries, \$101.87; total, \$18,277.85 less board and stores supplied employees, \$1,377.02.....	16,900 83
<i>Printing and Stationery—Impressions et papeterie:—</i> King's Printer, supplies....	143 05
<i>Miscellaneous—Divers:—</i> Crossings maintenance, \$184.31; electric power, \$94.04; express and freight, \$211.37; postage, \$137; sundries, \$114.51.....	741 23 54,591 23

FIELD ENGINEERING SERVICES — SERVICE DES ARPENTEURS

<i>Salaries and Wages—Traitements et salaires:—</i> Ottawa (Page L—25), \$3,719.25; outside: A. G. Wilkins, sr. asst. eng., May 11 to Feb. 4 at \$2,907; C. M. Walker, surveys eng., 8 m. at \$3,120.75, 4 m. at \$3,249; asst. engs.: C. R. Cornish, 4 m. to Mar. 31 at \$2,109 less 12 d.; T. C. Fenton, 4 m. to Mar. 31 at \$2,109; E. J. Garrett, 8 m. at \$1,539, 4 m. at \$1,710; C. K. Le Capelain, \$2,565; J. H. Mitchell, 8 m. at \$2,565, 4 m. at \$2,907; P. Shaw, \$2,337; W. H. Snelson, \$2,565; J. Dudley, asst. architect, 1 m. at \$2,337; clks. and stens.: E. G. Kay, \$1,539; R. T. Meredith, \$1,710; L. P. Turbayne, \$1,080; R. M. Underwood, 8 m. at \$2,280, 4 m. at \$2,394; W. M. Oxborough, sr. draughtsman, \$2,052; mechanics, labourers, etc., \$8,955.80.....	39,948 88
<i>Travelling Expenses—Frais de voyages:—</i> J. H. Byrne, \$139.80; T. S. Mills, \$1,009.24; J. H. Mitchell, \$126.90; C. M. Walker, \$44.40; sundry, \$72.51.....	1,392 85

MINES AND RESOURCES—MINES ET RESSOURCES

DOMINION LANDS AND PARKS—*Con.*—DOMAINE ET PARCS DE L'ÉTAT—*Suite*Votes — Crédits 172 & 495 — Canadian National Parks—*Conc.* — Parcs nationaux du Canada—*Fin*FIELD ENGINEERING SERVICES—*Conc.*—SERVICE DES ARPEUTEURS—*Fin*

<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.—</i>	
Auto repairs and renewals, \$2,707.01; building supplies and hardware, \$651.55; coal, \$504.60; electrical supplies, \$67.73; fire fighting equipment, \$370.17; gasoline and oil, \$1,373.64; liquid air, \$257.33; machinery, \$242.75; photographic supplies, \$181.16; sundries, \$19.51.....	6,375 45
<i>Printing and Stationery—Impressions et papeterie:—</i> King's Printer, supplies....	1,226 98
<i>Miscellaneous—Divers:—</i> Express and freight, \$401.23; postage, \$159.50; sundries, \$42.73.....	603 46
	<u>49,547 62</u>

GENERAL—EN GÉNÉRAL

<i>Adjustments—Ajustements:—</i> Balance of advance refunded to Casual Revenue 1937-38, B. I. Love, \$41.16; various employees (A.G.'s Report 1923-24, Page K—80), \$16.44.....	57 60
	<u>1,102,925 86</u>

Less—

Charged to Vote 395†: Cost of Fighting Fires in National Parks (Page L—104).....	\$ 39,896 49
Department of Agriculture, Cattalo operations, Buffalo Park, \$813.16; Department of Public Works, share cost of caretaking and heating Administration Bldg., Banff, \$1,245.40; Province of Alberta, fish hatchery work, Banff, \$1,680, Jasper, \$50.27, Waterton, \$838.55; outstanding from previous years, \$16.44.....	4,643 82
	<u>44,540 31</u>
	<u>\$1,058,385 55</u>

Classified as follows—Classifiées comme suit:—

<i>Salaries and Wages—</i>	
Ottawa.....	106,744 64
Outside.....	689,129 33
Travelling Expenses.....	10,007 70
<i>Materials, Supplies, Repairs, etc.—</i>	
General.....	209,571 20
New Autos and Auto Repairs, etc.....	22,250 48
Printing and Stationery.....	15,520 29
Miscellaneous.....	48,915 99
Other Outlay.....	728 63
	<u>1,102,868 26</u>
<i>Less—Adjustments.....</i>	<u>44,482 71</u>
	<u>\$1,058,385 55</u>

Vote — Crédit 395† — Cost of Fighting Forest Fires in National Parks Governor General's Warrant of September 17, 1936 — Pour combattre les feux de forêts dans les parcs nationaux du Canada (mandat du Gouverneur général du 17 septembre 1936)

Cost of fighting forest fires in the National Parks (Governor General's Warrant, September 17, 1936), as follows:—

Banff, \$18,700; Georgian Bay Islands, \$33.20; Glacier, \$57.50; Jasper, \$5,919.65; Point Pelee, \$1,834.84; Prince Albert, \$11,312.87; Revelstoke, \$1,621.49; Riding Mountain, \$315; Waterton Lakes, \$73.50; Yoho, \$28.44.....	\$ 39,896 49
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† Supplementary vote — Crédit supplémentaire.

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

DOMINION LANDS AND PARKS—Conc.—DOMAINE ET PARCS DE L'ÉTAT—Fin

Votes — Crédits 172 & 495 — Migratory Birds Convention Act — Loi de la convention concernant les oiseaux migrateurs

<i>Salaries and Wages — Traitements et salaires:—</i>	
Ottawa	(Page L—25) 8,876 26
Outside:—Chief migratory bird officers: H. F. Lewis, Ontario and Quebec, \$2,394; J. A. Munro, British Columbia, \$2,394; R. W. Tufts, Maritime Provinces, \$2,394; J. D. Soper, Prairie Provinces, 8 m. at \$1,938, 4 m. at \$2,394; game warden, J. Miner, Kingsville, Ont., \$750; sten., M. J. Creighton, Wolfville, N.S., \$840; labourers, \$1,642.08; asst. mig. bird wardens and sanctuary caretakers: British Columbia, 5, \$364.80; Maritime Provinces, 3, \$434.83; Ontario, 1, \$125.04; Quebec, 14, \$2,786.64.....	16,215 39
<i>Travelling Expenses — Frais de voyages:—</i> E. Carbonneau, \$121.66; H. F. Lewis, \$635.53; H. Lloyd, \$309.70; J. A. Munro, \$821.24; J. D. Soper, \$1,067.39; R. W. Tufts, \$1,076.74; sundry travel, \$21.70.....	4,053 96
<i>Materials, Supplies, Repairs, etc. — Matériel, fournitures, réparations, etc.:—</i> Auto repairs and renewals, \$301.77; bird feed, \$58.90; boat supplies and repairs, \$146.69; Chevrolet coupe, \$780.05, less \$200 allowed on old car; gasoline and oil, \$692.95; hardware, \$100.65; photographic processing and supplies, \$166.44; provisions, \$753.57; repairs, \$41.30; sundries, \$49.68.....	2,892 00
<i>Printing and Stationery — Impressions et papeterie:—</i> King's Printer, supplies....	1,097 28
<i>Miscellaneous — Divers:—</i> Advertising, \$27.78; boat hire, \$841.12; boat storage, \$85; cost of prosecutions, \$37.15; dog hire, \$50; expenses of Provincial Officials at Game Conference (O.C. Dec. 29, 1936), \$904.95; express, freight and cartage, \$284.55; garage rent, \$81; postage, \$186.53; telegrams and telephones, \$406.53; sundries, \$27.80.....	2,932 41
<i>Other Outlay — Autres déboursés:—</i> Purchase of building at Pointe à la barque, Que.....	110 00
<i>Adjustments — Ajustements:—</i> Outstanding from previous years, J. Weir.....	10 00
	<hr/>
<i>Less—</i> Outstanding as above.....	10 00
	<hr/>
	\$ 36,177 30

Vote — Crédit 172 — Costs of Litigation and Legal Expenses — Frais judiciaires et de litiges

<i>Miscellaneous — Divers:—</i> Legal fees, D. D. Boyd, \$1,700; sundry accounts under \$100, \$201.81.....	\$ 1,901 81
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MISCELLANEOUS — DIVERS

Vote — Crédit 210 — Unforeseen Expenses — Dépenses imprévues

<i>Other Outlay — Autres déboursés:—</i> Wreath for the late Colonel D. W. MacCormack, Commissioner of Immigration and Naturalization in the United States Government at Washington. Authorized by Treasury Board, Minute T167809 B of January 26, 1937.....	\$ 15 00
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Vote — Crédit 222 — Grant to Mrs. E. B. Hutcheson — Allocation à Mme E. B. Hutcheson

<i>Loans, Grants, Subsidies, etc. — Prêts, allocations, subventions, etc.:—</i> Amount paid.....	\$ 1,200 00
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MINES AND RESOURCES—MINES ET RESSOURCES

MISCELLANEOUS—*Con.* — *DIVERS—Suite*

Vote — Cr dit 223 — John Thomas (Jack) Miner, Assistance to Wild Life Conservation Work — Subvention   John Thomas Miner pour la conservation des animaux sauvages

Loans, Grants, Subsidies, etc. — *Pr ts, allocations, subventions, etc.*:—Amount paid. \$ 4,000 00

Under Statute — Statutaire

Other Outlay — Autres d bours s:—

Natural Resources Refunds Account: Refunds made in 1936-37 under authority of the Refunds (Natural Resources) Act, 1932, of dues, fees, guarantee deposits, etc., received in connection with the administration of the natural resources prior to the transfer thereof to the western provinces.....	2,062 72
Relief Act, 1933: cheque issued in May, 1933, and lost by payee. Duplicate cheque deposited to Special Receipts in 1934-35 and now re-issued.....	12 00
	<u>\$ 2,074 72</u>

Votes — Cr dits 228 & 385† — Payments in Connection with Movements of Coal under Conditions prescribed by the Governor in Council and for the Cost of Administration thereof — Subvention pour les transports de houille, tel qu'autoris  par le Gouverneur en son Conseil, et frais d'administration

<i>Salaries and Wages — Traitements et salaires:</i> —Ottawa..... (Page L—26)	2,565 00
<i>Travelling Expenses — Frais de voyages:</i> —J. R. Cox, \$344.40; T. E. Mackie, \$26.90; T. Marshall, \$99.45; F. G. Neate, \$510.91; E. Swartzman, \$10.55.....	992 21
<i>Printing and Stationery — Impressions et papeterie:</i> —King's Printer, supplies....	539 15
<i>Miscellaneous — Divers:</i> —Telegrams, \$1,335.72; telephones, \$127.70.....	1,463 42
<i>Loans, Grants, Subsidies, etc. — Pr�ts, allocations, subventions, etc.:</i> —Subventions paid on Canadian coal: Acadia Coal Company, Limited, Sydney, N.S., \$19,900.10; Canadian Collieries (Dunsmuir), Limited, Nanaimo, B.C., \$122,720.84; Canadian Import Company, Limited, Montreal, \$5,845.14; Canadian National Railways, \$538,825.99; Canadian Pacific Railway Company, \$600,267.94; Cumberland Railway and Coal Company, \$141.89; Dominion Coal Company, Limited, \$750,746.67; Maritime Coal, Railway and Power Company, Limited, \$4,693.24; Morrissey, Fernie and Michel Railway, Fernie, B.C., \$33.53; Sydney and Louisburg Railway, N.S., \$176,845.28; less sundry refunds, \$2,709.87.....	2,217,310 75
	<u>\$2,222,920 53</u>

Under Statute — Statutaire — Gratuities, C.S. Act, Chap. 22, Sec. 56, R.S.C., 1927 — Gratifications en vertu du Chapitre 22, art. 56, S.R.C., 1927

Other Outlay — Autres d bours s:—

Gratuities of two months' salary of deceased employees—	
Immigration and Colonization: J. C. Donohue, Niagara Falls, Ont., \$300; G. A. Hallett, Grand Falls, N.B., \$16.66; T. E. Jones, Fort Erie, Ont., \$300; L. A. McAlister, White Pass, B.C., \$50; F. Pare, Montreal, Que., \$210; M. R. J. Reid, Vancouver, B.C., \$440; S. Taylor, Amherstburg, Ont., \$16.67; P. R. Valiquette, Ottawa, Ont., \$400.....	1,733 33

† Supplementary vote — Cr dit suppl mentaire.

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

MISCELLANEOUS—Conc.—DIVERS—Fin

**Under Statute — Statutaire — Gratuities, C.S. Act, Chap. 22, Sec. 56, R.S.C., 1927
—Conc. — Gratifications en vertu du Chapitre 22, art. 56, S.R.C., 1927—Fin**

Other Outlay—Conc.—Autres déboursés—Fin

Indian Affairs: G. P. Collins, Battleford, \$270; Rev. J. A. McDonald, Prince Edward Island, \$160; Dr. A. Montreuil, Duck Lake, \$80; Dr. H. J. Nunn, Yukon, \$200; J. N. Stone, Moravian, \$230.....	940 00
Interior: K. H. Bingay, Banff, \$320; F. L. Christie, Ottawa, \$480; C. Hack, Yoho, \$320; D. H. Macdonald, Ottawa, \$360; G. E. Purvis, Ottawa, \$620; J. J. Shea, Ottawa, \$360; H. C. L. Tupper, Ottawa, \$400.....	2,860 00
Mines: W. H. Collins, Ottawa.....	900 00
	<u>\$ 6,433 33</u>

MISCELLANEOUS CHARGES PAID DIRECT FROM CONSOLIDATED FUND
MONTANTS DIVERS PAYÉS À MÊME LE FONDS CONSOLIDÉ

Under Statute — Statutaire

Other Outlay — Autres déboursés:—

Seed Grain and Relief Account: amounts written off by the Interior Department during 1936-37 under authority of Chap. 51, 17 Geo. V, Sec. 1, \$44,423.73; collected and retained by the Province of Saskatchewan as commission on collections, \$2.	\$ 44,425 73
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Under Statute — Statutaire

Other Outlay — Autres déboursés:—

Empire Settlement Scheme, assisted passage loans—reduction in the loans of those migrants who settled on the land under the 3,000 Family Settlement Scheme allowed under the Farmers Creditors' Arrangement Act.....	\$ 53 10
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THE UNEMPLOYMENT RELIEF AND ASSISTANCE ACT, 1936
LOI POUR REMÉDIER AU CHÔMAGE, 1936

Indian Affairs — Affaires Indiennes

Vote — Crédit 316 — To Provide for Completion of Qu'Appelle Indian Hospital at Fort Qu'Appelle, Saskatchewan — Montant pour achever la construction de l'hôpital des Indiens à Fort Qu'Appelle, Saskatchewan

<i>Salaries and Wages—Traitements et salaires:—</i> Architect, K. L. Thompson, \$2,253.35 less \$1,600.50 paid in 1935-36.....	652 85
<i>Materials, Supplies Repairs, etc.—Matériel, fournitures, réparations, etc.:—</i> Equipment and materials.....	3,520 22
<i>Other Outlay—Autres déboursés:—</i> Contract, Smith Bros. and Wilson (O.C. Aug. 17, 1935), \$81,873 less \$73,685.70 paid in 1935-36, extras, \$17,126.59 less \$7,600 paid in 1935-36.....	17,713 89
<i>Adjustments—Ajustements:—</i> Surveys and Engineering Branch, \$24,038.83 less \$24,016.35 charged in B.C. Special Grant, etc.	22 48
	<u>\$ 21,909 44</u>

MINES AND RESOURCES — MINES ET RESSOURCES

THE UNEMPLOYMENT RELIEF AND ASSISTANCE ACT, 1936-*Con.*
LOI POUR REMÉDIER AU CHÔMAGE, 1936-*Suite*

Indian Affairs—Conc.—Affaires Indiennes—Fin

Vote — Crédit 317 — To Provide for repairs and improvements to Government buildings and new buildings, and assistance to building projects relating to Indian administration — Montant pour l'entretien, l'amélioration des édifices de l'État, comme aussi pour de nouvelles constructions et concourir aux dépenses de constructions prévues pour les services de l'administration des affaires indiennes

