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# SESSIONAL PAPERS

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VOL. LXXX.—PART II

---

FOURTH SESSION

OF THE

TWENTY-SECOND LEGISLATURE

OF THE

PROVINCE OF ONTARIO

---

SESSION 1948

---

TORONTO

Printed and Published by Baptist Johnston, Printer to the King's Most Excellent Majesty  
1949



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## REPORTS

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DEPARTMENT OF LANDS AND FORESTS

INSPECTOR OF LEGAL OFFICES

NIAGARA PARKS COMMISSION

DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF LABOUR

UNIVERSITY OF TORONTO

DEPARTMENT OF HEALTH

HOSPITALS FOR MENTALLY ILL

REFORMATORIES AND PRISONS

DEPARTMENT OF PUBLIC WELFARE





REPORT  
OF THE  
Minister of Lands and Forests  
OF THE  
PROVINCE OF ONTARIO

For the Fiscal Year ending  
March 31, 1947

PRINTED BY ORDER OF  
THE LEGISLATIVE ASSEMBLY OF ONTARIO  
SESSIONAL PAPER No. 3, 1948



TORONTO  
Printed and Published by Baptist Johnston, Printer to the King's Most Excellent Majesty  
1948



To His Honour,

*The Lieutenant-Governor of the Province of Ontario.*

MAY IT PLEASE YOUR HONOUR:

The undersigned begs respectfully to present to your Honour, the Annual Report of the Department of Lands and Forests for the fiscal year April 1, 1946, to March 31, 1947.

H. R. SCOTT,

*Minister.*

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## GENERAL INTRODUCTION

This report, which covers the year ending 31st March, 1947, shows the Department expenditure at a comparatively high level. Expenditure is more than double that of the fiscal year ending in 1939.

Following the outbreak of war the Department made every effort to improve the quality of service rendered. Progress in this connection was, of course, dependent upon available man power, equipment and supplies. Due to sharply rising costs absorbing an increasing proportion of our financial resources, progress was equally dependent upon available funds.

In the pre-war period the cost of maintaining a seasonal fire ranger was four hundred dollars. The present cost is seven hundred dollars for ranger labour of similar quality. Ranger labour of a quality satisfactory for Forest Ranger School training requires double the funds expended on ranger labour in the pre-war period. With equipment and operating supplies, together with wages of other personnel requiring sharply increased expenditure, a substantial drain is placed upon funds provided in the post-war period for expansion of our services.

Greater emphasis placed on careful management of resources has offset in no small degree, shrinkage in the purchasing value of the dollar. Additional funds placed at our disposal have made up the remaining shrinkage in value, permitted betterment in quality of service rendered and some expansion in service. Further expansion in the management of the natural resources of the Province entrusted to this Department, is in no small part dependent upon increased funds available for this purpose.

The report on the work of the Department is listed under the following headings:

Accounts	Operation and Personnel
Air Service	Reforestation
Fish and Wildlife	Research
Forest Protection	Surveys and Engineering
Land and Recreational Areas	Timber Management
Law	



GOD'S COUNTRY

## DIVISION OF ACCOUNTS

## GENERAL

As of 15th April, 1946, the Minister of Lands and Forests was charged with the administration of the former Department of Game and Fisheries, which became the Fish and Wildlife Division of the Department of Lands and Forests. For accounting purposes all receipts and expenditures of the former Department of Game and Fisheries are included under the Fish and Wildlife Division from 1st April, 1946, and a separate accounting made for this new Division.

A. DEPARTMENT OF LANDS AND FORESTS (OTHER THAN FISH AND WILDLIFE DIVISION)

The financial report sets out a substantial increase—\$1,862,412.—in expenditures appropriation of the Department as compared with the previous year. This increased appropriation was required for—

- (1) Air Service Equipment.
- (2) Construction of Ranger School at Dorset.
- (3) Expansion in field work of the Reforestation, Forest Research and Timber Management Divisions.

This increased expenditure was partly offset by an increase in cash receipts—\$1,551,500.—as compared with the previous year. Revenue for the year was the highest in the history of the Department with most sources of revenue showing improvement, particularly receipts from sale of Crown timber. This result was due to an increase in available woods labour following the close of hostilities, and a sharp upswing in tourist trade throughout the Province.

Following the policy of obtaining the closest possible co-operation between Field and Main Offices, officers of this Division made the following field inspections, for purposes of instruction of Field Officers and inspection of work programs—and Provincial Land Tax Courts of Revision:

- (a) *Reforestation Field Offices:* Angus, Midhurst, St. Williams.
- (b) *District Offices:* Algonquin Park, Chapleau, Cochrane, Galt, Fort Frances, Geraldton, Gogama, Kapuskasing, Kemptville, Kenora, Lindsay, North Bay, Parry Sound, Port Arthur, Sault Ste. Marie, Sioux Lookout, Sudbury, Tweed.
- (c) *Other Field Offices:* Ottawa, Pembroke, Ranger School (Dorset).
- (d) *Sundry:* Bracebridge, Little Current, Haileybury.

B. FISH AND WILDLIFE DIVISION—FORMERLY THE DEPARTMENT OF GAME AND FISHERIES

Receipts and Disbursements for the year are shown separately in Schedule G, Page 24.

A substantial increase—\$449,313.09—in the expenditure appropriation for the year, as compared with the previous year, was required. This increased appropriation was required for

- (1) Enforcement of the Game and Fisheries Act.
- (2) Hatcheries—Operation and maintenance.
- (3) Erecting buildings; Purchase of Land, Buildings and Equipment.

The increase in expenditure was more than offset by an increase in cash receipts—\$597,034.99—as compared with the previous year. Revenue for the year was the highest in history, with most sources of revenue showing improvement, particularly receipts from the sale of Hunting and Angling Licences. This was due to a sharp upswing in tourist trade throughout the Province.

## FINANCIAL REPORT

### 1. Cash Receipts and Disbursements:

Statement for the year ending March 31, 1947 is set out on Schedule A, page 10. The following summarizes the result of operations for the year.

Total—Cash Receipts.....	\$8,414,947.24
Total—Cash Disbursements.....	5,961,805.96
Excess of Receipts over Disbursements.....	\$2,453,141.28

### 2. Comparison of Results with those of Prior Years:

#### (a) Receipts

In Schedule B, page 16, cash receipts for the year under review have been compared with those of the previous four years. This data may be summarized as follows:

DIVISION	Years ending March 31st				1947
	1943	1944	1945	1946	
	\$	\$	\$	\$	\$
Accounts—					
Water Power Rentals.....	648,485	618,901	609,425	654,979	680,568
Provincial Land Tax.....	146,014	158,745	175,342	209,459	204,475
Long Lac Diversion.....	44,850	21,750	21,300	20,850	20,400
Miscellaneous.....	4,267	5,939	20,388	9,048	46,071
Land and Recreational Areas.....	173,779	273,754	294,308	338,258	430,644
Forest Protection.....	51,825	22,917	26,850	30,943	46,402
Timber Management.....	4,982,281	4,561,734	4,241,581	5,554,781	6,944,104
Surveys.....	3,438	13,293	1,275	459	1,652
Air Service.....	6,946	19,448	12,417	25,284	15,258
Reforestation.....	8,453	26,138	10,559	19,386	25,373
Lignite Development.....	924	16			
	6,071,262	5,722,635	5,413,445	6,863,447	8,414,947



(b) The following is a comparison of total disbursements for the five years ending March 31, 1947:

	Years ending March 31st				
	1943	1944	1945	1946	1947
	\$	\$	\$	\$	\$
Total Disbursements—					
Chargeable to appropriation as voted.....	2,799,689	3,040,901	3,572,225	3,988,394	5,961,806
Additional Disbursements—					
Uncontrollable items, chargeable to Special Warrants.....	701,296	.....	.....	111,000	.....
Total Disbursements.....	3,500,985	3,040,901	3,572,225	4,099,394	5,961,806