<i>Salaries — Salaires:</i> —Qu'Appelle Nurses' Residence, architect, K. L. Thompson....	350 97
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Construction and repairs to Agency buildings and Indian dwellings: Battleford, \$2,382.57; Birtle, \$276.66; Blackfoot, \$5,574.24; Carlton, \$4,670.69; Caughnawaga, \$7,859.05; Crooked Lake, \$1,021.50; Duck Lake, \$1,367.05; Edmonton, \$11,655.68; Fisher River, \$1,962.53; Fort Alexander Residential School, \$560; Fort Smith, \$3,133.31; Golden Lake, \$99.40; Inverness, \$75; Lady Willingdon Hospital, \$527.82; New Brunswick East, \$99.90; New Brunswick West, \$199.10; Norway House, \$3,495.94; Onion Lake, \$777.83; Pas, \$4,195.36; Peigan, \$4,061.49; Pelly, \$191.88; Port Arthur, \$64.21; Portage la Prairie, \$271.48; Prince Edward Island, \$142.71; Qu'Appelle, \$1,500.65; Qu'Appelle Nurses' Residence, \$15,598.95; Saddle Lake, \$8,520.42; Stuart Lake, \$65.50; Vancouver, \$1,990.43.....	82,341 35
<i>Other Outlay — Autres déboursés:</i> —Caughnawaga, compensation for land occupied by Indian locatee.....	600 00
<i>Loans, Grants, Subsidies, etc.—Prêts, allocations, subventions, etc.:</i> —Hawk Junction, Ont., Hospital (O.C. Oct. 28, 1936 and Mar. 31, 1937), \$2,000; Red Cross Hospital, Jellicoe, Ont. (O.C. Aug. 28, 1936), \$500; St. Bartholomew's C. of E. Hospital, Lytton, B.C. (O.C. June 24, 1936), \$12,000; Tofino, B.C. Hospital (O.C. Nov. 20, 1936), \$1,000; Winnipegosis, Man., R.C. Hospital (O.C. Dec. 21, 1936), \$12,000; Berens River (O.C. Jan. 28, 1937); The Oblate Order, residence, \$4,000; Dept. of Public Works, dredging, \$1,304.....	32,804 00
	<u>\$ 116,096 32</u>

Vote — Crédit 318 — To provide for erection of Indian Schools — Construction d'écoles pour les Indiens

<i>Salaries — Salaires:</i> —Inspectors of Construction at \$200 per month, Nov. 24-30, R. A. Hoey, D. M. McKay, Dr. T. Robertson.....	133 00
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Construction of day schools, Christian Island, Ont., \$5,023.41; Kitselas, B.C., \$4,072.21; Seine River, Ont., \$1,698.74.....	10,794 36
	<u>\$ 10,927 36</u>

Vote — Crédit 319 — To provide for construction of roads, bridges and other engineering works on Indian Reserves — Construction de routes, ponts et autres travaux dans les réserves indiennes

<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:</i> —Babine, \$100; Berسيمis, \$1,295.82; Caradoc, \$5,454.90 less \$1,941.73 refunded by Province of Ontario; Caughnawaga, \$463.40; Cowichan, \$961.99; Golden Lake, \$100; Maniwaki, \$996.02; Pointe Bleue, \$1,484.85; Port Arthur, \$1,998.18; Portage la Prairie, \$1,000; Richmond, \$400; Sydney, \$400; Tyendinaga, \$2,000 less \$782.88 refunded by Province of Ontario.....	13,930 55
<i>Adjustments — Ajustements:</i> —Surveys and engineering Branch (Page L—95), \$24,038.83 less \$19,775.78 charged to Generally, Vote 166, etc.	4,263 05
	<u>\$ 18,193 60</u>

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

THE UNEMPLOYMENT RELIEF AND ASSISTANCE ACT, 1936—Con.
LOI POUR REMÉDIER AU CHÔMAGE, 1936—Suite

Interior — Intérieur

Vote — Crédit 320 — National Parks — Parcs Nationaux

ADMINISTRATION BUILDING AT BANFF, ALTA. BUREAUX DE L'ADMINISTRATION, BANFF (ALBERTA)	
Continuation of work on administration building at Banff, Alta.....	33,676 54
OTHER BUILDINGS—CONSTRUCTION AND REPAIRS AUTRES ÉDIFICES: CONSTRUCTIONS ET RÉPARATIONS DIVERSES	
Banff Park:—	
Eastern gateway registration building and staff quarters, \$5,937.60; Cave and basin bathhouse, extension, \$11,726.17; administration and Post Office building, installations of telephones, etc., \$1,234.77; Upper Hot Springs bathhouse, improvements, \$324.11.	19,222 65
Glacier Park:—	
Completion of warden's cabin and storehouse.....	158 02
Jasper Park:—	
Superintendent's residence and garage, \$5,731.37; Miette Hot Springs bathhouse and swimming pool, \$57,034.11; gateway registration building, \$200.....	62,965 48
Riding Mountain Park:—	
Completion of staff quarters and equipment for fire hall.....	5,492 62
Waterton Lakes Park:—	
Completion of community buildings at townsite camp grounds and Cameron Lake camp grounds and also completion of extension to the administration building.	7,076 37
Yoho Park:—	
Construction of buildings near Field for road and camp equipment.....	2,487 03
Historic Sites:—	
Construction of show cases for reconstructed museum at Fort Anne, N.S. and completion of museum at Fort Chambly, Que.....	4,434 05 101,836 22
LANDING FIELDS—CONSTRUCTION INSTALLATIONS DE TERRAINS D'ATTERRISSAGE	
Banff Park:—	
Continuation of construction on aeroplane landing field at Banff.....	4,081 85
MUNICIPAL SERVICES—CONSTRUCTION, IMPROVEMENTS, AND EXTENSIONS SERVICES MUNICIPAUX: AGRANDISSEMENTS, CONSTRUCTIONS ET AMÉLIORATIONS	
Banff Park:—	
Continuation of construction of sewage disposal system, Lake Louise townsite..	2,260 92
Jasper Park:—	
Cleaning up and finishing work re sewer and water installations which, owing to weather conditions, could not be carried on during the winter months....	994 24
Kootenay Park:—	
Completion of works initiated for the construction of sewage disposal plant and treating equipment	6,793 73
Riding Mountain Park:—	
Completion of basic part of water supply system and of an electric distributing system.	9,870 48
Waterton Lakes Park:—	
Installation of electric lighting and power distributing system.....	1,474 93 21,394 30
RECREATIONAL AREAS—EXTENSIONS AND IMPROVEMENTS TERRAINS DE SPORT: AGRANDISSEMENTS ET AMÉLIORATIONS	
Banff Park:—	
Continuation of work re the sulphur water line from Middle Springs to the cave and basin bathhouse.....	1,112 75
Prince Albert Park:—	
General development of townsite and recreational areas.....	233 60
Riding Mountain Park:—	
Continuation of work re piping of water to the second nine holes of the golf course and for the completion of a power line from Wasagaming townsite to the clubhouse	5,446 11
Waterton Lakes Park:—	
Continuation of work re piping of water to the second nine holes of the golf course.	1,977 73 8,770 19

MINES AND RESOURCES — MINES ET RESSOURCES

THE UNEMPLOYMENT RELIEF AND ASSISTANCE ACT, 1936-*Con.*
LOI POUR REMÉDIER AU CHÔMAGE, 1936-*Suite*

Interior-Con. — Intérieur-Suite

Vote — Crédit 320 — National Parks—*Conc.* — Parcs Nationaux—*Fin*

ROADS—CONSTRUCTION AND REPAIRS
GRANDES ROUTES: CONSTRUCTION ET ENTRETIEN

Banff Park:—	
Banff-Jasper Highway	11,979 61
Jasper Park:—	
Banff-Jasper Highway	12,009 54
Kootenay Park:—	
Banff-Windermere Highway	7,980 72
Waterton Lakes Park:—	
Belly River International Highway	6,997 83
Golden Revelstoke Highway:—	
To complete contract requirements, plus commitments assumed by the department in connection with haulage of steel and construction of approaches, including materials, supplies, equipment and wages	69,231 94
	<u>108,199 64</u>

TOWNSITE DEVELOPMENT — KOOTENAY PARK
EXTENSION DE L'EMPLACEMENT DE LA VILLE—PARC KOOTENAY

Amount paid 2,311 06

ENGINEERING SUPERVISION AND GENERAL
TRAVAUX DU GÉNIE ET EN GÉNÉRAL

Amount paid 12,389 13

RELIEF—PERMANENT RESIDENTS OF THE PARK
SECOURS AUX PERSONNES RESIDENT DANS LE PARC

Banff Park, \$31,529.19; Jasper Park, \$8,039.52; Waterton Lakes Park, \$408.88; Yoho Park, \$718.95; General Administration, \$1,997.38 42,693 92

RELIEF—SINGLE HOMELESS MEN
SECOURS AUX CÉLIBATAIRES

Prince Albert Park 30,741 02

\$ 366,093 87

Classified as follows — Classifiées comme suit:—

Salaries and Wages	198,301 64
Travelling Expenses	3,706 87
Materials, Supplies, Repairs, etc.—	
General	92,501 23
New Autos and Auto Repairs, etc.	1,560 44
Printing and Stationery	77 49
Miscellaneous	7,885 18
Other Outlay	62,061 02

\$ 366,093 87

DETAILS OF EXPENDITURE—*Con.*—DÉTAIL DES DÉPENSES—*Suite*

THE UNEMPLOYMENT RELIEF AND ASSISTANCE ACT, 1936—*Con.*
LOI POUR REMÉDIER AU CHÔMAGE, 1936—*Suite*

Interior—Con.—Intérieur—Suite

Vote — Cr dit 321 — Forest Service — Water supply system, building, construction and repairs — Services forestiers; aqueducs; constructions et entretien

Petawawa Forest Experiment Station.....	3,088 88
Acadia Forest Experiment Station.....	277 70
Duck Mountain Forest Experiment Station.....	45 87
	<u>\$ 3,412 45</u>

Classified as follows — Classifi es comme suit:—

Salaries and Wages.....	539 73
Materials, Supplies, Repairs, etc.—	
General.....	2,866 81
Miscellaneous.....	5 91
	<u>\$ 3,412 45</u>

Vote — Cr dit 322 — Northwest Territories: Continuation of development and improvement of Landing Fields and Air Harbours — Territoires du Nord-Ouest: Agrandissement et entretien des terrains d'atterrissage et des a roports

Salaries and wages, \$3,234.25; travelling expenses, \$138.95; materials, supplies, etc., general, \$2,812.69; miscellaneous, \$386.70.....	\$ 6,572 59
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Vote — Cr dit 323 — Yukon Territory — Highways, bridges, landing fields and air harbours: Construction and Repairs — Territoire du Yukon: Construction et r parations; routes, ponts, terrains d'atterrissage et a roports

Salaries and wages, \$27,277.09; materials, supplies, etc.: general, \$24,940.33; new autos and auto repairs, etc., \$35; miscellaneous, \$4,365.22; other outlay, \$3,200..	\$ 59,817 64
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Vote — Cr dit 324 — National Parks — Parcs Nationaux

BUILDINGS—CONSTRUCTION AND REPAIRS, INCLUDING BUFFALO ABATTOIR, \$20,000
CONSTRUCTION ET R PARATIONS Y COMPRIS L'ABATTOIR DES BUFFLES: \$20,000

Banff Park:—	
Central garage, completion, \$1,294.94; Cascade power plant, addition to chief operator's residence, \$493.31; superintendent's residence, improvements, \$616.96	2,405 21
Buffalo Park:—	
Abattoir for buffalo slaughter, \$19,957.96; painting park buildings, \$967.61....	20,925 57
Elk Island Park:—	
Golf clubhouse, \$4,991.15; painting buildings, at Sandy Beach, \$196.63.....	5,187 78
Fort Anne Park:—	
Completion of necessary further work, including museum fittings and improvement of grounds.....	496 90
Fort Beausejour Park:—	
Museum fittings and improvement of grounds.....	1,170 13
Georgian Bay Islands Park:—	
Stable and storehouse Beausoleil Island.....	731 35

MINES AND RESOURCES — MINES ET RESSOURCES

THE UNEMPLOYMENT RELIEF AND ASSISTANCE ACT, 1936-*Con.*
LOI POUR REMÉDIER AU CHÔMAGE, 1936-*Suite*

Interior—Con. — Intérieur—Suite

Vote — Crédit 324 — National Parks—Con. — Parcs Nationaux—Suite

BUILDINGS—CONSTRUCTION AND REPAIRS, INCLUDING BUFFALO ABATTOIR, \$20,000— <i>Conc.</i>	
CONSTRUCTION ET RÉPARATIONS Y COMPRIS L'ABATTOIR DES BUFFLES: \$20,000— <i>Fin</i>	
Jasper Park:—	
Fire hall, \$10,456.12; toilet building and fittings (Cottonwood Creek Campsite), \$2,170.55.....	12,626 67
Kootenay Park:—	
Installation of showers equipped with hot water supply.....	819 93
Point Pelee Park:—	
Additional comfort stations.....	1,197 98
Prince Albert Park:—	
Administration Building, improvements, \$4,461.41; gatekeeper's cottage, \$2,784.79; community hall (addition), \$11,415.74; district warehouses (3) for forest fire-fighting equipment, \$1,989.79.....	20,651 73
Riding Mountain Park:—	
Gateway building, north entrance, \$2,966.92; barn, buffalo enclosure, \$685.62....	3,652 54
St. Lawrence Island Park:—	
Reconstruction of pavilion on Grenadier Island.....	1,391 21
Waterton Lakes Park:—	
Addition to men's bathhouse.....	1,943 66
Yoho Park:—	
Buildings for road and camp equipment, east section near boundary and west section near Misko, \$2,997.14; caretaker's lodge at Kicking Horse camp grounds, \$1,446.50; warehouse for fire-fighting equipment, \$634.25.....	5,077 89
Historic Sites:—	
Fort Louisburg, N.S., museum fittings and lighting plant, improvement of grounds and development work and excavation of ruins, \$10,978.26; Fort Lennox, P.Q., restoration and repairs, \$3,498.11; Fort Chambly, P.Q., completion of museum building, including fittings and improvement of grounds, \$2,573.86.....	17,050 23 95,328 73
FOREST AND GAME CONSERVATION WORK — CONSERVATION DES FORÊTS ET DU GIBIER	
Banff Park:—	
Forest telephone line, Banff-Jasper Highway, \$4,989.62; trail construction and improvement (general), \$2,995.80.....	7,985 42
Buffalo Park:—	
Bored wells in main park for emergency animal water supply.....	768 00
Elk Island Park:—	
Fencing along South Gate road, \$499.07; fire-guarding, park boundary fence, \$501.67.....	1,000 74
Jasper Park:—	
Forest telephone line, Banff-Jasper Highway, \$4,872.84; trail construction and improvement (general), \$2,998.05.....	7,870 89
Prince Albert Park:—	
Forest telephone system, improvement and extensions, \$484.39; trail construction and improvement (general), \$495.28.....	979 67
Riding Mountain Park:—	
Forest telephone system, improvement and extensions, \$737.17; trail construction and improvement (general), \$649.65; corrals at animal paddock, \$498.08..	1,885 80
Waterton Lakes Park:—	
Forest telephone system, improvement and extensions, \$497.50; trail construction and improvement (general), \$998.74.....	1,496 24
Yoho Park:—	
Forest telephone system, improvement and extensions, \$472.91; trail construction and improvement (general), \$999.....	1,471 91 23,458 67

DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

THE UNEMPLOYMENT RELIEF AND ASSISTANCE ACT, 1936—Con.
LOI POUR REMÉDIER AU CHÔMAGE, 1936—Suite

Interior—Con. — Intérieur—Suite

Vote — Crédit 324 — National Parks—Con. — Parcs Nationaux—Suite

MUNICIPAL SERVICES—CONSTRUCTION, EXTENSIONS AND IMPROVEMENTS
SERVICES MUNICIPAUX: CONSTRUCTIONS, AGRANDISSEMENTS ET ENTRETIEN