(c) *Trend of Receipts and Disbursements*

i. *Receipts*

Annual Receipts 1947 as compared with 1943 show an increase of approximately \$2,343,685.00 or 38.6 per cent. This increase is due in large part to increased revenue from:

Land and Recreational Areas.....	\$ 256,865.00
Timber Management.....	1,961,823.00
Land Tax.....	58,461.00
Miscellaneous.....	41,804.00
Water Power.....	32,083.00
	\$2,351,036.00

ii. *Disbursements*

Annual Disbursements 1947 as compared with 1943 show an increase of \$2,460,821.00 or 70.3 per cent. This increase is accounted for in large part by the following items:

Main Office.....	\$ 161,665.00
Air Service.....	334,053.00
Forest Research.....	221,174.00
Basic Organization, Extra Fire Fighting and Scaling.....	1,897,489.00
Construction and Operating Forest Ranger School.....	323,429.00
Reforestation.....	208,976.00
	\$3,146,786.00

Less special Disbursements applicable in 1943:

Hydro-Electric Power Commission of Ontario re Long Lac Diversion.....	400,000.00
Lignite Development Project.....	299,993.00
	699,993.00
	\$2,446,793.00

(d) *Fish and Wildlife Division*

Receipts and Disbursements of this Division are separately shown in Schedule G, page 24.

## Schedule A.

DEPARTMENT OF  
STATEMENT OF RECEIPTS  
FOR THE YEAR ENDING

**RECEIPTS**

DIVISION OF ACCOUNTS

Water Power Rentals.....	\$	680,568.56	
Provincial Land Tax.....		204,474.57	
Long Lac Diversion.....		20,400.00	
Casual Fees, Surveys Office Fees, etc.....		11,070.65	
Contractors' Security Deposits			
Forest Ranger School.....		20,000.00	
Forest Resources Inventory.....		15,000.00	
			\$ 951,513.78

DIVISION OF LAND AND RECREATIONAL AREAS

Land Sales

Agricultural.....	\$	27,157.22	
Summer Resort.....		54,976.37	
Townsites.....		28,377.60	
University.....		401.49	
Clergy School.....		288.00	
Common School.....		148.00	
Miscellaneous.....		40,151.34	
Unallocated.....		110,365.94	
			261,865.96

Land Rentals (Other than Parks)

Leases and Licenses of Occupation.....		95,445.89	
Bruce Beach.....		1,591.72	
Timagami Islands.....		1,855.56	
			98,893.17

Park Revenue

Algonquin			
Rentals.....	\$	9,355.82	
Miscellaneous.....		21,882.41	
			31,238.23

Rondeau

Rentals.....		12,950.03	
Miscellaneous.....		3,048.61	
			15,998.64

Quetico

Rentals.....		60.75	
Miscellaneous.....		13,694.31	
			13,755.06

Ipperwash Beach

Miscellaneous.....		1,238.25	
			62,230.18

Miscellaneous Revenue.....		7,655.05	
			430,644.36

Carried Forward..... \$1,382,158.14

Schedule A.

LANDS AND FORESTS  
AND DISBURSEMENTS

MARCH 31, 1947

## DISBURSEMENTS

## MAIN OFFICE

Minister's Salary—Statutory . . . . .	\$	8,000.00	
Salaries—Permanent and Temporary . . . . .		445,994.29	
Travelling Expenses . . . . .		33,446.70	
Maintenance and Operating . . . . .		68,199.80	
Damage and Other Claims, Sundry Contingencies, etc. . . . .		595.00	
Compensation for Injured Workmen . . . . .		23,140.73	
Cost of Living Bonus—Entire Department . . . . .		1,604.96	
Unemployment Insurance Stamps . . . . .		51.51	
Annuities and Bonuses to Indians . . . . .		24,508.00	
Refund to Municipalities re Timber Dues . . . . .		806.05	
Refund to University of Toronto re Wild Lands . . . . .		246.62	
			\$ 606,593.66

## FIELD SERVICES

## DIVISION OF SURVEYS

Grant—Board of Surveyors . . . . .		200.00	
Aerial Surveys, Salaries, etc. . . . .		1,882.82	
Ground Surveys, Miscellaneous Expenses . . . . .		39,843.07	
			41,925.89

## DIVISION OF FOREST RESEARCH (See Schedule "D" Page 21)

Salaries—Temporary . . . . .		83,651.45	
Travelling Expenses . . . . .		15,277.29	
Maintenance and Operating . . . . .		122,245.54	
			221,174.28

## FIELD OPERATIONS (Including Provincial Parks)

## Basic Organization (See Schedule "E" Page 22)

Salaries . . . . .		1,509,860.80	
Travelling Expenses . . . . .		108,577.75	
Maintenance and Operating . . . . .		1,689,751.97	
			3,308,190.52

## Extra Fire Fighting

Salaries—Temporary . . . . .		205,201.34	
Travelling Expenses . . . . .		10,367.17	
Maintenance and Operating . . . . .		86,222.82	
			301,791.33

## Scaling

Salaries—Temporary . . . . .		343,519.19	
Travelling Expenses . . . . .		24,288.82	
Maintenance and Operating . . . . .		15,592.19	
			383,400.20

## Clearing Townsites and Removal of Fire Hazards

Salaries, etc. Maintenance and Operating . . . . .			4,255.28
--	--	--	----------

Carried Forward . . . . . \$4,867,331.16

Schedule (A *Continued*)

DEPARTMENT OF  
STATEMENT OF RECEIPTS  
FOR THE YEAR ENDING

**RECEIPTS**

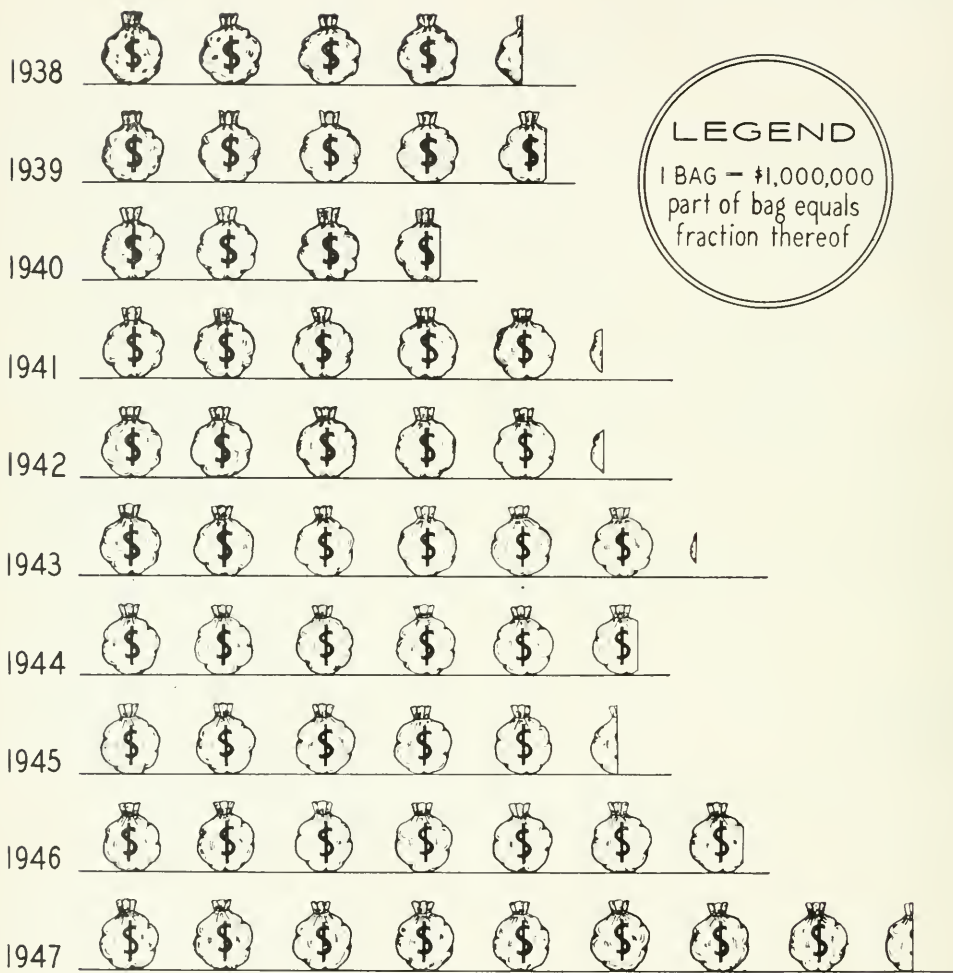
Brought Forward.....		\$1,382,158.14
DIVISION OF FOREST PROTECTION		
Miscellaneous.....		46,401.74
DIVISION OF TIMBER MANAGEMENT (See Schedule "C" Page 20)		
Crown Dues.....	\$6,175,443.93	
Ground Rent.....	125,060.70	
Fire Tax.....	461,163.51	
Scalers' Wages.....	9,041.63	
Interest.....	6,184.37	
Mill Licenses.....	1,000.51	
Cuffers Examination Fees and Sundry.....	1,425.63	
Cash Deposits.....	164,784.11	
		6,944,104.39
DIVISION OF SURVEYS		
Aerial Surveys—Net Receipts.....		1,651.44
DIVISION OF AIR SERVICE		
Miscellaneous.....		15,258.36
DIVISION OF REFORESTATION		
Miscellaneous.....		25,373.17
		\$8,414,947.24