Banff Park:—	
Sewer system, extensions.....	2,484 95
Jasper Park:—	
Waterworks system, extensions.....	2,471 06
Prince Albert Park:—	
Storm sewer, \$3,973.83; camp ground drainage and improvements, \$1,991.43; beach improvements, \$2,983.06; construction of sidewalks, gutters, etc., in the business area, \$2,365.49.....	11,313 81
Riding Mountain Park:—	
Sewer system, extensions and improvement, \$2,847.98; incinerator, \$1,182.75....	4,030 73
Waterton Lakes Park:—	
Water system, extensions and improvement.....	3,073 18
	23,373 73

RECREATIONAL AREAS—EXTENSIONS AND IMPROVEMENTS
TERRAINS DE SPORT: AGRANDISSEMENT ET ENTRETIEN

Banff Park:—	
Cave and Basin bathhouse, development of small pool, including provision of new children's wading pool and also new parking areas.....	8,500 00
Elk Island Park:—	
Recreational grounds, extensions and improvements, \$996.74; entrance gateways, improvements, \$198.10.....	1,194 84
Jasper Park:—	
Cottonwood Creek auto campsite, waterworks system, extension and improvement, \$1,978.28; Patricia Lake auto campsite, sanitation and development, \$1,447.73.....	3,426 01
Kootenay Park:—	
Radium Hot Springs, camp ground improvement.....	999 65
Prince Albert Park:—	
Camp ground improvement (drainage), \$2,474.92; golf course, improvement, \$2,986.53.....	5,461 45
Riding Mountain Park:—	
Golf course, improvement.....	2,778 93
Waterton Lakes Park:—	
Golf course, improvement.....	2,499 26
	24,860 14

ROADS—CONSTRUCTION AND REPAIRS, INCLUDING GOLDEN REVELSTOKE HIGHWAY AND IMPROVEMENTS TO MAIN TOURIST ROUTES FROM THE INTERNATIONAL BOUNDARY TO BANFF, YOHO AND KOOTENAY PARKS — GRANDES ROUTES: CONSTRUCTION ET ENTRETIEN Y COMPRIS LA ROUTE DE GOLDEN REVELSTOKE ET LES ROUTES DE TOURISME ALLANT DE LA FRONTIÈRE À BANFF, YOHO ET KOOTENAY

Banff Park:—	
Banff-Jasper Highway, \$109,860.04; road approach to administration building, construction, \$3,715.06; park roads (including Banff section of the Trans-Canada Highway), improvement and widening, \$14,415.23.....	127,990 33
Elk Island Park:—	
Park roads, improvement and widening.....	4,969 92
Jasper Park:—	
Banff-Jasper Highway, \$109,756.76; park roads, improvement and widening, \$9,876.91.....	119,633 67
Kootenay Park:—	
Banff-Windermere Highway, improvement and widening.....	9,900 17
Mount Revelstoke Park:—	
Revelstoke mountain road, improvement and widening.....	2,887 68
Prince Albert Park:—	
Park roads, improvement and widening, \$9,531.98; Mayview road, construction, \$1,674.05.....	11,206 03

MINES AND RESOURCES — MINES ET RESSOURCES

THE UNEMPLOYMENT RELIEF AND ASSISTANCE ACT, 1936-*Con.*
LOI POUR REMÉDIER AU CHÔMAGE, 1936-*Suite*

Interior-Con. — Intérieur-Suite

Vote — Crédit 324 — National Parks-Con. — Parcs Nationaux-Suite

ROADS—CONSTRUCTION AND REPAIRS, INCLUDING GOLDEN REVELSTOKE HIGHWAY AND IMPROVEMENTS TO MAIN TOURIST ROUTES FROM THE INTERNATIONAL BOUNDARY TO BANFF, YOHO AND KOOTENAY PARKS—*Conc.* — GRANDES ROUTES: CONSTRUCTION ET ENTRETIEN Y COMPRIS LA ROUTE DE GOLDEN REVELSTOKE ET LES ROUTES DE TOURISME ALLANT DE LA FRONTIÈRE À BANFF, YOHO ET KOOTENAY—*Fin*

Riding Mountain Park:—	
Park roads, improvement and widening.....	9,601 55
Waterton Lakes Park:—	
Park roads, improvement and widening, \$5,997.27; International Boundary to Calgary, contribution for dust laying oil, \$14,989.83.....	20,987 10
Yoho Park:—	
Park roads (including Yoho section of the Trans-Canada Highway), improvement and widening.....	9,954 97
Golden Revelstoke Highway:—	
Maintenance and improvement of completed sections and continuation of construction.....	403,319 26
Improvement of main tourist routes from the International Boundary to Banff, Yoho and Kootenay Parks respectively: Columbia River Road, route from King's Gate to Radium Hot Springs in Kootenay Park—One-half cost of improvement of highway, the remaining half paid by the Province of British Columbia.....	92,877 25 <i>813,327 93</i>

TOWNSITE DEVELOPMENT — AGRANDISSEMENTS URBAINS

Banff Park:—	
Sidewalks, extensions, \$3,210.90; landscaping Administration Building grounds, \$4,848.93.....	8,059 83
Prince Albert Park:—	
Townsite development and landscaping.....	4,953 88
Riding Mountain Park:—	
Townsite development, including reclamation and drainage.....	9,408 59
Watertown Lakes Park:—	
Townsite development.....	1,997 67 <i>24,419 97</i>

WHARVES AND BEACH PROTECTION WORKS — ENTRETIEN DES QUAIS ET DES PLAGES

Prince Albert Park:—	
Wharf and beach improvement.....	7,149 76
Riding Mountain Park:—	
Beach protection and improvement.....	5,897 95 <i>13,047 71</i>

DEVELOPMENT OF NEW PARKS—MARITIME PROVINCES NOUVEAUX PARCS—PROVINCES MARITIMES

Nova Scotia Park.....	99,848 67
Prince Edward Island Park.....	29,874 31 <i>129,722 98</i>

MISCELLANEOUS — DIVERS

General engineering and supervision.....	6,044 89
Banff Park:—	
Improvement to ski grounds.....	7,242 73
Prince Albert Park:—	
Golf course improvements, \$4,950.59; shore of wharf, Waskesiu Lake, \$190.31... Fish Culture: Banff Park, \$540.99; Elk Island Park, \$42.80; Prince Albert Park, \$2,014.67; Riding Mountain Park, \$998.66; Waterton Lakes Park, \$971.12.....	5,140 90 4,568 24 <i>22,996 76</i>
	\$1,170,536 67

DETAILS OF EXPENDITURE—Con.— DÉTAIL DES DÉPENSES—Suite

THE UNEMPLOYMENT RELIEF AND ASSISTANCE ACT, 1936—Con.
LOI POUR REMÉDIER AU CHÔMAGE, 1936—Suite

Interior—Con.— Intérieur—Suite

Vote — Crédit 324 — National Parks—Conc. — Parcs Nationaux—Fin

Classified as follows — Classifiées comme suit:—	
Salaries and Wages.....	783,504 63
Travelling Expenses.....	6,934 54
Materials, Supplies, Repairs, etc.—	
General.....	229,409 59
New Autos and Auto Repairs, etc.....	20,038 19
Printing and Stationery.....	603 81
Miscellaneous.....	7,189 45
Other Outlay.....	122,856 46
	<u>\$1,170,536 67</u>

**Vote — Crédit 325 — Forest Service — Development of Experimental Station
and Forestry Research — Agrandissement des stations d'expérimenta-
tion forestières et travaux de recherches**

Head Office.....	4,384 79
Petawawa Forest Experiment Station, \$17,076.43, less amount received from National Defence Department, \$67.37.....	17,009 06
Quebec District:—	
Valcartier Forest Experiment Station, \$3,391.61; Forestry Research Survey, \$2,339.69.....	5,731 30
Maritimes District:—	
Acadia Forest Experiment Station, \$10,023.29; Forestry Research Survey, \$2,331.97.....	12,355 06
Prairies District:—	
Duck Mountain Forest Experiment Station, \$13,825.90; Kananaskis Forest Experiment Station, \$6,738.94; Forestry Research Survey, \$2,678.03.....	23,242 87
Ottawa Laboratories.....	7,012 77
Montreal Laboratories.....	2,317 28
Vancouver Laboratories.....	1,859 69
	<u>\$ 73,912 82</u>

Classified as follows — Classifiées comme suit:—	
Salaries and Wages—	
Ottawa.....	9,896 33
Outside.....	49,520 44
Travelling Expenses.....	1,537 80
Materials, Supplies, Repairs, etc.—	
General.....	11,587 94
New Autos and Auto Repairs, etc.....	540 32
Printing and Stationery.....	79 59
Miscellaneous.....	817 77
	<u>73,980 19</u>
Less—Adjustments.....	67 37
	<u>\$ 73,912 82</u>

MINES AND RESOURCES — MINES ET RESSOURCES

THE UNEMPLOYMENT RELIEF AND ASSISTANCE ACT, 1936-*Con.*
LOI POUR REMÉDIER AU CHÔMAGE, 1936-*Suite*

Interior—Con. — Intérieur—Suite

Vote — Crédit 326 — Topographical and Air Surveys Bureau — Ground and aerial surveys and mapping — Levés topographiques et aériens — Cartographie et levés sur terre et par avion

Ground and aerial survey and mapping.....	14,930 79
Ontario-Manitoba Boundary survey, \$13,634.12, less: Province of Manitoba, \$4,544.70, Province of Ontario, \$4,544.71.....	4,544 71
	\$ 19,475 50
 Classified as follows — Classifiées comme suit:—	
Salaries and Wages.....	17,905 34
Travelling Expenses.....	747 00
Materials, Supplies, Repairs, etc.—	
General.....	3,267 98
New Autos and Auto Repairs, etc.....	742 06
Miscellaneous.....	5,902 53
	28,564 91
Less—Adjustments.....	9,089 41
	\$ 19,475 50

Vote — Crédit 327 — Geodetic Surveys — To provide for the establishment of control points and base lines at various points — Levés géodésiques — Pour établir en différents lieux des points de vérification et des lignes de base

Geodetic Surveys—Precise levelling.....	2,960 81
Geodetic Surveys—Triangulation.....	3,849 97
Geodetic Astronomy and Isostasy.....	2,956 13
	\$ 9,766 91

Classified as follows — Classifiées comme suit:—	
Salaries and Wages.....	4,695 22
Travelling Expenses.....	900 65
Materials, Supplies, Repairs, etc.—	
General.....	2,924 76
New Autos and Auto Repairs, etc.....	292 73
Miscellaneous.....	953 55
	\$ 9,766 91

Vote — Crédit 328 — Waterpower and Hydrometric Bureau — International Gauging Station on the Columbia River near Birchbank, B.C. — Forces hydrauliques et hydrométrie: Station internationale de jaugeage sur la Columbia, près de Birchbank (C.B.)

Salaries and wages, \$737.68; travelling expenses, \$383.05; materials, supplies, etc., general, \$26.73; printing and stationery, \$1.15; miscellaneous, \$16.90; other outlay, \$9,054.95.....	\$ 10,220 46
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DETAILS OF EXPENDITURE—Con.—DÉTAIL DES DÉPENSES—Suite

THE UNEMPLOYMENT RELIEF AND ASSISTANCE ACT, 1936—Con.
LOI POUR REMÉDIER AU CHÔMAGE, 1936—Suite

Interior—Conc. — Intérieur—Fin

Vote — Crédit 343 — To assist in provision of transportation facilities into Mining Areas — Pour aider à effectuer des transports vers les centres miniers

Construction of winter aeroplane landing at Resolution, N.W.T.....	2,360 59
Sulphur Creek Road, Yukon Territory.....	7,500 00
Dominion Road, Yukon Territory.....	7,500 00
Silver King Road, Yukon Territory.....	4,711 96
	<u>\$ 22,072 55</u>

Classified as follows—Classifiées comme suit:—

Salaries and Wages.....	11,296 72
Materials, Supplies, Repairs, etc.—	
General.....	9,659 67
New Autos and Auto Repairs, etc.....	311 84
Miscellaneous.....	804 32
	<u>\$ 22,072 55</u>

Mines

Vote — Crédit 341 — For Geological Surveys and Investigations in the Northwest Territories and elsewhere in Canada including amount required to prepare, publish and distribute results of field investigations of 1936 — Levés géologiques dans les territoires du Nord-Ouest et autres régions du Canada y compris les montants requis pour la publication et la distribution des brochures sur les levés faits en 1935

<i>Salaries and Wages — Traitements et salaires:—</i> Ottawa..... (Page L—25)	80,163 73
<i>Materials, Supplies, Repairs, etc.— Matériel, fournitures, réparations, etc.:—</i>	
Engineering supplies and instruments, \$646.57; gasoline, \$2.39; lumber, \$12.24; photographic supplies, \$221.77.....	882 97
<i>Printing and Stationery — Impressions et papeterie:—</i> King's Printer, supplies....	22,991 09
<i>Miscellaneous — Divers:—</i> Dept. of Public Works, rent, \$1,072.50; additional hospital expenses incurred by R. Bartlett, re accident 1935-36 survey, P.C. 28/693, \$73; express, 45c.....	1,145 95
<i>Other Outlay — Autres déboursés:—</i> Amounts paid to the following for preparation of reports and other returns on geological investigations during 1935-36: M. F. Bancroft, \$400; T. H. Clark, \$450; N. F. G. Davis, \$600; B. Rose, \$400; J. C. Sproule, \$125; H. V. Warren, \$400; M. Y. Williams, \$500.....	2,875 00
	<u>\$ 108,058 74</u>

Vote — Crédit 342 — To continue geological surveys and investigations in the Northwest Territories and elsewhere in Canada uncompleted in 1935 — Pour poursuivre les levés et études géologiques, inachevés en 1935, dans les Territoires du Nord-Ouest et autres régions du Canada

<i>Salaries and Wages — Traitements et salaires:—</i> Ottawa..... (Page L—25)	51,855 13
<i>Materials, Supplies, Repairs, etc.— Matériel, fournitures, réparations, etc.:—</i>	
Electrical supplies, \$51.33; hardware, \$59.82; lumber, \$286.49; photographic supplies, \$293.03; sheet rock, \$217.78.....	908 45
<i>Printing and Stationery — Impressions et papeterie:—</i> King's Printer, supplies....	842 84
<i>Miscellaneous — Divers:—</i> Expenses packing, arranging, etc.: specimens, equipment and notes of the late S. C. Perry, \$71.75; sundries, \$3.....	74 75
<i>Other Outlay — Autres déboursés:—</i> G. B. C. Biernes, compensation for loss of horse, P.C. 21/635.....	40 00
	<u>53,721 17</u>

MINES AND RESOURCES—MINES ET RESSOURCES

THE UNEMPLOYMENT RELIEF AND ASSISTANCE ACT, 1936-*Con.*
LOI POUR REMÉDIER AU CHÔMAGE, 1936-*Suite*

Mines—Con. — Suite

Vote — Cr dit 342 — To continue geological surveys and investigations in the Northwest Territories and elsewhere in Canada uncompleted in 1935—*Con.* — Pour poursuivre les lev s et  tudes g ologiques inachev s en 1935, dans les Territoires du Nord-Ouest et autres r gions du Canada—*Suite*

EXPENSES OF EXPLORERS, TOPOGRAPHERS AND OTHERS
D PENSES DES EXPLORATEURS, TOPOGRAPHES, ETC.