Schedule A (*Continued*)LANDS AND FORESTS  
AND DISBURSEMENTS  
MARCH 31, 1947

## DISBURSEMENTS

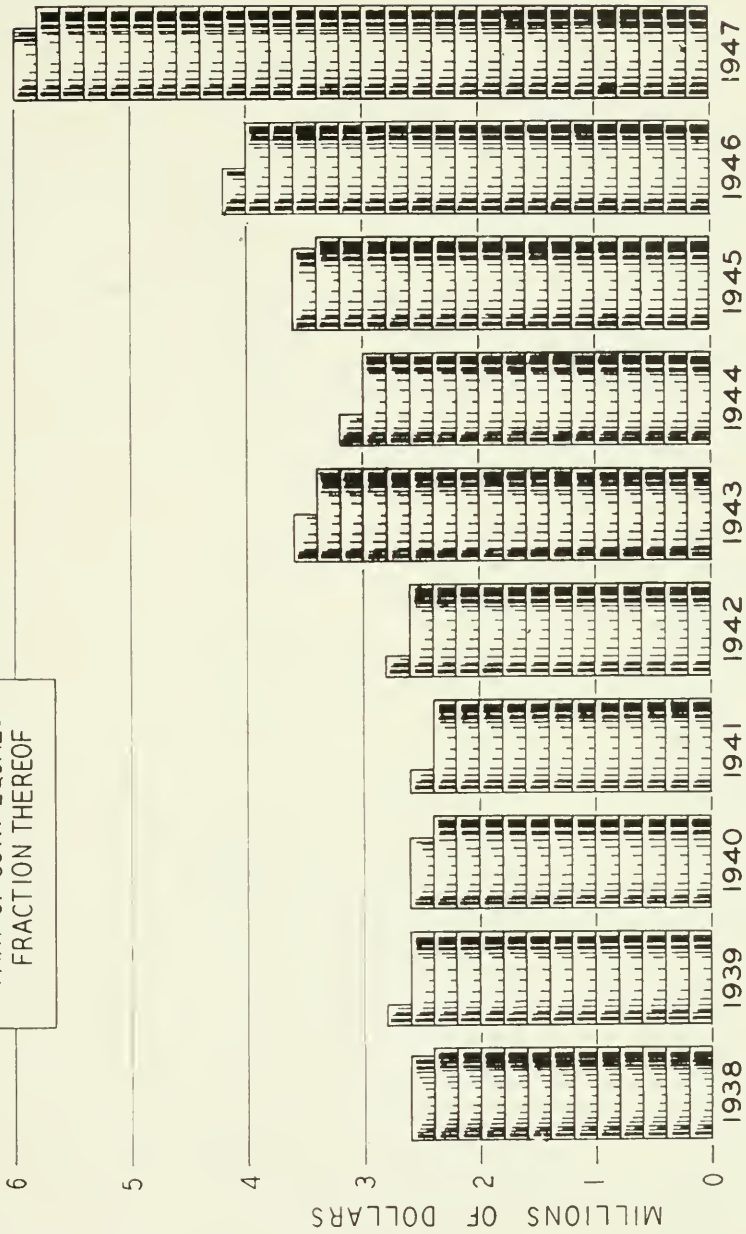
Brought Forward.....		84,867,331.16
DIVISION OF AIR SERVICE (See Schedule "F" Page 23)		
Salaries.....	\$ 198,985.58	
Travelling Expenses.....	5,649.17	
Maintenance and Operating.....	402,433.28	
		607,068.03
DIVISION OF REFORESTATION		
Salaries.....	\$ 348,298.24	
Travelling Expenses.....	28,039.14	
Maintenance and Operating.....	110,662.90	
		487,000.28
Grants to Municipalities in Compensation for Loss of School Taxes.....		406.49
		487,406.77
Total Disbursements.....		5,961,805.96
Excess of Receipts over Disbursements—Paid into the Consolidated Revenue Fund of the Province.....		2,453,141.28
		<u>88,414,947.24</u>

Fish and Wildlife Division—Receipts and Disbursements are not included in the foregoing. These are separately shown in Schedule "G" Page 24.



RECEIPTS FOR THE FISCAL YEARS 1938-1947.

**LEGEND**  
 5 COINS = \$1,000,000.  
 1 COIN = \$200,000.  
 PART OF COIN EQUALS  
 FRACTION THEREOF



DISBURSEMENTS FOR THE FISCAL YEARS 1938-1947.

## Schedule B

DEPARTMENT OF  
COMPARISON OF RECEIPTS FOR

	1943
DIVISION OF ACCOUNTS	
Water Power Rentals.....	\$ 648,484.87
Provincial Land Tax.....	146,013.91
Long Lac Diversion.....	44,850.00
Refunds—Re Flowage Easements.....	113.20
Casual Fees, etc.....	3,191.91
Galt Lease.....	.....
Contractor's Security Deposit on Forest Insect Laboratory Construction Project.....	.....
Contractor's Security Deposit on Forest Ranger School.....	.....
Contractor's Security Deposit on Forest Resources Inventory.....	.....
	<u>842,653.89</u>
DIVISION OF LAND AND RECREATIONAL AREAS	
Land Sales.....	69,162.08
Land Rentals (Other than Parks).....	65,982.01
Park Revenue—Including Park Rentals	
Algonquin.....	18,508.87
Rondeau.....	13,402.73
Quetico.....	5,983.60
Ipperwash Beach.....	739.61
Miscellaneous Revenue.....	962.06
	<u>174,740.96</u>
DIVISION OF FOREST PROTECTION	
Radio Service.....	23,155.68
Miscellaneous.....	28,669.50
	<u>51,825.18</u>
DIVISION OF TIMBER MANAGEMENT	
Crown Dues, Ground Rent, Fire Tax, etc.....	4,982,281.03
DIVISION OF SURVEYS	
Lac Seul Storage Dam.....	.....
Aerial Surveys—Net Receipts.....	3,438.31
	<u>3,438.31</u>
DIVISION OF AIR SERVICE	
Miscellaneous.....	6,945.96
DIVISION OF REFORESTATION	
Miscellaneous.....	8,453.36
LIGNITE DEVELOPMENT	
Miscellaneous.....	923.75
Total Receipts.....	<u>\$6,071,262.44</u>