Armstrong, J. E.: assistant, \$300; wages, \$420; transportation, \$407.35; maintenance of motor car, \$118.95; expenses, \$569.14.....	1,815 44
Armstrong, P. F.: assistant, \$421.80; transportation, \$165.29; maintenance of motor car, \$146.12; expenses, \$553.57.....	1,286 78
Bell, W. A.: wages, \$172.50; maintenance of motor car, \$172.76; expenses, \$350.28.	695 54
Caley, J. F.: assistants, 6, \$1,662.40; wages, \$785; transportation, \$414.92; maintenance of motor trucks, \$115.06; gasoline and oil, \$352.67; expenses, \$1,565.38.....	4,895 43
Evans, C. S.: assistants, 3, \$783.55; wages, \$243; maintenance of motor cars, \$52.06; gasoline and oil, \$297.28; expenses, \$556.16.....	1,932 05
Hume, G. S.: assistants, 3, \$918.45; wages, \$354; transportation, \$233.58; maintenance of motor cars, \$118.07; gasoline and oil, \$302.37; expenses, \$537.75.....	2,462 22
Johnston, A. W.: assistants, 27, \$7,714.20; wages, \$14,654.15; transportation: Canadian Airways, Limited, \$7,048, Wings Limited, \$625, various, \$2,581; freight and express: Canadian Airways Limited, \$660.66, various, \$1,113.95; expenses, \$7,747.90.....	42,144 86
Johnston, J. R.: assistants, 3, \$946.10; wages, \$522.75; transportation, \$1,097.70; expenses, \$822.79; compensation for loss of personal effects, P.C. 21/512: J. R. Clarke, \$61, J. R. Johnston, \$48.40, D. M. McKinnon, \$100; J. L. Phelps, \$75.80, H. Weaver, \$82.81.....	3,757 35
Jolliffe, A. W.: assistant, \$347.70; wages, \$360; transportation: MacKenzie Air Services, Limited, \$858.37, Canadian Airways, Limited, \$170, various, \$651.36; freight and express: Canadian Airways, Limited, \$34.73, MacKenzie Air Service, Limited, \$129.03; expenses, \$340.51.....	2,891 70
Lees, E. J.: assistants, 5, \$1,753.40; wages, \$918.25; transportation, \$929.40; hire of horses, \$1,053; expenses, \$1,070.22.....	5,724 27
Macdonald, J. A.: assistants, 6, \$1,732.80; wages, \$2,064.50; transportation, \$273.52; maintenance of motor cars, \$67.27; gasoline and oil, \$283.85; expenses, \$1,168.05.	5,589 99
Miller, W. H.: wages, \$629; transportation, \$272; maintenance of motor car, \$69.38; 2 horses, \$110; expenses, \$352.73.....	1,433 11
Perry, S. C.: assistants, 3, \$851.75; wages, \$306; transportation, \$531.12; expenses, \$415.69.....	2,104 56
Rose, B.: assistants, 2, \$592.80; wages, \$872; transportation, \$703.72; maintenance of motor car, \$64.53; expenses, \$643.85.....	2,876 90
Rutherford, R. L.: assistants, 2, \$588.50; wages, \$649.20; maintenance of motor car, \$48.87; gasoline and oil, \$278.96; expenses, \$412.72; manuscript of report, maps, etc., of surveys, \$275.....	2,253 25
Smith, C. H.: assistant, \$427.50; wages, \$1,139.05; transportation, \$622.10; maintenance of motor car, \$86.37; expenses, \$967.21.....	3,242 23
Stewart, J. S.: assistants, 2, \$743.85; wages, \$868.05; transportation, \$799.92; maintenance of motor car, \$77.35; gasoline and oil, \$271.22; expenses, \$1,404.68.....	4,165 07
Tanton, T. L.: assistants, 8, \$2,492.80; wages, \$874; transportation: aerial, S. A. Cheeseman, \$445.91, Wing's Limited, \$120, various, \$827.81; maintenance of motor car, \$100.55; expenses, \$1,462.83.....	6,323 90
Tolman, C.: assistants, 3, \$903.45; wages, \$635; transportation, \$703.18; maintenance of motor car, \$147.43; gasoline, \$161.43; expenses, \$694.06.....	3,244 55
Wickenden, R. F. R.: assistants, 9, \$2,793.70; wages, \$324; transportation, \$611.72; maintenance of motor cars, \$597.43; gasoline and oil, \$1,001.62; expenses, \$1,411.26.....	6,739 73
Wilson, J. F.: assistants, 3, \$807.50; wages, \$9; transportation, \$179.91; maintenance of motor car, \$71.78; gasoline and oil, \$208.46; expenses, \$548.22.....	1,824 87
Sundry investigations, reports, etc.: H. C. Cooke, \$107.97; A. C. Freize, \$250; R. Graham, \$50.....	407 97
	107,811 77

DETAILS OF EXPENDITURE—Con.— DÉTAIL DES DÉPENSES—Suite

THE UNEMPLOYMENT RELIEF AND ASSISTANCE ACT, 1936—Con.
LOI POUR REMÉDIER AU CHÔMAGE, 1936—Suite

Mines—Con.— Suite

Vote—Crédit 342—To continue geological surveys and investigations in the Northwest Territories and elsewhere in Canada uncompleted in 1935—Conc.
— Pour poursuivre les levés et études géologiques inachevés en 1935, dans les Territoires du Nord-Ouest et autres régions du Canada—Fin

EXPENSES OF AERIAL SURVEYS — PHOTOGRAPHIES PAR AVION

Canadian Airways, Limited, Montreal, cost of survey and prints: Mistowak Sheet in Northwestern Quebec, \$24,554.23; Takla Lake, B.C., \$5,973.....	30,527 23
	<u>192,060 17</u>
Less—Charged to Vote 154—Geological Survey, Explorations, Investigations, etc., \$3,916.70; refund of gasoline tax, \$344.05.....	4,260 75
	<u>\$ 187,799 42</u>

Classified as follows—Classifiées comme suit:—

Salaries and Wages—	
At Ottawa.....	51,855 13
Outside.....	53,581 70
Travelling Expenses.....	17,553 25
Materials, Supplies, Repairs, etc.—	
General.....	56,255 15
New Autos and Auto Repairs, Renewals, etc.....	1,524 70
Printing and Stationery.....	842 84
Miscellaneous.....	5,203 64
Other Outlay.....	983 01
	<u>\$ 187,799 42</u>

Vote—Crédit 343—To assist in provision of transportation facilities into Mining areas— Pour aider à effectuer des transports vers les régions minières

<i>Salaries and Wages—Traitements et salaires:—</i> Ottawa..... (Page L—26)	4,402 56
<i>Travelling Expenses—Frais de voyages:—</i> S. C. Ells, \$1,124.99; W. A. Janelle, \$194.98; T. E. Mackie, \$8.45; O. Mathieu, \$85.74; P. E. Palmer, \$93.10; W. H. Stuart, \$2,199.06.....	3,706 32
<i>Materials, Supplies, Repairs, etc.—Matériel, fournitures, réparations, etc.:—</i> Folio, \$5.50; blue prints, \$11.50.....	17 00
<i>Printing and Stationery—Impressions et papeterie:—</i> King's Printer, supplies....	106 55
<i>Miscellaneous—Divers:—</i> Telegrams, \$405.53; telephones, \$34.44.....	439 97
<i>Other Outlay—Autres déboursés:—</i> Mining transportation projects, subject to further audit, two-third's cost—	
Nova Scotia:—Beaverdam Gold Mine, \$333.81; Caribou Gold Mines, \$3,736.88; Caribou-Tangier, \$7,462.12; Manganese Mine, \$3,488.51; Montague Gold Mine, \$1,332.72; Moose River Gold Mine, \$2,678.31; Mount Uniacke Gold Mine, \$1,658.24; Oldham Gold Mine, \$1,312.88; Renfrew Gold Mine, \$982.95; Salmon River Gold Mine, \$1,016.88; Trunk No. 7, near Sherbrooke to Goldenville Mine, \$330.94; Wine Harbour Mine, \$333.35.....	24,667 59
Quebec:—Latulippe-Guillet Lake, \$109,686.21; Perron Mine Road to Rouyn-Louvicourt Highway, section 6, \$10,157.52; Rouyn-Louvicourt Highway: section 2, \$22,439.46, section 3, \$47,214.93, section 3b, \$13,139.06, section 4b, \$4,140, section 4c, \$27,580.06, section 5, \$80,642.73.....	314,999 97
Ontario:—Afton Gold Mine, \$7,000; Ardeen Gold Mine, \$2,889.99; Beardmore-Sand River Area, \$27,399.50; Black Donald Graphite Mine, \$4,703.87; Clark Gold Mine, \$1,236.51; Caniptau Mine, \$3,333.33; Delnite Mine Road, \$3,071.61; Elk Lake-Matachewan Road, \$13,098.33; Geraldton to Hardrock Gold Mine, \$2,069.89; Geraldton to Hutcheson Lake, \$1,765.17; Gold Pines-Woman Lake Road, \$44,492.11; Goudreau-Lochalsh Road, \$3,862.43; Gowganda-Elk Lake	

MINES AND RESOURCES — MINES ET RESSOURCES

THE UNEMPLOYMENT RELIEF AND ASSISTANCE ACT, 1936—*Conc.*
LOI POUR REMÉDIER AU CHÔMAGE, 1936—*Fin*

Mines—Conc. — Fin

Vote — Crédit 343 — To assist in provision of transportation facilities into Mining areas—Conc. — Pour aider à effectuer des transports vers les régions minières—Fin

*Other Outlay—Conc. — Autres déboursés—Fin**Ontario—Conc.*

Road, \$30,076.33; Lakefield and The Canadian Nepheline Co. Mine, \$1,666.66; Lebel Township Project, \$2,472.47; Long Lac Mining Area, \$21,763.62; Matheson-Garrison Township, \$711.17; Michipicoten Area Roads, \$12,064.27; Obonga Lake Road, \$13,419.43; Pickle Crow, \$78,170; Preston East-Dome Gold Mine, \$1,784.94; Red Lake-Gold Shore Mine, \$8,927.62; Red Lake Madsen, \$6,200; Ross Mine Road, \$5,195.79; Three Duck Lake, \$7,948.53; Tyrant to Houston Lake, \$4,696.69; Valora Fish Siding, \$5,745.56; Wendigo Mine Road, \$8,923.06. 324,688 88

Manitoba:—Central Manitoba, \$27,639.39; Mafeking to The Pas, \$150,305.60; The Pas Mining Area, \$36,701.06. 214,646 05

Saskatchewan:—Construction of dock and airplane landing at Goldfields, \$2,827.16; Flin Flon Beaver Lake, \$16,387.34; Palo South, \$3,741.86; Rock Dam near Prince Albert, \$12,373.78; Wasquesui to Montreal Lake, \$18,243.82. 53,573 96

British Columbia:—American Creek-Excelsior Trail, \$4,894.90; Arrowsmith-Cowichan Lake Trail, \$1,871.56; Athelstan Road, \$999.90; Big Missouri Road, \$14,914.93; Branch Road to Bullion placer property, \$928.73; Bridge River Bend, \$35,818.55; Campbell Lake-Buttle Lake Trail, \$4,568.83; Cowichan Lake-Chemainus Trail, \$660.27; Dash Creek Road, \$496.47; Detonia Mine Road, \$651.82; Dolly Varden Road, \$9,293.96; Gold Mountain Road, \$1,056.41; Hedley Mine Road, \$12,933.11; Hudson Bay Mountain Trails, \$1,210.23; Kaslo-Denver and Three Forks-Sandon Roads, \$6,498.15; Keithley Main Road, No. 5, including Yanks Peak, \$1,587.05; Koksilah River Trail, \$3,898.40; Kootenay Lake-St. Mary's Lake Road, \$373.76; Luck River Trail, \$1,379.87; Likely-Keithley Road, \$706.06; Manson Creek-Peace River Road, \$23,133.31; Mud Creek Road, \$2,000; Nelson-Nelway Road, \$30,645.58; Perry Creek Road, \$1,996.34; Pioneer Pacific-Eastern Mine Road, \$418.02; Quesnel-Barkerville Area, \$6,503.43; Sproat and Kennedy Lakes-Wreck Bay, \$16,459.14; Takla Landing-Vital Creek Road, \$3,333.34; Taseko Lake Road, \$6,560.31; Telegraph Creek-Dease Lake Road and McDame Post Quartz City Trail, \$3,134.90; Telka River Coal Mine Road and Trail, \$840.98; Tye Kootenay Lake-Bayonne Mine, \$1,913.97; Unuk River Road-Portland Canal, \$2,864.51; Upper Squamish Road, \$1,599.54; Vidette Mine Road-Ashcroft Mining Division, \$9,483.24; Williams Lake-Likely Main Road, \$4,641.13; Wisconsin Mine Trail, \$3,249.40; Zeballos River Road, \$6,380.08. 229,900 18

1,162,476 63

\$1,171,149 03

INDIAN TRUST FUND — FONDS FIDUCIAIRES DES INDIENS

CAPITAL AND INTEREST ACCOUNTS OF EACH BAND COMPTES DE CAPITAL ET D'INTÉRÊTS DE CHAQUE BANDE

Account No. — Compte N°	Name of Account — Titre du Compte	Capital			Interest — Intérêts				
		Balance April 1, 1936 — Solde, 1er avril 1936	Receipts — Recettes	Disburse- ments — Déboursés	Balance Mar. 31, 1937 — Solde, 31 mars 1937	Balance April 1, 1936 — Solde, 1er avril 1936	Receipts — Recettes	Disburse- ments — Déboursés	Balance Mar. 31, 1937 — Solde, 31 mars 1937
	<i>Nova Scotia — Nouvelle-Ecosse</i>								
462	Micmacs.....	\$ 28,329 96	\$ 172 78		\$ 28,502 74	\$ 5,068 77	\$ 2,030 57	\$ 1,746 78	\$ 5,352 56
	<i>New Brunswick — Nouveau-Brunswick</i>								
179	Big Cove.....	361 46	46 00		407 46	37 20	19 93	30 00	27 13
114	Brothers Reserve.....				125 80	6 29			132 09
239	Buctouche Indians.....	169 48			169 48	553 34	36 14		589 48
116	Burnt Church Band.....	3,270 47	8 40	\$ 32 00	3,246 87	130 90	170 07	25 00	275 97
301	Canous Reserve.....	12 00	500 00		512 00	206 46			217 38
175	Edmundston Reserve.....	935 28	160 50	152 47	943 31	89 38	126 23	50 00	165 61
103	Eel Ground Indians.....	3,961 33	65 90	64 00	3,963 23	256 57	210 90	169 93	297 54
165	Eel River Reserve.....	1,459 21			1,459 21	197 35	82 83		280 18
399	Kingsclear Reserve.....	132 60			132 60	28 58	8 06		36 64
67	Oromocto Band.....	220 69			220 69	116 79	16 87	2 00	131 66
272	Pabineau Reserve.....	631 48			631 48	1,482 96	105 72		1,588 68
122	Pokemouche Reserve.....	102 20			102 20	415 43	25 88		441 31
115	Red Bank Indians.....	8,007 36	441 00	137 00	8,311 36	1,520 26	526 38		2,046 64
300	Ste. Croix Reserve.....	985 00			985 00	212 27	59 86		272 13
93	St. Mary's Indians.....	52 81			52 81	69 73	6 13		75 86
68	Tobique Indians.....	18,041 70	24 95		18,066 65	289 28	931 65	720 04	500 89
64	Woodstock Reserve.....	578 00			578 00	118 72	34 84		153 56
		<i>\$8,921 07</i>	<i>1,246 75</i>	<i>385 47</i>	<i>\$9,782 35</i>	<i>5,851 02</i>	<i>2,378 70</i>	<i>996 97</i>	<i>7,232 75</i>
	<i>Prince Edward Island — Ile du Prince-Edouard</i>								
469	Lennox Island.....		2 35		2 35				

CAPITAL AND INTEREST ACCOUNTS OF EACH BAND—*Con.* — COMPTES DE CAPITAL ET D'INTÉRÊTS DE CHAQUE BANDE—*Suite*

Account No. — Compte N ^o	Name of Account — Titre du Compte	Capital			Interest — Intérêts				
		Balance April 1, 1936 — Solde, 1er avril 1936	Receipts — Recettes	Disbursements — Déboursés	Balance Mar. 31, 1937 — Solde, 31 mars 1937	Balance April 1, 1936 — Solde, 1er avril 1936	Receipts — Recettes	Disbursements — Déboursés	Balance Mar. 31, 1937 — Solde, 31 mars 1937
<i>Quebec — Québec</i>									
41	Abenakis of Becancour.....	\$ 5,729 32			\$ 5,729 32	\$ 871 09	\$ 358 87	\$ 152 95	\$ 1,077 01
40	Abenakis of St. Francis.....	6,067 82		\$ 431 00	5,636 82	1,476 83	714 46	1,050 07	1,141 22
*70	Abitibi Reserve.....	190 34			190 34	337 35	31 38		368 73
42	Amalictits of Isle Verte and Viger.....	9,612 43			9,612 43	123 24	539 28	578 75	83 77
137	Betsiamits Band.....	122,458 75	\$ 13,143 44	854 82	134,747 37	344 26	8,322 62	8,615 41	51 47
353	Coucoucacha Indians.....	38,593 41			38,593 41	3,753 29	2,117 33	2,492 91	3,387 71
44	Hurons of Lorette.....	13,157 68			13,157 68	1,313 90	723 58	338 56	1,698 92
45	Iroquois of Caughnawaga.....	12,880 69	1,481 74	257 80	14,104 63	2,949 95	7,855 17	8,187 52	2,617 60
46	Iroquois of St. Regis.....	52,104 48	15 50		52,119 98	1,381 40	3,536 76	2,346 79	2,571 37
47	Lake St. John Indians.....	7,007 99			7,007 99	5,149 10	608 85	2,822 51	2,935 44
48	Lake of Two Mountains (Oka).....	7,304 94	426 96		7,731 90	1,700 09	488 52	108 86	2,079 75
74	Province of Quebec Indian Fund.....	107,846 30			107,846 30	239 92	5,498 16	4,449 40	1,288 68
92	Restigouche Band.....	3,977 28		300 00	3,677 28	827 33	505 23	326 50	1,006 06
50	River Desert Band.....	77,386 15	1,037 57	30 09	78,393 63	3,065 67	4,832 94	5,598 07	2,300 54
49	Temiskaming Band.....	30,994 63			30,994 63	2,249 09	1,767 61	2,134 62	1,882 08
		496,312 21	16,105 21	1,873 71	509,543 71	25,782 51	37,900 76	39,192 92	24,490 35
<i>Ontario</i>									
207	Amalgamated Rainy River Bands.....	50,156 46	194 34		50,350 80	2,008 68	2,746 84	1,757 87	2,997 65
211	Assabaska Band, Reserve 35.....	164,577 54	293 94	1,218 27	163,653 21	16,160 12	9,076 88	10,147 00	15,090 00
1	Batchewana Band.....	73,877 17	445 30	2,223 72	72,098 75	123 66	3,813 76	3,920 31	17 11
105	Big Island Band.....	3,442 67	125 88		3,568 55	2,700 53	407 16	1,333 42	1,774 27
262	Buffalo Point Band.....	1,222 74	221 81		1,444 55	125 71	67 42		193 13
463	Cayuga Indian Annuity.....	100,000 00			100,000 00	1,987 01	6,027 85	7,180 50	834 36
2	Chippewas of Beausoleil.....	257,019 92	1,069 87	1,728 80	256,360 99	4,431 26	16,680 59	13,522 89	7,588 96
79	Chippewas of Kettle Point and Stony Point.....	60,475 58	159 45	256 50	60,378 53	6,027 62	4,795 97	4,415 82	6,407 77
3	Chippewas of Nawash.....	346,339 73	1,196 51	9,540 01	337,996 23	19,635 47	30,017 81	25,783 67	23,869 61
4	Chippewas of Rama.....	117,786 14	1,097 23	469 25	118,414 12	3,243 19	8,554 00	8,821 94	2,975 25
5	Chippewas of Sarnia.....	203,283 60	1,195 15	4,583 12	199,895 63	18,355 22	16,805 89	18,873 06	16,288 05
6	Chippewas of Saugeen.....	249,300 68	1,037 76	830 00	249,508 44	2,514 68	18,664 97	16,941 66	4,237 99
7	Chippewas of Snake Island.....	50,097 89	192 83	502 45	49,788 27	2,504 66	4,514 03	3,076 39	3,942 30
8	Chippewas of Thames.....	14,122 89			14,122 89	2,805 84	4,847 29	5,925 05	1,728 08
9	Chippewas of Walpole Island.....	12,285 82	640 95	749 84	12,176 93	8,375 85	6,378 26	5,820 33	8,933 78

244	Cockburn Island Band.....	26,504 41	65 49	.....	26,569 90	401 41	1,438 23	1,495 41	344 23
130	Couchiching Band.....	8,040 85	160 98	.....	8,201 83	2,413 98	1,171 32	2,147 88	1,437 42
182	Dokis Band.....	946,386 17	173 49	2,089 23	944,470 43	14,126 84	49,377 91	55,917 68	7,587 07
90	Eagle Lake Indians.....	5,038 28	64 15	87 66	5,014 77	178 96	314 86	242 49	251 33
77	Fort Frances Agency.....	.....	.....	.....	.....	2,201 00	295 05	56 80	2,439 25
10	Fort William Band.....	82,591 85	250 10	765 79	82,076 16	1,491 97	5,584 84	5,239 97	1,836 84
12	Garden River Band.....	106,069 14	727 61	1,947 21	104,849 54	1,152 73	5,614 65	6,418 73	348 65
123	Gibson Band.....	102,058 06	2,746 20	2,520 00	102,284 26	3,886 81	5,821 84	3,814 85	5,893 80
43	Golden Lake Band.....	145 85	.....	.....	145 85	164 27	90 51	95 00	159 78
257	Grassy Narrows Band.....	5 00	.....	.....	5 00	2 00	35	.....	2 35
104	Gull Bay Band.....	39,176 57	116 80	3,437 94	35,855 43	238 91	2,476 79	2,645 05	70 65
13	Henry Inlet Band.....	42,213 64	14 55	55 45	42,172 74	32 62	2,279 81	2,008 37	304 06
240	Lac La Croix Reserve.....	23,268 18	150 00	.....	23,418 18	1,098 84	1,322 35	1,056 05	1,365 14
273	Lac Seul and Frenchman's Head.....	65,385 51	4,702 04	.....	70,087 55	2,874 42	3,877 45	2,832 57	3,919 30
14	Lake Nipissing Band.....	178,150 99	2,141 85	4,119 16	176,173 68	4,614 37	9,680 05	6,648 64	7,645 78
393	Long Lake Reserve 77.....	740 90	.....	.....	740 90	625 27	68 31	35 00	658 58
73	McIntyre Bay Reserve.....	.....	.....	.....	.....	2,104 99	9,956 80	4,898 37	7,163 42
16	Maganatawan Band.....	2,069 31	.....	.....	2,069 31	35 67	105 25	66 60	74 32
15	Manitoulin Island (unceded Wikwemikonging Band).....	110,969 48	2,674 35	4,247 81	109,396 02	1,314 18	5,647 18	4,176 71	2,784 65
270	Martin's Falls Band.....	57,478 20	58 00	5,436 48	52,099 72	8,417 69	3,649 79	4,188 38	7,879 10
136	Matachewan Band.....	.....	.....	.....	.....	17 13	86	.....	17 99
255	Mattagami Reserve.....	.....	.....	.....	.....	1,443 45	176 17	.....	1,619 62
17	Mississaguas of Alnwick.....	134,900 39	1,245 92	14,592 82	121,553 49	2,045 38	10,980 02	10,789 99	2,235 41
18	Mississaguas of Credit.....	42,042 74	282 05	155 67	42,169 12	1,588 21	7,783 10	6,734 37	2,636 94
20	Mississaguas of Mud Lake.....	84,046 58	535 22	476 79	84,105 01	3,998 46	6,482 27	4,985 37	5,495 36
19	Mississaguas of Rice Lake.....	24,858 69	165 91	14 52	25,010 08	3,347 39	2,903 56	2,682 43	3,568 52
21	Mississaguas of Scugog.....	12,012 31	9 96	8 55	12,013 72	5,524 29	1,874 98	1,321 75	6,077 52
22	Mohawks, Bay of Quinte.....	56,626 55	1,485 00	1,088 04	57,023 51	493 27	14,751 53	9,466 61	5,778 19
457	Mohawk Residential School.....	.....	.....	.....	.....	6,667 88	3,999 16	7,322 68	3,344 36
23	Moravians of Thames.....	90,543 31	420 89	731 12	90,233 08	7,938 48	6,512 74	5,365 54	9,085 68
24	Munceys of Thames.....	761 98	.....	.....	761 98	76 39	176 92	192 35	60 96
131	New Brunswick House Reserve.....	2,052 43	.....	.....	2,052 43	1,457 23	175 48	136 69	1,496 02
285	Nickickonsemscanning Indians.....	63,534 14	.....	.....	63,534 14	5,474 68	3,450 44	5,195 42	3,729 70
72	Nipigon and Red Rock Bands.....	628 31	.....	.....	628 31	413 33	52 08	38 35	427 06
283	Northwest Angle Reserve 33.....	8,571 06	.....	.....	8,571 06	759 50	553 53	537 48	775 55
282	Northwest Angle Reserve Nos. 34 and 37.....	4,320 31	117 34	.....	4,437 65	31 40	291 68	311 40	11 68
245	Obidgewong Indians.....	4,237 90	4 01	.....	4,241 91	34 50	213 62	204 00	44 12
28	Ojibbewas of Missassagua River.....	9,476 07	121 95	706 01	8,892 01	543 22	550 96	384 82	709 36
25	Ojibbewas and Ottawas of Manitoulin.....	.....	570 00	570 00	.....	.....	.....	.....	.....
29	Oneidas of Thames.....	440 86	.....	46	440 40	47 74	31 43	10 05	69 12
237	Osnaburg Reserve 63B.....	.....	1,834 02	.....	1,834 02	378 06	18 90	.....	396 96
30	Parry Island Band.....	96,169 70	112 08	2,212 72	94,069 06	2,324 14	5,090 08	3,940 01	3,474 21
236	Pays Plat Band.....	602 33	.....	.....	602 33	171 65	38 70	35 00	175 35
80	Pointe Grondin Band.....	21,265 94	.....	.....	21,265 94	2,243 23	1,364 46	1,095 73	2,511 96
31	Pottawattamies of Waipole Island.....	2,767 07	80 45	.....	2,847 52	1,111 10	1,040 82	1,107 88	1,044 04
328	Rainy Lake Reserve No. 17A.....	9,565 19	184 80	.....	9,749 99	587 21	527 62	402 00	712 83
102	Rat Portage No. 38 (Dalles).....	40,414 72	47 91	170 01	40,292 62	3,833 95	4,207 18	3,005 23	5,035 90
26	Robinson Treaty Annuities.....	263,166 35	.....	.....	263,166 35	559 64	25,858 19	25,292 00	1,125 83

CAPITAL AND INTEREST ACCOUNTS OF EACH BAND—*Con.* — COMPTES DE CAPITAL ET D'INTÉRÊTS DE CHAQUE BANDE—*Suite*

Account No. — Compte N ^o	Name of Account — Titre du Compte	Capital			Interest — Intérêts				
		Balance April 1, 1936 — Solde, 1er avril 1936	Receipts — Recettes	Disburse- ments — Déboursés	Balance Mar. 31, 1937 — Solde, 31 mars 1937	Balance April 1, 1936 — Solde, 1er avril 1936	Receipts — Recettes	Disburse- ments — Déboursés	Balance Mar. 31, 1937 — Solde, 31 mars 1937
<i>Ontario—Conc.—Fin</i>									
337	Seine River Reserve, 23, 23A and 23B.....	\$ 17,320 76	\$ 319 00	\$ 18 00	\$ 17,621 76	\$ 929 47	\$ 1,262 51	\$ 816 23	\$ 1,375 75
32	Serpent River Band.....	34,183 55	8 45	174 93	34,017 07	2,793 71	1,939 36	1,185 62	3,547 45
197	Shabashkoshking Reserve No. 30.....	837 43			837 43	463 07	65 03		528 10
34	Shawanaga Band.....	57,934 44	244 04		58,178 48	5,833 50	3,354 60	2,781 28	6,406 82
246	Sheguiandah Band.....	50,789 00	80 97		50,869 97	5,651 64	3,159 03	2,659 54	6,151 13
247	Sheshegwaning Band.....	58,183 35	282 04	571 42	57,893 97	6,011 08	3,640 56	3,396 79	6,254 85
222	Shoal Lake Band 39.....	9,764 01	214 00		9,978 01	1,461 51	1,052 88	633 09	1,881 30
223	Shoal Lake Band 40.....	7,970 95	350 92	136 58	8,185 29	460 79	425 59	865 15	21 23
33	Six Nations Indians.....	700,598 91	3,288 10	12,136 27	691,750 74	18,861 49	62,088 42	48,416 96	32,532 95
248	South Bay Band.....	18,548 14	28 86		18,577 00	4,872 76	1,325 05	729 11	5,468 70
35	Spanish River Band.....	9,445 10	19 60	406 72	9,057 98	131 27	478 82	465 62	144 47
220	Stangecoming Band 18C.....	10,187 66			10,187 66	880 42	623 40	750 00	753 82
249	Sucker Creek Band.....	29,476 89	81 63		29,558 52	2,333 46	1,686 14	1,394 91	2,624 69
250	Sucker Lake Indians.....	5,627 32	3 21		5,630 53	1,565 24	494 63	586 73	1,473 14
36	Thessalon River Band.....	26,724 03			26,724 03	2,188 13	1,469 61	848 71	2,809 03
37	Tootomenai's Band (Michipicoten).....	15,942 25			15,942 25	758 08	855 26	530 00	1,083 34
95	Wabigoon Band.....	16,658 43	30 95	317 51	16,371 87	995 51	941 70	935 84	1,001 37
228	Wahnapiatae Band.....	10,308 47		1,410 87	8,897 60	453 26	618 09	514 18	557 17
251	West Bay Band.....	104,129 56	1,070 20	490 00	104,709 76	1,228 36	5,699 50	5,040 68	1,887 18
81	Whitefish Bay Band.....	28,950 81	21 15		28,971 96	3,604 86	1,863 78	1,647 79	3,820 85
82	Whitefish Lake Band.....	74,315 35	3,971 62		78,286 97	11,080 76	4,414 82	3,593 26	11,902 32
38	Whitefish River Band, Res. 32.....	54,836 62	124 28	1,726 36	53,234 54	5,808 29	4,017 70	3,857 96	5,968 03
39	Wyandottes of Anderdon.....					1,611 49	80 57	15 00	1,677 06
		5,816,019 18	39,273 16	84,924 06	5,770,368 28	271,465 49	442,835 59	403,726 06	310,575 02
<i>Manitoba</i>									
234	Berens River Band.....	671 64	87 00		758 64	27 56	54 96	65 98	16 54
109	Bird Tail Sioux.....	123 35			123 35	4 34	6 38		10 72
170	Black River Band.....	1,776 63			1,776 63	515 41	114 60		630 01
267	Bloodvein Reserve (Clandeboye).....	11 00			11 00	5 23	81		6 04
60	Brokenhead River Band.....	3,850 02	159 22	646 10	3,372 14	225 17	220 21	65 68	379 70
232	Chemawawis Band.....	22 00			22 00	57 15	3 96		61 11
467	Clandeboye Agency Relief.....					112 62	2,108 36		2,220 98
296	Crane River Band.....	4,331 11			4,331 11	2,971 61	365 14	489 10	2,847 65