## Schedule B

## LANDS AND FORESTS

5 YEARS ENDING MARCH 31, 1947

1944	1945	1946	1947
\$ 618,901.26	\$ 609,425.12	\$ 654,978.77	\$ 680,568.56
158,744.95	175,341.55	209,459.44	204,474.57
21,750.00	21,300.00	20,850.00	20,400.00
93.76	.....	.....	.....
2,924.52	4,719.34	9,047.69	11,070.65
2,921.00	669.00	.....	.....
.....	15,000.00	.....	.....
.....	.....	.....	20,000.00
.....	.....	.....	15,000.00
805,335.49	826,455.01	894,335.90	951,513.78
118,745.26	155,219.01	193,061.11	261,865.96
107,517.94	89,484.59	90,988.56	98,893.17
22,422.53	19,573.53	23,759.48	31,238.23
15,201.66	15,152.86	15,017.47	15,998.61
6,435.81	7,572.01	8,868.97	13,755.06
235.80	623.15	575.50	1,238.25
3,195.43	6,683.40	5,986.66	7,655.05
273,754.43	294,308.55	338,257.78	430,644.36
.....	.....	.....	.....
22,916.40	26,850.25	30,942.78	46,401.74
22,916.40	26,850.25	30,942.78	46,401.74
4,561,733.49	4,241,581.00	5,554,781.31	6,944,104.39
11,685.22	.....	.....	.....
1,607.26	1,274.94	458.95	1,651.44
13,292.48	1,274.94	458.95	1,651.44
19,118.31	12,416.85	25,284.13	15,258.36
26,137.92	10,558.66	19,386.47	25,373.17
16.44	.....	.....	.....
85,722,634.96	85,413,445.26	86,863,447.32	88,414,947.24

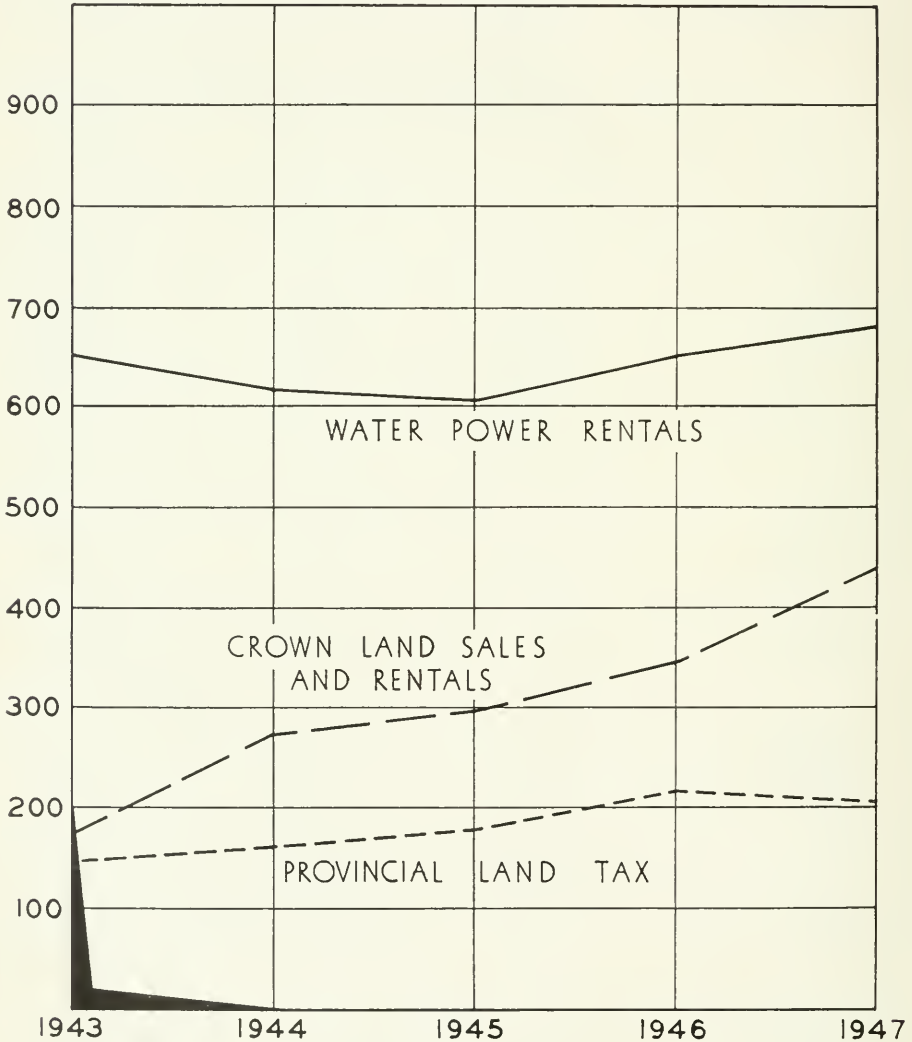
Fish and Wildlife Division Receipts not included in the foregoing. Receipts for year ending March 31st, 1947, are shown in Schedule "G" Page 24.