318	Cross Lake Band.....					34 56	36 73		71 29
113	Dog Creek Band.....					446 06	32 80		447 11
91	Ebb and Flow Lake Indians.....	57 75		47 50	10 25	49 26	5 35	31 75	54 61
259	Fairford Band.....	777 55			777 55	53 36	41 55		94 91
209	Fisher River Reserve.....					281 62	150 68		432 30
63	Fort Alexander Band.....	11,263 59	467 09	18 47	11,712 21	1,830 34	654 70	1,249 25	1,235 79
335	Hollow Water River Band.....	2,389 20			2,389 20	368 48	137 88	47 75	458 61
430	Island Lake Reserve.....						40 00		40 00
65	Jackhead Band.....		223 70		223 70				
421	Keeseekoowening Band.....	1,463 75			1,463 75	1,938 13	345 08	686 88	1,596 33
433	Lake St. Martin's Band.....	906 22			906 22	118 20	66 22	169 15	15 27
61	Little Saskatchewan Band.....					73 61	23 68	77 25	20 04
127	Long Plain Reserve.....	11,669 13	525 90		12,195 03	562 71	619 25	1,070 20	111 76
238	Moose Lake Band.....		55 60		55 60				
192	Nelson House Band.....	2 00			2 00	130 12	31 61		161 73
428	Norway House Band.....					278 88	98 94	21 82	356 00
219	Oak Lake Sioux.....	46 16			46 16	60 98	5 36		66 34
254	Oak River Sioux.....	18 00			18 00	8 21	1 31		9 52
317	Oxford House Band.....					35 00	1 75	4 92	31 83
233	Pas Band.....	119,970 51	2,212 94	485 07	121,698 38	2,043 37	6,947 59	5,950 27	3,040 69
438	Pine Creek Reserve.....	112 50			112 50	33 38	7 29	4 00	36 67
321	Poplar River Reserve.....	17 50			17 50	2 11	98		3 09
303	Rolling River Reserve.....		20 00		20 00	346 83	276 14	85 37	537 60
62	Roseau River Band.....	70,963 88			70,963 88	3,699 68	3,827 18	4,554 00	2,972 86
59	St. Peter's Band.....	21,007 78	745 12	174 40	21,578 50	2,980 87	2,919 55	2,125 27	3,775 15
59 A	St. Peter's Individual Land Acct.....					7,452 47	401 12		7,853 59
338	Sandy Bay Reserve.....	536 49			536 49	170 88	42 04	18 13	194 79
221	Shoal River Band.....					2 73	14		2 87
106	Swan Lake Band.....	25,147 20	440 56		25,587 76	433 61	2,550 57	1,811 80	1,172 38
185	Turtle Mountain Sioux.....	2,839 70			2,839 70	4,899 44	386 96		5,286 40
325	Valley River Reserve.....	403 35		8 05	395 30	2 98	27 32	28 05	2 25
132	Waywayseecappo's Band.....	12,170 68	39 64		12,210 30	511 43	1,048 36	1,266 98	292 81
	<i>Saskatchewan</i>	<i>292,557 67</i>	<i>4,976 77</i>	<i>1,379 59</i>	<i>296,154 85</i>	<i>32,768 39</i>	<i>23,602 55</i>	<i>19,823 60</i>	<i>36,547 34</i>
190	Amos Charles Band.....	2,853 95			2,853 95	954 33	453 73	388 43	1,019 63
145	Assiniboine Reserve.....	2,440 55	50 00		2,490 55	72 00	207 63	149 51	130 12
191	Beardy's Band.....					285 98	64 30	2 03	348 25
366	Big Island Band.....					2 27	11		2 38
196	Big River Reserve No. 118A.....	8,950 91			8,950 91	242 48	560 67	281 85	521 30
98	Chacastapas Reserve.....		250 00		250 00				
142	Cote's Band.....	102,724 66	286 50		103,011 16	6,850 34	9,229 46	7,739 66	8,340 14
184	Cowesses Band.....	113,443 82			113,443 82	1,166 38	6,795 47	5,065 53	2,896 32
375	Day Star's Reserve.....	261 63			261 63	366 85	31 42	377 00	21 27
271	Fishing Lake Band.....	145,112 73	4 73		145,117 46	41,805 15	10,577 36	14,801 32	37,581 19
218	Frog Lake Band.....					44 52	2 23		46 75
86	Gordon's Band.....	138 20			138 20	1,335 82	73 70	1,076 12	333 40
189	James Robert's Band.....	3,825 50			3,825 50	792 75	744 98	339 34	1,198 39

CAPITAL AND INTEREST ACCOUNTS OF EACH BAND-Con. — COMPTES DE CAPITAL ET D'INTÉRÊTS DE CHAQUE BANDE—Suite

Account No. Compte N ^o	Name of Account Titre du Compte	Capital			Interest — Intérêts				
		Balance April 1, 1936 Solde, 1er avril 1936	Receipts Recettes	Disburse- ments — Déboursés	Balance Mar. 31, 1937 Solde, 31 mars 1937	Balance April 1, 1936 Solde, 1er avril 1936	Receipts Recettes	Disburse- ments — Déboursés	Balance Mar. 31, 1937 Solde, 31 mars 1937
<i>Saskatchewan—Conc.—Fin</i>									
293	James Smith's Band.....	\$ 74,645 71	\$ 332 04		\$ 74,977 75	\$ 6,495 76	\$ 5,112 26	\$ 2,526 74	\$ 9,081 28
135	John Smith's Band.....	346 01			346 01	19 18	18 26	14 34	23 10
188	Kakewistahaw's Band.....	209,205 81	596 77	\$ 159 35	209,643 23	9,009 57	12,969 84	13,435 16	8,544 25
281	Keeheewin's Band.....	1,317 50		1,000 00	317 50	294 18	130 63	163 81	261 00
216	Keesekoose Band.....	20,177 53	517 79		20,695 32	287 74	1,934 07	1,091 39	1,130 42
227	Key's Band.....	24,754 05	2,084 05	22 05	26,816 05	4,885 68	4,717 49	2,690 46	6,912 71
268	Kinistino Reserve.....	5,537 20			5,537 20	1,697 95	361 76	40 50	2,019 21
290	Little Black Bear's Band.....	12,231 00	1,305 83		13,536 83	3,243 22	4,139 88	506 80	6,876 30
326	Little Pine and Lucky Man Reserve.....	163 50			163 50	99 87	313 45	399 23	14 04
178	Long Lake Reserve, 80A, Treaty 4.....	46,829 80	388 58		47,218 38	149 36	2,496 76		2,646 12
263	Makwa Band.....	1,644 56	403 67		2,048 23	262 79	185 25		448 04
298	Meadow Lake Reserve.....	6,273 64			6,273 64	900 35	363 70	1,251 52	12 53
304	Mistawasis Band.....	92,076 85	1,148 39		93,225 24	14,171 03	22,348 61	10,870 14	25,649 50
226	Montreal Lake Band.....	1,201 04			1,201 04	187 32	231 08	101 66	316 74
319	Moosomin Band.....	24,199 13	598 51		24,797 64	11,945 35	3,435 80	4,418 96	10,962 19
231	Muscowequan's Band.....	12,422 14	973 56		13,395 70	2,087 35	2,863 31	2,496 18	2,454 48
214	Muscowpetung's Band.....	102,764 94	202 75		102,967 69	8,175 64	7,518 15	6,003 66	9,690 13
368	Nut Lake Band.....	50 00			50 00	7 89	2 89		10 78
225	Ochapewace's Band.....	80,028 96			80,028 96	11,714 31	5,024 26	5,797 33	10,941 24
307	Okanesi Band.....	26 00			26 00	23 89	2 49		26 38
230	Onion Lake Band.....	349 10		17 70	331 40	27 05	63 81		90 86
87	Pasqua Band.....	169,739 64			169,739 64	5,581 88	9,992 94	9,233 08	6,341 74
269	Peepcekeosis Reserve.....					54 55	674 16	60	728 11
181	Pelican Lake Reserve.....	265 70			265 70	145 10	21 54	43 50	123 14
294	Petaquakey's Band (Muskeg Lake).....	62,372 28			62,372 23	3,004 72	3,751 75	3,468 76	3,287 71
183	Piapot's Band.....	102,470 97	37 03		102,508 00	2,980 06	5,593 46	6,658 71	1,914 81
187	Poor Man's Band.....	52,631 06			52,631 06	2,219 50	2,820 53	4,591 52	448 51
264	Poundmaker's Reserve.....	194 00			194 00	572 11	275 54	295 00	552 65
156	Red Pheasant's Band.....	40 00			40 00	2,031 52	136 65	1,434 45	733 72
199	Sakimay's Band.....	15,498 02	24 21		15,522 23	744 42	1,554 61	782 79	1,516 24
195	Sandy Lake Reserve.....	578 10			578 10	43 27	131 07	42 14	132 20
213	Saulteaux Reserve 159.....	430 20			430 20	3,839 48	413 48	156 60	4,096 36
144	Shoal Lake No. 28.....	8,313 99			8,313 99	1,061 26	478 76	460 00	1,080 02
224	Standing Buffalo Reserve.....	12 60			12 60	1 29	69		1 98
295	Starblanket's Reserve.....	20 00			20 00	49 46	3 47		52 93

332	Stoney Reserve Nos. 110 and 111.....	38,931 63	73 18		39,004 81	2,770 84	2,427 62	3,170 55	2,027 91
166	Sturgeon Lake Indians.....	24,244 36	20 49	2 42	24,262 43	3,403 81	1,387 41	2,447 34	2,343 88
265	Sweet Grass Reserve.....	1,228 97			1,228 97	560 84	1,144 66	1,306 13	399 37
305	Thunderchild's Band.....	56,806 15	354 36		57,160 51	5,137 74	3,887 82	3,099 92	5,925 64
198	Wahpaton Sioux Band.....	20 00			20 00	23 63	2 43		31 06
208	Waterhen Lake Reserve No. 30.....					6 58	33		6 91
121	White Bear's Band.....	24,653 90		103 77	24,550 13	1,630 44	2,132 22	3,397 59	365 07
279	Witchehan Lake Reserve No. 117.....					461 19	23 06	49 55	434 70
193	Wood Mountain Sioux.....	27 20			27 20	34 25	3 07		37 32
<i>Alberta</i>		1,654,475 19	9,652 44	1,305 29	1,662,822 34	165,967 29	139,832 08	122,666 95	183,132 42
139	Alexander's Band.....	25,202 03			25,202 03	2,999 31	1,743 17	2,004 03	2,738 45
169	Alexis Band.....	2,428 53		13 85	2,414 68	20 65	122 46	52 30	90 81
391	Ambrose Tete Noire Band.....	1,337 42			1,337 42	2,355 58	184 65		2,540 23
403	Beaver Band No. 152.....	32,118 16	8,463 58	332 31	40,249 43	7,418 00	12,646 70	1,703 63	18,361 07
280	Beaver Lake Band No. 131A.....	154 03			154 03	128 46	14 12		142 58
138	Blackfoot Indians.....	1,479,265 77	1,087 30		1,480,353 07	840,969 14	132,982 68	121,852 92	852,098 90
138 A	Blackfoot Sinking Fund.....					19,099 76	954 99		20,054 75
173	Blood Indians.....	4,061 82	185 74		4,247 56	14,681 90	20,264 83	17,142 85	17,803 88
173 A	Blood Sinking Fund.....					1,035 05	51 75		1,086 80
180	Chipeweyn Band.....	1,309 72			1,309 72	340 24	92 50	150 00	282 74
418	Drift Pile Indians.....	2,532 93			2,532 93	764 34	164 86	12 00	917 20
451	Duncan's Reserve No. 151.....	10,106 98	4,871 40		14,978 38	5,018 37	5,198 80	660 88	9,556 29
120	Enoch's Band.....	225,772 95	168 42	3 00	225,938 37	*11 56	13,292 21	11,232 80	2,047 85
167	Ermineskin's Band.....	59,831 23	42 35		59,873 58	1,908 27	4,544 58	3,208 61	3,244 24
315	Heart Lake, Reserve 167.....	231 92			231 92	6 60	11 93		18 53
140	Hudson's Hope Reserve No. 168.....					458 41	22 92		481 33
376	Kimasayoo's Band.....	6,465 30			6,465 30	11,066 95	876 61		11,943 56
146	Louis Bull's Band.....	23,045 33	206 80		23,252 13	4,014 53	3,576 00	1,534 58	6,055 95
260	Michel's Band.....	38,682 55	1,384 86		40,067 41	1,822 15	4,061 32	2,813 02	3,070 45
164	Montana Band.....					159 62	10 38		170 00
202	Paul's Band.....	63,220 66	352 15	250 00	63,322 81	9,452 99	4,328 84	2,331 22	11,450 61
210	Peigan Indians.....	71,777 38	473 60	25 60	72,225 38	5,195 70	6,379 80	9,147 13	2,428 37
210 A	Peigan Sinking Fund.....					2,161 11	108 06		2,269 17
261	Pigeon Lake Reserve.....	10,655 27	895 07		11,550 34	4,343 78	866 38		5,210 16
437	Saddle Lake Band.....	29,500 57			29,500 57	6,484 23	2,061 24	3,442 67	5,102 80
155	Samson Band and Montana.....	80,816 59	2,229 20	140 00	82,905 79	12,000 39	10,243 61	5,342 71	16,901 29
154	Sarcee Indians.....	23,258 64			23,258 64	8,159 70	7,768 42	4,374 18	11,553 94
413	Sawridge Band.....	878 68			878 68	266 32	57 25		323 57
171	Stoney Band.....	9,762 37	369 44		10,131 81	15,560 58	8,401 24	6,485 91	17,475 91
419	Sucker Creek Indians.....	1,770 43			1,770 43	1,019 45	139 49		1,158 94
417	Swan River Indians.....	1,085 63			1,085 63	280 36	68 30	5 00	343 66
327	Whitefish Lake Reserve No. 128.....	53 00			53 00	31	2 67		2 98
452	Wm. MacKenzie Reserve 151K.....					13 50	68		14 18
468	Wabasca Reserve.....					5 00	25		5 25
		2,205,325 89	20,729 91	764 76	2,225,291 04	979,199 19	241,243 69	193,496 44	1,026,946 44

CAPITAL AND INTEREST ACCOUNTS OF EACH BAND—*Con.* — COMPTES DE CAPITAL ET D'INTÉRÊTS DE CHAQUE BANDE—*Suite*

Account No. Compte N ^o	Name of Account Titre du Compte	Capital			Interest — Intérêts				
		Balance April 1, 1936 Solde, 1er avril 1936	Receipts Recettes	Disbursements Déboursés	Balance Mar. 31, 1937 Solde, 31 mars 1937	Balance April 1, 1936 Solde, 1er avril 1936	Receipts Recettes	Disbursements Déboursés	Balance Mar. 31, 1937 Solde, 31 mars 1937
<i>British Columbia — Colombie Britannique</i>									
423	Ahkawahmish Band.....	\$ 5,411 04			\$ 5,411 04	\$ 351 87	\$ 328 15	\$ 460 00	\$ 220 02
357	Aitchelitch Reserve.....	2,611 50			2,611 50	1,929 11	237 03	33 35	2,132 79
343	Alexandria Reserve No. 1.....								
395	Alkali Lake Reserve.....		\$ 13 71		13 71		5 00	5 00	
408	Anderson Lake Nos. 1, 2 and 3.....	218 35			218 35	4 47	40 64	29 50	15 61
83	Andimaul Band.....	361 27			361 27	287 53	32 44		319 97
434	Arrow Lake Band.....		50 00		50 00				
427	Bucher Bay Reserve No. 1.....	56 45		\$ 56 45		188 84	47 26	127 29	108 81
204	Bella Bella Band.....	133 59	4,185 34		4,318 93	266 40	56 00	146 50	175 90
200	Bella Coola Band.....	2,534 83			2,534 83	216 53	137 57	270 73	83 37
147	Boothroyd Band.....	6,022 79		13 50	6,009 29	1,601 81	386 23	59 00	1,929 04
161	Boston Bar Band.....	53 20	10 00		63 20	449 78	25 15	269 18	205 75
377	Bridge River Band.....					836 93	550 85	310 00	1,077 78
409	Burns Lake Reserve.....	75 00			75 00	139 76	95 74	100 00	135 50
334	Burrard Inlet No. 3.....	15,464 80			15,464 80	1,864 29	866 45	812 24	1,918 50
405	Cayoose Creek Reserve.....						59 15	59 15	
289	Cheam Indians.....	3,071 05	55 93		3,126 98	66 84	176 89	103 65	140 08
97	Chehalis Band.....	44,054 41			44,054 41	1,972 33	2,301 34	722 60	3,551 07
57	Chemainus Band.....	5,110 56	2,357 50		7,468 06	118 48	431 45	260 15	289 78
288	Clayoquot Band.....	188 34			188 34	21 99	10 52	30 45	2 06
370	Clem-Clem-alits Reserve.....	152 35			152 35		7 62	7 05	57
465	Clinton Band.....	118 50	48 71	30 57	136 64	96	5 97	6 93	
354	Coldwater Band.....	26,906 24	120 80		27,027 04	2,924 79	1,523 45	2,121 30	2,326 94
314	Columbia Lake Reserve.....	219 33	104 95	16 02	308 26		10 97	9 50	1 47
342	Comox Reserve.....	5,677 25			5,677 25	117 09	337 72	274 91	179 90
152	Cook's Ferry Indians.....	232 79			232 79	24 11	262 85	1 00	285 96
406	Coquitlam Indians.....	1,316 60			1,316 60	116 11	71 63	2 05	185 69
382	Coryatsqua Reserve No. 2.....					148 20	7 41		155 61
52	Cowichan Band.....	3,170 99	227 40	225 40	3,172 99	1,775 60	2,980 80	2,955 72	1,800 88
401	Cowichan Lake Band.....	6,331 29			6,331 29	2,155 08	486 77	458 85	2,183 00
330	Deadman's Creek Reserve.....						30 00	25 00	5 00
386	Douglas Tribe Indians.....	11,501 83			11,501 83	681 21	909 15	690 53	899 83
278	Ehattisat Reserve.....					14 75	74		15 49
322	Esquimalt Indians.....	1,310 55			1,310 55	2,266 14	296 83	483 87	2,079 10
360	Fort George Indians.....	27,225 83			27,225 83	2,123 78	1,474 23	898 01	2,700 00