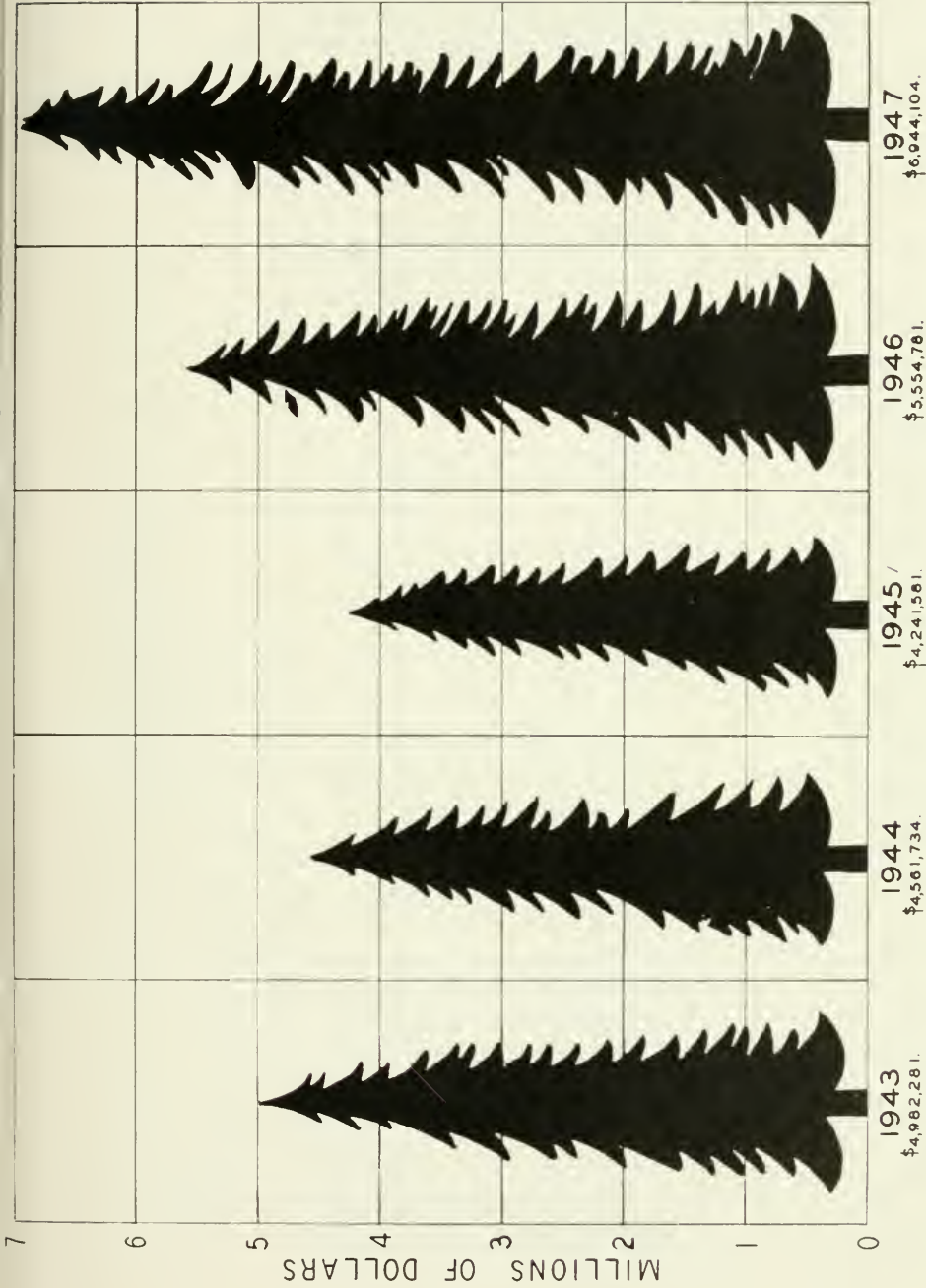
# TREND OF DEPARTMENTAL REVENUE

WATER POWER RENTALS  
CROWN LAND SALES AND RENTALS  
PROVINCIAL LAND TAX

THOUSANDS  
OF DOLLARS

FOR THE FIVE YEARS  
ENDING 31 MARCH 1947





## TREND OF DEPARTMENTAL REVENUE

TIMBER RETURNS—CROWN DUES—GROUND RENT & FIRE TAX CHARGES

FOR THE FIVE YEARS ENDING 31 MARCH 1947

Schedule C

DEPARTMENT OF LANDS AND FORESTS  
DIVISION OF TIMBER MANAGEMENT  
ANALYSIS OF CASH RECEIPTS BY DISTRICTS

For Year ending March 31, 1917

District	Crown Dues	Ground Rent	Fire Tax	Scalers Wages	Interest	Mill Licenses	Cullers Exam. fees and Sundry	Total Revenue	Cash Deposits	Total Re- venue and Cash Dep.
Chapleau.....	\$ 20,812.00	\$ 330.00	\$ 180.00	\$ 14.00	\$ 772.00	\$ 67.00	\$	\$ 21,666.00	\$	\$ 21,666.00
Cochrane.....	881,232.00	14,243.00	61,205.00	2,194.00	15.00	15.00		959,733.00	34,308.00	994,041.00
Fort Frances.....	190,843.00	2,650.00	3,501.00	101.00	15.00	21.00		197,125.00	675.00	197,800.00
Geraldton.....	523,720.00	26,325.00	41,154.00	222.00	90.00			591,532.00		591,532.00
Gogama.....	14,203.00	195.00	256.00		1,554.00			16,208.00		16,208.00
Kapuskasing.....	931,725.00	5,805.00	51,232.00	1,511.00	157.00	8.00		990,471.00	1,607.00	988,864.00
Kenora.....	238,491.00	3,380.00	37,562.00	117.00		26.00		279,876.00	200.00	280,076.00
Lindsay.....	1,115.00							1,115.00		1,115.00
North Bay.....	587,588.00	12,140.00	31,994.00	1,458.00	755.00	111.00		634,046.00	35,690.00	669,736.00
Parry Sound.....	119,642.00	6,250.00	8,065.00	192.00	141.00	58.00	3.00	134,363.00	5,075.00	139,438.00
Pembroke.....	116,238.00	14,113.00	28,686.00	55.00	19.00	95.00		159,506.00	45,600.00	205,106.00
Port Arthur.....	1,559,240.00	13,411.00	82,592.00	417.00	2,025.00	72.00		1,657,457.00	4,000.00	1,661,457.00
Sault Ste. Marie*.....	459,728.00	7,885.00	62,601.00	8.00	33.00	337.00		530,535.00	17,786.00	548,381.00
Stouffville.....	113,406.00	4,070.00	12,883.00		153.00	15.00		130,587.00	14,050.00	144,637.00
Sudbury.....	280,316.00	8,691.00	28,947.00	2,241.00	24.00	61.00		320,283.00	2,800.00	323,083.00
Tweed.....	107,035.00	5,564.00	7,003.00	176.00	443.00	14.00		120,335.00	6,207.00	126,542.00
Unallocated.....							1,422.00	1,422.00		1,422.00
	6,175,144.00	125,061.00	461,164.00	9,042.00	6,181.00	1,000.00	1,125.00	6,779,320.00	464,784.00	6,914,104.00

\*Kirkwood Forest included.

Schedule D

DEPARTMENT OF LANDS AND FORESTS  
FOREST RESEARCH DIVISION—PROJECTS  
STATEMENT OF EXPENDITURE  
(Including General Office)  
FOR YEAR ENDING MARCH 31, 1947

PROJECT	TOTAL COST
Bud Worm Spraying.....	\$ 111,750.62
Experiment Station.....	38,078.98
Pump and Hose Test.....	11,091.10
Sulphur Fumes Investigation.....	19,940.33
Soil Surveys.....	24,419.78
Goulais River Road Improvement.....	1,480.58
Biology.....	14,700.43
Wild Life.....	7,809.75
Seed Production Experiment.....	3,134.65
Fisheries (Culvert).....	89.18
Nature Study.....	2,169.78
Radio Experiments.....	4,224.62
Stumpage.....	1,243.11
Regeneration Surveys.....	22,036.91
Total Direct Expenditures on Projects.....	262,169.82
Main Office Administration.....	26,706.62
Total Expenditure on Forest Research.....	<u>\$ 288,876.44</u>

DISTRIBUTION OF EXPENDITURE

Forest Research—Field Service.....	\$ 221,174.28
Forest Research—Main Office.....	25,030.29
Basic Organization—Equipment and Improvements.....	42,671.87
	<u>\$ 288,876.44</u>

## Schedule E

## DEPARTMENT OF LANDS AND FORESTS

## BASIC ORGANIZATION

## ANALYSIS OF EXPENDITURES BY DIVISIONS RESPONSIBLE,

## SHOWING COST BY SERVICES

## FOR YEAR ENDING MARCH 31, 1947

DIVISION	SERVICE	AMOUNT
Forest Protection	Fire Ranging . . . . .	\$1,368,718.41
	Forest Ranger School . . . . .	323,429.27
	Forest Insect Laboratory . . . . .	6,567.00
	Parry Sound Area seen mapping . . . . .	1,484.41
		\$1,700,199.09
Reforestation	Land Purchases . . . . .	58,760.56
	Equipment . . . . .	58,928.70
		117,689.26
Land and Recreational Areas	Administration and Inspections . . . . .	134,590.83
	Parks—	
	Algonquin . . . . .	90,561.25
	Quetico . . . . .	21,921.93
	Sibley . . . . .	3,022.59
	Lake Superior . . . . .	4,042.14
	Rondeau . . . . .	20,015.83
Ipperwash Beach . . . . .	3,589.45	
		277,744.02
Timber Management	Administration and Inspections . . . . .	136,529.67
	Management Surveys—	
	Kirkwood Forest . . . . .	17,278.56
	Petawawa . . . . .	11,294.87
	Goulais River . . . . .	2,132.20
	Aerial Surveys . . . . .	39,128.90
	Forest Resources Inventory . . . . .	336,775.67
Long Lac Diversion . . . . .	898.66	
		544,038.53
Operation and Personnel	Storage Warehouse . . . . .	13,663.64
	Fire Prevention—Information and Education . . . . .	194,349.34
		208,012.98
Forest Research	Equipment . . . . .	26,894.35
	Improvements . . . . .	15,777.52
		42,671.87
TOTAL—By Services—Exclusive of General Administration and Supervision . . . . .		2,890,355.75
	General Field Office Administration and Supervision . . . . .	417,834.77
TOTAL . . . . .		\$3,308,190.52

## Schedule F

DEPARTMENT OF LANDS AND FORESTS  
NET COST OF DIVISION OF AIR SERVICE CHARGEABLE TO  
FOREST PROTECTION DISTRICTS  
FOR YEAR ENDING MARCH 31, 1947

## DIVISION OF AIR SERVICE

Disbursements per Schedule A.....	\$	607,068.03
Receipts per Schedule A.....		15,258.36
Net Cost of Division of Air Service.....	\$	591,809.67

The above costs have been charged to the following District Offices  
as additional costs of Forest Protection—

Algonquin.....		24,029.72
Chapleau.....		27,281.86
Cochrane.....		22,488.77
Fort Frances.....		39,100.39
Gogama.....		15,478.86
Geraldton.....		54,053.82
Kapuskasing.....		16,920.25
Kenora.....		17,695.67
North Bay.....		35,034.01
Port Arthur.....		95,424.02
Sault Ste. Marie.....		65,290.44
Sioux Lookout.....		140,184.75
Sudbury.....		29,490.91
Toronto (Headquarters Flights).....		2,334.05
Dusting.....		933.62
Sulphur Fumes.....		6,068.53
TOTAL.....	\$	591,809.67

Schedule G.

DEPARTMENT OF  
FISH AND WILD  
STATEMENT OF RECEIPTS  
ENDING  
(BASED ON THE ESTIMATES  
OF GAME

**RECEIPTS**

GAME			
Licences			
Trapping.....	\$	62,498.15	
Non-resident Hunting.....		361,887.20	
Deer.....		196,548.80	
Moose.....		9,316.45	
Gun.....		132,906.53	
Dog.....		11,420.75	
Fur Dealers.....		34,322.00	
Fur Farmers.....		8,415.00	
Tanners.....		130.00	
Cold Storage.....		295.00	
		817,739.88	
Royalty on Furs.....		211,640.75	
			\$1,029,380.63
FISHERIES			
Licences			
Fishing (Commercial).....		97,356.00	
Angling.....		1,000,866.37	
		1,098,222.37	
Royalty on Commercial Fish.....		12,116.85	
			1,110,339.22
GENERAL			
Licences			
Tourist Camps.....		7,290.00	
Guides.....		12,734.00	
		20,024.00	
Fines (Enforcement of Act).....		44,266.85	
Costs Collected (Enforcement of Act).....		1,216.45	
Sales—Confiscated Articles.....		37,201.91	
Rent from Employees and others.....		2,718.00	
Commission retained by Province on sale of licences by Employees of the Crown.....		1,372.86	
Miscellaneous.....		1,680.73	
			108,480.80

\$2,248,200.65



## LANDS AND FORESTS

Schedule G.

## LIFE DIVISION

## AND DISBURSEMENTS FOR YEAR

MARCH 31, 1947

ALLOTTED TO THE FORMER DEPARTMENT  
AND FISHERIES)**DISBURSEMENTS**

ORDINARY			
Main Office			
Salaries—Permanent	.....	\$ 60,819.35	
—Temporary	.....	14,774.02	
		<u>75,593.37</u>	
Travelling Expenses	.....	4,163.94	
Maintenance	.....	15,729.80	
			\$ 95,487.11
General			
Moving Expenses of Officers of the Department	.....	982.74	
Unforeseen and Unprovided	.....	5.00	
Purchase of and Repairs to Boats, Boathouses, Machinery and Vehicles	.....	2,737.38	
Compensation for Injured Workmen	.....	755.45	
Cost of Living Bonus	.....	301.77	
Unemployment Insurance Stamps	.....	289.93	
Exhibits, Advertising and Educational	.....	4,220.81	
			9,293.08
Districts—(Enforcement of the Ontario Game and Fisheries Act)			
Salaries and Expenses	.....		516,263.72
Game Animals and Birds			
Purchase of Birds and Sundry Expenses	.....		35,471.25
Macdiarmid			
Salaries	.....	3,062.06	
Expenses	.....	1,213.74	
			4,275.80
Biological and Fish Culture Branch			
General Office			
Salaries—Permanent	.....	\$ 14,702.87	
—Temporary	.....	6,961.27	
		<u>21,664.14</u>	
Travelling Expenses	.....	4,318.65	
Maintenance	.....	5,400.63	
			31,383.42
Hatcheries			
Salaries and Expenses	.....	314,560.86	
			345,941.28
Grants:			
Jack Miner	.....	1,500.00	
Thomas N. Jones	.....	300.00	
E. L. Marsh	.....	100.00	
Ontario Fur Breeders' Association Inc.	.....	2,500.00	
Ontario Federation of Commercial Fishermen	.....	1,500.00	
			5,900.00
Wolf Bounty and Sundry Expenses	.....		59,275.18
Bear Bounty and Sundry Expenses	.....		9,797.42
			<u>1,081,707.84</u>
Total Ordinary			
CAPITAL			
Erecting Buildings, Purchase of Land Buildings and Equipment	.....	116,266.61	
			1,197,974.45
Total Disbursements			
Excess of Receipts over Disbursements			
Paid into the Consolidated Revenue Fund of the Province	.....	1,050,226.20	
			<u>\$2,248,200.65</u>



NORSEMAN AIRCRAFT OBN, OF THE DIVISION OF AIR SERVICE, TAXING IN TO DOCK AT LILLABELLE LAKE.

## DIVISION OF AIR SERVICE

As the fire hazard in the summer of 1946 was moderate, the Air Service was not overtaxed in its forest fire detection and suppression duties.

The Department operated from five winter stations; Smoke Lake (Algonquin Park), Eva Lake (Quetico Park), Geraldton, Gogama and Sioux Lookout. The flying was largely in connection with general forestry administration, fish and wildlife, poaching, and emergency sickness and accident cases.

*Equipment*

Four new Norseman aircraft were purchased.

The Department submitted specifications to the De Havilland Aircraft Company of Canada for the building of a semi-transport type of plane. Company engineers examined the specifications, and reports have been encouraging.

*Maintenance and Improvements*

Construction of an addition to the main hangar at Sault Ste. Marie has been undertaken by the Department of Public Works to provide storage for approximately fifty aircraft.

*Co-operation with the Royal Commission on Forestry, and other Government Departments.*

Assistance was accorded Dominion Government entomologists in their forest insect infestation surveys. The agreement effected the previous year with the Department of Health was extended to include the Provincial Police. Co-operation was continued with other Departments of the Ontario Government in supplying their flying needs, as required.

In addition the Air Service supplied 272 hours of flying to the Royal Commission on Forestry, which greatly expedited its work.

*Accidents*

It is a great pleasure to report that there were no serious accidents to any of the Air Service personnel during the year.

*Statistics*

The following tables give details of operation:

### Tables

Table No. 1—Allocation of aircraft.

Table No. 2—Transport aircraft—hours flown and effective loads carried.

Table No. 3—Hours flown on various phases of flying operations.

Table No. 4—Totals.

Table No. 5—Hours flown at bases.

Table No. 6—Flying time—Pilots—for the fiscal year ending March 31, 1947.

Table No. 7—Flying time—Aircraft—for the fiscal year ending March 31, 1947.

TABLE No. 1

ALLOCATION OF AIRCRAFT

1946-47

<i>Base</i>	<i>Registration</i>	<i>Type</i>
Algonquin Park	CF-BGM	Stinson
	CF-BIM	Stinson
Biscotasing	CF-OBF	Norseman
	G-CAOU	Moth
Caribou Lake	CF-OBI	Norseman
Fort Frances	CF-OBM	Norseman
Ignace	CF-OAV	Stinson
Kenora	CF-OBD	Norseman
Oba Lake	CF-OBH	Norseman
	G-CAOZ	Moth
Orient Bay	CF-OBG	Norseman
	CF-OBL	Norseman
Pays Plat	CF-OAW	Stinson
Port Arthur	CF-OBE	Norseman
Pickle Lake	CF-OAP	Fairchild 71
Red Lake	CF-BGN	Stinson
Remi Lake	CF-BGJ	Stinson
Sault Ste. Marie	CF-OBA	Stinson
	CF-OBO	Norseman
	G-CAOW (Spare)	Moth
Sioux Lookout	CF-OBC	Norseman
	CF-OBG	Stinson
Sudbury	CF-BDQ	Waco
	CF-OAS	Buhl
South Porcupine	CF-OAY	Stinson
Timagami	CF-OBJ	Norseman
Twin Lakes	CF-OBN	Norseman
	G-CAPB	Moth
	G-CAPA	Moth
Toronto	CF-OBK	Canso