372	Fort St. John Reserve No. 172.....	326 25	43 00	369 25	124 01	22 51		146 52
392	Fountain Band.....	51 05	28 38	79 43		2 55		2 55
379	Francois Lake Band.....				23 15	1 16		24 31
56	Fraser Lake Band.....	150 29		150 29	9 50	7 99		17 49
439	Gilford Island No. 1.....	1,641 32		1,641 32	141 44	95 14	234 00	2 58
373	Gitzault Band No. 24.....	1,931 95		1,931 95	786 50	135 92		922 42
323	Hazelton Reserve No. 1.....	827 25		827 25	370 54	605 39	584 50	391 43
141	Hellath Band.....	115 48		115 48		5 77	4 00	1 77
347	Homais Reserve (Hesquaith).....				47 50	54 88	42 16	60 22
341	Homales Indians (Coomsack).....	12,496 56		12,496 56	828 73	674 26	1,282 88	220 11
84	Hope Band.....	3,653 27	162 22	3,815 49	230 07	254 17	75 50	408 74
385	Kamloops Reserve No. 1.....	4,432 28	194 25	4,626 53	3,189 18	5,966 13	5,708 97	3,446 34
149	Kanaka Band.....				724 04	51 20		775 24
406	Kanipsin Band.....	2,719 27		2,719 27	277 59	171 84	253 50	195 93
425	Katzie Band.....	4,373 87		4,373 87	435 57	366 77	387 66	414 68
356	Keogh Reserve No. 3.....				7 00	35	7 35	
414	Kincolith Band Reserve No. 25.....	2,382 19		2,382 19	93 11	133 77	221 85	5 03
203	Kispiox Reserve No. 1.....	192 90		187 30	112 22	15 26	5 64	121 84
394	Kitinit Band.....	191 54		191 54		9 58	4 25	533
177	Kitlope Band.....	1,278 62		1,278 62	994 09	113 64		1,107 73
108	Kitasoo Band.....				404 86	120 24	127 83	397 27
352	Kitsegucela Reserve No. 1.....	1,103 33		1,103 33	6 25	79 48	59 50	26 23
355	Kitseias Reserve.....	5,709 72	115 63	5,825 35	1,559 51	463 46	59 50	1,963 47
350	Kitsumkaylum Reserve.....	1,766 72		1,766 72	378 36	107 25	24 93	460 68
351	Kitwanger Band.....	709 92		709 92		35 50	31 50	4 00
407	Klahoose Reserves, Nos. 7 and 8.....	20,602 60	794 28	21,396 88	1,309 37	1,150 60	1,941 34	518 63
312	Kuper Island Band.....	7,769 28		7,769 28	1,224 44	1,003 89	693 01	1,535 32
364	Kuthlath (Yale) No. 3.....	122 80		122 80	288 74	20 58		309 32
416	Kwaw-waw-i-nuck Band.....	1,431 99	3,545 06	4,353 55	95 58	228 98		324 56
291	Kwiahkah Bands Nos. 5 and 6.....	3,549 95		3,549 95	484 63	201 73	150 00	536 36
378	Langley Reserve.....	8,484 72		8,323 47	536 47	551 06	281 93	805 60
396	Lawanth Reserve.....							
168	Lillooet Band.....	83 50		83 50	1,151 30	136 74	201 40	1,086 64
292	Little Lake Band.....				684 51	814 23		1,498 74
111	Lower Kootenay Indians.....				900 79	1,570 04	2,431 89	38 94
320	Lower Nicola Reserve.....	983 75		983 75	34 29	110 90	76 20	68 99
329	Lower Similkameen Reserve Nos. 3, 5, 7 and 8.....	655 65	7 50	663 15	2,276 67	192 12	300 00	2,168 79
266	Lyacksum Band.....	1,830 99		1,830 99	233 88	103 24	24 00	313 12
151	Lytton Band.....	58 79		58 79	18 85	23 88	18 00	24 73
460	Lytton Residential School.....				9,518 41	4,630 48	2,690 63	11,458 26
235	Malakut Reserve No. 1.....	10,962 36		10,962 36	2,357 75	866 02	655 12	2,568 65
242	Marktosis Reserve No. 15.....				18 60	93		19 53
404	Masset Reserve.....	36 09	1 50	37 59	660 58	618 18	978 52	300 24
348	Matilpi Band.....	646 26		641 01	266 00	105 61	225 00	146 61
129	Matsquisahhahcom Band.....	6,248 31	23 30	6,271 61	1,830 36	648 93	533 15	1,946 14
361	Maxim Lake Band.....	178 55		178 55	2 94	69 07		72 01
340	Metlakatla Indians.....	45,847 40	3 56	45,042 25	1,635 13	2,374 13	1,109 11	2,900 15
284	Miyuke Band.....				675 08	33 75		708 83
398	Moricetown Reserve.....	115 05		115 05	31 78	7 34		39 12
53	Musqueam Band.....				481 21	4,778 50	4,691 60	568 11
128	Nakwekto Band.....	3,920 05	221 50	4,141 55	352 45	280 23	319 00	313 68

CAPITAL AND INTEREST ACCOUNTS OF EACH BAND-*Con.* — COMPTES DE CAPITAL ET D'INTÉRÊTS DE CHAQUE BANDE-*Suite*

Account No. Compte N ^o	Name of Account Titre du Compte	Capital				Interest — Intérêts							
		Balance April 1, 1936	Receipts	Disbursements	Balance Mar. 31, 1937	Balance April 1, 1936	Receipts	Disbursements	Balance Mar. 31, 1937				
		Solde, 1er avril 1936	Recettes	Déboursés	Solde, 31 mars 1937	Solde, 1er avril 1936	Recettes	Déboursés	Solde, 31 mars 1937				
	<i>British Columbia—Conc. Colombie Britannique—Fin</i>												
118	Nakwitti Band.....					\$	45 75		\$	45 75			
176	Nanaimo River Band.....	\$	37,208 39	\$	2,504 88	\$	39,713 27	\$	2,267 98	\$	1,396 23	3,135 57	
344	Nanoose Reserve.....		311 30		164 06		475 36		129 17		724 52	799 93	
134	New Westminster Band.....		4,321 48				4,321 48		7,626 37		2,507 39	1,704 82	8,428 94
274	Nicola Nooaitch Band.....		312 16				312 16		41 66		17 69		59 35
126	Nicomen Band.....		750 63				750 63		2,642 49		169 66	171 16	2,640 99
275	Nimpkish Reserve.....		1,287 29		5 00		1,292 29		1,064 19		237 57	452 08	849 68
217	Niskainlth Band (Nesky Nihl).....		2,021 64				2,021 64		357 74		118 97	215 90	260 81
412	Nitimat Reserve No. 15.....		1,660 97				1,660 97		296 06		133 25	210 70	218 61
277	Nooaitch Grass Reserve No. 9.....		1,540 54				1,540 54		123 06		83 18	8 80	197 44
287	Nooaitch Reserve No. 10.....		9 00				9 00		45		47		92
424	Noonla Reserve.....		13 86				13 86		2 18		15 05		17 23
387	North Thompson Reserve.....		6,509 73				6,509 73		271 94		339 08	478 10	132 92
119	Nwawkwelth Band.....										3 00		3 00
157	Ohamil Reserve.....		77 95		73 26		151 21		37		3 92		4 29
172	Ohiet Band.....		1,131 93				1,131 93		194 09		66 30	43 05	217 34
94	Okanagan Band.....		5,676 34		257 96	\$	5,912 00		769 02		5,953 68	5,449 33	1,273 37
229	Opetchesht Band.....		1,976 58		83		1,977 41		342 40		117 95	105 90	354 45
306	Osoyoos Reserve.....								109 13		601 56	238 23	472 46
324	Patcheena Reserve.....		5,316 90				5,316 90		2,861 03		613 90	107 28	3,367 65
383	Pauguachin Reserve.....		1,456 46				1,456 46		228 85		84 27	8 00	305 12
363	Pavilion Reserve.....								32 72		1 64		34 36
410	Pemberton Reserve.....		114 52				114 52		81 25		9 79	48 00	43 04
349	Pentioton Reserve.....		1,600 92			77 77	1,523 15		2,175 46		351 63	575 00	1,952 09
162	Popcum Band.....		2,732 19		21 07		2,753 26		540 66		163 80	407 31	297 15
339	Port Simpson Indians.....		149 24				149 24				7 46	7 00	46
367	Qualicum Reserve.....		495 34				495 34		453 23		467 53	554 15	368 61
435	Quatsino Reserve.....		8,649 99		196 32	74 55	8,771 76		1,001 55		613 22	563 40	1,051 37
345	Quesnel Reserve.....		23 79		13 50		37 29		533 22		32 85	108 50	457 57
88	Saanich Band.....		492 21				492 21		37 59		26 49	20 00	44 08
286	Sahhaltkum Band (Adams Lake).....		952 09				952 09		173 90		426 55	468 50	136 95
117	St. Mary's Reserve.....		133 13		114 15		247 28		50 00		9 16	36 10	23 06
153	Salmon Arm Reserve.....								7 15		2 36		9 51
331	Salmon River Reserve.....								5 53		28	4 00	1 81
55	Scowitz or Harrison River Reserve.....		18,172 56		226 05		18,398 61		8,677 16		1,617 49	617 12	9,677 53
369	Seabird Island Band.....		12,256 55		32 42		12,288 97		14 72		668 56	673 73	9 55

MINES AND RESOURCES — MINES ET RESSOURCES

133	Sechelt Band.....	43,598 82		2,039 95	41,558 87	5,117 80	3,861 10	1,260 15	7,718 75
336	Semiahmoo Band.....	1,315 13	3 00		1,318 13	285 67	569 62	502 52	352 77
389	Seshart Reserve.....	4,067 23	115 16		4,132 39	335 82	233 15	428 44	140 53
215	Seton Lake Indians.....	3,795 94			3,795 94	122 81	242 94	117 33	248 42
415	Shuswap Band (Kootenay).....	274 20			274 20		13 71		13 71
384	Shuswap Reserve (Kamloops).....	4,583 17	98 33		4,681 50	924 76	435 40	363 75	996 41
148	Siska Band No. 5.....					57 67	32 03	4 00	85 70
158	Skawahlook Reserve.....					34 20	1 71		35 91
381	Skidegate Reserve.....	4,901 29		2,500 00	2,401 29	30 17	559 30	379 99	209 48
422	Skulkayn Indians.....					275 94	599 80	586 00	289 74
371	Skumlasph Reserve No. 16.....	11,781 90	531 94		12,313 84	2,218 79	730 03	1,177 14	1,771 68
388	Skutz Reserve.....	95 63			95 63	23 49	5 96		29 45
110	Skwah Indians.....	266 19			266 19	13 31	559 43	416 95	155 79
432	Skway Band.....	1,129 52	40 25		1,169 77	102 11	61 58	100 04	63 65
297	Sliammon Band.....	34,846 87	14 85		34,861 72	4,060 40	2,150 36	1,389 52	4,821 24
358	Soda Creek Band.....	53 28	403 58		456 86	20 00	23 66	23 66	20 00
253	Somenos Band.....	1,808 10			1,808 10	144 88	97 65	87 52	155 01
51	Songhees Band.....	8,458 34			8,458 34	382 94	1,064 56	1,064 73	382 77
429	Sooke Reserve No. 1.....	59 60			59 60	3 81	3 17	6 98	
346	Soowahlie Reserve.....	11,298 31			11,298 31	1,583 42	739 09	597 42	1,725 09
107	Spallumcheen Band.....	2,326 85	3 60	37 45	2,293 00	126 99	397 94	432 75	92 18
160	Spuzzum Band.....					5 25	5 26		10 51
54	Squamish Band.....	169,377 07	6,321 40	295 30	175,403 17	13,004 33	12,318 88	14,829 78	10,493 43
163	Squatach Band.....	13 50			13 50	4 08	88		4 96
362	Stellaquo Reserve No. 5.....	31 18			31 18	323 19	672 92		996 11
186	Stryne Reserve.....					117 76	45 89		163 65
400	Stullawheets Reserve No. 8.....	633 74			633 74	794 50	521 41		1,315 91
112	Sumas Lake Band.....	15,514 72	58 02		15,572 74	1,842 34	2,773 10	2,508 83	2,106 61
365	Tahltan Band.....					16 54	83		17 37
308	Tanockteuch Reserve.....	472 12	1,104 36	228 00	1,348 48	78 80	27 55	7 00	99 35
402	Tasawatineuk Band.....	9,861 02			9,861 02	300 17	508 06	516 00	292 23
397	Tobacco Plains Reserve.....	5,391 80	128 86		5,520 66	43 05	271 74	307 30	7 49
420	Toosey Band.....					1,542 92	586 10	509 05	1,619 97
359	Tsawassen Reserve.....	637 40			637 40	185 53	636 15	597 50	224 18
426	Tzeachten Reserve.....					18 75	75 94	75 00	19 60
252	Ucluelet Band.....	9,243 06	349 00	1,779 00	7,813 06	909 21	570 01	364 75	1,114 47
159	Union Bar Band.....	3,512 62			3,512 62	469 63	214 11	480 96	202 78
436	Upper Nicola Douglas Lake No. 3.....					479 20	23 96		503 16
333	Upper Similkameen Indians.....	901 45			901 45	4,655 95	901 62	2,316 50	3,241 07
380	Village Island Band.....	1,697 09			1,697 09	516 30	110 67	38 40	588 57
390	Wewayakum Band.....	10,624 93			10,624 93	929 24	1,152 71	1,263 86	818 09
258	Wewayakay Band.....	11,748 26		42 02	11,706 24	215 19	598 17	606 00	207 36
313	Whonnock Band.....	6,715 03	258 70		6,973 73	1,213 89	576 45	527 93	1,262 41
411	Williams Lake Reserve.....	17 40	14 55		31 95	79 48	4 84		84 32
125	Yale Indians (Ruby Creek).....	205 31		100 00	105 31	249 99	67 77	208 07	109 69
		827,726 35	25,369 62	9,142 59	843,953 38	137,457 40	97,756 37	86,990 90	148,222 87
	Yukon								
194	Yukon Indians.....	87 20			87 20	209 47	14 83		224 30

CAPITAL AND INTEREST ACCOUNTS OF EACH BAND—*Conc.* — COMPTES DE CAPITAL ET D'INTÉRÊTS DE CHAQUE BANDE—Fin

Account No. Compte N°	Name of Account Titre du Compte	Capital				Interest — Intérêts			
		Balance April 1, 1936 Solde, 1er avril 1936	Receipts Recettes	Disbursements Déboursés	Balance Mar. 31, 1937 Solde, 31 mars 1937	Balance April 1, 1936 Solde, 1er avril 1936	Receipts Recettes	Disbursements Déboursés	Balance Mar. 31, 1937 Solde, 31 mars 1937
<i>General Accounts — Comptes généraux</i>									
442	Blood Ranch Account.....					\$ 22 03	\$ 51 10	\$ 50 00	\$ 23 13
440	Bull Fund.....					13,617 25	5,770 82	9,812 56	9,575 51
448	Carlton Farm.....					4 62	10 53		15 15
449	Crooked Lakes Farm.....					15 02	75		15 77
450	Duck Lake Agency Farm Account.....					1,210 52	60 53		1,271 05
447	File Hills Farm.....					85 13	4 26		89 39
11	Five per cent Annuities.....	\$ 820 400 10			\$ 620,400 10				
464	Greater Production Account.....					12,747 88	637 39		13,385 27
443	Peigan Ranch.....					1,495 16	838 59	112 47	2,221 28
446	Pelly Farm.....					181 32	15 02	90 45	105 89
445	Portage la Prairie Farm.....					1 04	145 05		146 09
310	Prevention of Liquor Traffic.....					522 44	10,745 65	11,163 83	104 28
453	Qu'Appelle Crop Account.....					38 72	1 94		40 66
201	Savings Account.....					244,695 61	53,416 23	67,411 19	230,700 65
455	Soldier Settlement.....						14,754 00	14,754 00	
441	Stock Sales.....					221 52	11 08		232 60
444	Stoney Ranch.....					80 99	4 05		85 04
		620,400 10			620,400 10	274,839 25	86,466 99	103,394 50	258,011 74
	<i>Add; Interest Totals.....</i>	11,979,154 82	\$ 117,528 99	\$ 99,775 47	11,996,908 34	1,898,708 78	1,074,062 13	972,035 12	2,000,735 79
	<i>Grand Total.....</i>	13,877,863 60	1,191,591 12	1,071,810 59	13,997,644 13				

* Debit balance — Solde débiteur.