TABLE No. 2  
 TRANSPORT AIRCRAFT—EFFECTIVE LOADS CARRIED  
 1946-47

AIRCRAFT		HOURS FLOWN	EFFECTIVE LOAD
Buhl	CF-OAS	219.30	72,460 lbs.—36 Tons, 460 lbs.
Fairchild 71	CF-OAP	193.35	102,870 lbs.—51 Tons, 870 lbs.
Norseman	CF-OBC	247.00	177,410 lbs.—88 tons, 1410 lbs.
	CF-OBD	297.35	192,250 lbs.—96 tons, 250 lbs.
	CF-OBE	375.55	313,320 lbs.—156 tons, 1320 lbs.
	CF-OBF	391.55	329,173 lbs.—164 tons, 1173 lbs.
	CF-OBG	484.20	307,360 lbs.—153 tons, 1360 lbs.
	CF-OBH	384.00	167,356 lbs.—83 tons, 1356 lbs.
	CF-OBI	299.10	167,465 lbs.—83 tons, 1465 lbs.
	CF-OBJ	308.45	229,877 lbs.—114 tons, 1877 lbs.
	CF-OBL	276.20	228,310 lbs.—114 tons, 310 lbs.
	CF-OBM	252.05	273,200 lbs.—136 tons, 1200 lbs.
	CF-OBN	103.20	52,675 lbs.—26 tons, 675 lbs.
	CF-OBO	117.30	45,830 lbs.—22 tons, 1830 lbs.
	Stinson	CF-OBA	298.25
CF-OB B		276.00	105,912 lbs.—52 tons, 1912 lbs.
CF-BGJ		374.05	159,013 lbs.—79 tons, 1013 lbs.
CF-BGM		343.35	204,203 lbs.—102 tons, 203 lbs.
CF-BIM		451.35	197,186 lbs.—98 tons, 1186 lbs.
CF-BGN		282.40	140,285 lbs.—70 tons, 285 lbs.
CF-OAV		247.45	124,615 lbs.—62 tons, 615 lbs.
CF-OAW		347.45	169,649 lbs.—84 tons, 1649 lbs.
CF-OAY		364.50	81,585 lbs.—40 tons, 1585 lbs.
Waco	CF-BDQ	228.50	106,980 lbs.—53 tons, 980 lbs.
Canso	CF-OBK	422.25	998,100 lbs.—499 tons, 100 lbs.

## TOTAL TRANSPORT SECTION:—

Total Flying Time	Hours	7,588.55
Total Loading	Pounds	5,078,724
Total Loading	Tons	2,539 tons, 724 lbs.

TABLE No. 3  
HOURS FLOWN ON VARIOUS PHASES OF FLYING OPERATIONS

	1924-46	1946-47	Total
Fire Detection.....	42,483.40	1,082.40	43,566.20
Game Conservation.....	417.00	446.20	863.20
Fire Suppression.....	34,815.16	1,230.00	36,045.16
Photography.....	1,404.15	9.05	1,413.20
Sketching.....	3,863.53	223.40	4,087.33
Transportation—Ordinary.....	37,383.10	3,473.50	40,857.00
Transportation—Special.....	7,105.37	938.10	8,043.47
Mercy Flights.....	275.17	39.15	314.32
Ferrying.....	6,327.37	210.30	6,538.07
Forced Landings.....	916.24	27.25	943.49
Flying Instruction.....	2,962.47	14.15	2,977.02
Observers Instruction.....	94.09	.....	94.09
Operations.....	5,464.53	230.00	5,694.53
Tests Aircraft.....	1,524.57	49.50	1,574.47
Dusting Operations—Ont. Govt.....	41.35	284.30	326.05
Dusting Operations—B.C. Govt.....	.....	86.20	86.20
Tests—Radio.....	83.40	2.00	85.40
Department of Entomology.....	99.45	202.15	302.00
Department of Research (Sulphur Fumes).....	99.30	151.05	250.35
	145,363.25	8,701.10	154,064.35

TABLE No. 4  
TOTALS

	1924-46	1946-47	Total
Passengers Carried.....	103,170	18,079	121,249
Personnel Carried.....	75,954	4,101	80,055
Total Passengers and Personnel Carried.....	179,124	22,180	201,304
Effective Loads Flown, Lbs.....	37,646,194	5,230,897	42,877,091
Effective Loads Flown, Tons.....	18,823T	2,615T	21,438T
	194lbs.	897lbs.	1,091lbs.

TABLE No. 5  
HOURS FLOWN AT BASES  
1946-47

Base	Hours Flown
Algonquin Park.....	620.45
Biscotasing.....	606.00
Caribou Lake.....	296.00
Fort Frances.....	579.25
Ignace.....	248.15
Kenora.....	305.35
Oba Lake.....	565.10
Orient Bay.....	544.40
Pays Plat.....	361.20
Pickle Lake.....	188.10
Port Arthur.....	374.35
Red Lake.....	282.50
Remi Lake.....	373.50
Sault Ste. Marie.....	190.40
South Porcupine.....	356.25
Sioux Lookout.....	675.25
Sudbury.....	343.55
Timagami.....	371.55
Twin Lakes.....	571.25
Toronto.....	22.55
	8179.15
Dusting Operations—B.C. Govt.....	86.20
Dusting Operations—Ont. Govt.....	284.30
Sulphur Fumes Sampling.....	151.05
Total.....	8701.10

TABLE No. 6  
FLYING TIME—PILOTS

Pilots	1924-46	1946-47	Totals
Bliss, W. H. F.		91.20	91.20
Burt, A. E.	1,373.50	416.50	1,790.40
Buckworth, W. B.	2,550.50	382.50	2,933.40
Burton, E. C.	1,144.35	307.45	1,452.20
Blockley, H. T.		240.40	240.40
Charity, G. E.	744.40	266.30	1,011.10
Crossley, C. C.	5,711.28	373.25	6,084.53
Cooke, T. C.		215.05	215.05
Culliton, J. P.	2,076.35	410.15	2,486.50
Denley, J. G.	581.00	268.40	849.40
Donnelly, J. T.	674.10	359.30	1,033.40
Fiskar, U. W.	2,113.15	161.50	2,275.05
Gillard, M. V.	4,407.55	321.35	4,729.30
Johnson, A. S.		100.20	100.20
Kincaid, J.	721.35	221.30	943.05
Kingdon, O. F.	185.50	202.15	388.05
LeFeuvre, C. J.	2,393.05	383.55	2,777.00
MacDougall, F. A.	3,068.05	199.00	3,267.05
Ponsford, G. E.	421.50	18.30	440.20
Pipe, J. T.	868.05	290.35	1,158.40
Parsons, R.	1,525.15	433.25	1,958.40
Phillips, G. H. R.	6,454.50	406.05	6,860.55
Poulin, L. D.	1,384.15	461.35	1,845.50
Reid, D. M.	110.20	163.35	273.55
Reilly, J.		220.10	220.10
Smith, A. B.	1,172.00	249.25	1,421.25
Siegel, J.	299.30	210.50	510.20
Speight, H. C.	623.35	247.45	871.20
Trussler, G. E.	3,284.40	241.40	3,526.20
Taylor, J. M.	1,919.20	171.25	2,090.45
Westaway, H. W.	3,773.10	377.40	4,150.50
Woodside, T.	3,830.37	285.15	4,115.52
Delahaye, G.	3,801.00		3,801.00
Noorduyn Pilots	9.15		9.15
All other Pilots	88,138.50		88,138.50
Total	145,363.25	8,701.10	154,064.35