MINES AND RESOURCES — MINES ET RESSOURCES

CLASSIFICATION AND SUMMARY OF EXPENDITURE, 1936-37 — CLASSIFICATION ET SOMMAIRE DES DÉPENSES, 1936-37

Reference — Voir	Votes—Crédits		Salaries and Wages — Traitements et salaires		Travel- ling Expenses — Frais de voyages	Materials, Supplies, Repairs, etc. — Matériel, fournitures, réparations, etc.		Printing and Station- ery — Impres- sions et papeterie	Miscel- laneous — Divers	Loans, Grants, Subsidies, etc. — Prêts, alloca- tions, sub- ventions, etc.	Other Outlay — Autres déboursés	Adjust- ments — Ajuste- ments	Total Expenditure — Dépenses totales
	No.	Heading — Titre	At Ottawa — A Ottawa	Outside — Extérieur		General — En général	New Autos and Auto Repairs, Renewals, etc. — Automobi- les neuves, réparations, etc.						
		CIVIL GOVERNMENT GOUVERNEMENT CIVIL											
L-25	Statute	Salary of Minister.....	\$ 9,499 92										\$ 9,499 92
L-25	9	Salaries—Immigration and Coloniza- tion.....	178,132 19										178,132 19
L-26	9	Contingencies—Immigration and Colonization.....			\$ 735 01	\$ 9 79		\$10,318 18	\$ 2,573 83				13,636 81
L-25	10	Salaries—Indian Affairs.....	129,595 91										129,595 91
L-26	10	Contingencies—Indian Affairs.....	2,103 73		5,167 66	234 81		4,226 85	2,906 54			\$ 6 00	14,645 59
L-25	12	Salaries—Interior.....	523,197 37										523,197 37
L-26	12	Contingencies—Interior.....	253 54		1,031 86	449 02		9,397 98	4,370 05				15,502 45
L-25	16	Salaries—Mines.....	512,687 91										512,687 91
L-27	433 & 16	Contingencies—Mines.....	2,176 12		4,873 97	1,671 23		5,017 25	5,649 28				19,387 85
													1,418,288 00
		IMMIGRATION AND COLONIZATION IMMIGRATION ET COLONISATION											
L-27	51	Immigration—Salaries and Contingencies.....	1,241 15	\$961,957 23	41,677 17	13,508 26	\$ 9 55	23,741 24	75,797 84				1,117,932 44
L-40	52	Empire Settlement Scheme.....			41 95		69	91 14	237 11				370 89
L-40	53	Relief of Distressed Canadians.....							1,014 61				1,014 61
													1,119,317 94
		OCEAN AND RIVER SERVICE SERVICES Océaniques et fluviaux											
L-40	3771 & 123	Hydrographic and Tidal and Current Surveys.....		226,510 57	5,610 88	110,989 08		41,652 40	20,932 10			1,950 06	407,645 09

DETAILS OF EXPENDITURE — DÉTAIL DES DÉPENSES

CLASSIFICATION AND SUMMARY OF EXPENDITURE, 1936-37-*Con.* — CLASSIFICATION ET SOMMAIRE DES DÉPENSES, 1936-37-*Suite*

Reference — Voir	No.	Heading — Titre	Salaries and Wages — Traitements et salaires		Travel- ling Expenses — Frais de voyages	Materials, Supplies, Repairs, etc. — Matériel, fournitures, réparations, etc.		Printing and Station- ery — Impres- sions et papeterie	Miscel- laneous — Divers	Loans, Grants, Subsidies, etc. — Prêts, alloca- tions, sub- ventions, etc.	Other Outlay — Autres déboursés	Adjust- ments — Ajuste- ments	Total Expenditure — Dépenses totales
			At Ottawa — A Ottawa	Outside — Extérieur		General — En général	New Autos and Auto Repairs, Renewals, etc. — Automobiles neuves, réparations, etc.						
		SCIENTIFIC INSTITUTIONS INSTITUTIONS SCIENTIFIQUES											
L-43	138	Ottawa Observatory.....	\$ 34,693 52		\$ 1,691 91	\$ 4,992 61		\$ 2,085 63	\$ 1,494 26				\$ 44,957 93
L-44	139	Victoria Observatory.....		\$14,100 45	379 62	1,872 14		424 91	1,087 55				17,814 67
		<i>Topographical and Air Survey Bureau Levés topographiques et photogra- phiques par avion</i>											
L-45	140	Topographical and Air Surveys.....	79,493 92	6,880 71	2,209 90	7,926 27	\$ 219 05	5,322 45	1,746 09		\$ 261 18		104,059 57
L-45	140	National Air Photographic Library.....			21 75	2,366 78			10 94				2,399 47
L-45	140	Board of Examiners.....	731 80	52 00					36 50				820 00
L-45	140	Canadian Institute of Surveying.....								\$ 350 00			350 00
		<i>Geodetic Survey of Canada Arpentage Géodésique du Canada</i>											
L-46	141	Geodetic Surveys, etc.....	108,763 63	8,003 87	4,022 03	5,584 53	628-19	2,763 61	3,067 20				132,832 96
L-47	141	John Hedin.....									240 00		240 00
		<i>International Boundary Commission Commission sur la délimitation des Frontières</i>											
L-47	482 & 142	International Boundaries.....	15,618 00	9,243 14	781 37	3,420 51	441 96	114 57	3,333 38			\$ 200 34	33,153 27 336,627 87

MINES AND GEOLOGICAL SURVEY MINES ET LEVÉS GÉOLOGIQUES													
<i>Department — Département</i>													
L-48	152	For Administration of the Explosives Act (Chap. 62, R.S. 1927)....	1,180 00	2,905 53	39 80	463 63	388 13	1,303 30			6,280 39		
<i>Mines Branch — Division des mines</i>													
L-49	153	Investigation of Mineral Resources and Deposits, etc.....	159,642 04	80 05	11,320 62	37,703 71	483 60	18,066 48	4,331 61		231,628 11		
<i>Geological Survey — Levés géologiques</i>													
L-51	154	Explorations, surveys and investigations, etc.....	71,934 99	74,259 12	31,483 01	53,661 48	2,872 11	34,040 72	14,506 56	1,054 55	283,812 54		
L-52	154	Maintenance of Offices and Museum.	59,645 68		40 00	8,132 60	21 18	9,155 20	2,322 22	200 00	80,016 88		
<i>Miscellaneous — Divers</i>													
L-52	Statute	Domestic Fuel Act of 1927-17 Geo. V, Chap. 22.....							53,814 77		53,814 77		
INDIAN AFFAIRS AFFAIRES INDIENNES													
L-52	378† 491 & 166	Expenses connected with the administration of Indian Affairs....	9,123 20	867,105 47	106,156 50	374,483 79	21,272 43	49,504 55	715,142 10	1,288,675 26	989,435 64	77,206 46	4,498,055 40
L-35	Statute	Indian Annuities under Section 162, Indian Act, Chap. 98, R.S. 1927...								245,063 00	245,063 00		
L-35	Statute	Exchequer Court Awards.....								15,580 51	15,580 51		4,753,693 91
GOVERNMENT OF THE NORTHWEST TERRITORIES — ADMINISTRATION DES TERRITOIRES DU NORD- OUEST													
L-38	493, 169	N.W.T. Administration, Salaries and Expenses.....	16,405 46	59,211 71	2,278 00	47,792 33		1,775 28	38,206 52	40,362 30	3,313 00		209,344 60
GOVERNMENT OF THE YUKON TERRITORY ADMINISTRATION DU TERRITOIRE DU YUKON													
L-38	171	Yukon Administration.....		19,865 52	1,758 17	510 49	85 50	859 77	14,893 79		40 00		38,013 24
L-38	171	Yukon Local Council.....								70,000 00			70,000 00
											108,013 24		

CLASSIFICATION AND SUMMARY OF EXPENDITURE, 1936-37—Con. — CLASSIFICATION ET SOMMAIRE DES DÉPENSES, 1936-37—Suite

Reference — Voir	No. Heading — Titre		Salaries and Wages — Traitements et salaires		Travel- ling Expenses — Frais de voyages	Materials, Supplies, Repairs, etc. — Matériel, fournitures, réparations, etc.		Printing and Station- ery — Impres- sions et papeterie	Miscel- laneous — Divers	Loans, Grants, Subsidies, etc. — Prêts, alloca- tions, sub- ventions, etc.	Other Outlay — Autres déboursés	Adjust- ments — Ajuste- ments	Total Expendi- ture — Dépenses totales	
			At Ottawa	Outside		General	New Autos and Auto Repairs, Renewals, etc. — Automobi- les neuves, réparations, etc.							
			A Ottawa	Extérieur										En général
		DOMINION LANDS AND PARKS DOMAINE ET PARCS DE L'ÉTAT												
L—90	172	Dominion Lands, Seed Grain, Min- ing Lands and Ordnance, Admiralty and Public Lands, Salaries and Expenses.....	\$ 39,675 00	\$22,150 51	\$ 364 05	\$ 2,157 62	\$ 217 56	\$ 1,447 81	\$ 2,966 77				\$	68,979 32
L—93	172	Advancement of Forest Conserva- tion.....	114,887 03	114,020 79	6,241 34	25,333 47	2,245 84	6,621 58	7,483 56		\$ 325 00	*12,973 05		264,185 86
L—93	172	Canadian Forestry Association.....								\$ 1,620 00				1,620 00
L—96	172	Water and Power Resources.....	54,759 00	105,841 61	13,108 06	17,760 87	6,193 71	5,264 97	6,680 10			*57,094 84		152,513 48
L—96	172	Lake of the Woods Control Board..	2,052 00	4,186 74	303 35	155 54	125 35		120 50					6,943 48
L—96	495	Construction of Dam at Lac Seul....		349 00	129 15	26 35			10 50		16,193 60			16,708 60
L—96	495	Lake of the Woods Easement.....			123 10				5,180 96					5,304 06
L—97	495	International Peace Garden in Mani- toba.....									11,825 25			11,825 25
L—104	495, 172	Canadian National Parks.....	106,744 64	689,129 33	10,007 70	209,571 20	22,250 48	15,520 29	48,915 99		728 63	*44,482 71		1,058,385 55
L—104	395†	Fighting Forest Fires in National Parks.....											39,896 49	39,896 49
L—105	495-172	Migratory Birds Convention Act....	8,876 26	16,215 39	4,053 96	2,010 18	881 82	1,097 28	2,932 41		110 00			36,177 30
L—25	172	Revenue Staff.....	9,348 00											9,348 00
L—105	172	Costs of Litigation and Legal Expens- es.....							1,901 81					1,901 81
L—25	172	Retiring Leave to Officials, other than Civil Government.....	1,244 81											1,244 81
														1,675,034 01
		MISCELLANEOUS — DIVERS												
L—105	210	Unforeseen Expenses.....									15 00			15 00
L—105	222	Mrs. E. B. Hutcheson.....								1,200 00				1,200 00
L—108	223	Grant to John Thomas (Jack) Miner								4,000 00				4,000 00
L—106	Statute	National Resources Refunds Act....									2,062 72			2,062 72
L—106	Statute	Special Receipts Account.....									12 00			12 00

L-106	385†, 228	Payments in connection with movements of coal under conditions prescribed by the Governor in Council and for the cost of administration thereof.....											
L-107	Statute	Gratuities, Chap. 22, Sec. 56, R.S.C. 1927.....	2,565 00	992 21		589 15	1,463 42	2,217,310 75			6,433 33		2,222,920 53
		MISCELLANEOUS CHARGES PAID DIRECT FROM CONSOLIDATED FUND — MONTANTS DIVERS PAYÉS À MÊME LE FONDS CONSOLIDÉ										6,433 33	2,226,643 58
L-107	Statute	Seed Grain and Relief Account.....								44,425 73			44,425 73
L-107	Statute	Farmer's Creditors' Arrangement Act Assisted Passage Loan Account.....								53 10			53 10
		THE UNEMPLOYMENT RELIEF AND ASSISTANCE ACT, 1936 — LOI POUR REMÉDIER AU CHÔMAGE, 1936											44,478 83
		INDIAN AFFAIRS AFFAIRES INDIENNES											
		<i>Projects Already Undertaken — Travaux en cours d'exécution</i>											
L-107	316	Completion of the Qu'Appelle Indian Hospital.....											
L-108	317	Repairs and improvements to Government Buildings, etc.....	652 85		3,520 22					17,713 89	22 48		21,909 44
L-108	318	Erection of Indian Schools.....	350 97		82,341 35				32,804 00	600 00			116,096 32
L-108	319	Construction of roads and bridges, etc. on Indian Reserves.....	133 00		10,794 36								10,927 36
		INTERIOR — INTÉRIEUR											
		<i>Projects Already Undertaken — Travaux en cours d'exécution</i>											
L-109	320	National Parks—Administration Buildings at Banff Park.....											33,676 54
L-109	320	Other Buildings—Construction and Repairs.....											101,836 22
L-109	320	Landing Fields—Construction.....											4,081 85
L-109	320	Municipal Services—Construction, etc.....											21,394 30
L-109	320	Recreational Areas—Extensions and Improvement.....											8,770 19
L-110	320	Roads—Construction and repairs.....											108,199 64
L-110	320	Townsite Development, Kootenay Park.....											2,311 06
L-110	320	Engineering supervision and General.....											12,389 13
L-110	320	Relief to Permanent Residents of the Parks.....											42,693 92
L-110	320	Relief to Single Homeless Men.....											30,741 02

L—115	325	Forest Service—Experimental Stations, etc.....	\$ 9,896 33	49,520 44	1,537 80	11,587 94	540 32	79 59	817 77		* \$ 67 37	73,912 82	
L—116	326	Topographical and Air Surveys Bureau.....		17,905 34	747 00	3,267 98	742 06		5,902 53		* 9,089 41	19,475 50	
L—116	327	Geodetic Surveys.....		4,695 22	900 65	2,924 76	282 73		953 55			9,766 91	
L—116	328	Water Power Gauging Station on Columbia River, B.C.....		737 68	383 05	26 73		1 15	16 90	9,054 95		10,220 46	
L—117	343	Transportation facilities into Mining Areas.....		11,296 72		9,659 67	311 84		804 32			22,072 55	
												1,741,881 48	
		MINES											
		<i>Projects Already Undertaken — Travaux en cours d'exécution</i>											
L—117	341	Geological surveys and investigations in the Northwest Territories and elsewhere, etc.....	80,163 73			882 97		22,901 09	1,145 95	2,875 00		108,058 74	
		<i>Other Projects — Nouveaux travaux</i>											
L—119	342	To continue geological surveys and investigations in the Northwest Territories and elsewhere, etc.....	51,855 13	53,581 70	17,553 25	56,255 15	1,524 70	842 84	5,203 64	983 01		187,799 42	
L—120	343	Transportation facilities into Mining Areas.....	4,402 56		3,706 32	17 00		106 55	439 97	1,162,476 63		1,171,149 03	
												1,467,007 19	
		Total.....	2,402,589 17	4,350,894 47	295,118 26	1,480,064 48	83,457 24	274,190 24	1,023,186 49	\$3,710,137 08	2,718,953 20	77 50	16,343,658 13

*Amount credited to vote—Montants déduits des crédits.

†Supplementary vote—Crédit supplémentaire.