TABLE No. 7  
FLYING TIME—AIRCRAFT

Aircraft	1924-46	1946-47	Total
Buhl			
CF-OAS.....	2,624.50	219.30	2,844.20
Fairchild 71			
CF-OAP.....	2,673.10	193.35	2,866.45
Moth			
CF-OAA.....	5,014.15	88.25	5,102.40
G-CAPA.....	5,034.40	161.50	5,196.30
G-CAPB.....	5,509.25	220.55	5,730.20
G-CAOU.....	5,078.10	159.15	5,237.25
G-CAOW.....	5,096.07	215.35	5,311.42
G-CAOZ.....	6,282.40	266.15	6,548.55
Norseman			
CF-OBC.....	280.35	247.00	527.35
CF-OBD.....	285.40	297.35	583.15
CF-OBE.....	517.40	375.55	893.35
CF-OBF.....	465.40	391.55	857.35
CF-OBG.....	211.00	484.20	698.20
CF-OBH.....	172.40	384.00	556.40
CF-OBJ.....	135.00	299.10	434.10
CF-OBK.....	94.20	308.45	403.05
CF-OBL.....		276.20	276.20
CF-OBM.....		252.05	252.05
CF-OBN.....		103.20	103.20
CF-OBO.....		117.30	117.30
Stinson			
CF-OBA.....	1,213.40	298.25	1,512.05
CF-OBB.....	683.30	276.00	959.30
CF-BGJ.....	1,352.20	374.05	1,726.25
CF-BGM.....	2,156.00	343.35	2,499.35
CF-BIM.....	366.10	451.35	817.45
CF-BGN.....	2,055.10	282.40	2,337.50
CF-OAV.....	1,699.25	247.45	1,947.10
CF-OAW.....	2,348.15	347.45	2,696.00
CF-OAY.....	2,051.45	364.50	2,416.35
Waco			
CF-BDQ.....	813.20	228.50	1,042.00
Canso			
CF-OBK.....	6.05	422.25	428.30
All Other Aircraft.....	91,139.03	.....	91,139.03
Total.....	145,363.25	8,701.10	154,064.35



A FRIENDLY WHITE-TAILED DEER.

## DIVISION OF FISH AND WILDLIFE

This is the first report published since the incorporation of the Department of Game and Fisheries into the Department of Lands and Forests as the Division of Fish and Wildlife.

The amalgamation of the two Departments was conceived as a move to bring all the renewable natural resources of the Province under one administration, and the process of transfer was begun in May, 1946. By July, 1946, the move was complete, and Dr. W. J. K. Harkness was selected as chief of the newly formed Division.

Dr. Harkness organized the Division into four separate sections, as follows:

1. *Enforcement:* Under the supervision of Mr. J. F. Farrington. The Enforcement Section is responsible for the proper enforcement of the Game and Fisheries Act and Regulations, has custody of all seized materials, and the sale thereof.

2. *Wildlife:* Dr. C. H. D. Clarke, Supervisor of this Section, has under his control the administration of the game resources of the Province, the payment of wolf and bear bounties, and the administration of the fur resources, both wild and ranch raised.

3. *Game Fish:* Mr. H. H. MacKay is responsible for the proper administration and maintenance of the angling fishery, production of fish by provincial hatcheries, and such scientific surveys and projects as are necessary to ensure proper placing of hatchery raised fish.

4. *Commercial Fish:* Mr. W. H. R. Werner is responsible for the administration of the commercial fishing resources of the Province, including issue of licences and collection of statistical data concerning catches.

The amalgamation of the two Departments was extended into the field, all game and fisheries overseers and inspectors being taken into the forest district organization. In each District a Fish and Wildlife Specialist was appointed, to whom all Overseers in the District are responsible. This specialist, in most cases a senior Overseer, is himself responsible to the District Forester.

## LIST OF SPECIALISTS BY DISTRICTS—

<i>District</i>	<i>Fish and Wildlife Specialist</i>
Fort Frances.....	H. E. Pearson
Kenora.....	H. Harris
Sioux Lookout.....	C. L. Perrie
Geraldton.....	J. Noble
Port Arthur.....	R. D. Windsor
Cochrane.....	L. A. Dent
Kapuskasing.....	O. D. Lewis
Chapleau.....	V. Crichton
Gogama.....	C. R. Weaver
North Bay.....	G. M. Parks
Sault Ste. Marie.....	C. F. Cook
Sudbury.....	C. F. Bibby
Algonquin.....	E. L. Skuce
Parry Sound.....	N. McNaughton
Quinte.....	R. G. Sheppard
Rideau.....	R. Baker
Trent.....	A. M. Hodgson
Lake Erie.....	W. Keller
Lake Huron.....	E. R. Meadows
Lake Simcoe.....	J. S. Ellis

The staff of the Fish and Wildlife Division works in close cooperation with many professional associations and sporting associations. Representatives attend meetings of the Ontario Federation of Commercial Fishermen, the Ontario Fur Breeders' Association, and many fish and game protective associations throughout the Province.

Grants were given to the two associations mentioned above, and also the Niagara District Pheasant Breeders' Association, Mrs. E. L. Marsh, Mr. E. T. Jones, and the Jack Miner Migratory Birds Foundation.

Many members of the Head Office staff are closely connected with the Ontario Research Commission, and sit on many of the committees of that organization.

In April, a joint meeting of Fish and Wildlife Technical Personnel of Ontario and New York State was held in Toronto under the sponsorship of the former Department of Game and Fisheries.

In December of 1946, a course was organized at the recently opened Forest Ranger School at Dorset, for the instruction of Fish and Wildlife Specialists and Overseers in the identification and ecology of the principal species of fish, birds and mammals of the Province. This course extended for two weeks and the instruction received was of considerable value. In addition, an opportunity was presented for the instructing staff, drawn from the University of Toronto, the Royal Ontario Museum of Zoology and Head Office, to meet and talk to the field staff.

At the annual meeting of the Department of Lands and Forests, January 21st, 1947, Mr. Lloyd W. Swift, Chief of the Division of Wildlife Management, United States Forest Service, addressed the staff of the Department.

Reports are presented under the headings of the four sections as outlined above.

## ENFORCEMENT

On April 1st, 1946, Game and Fisheries Enforcement officers in Ontario numbered 136.

These officers were responsible for enforcement throughout the Province of provisions of the Game and Fisheries Act and Regulations, the Fisheries Act (Canada), the Special Fishery Regulations for the Province of Ontario, and the Migratory Birds Convention Act and Regulations.

Previous to the amalgamation of the Department of Game and Fisheries with the Department of Lands and Forests, these enforcement officers had been subject to direct administration from headquarters at Toronto, though in that portion of the Province lying north and west of the French and Mattawa Rivers and Lake Nipissing, they were under the immediate supervision of district superintendents, viz:—

- (a) at North Bay,—  
in the Districts of Nipissing (north of the Mattawa River and Lake Nipissing), Timiskaming, Cochrane, Sudbury and Algoma; and
- (b) at Fort William,—  
in the Districts of Thunder Bay, Fort Frances and Kenora.

In the territory south of the French and Mattawa Rivers and Lake Nipissing there were 74 officers; in the territory under supervision through the North Bay office there were 35 officers; and in the territory under supervision through the Fort William office there were 17 officers.

As of March 31, 1947, there were 177 officers in the enforcement service of the Fish and Wildlife Division,—92 in Southern Ontario, 52 in the districts formerly supervised through the North Bay office, and 33 in the districts formerly supervised through the Fort William office. In general terms, Southern Ontario comprises the following forestry districts, viz: Algonquin, Lake Erie, Lake Huron, Lake Simcoe, Parry Sound, Quinte, Rideau and Trent. The area formerly supervised through the North Bay office comprises the following forestry Districts, viz: Chappleau, Cochrane, Gogama, Kapuskasing, North Bay, Sault Ste. Marie and Sudbury. The area formerly supervised through the Fort William office comprises the following forestry Districts, viz: Fort Frances, Geraldton, Kenora, Port Arthur and Sioux Lookout.

The Fish and Wildlife enforcement officers assigned to each District are under the immediate jurisdiction of the District Forester in charge. There is attached to the office of each District Forester a Fish and Wildlife Specialist, whose principal responsibility is to advise enforcement officers in the field and to co-operate in the supervision of the services of these enforcement officers.

Border patrols were maintained during the summer months at various ports of entry from the United States into Ontario, including Fort Frances, Pigeon River, Sault Ste. Marie, Sarnia, Windsor, Fort Erie, Niagara Falls, the Thousand Island Bridge at Ivy Lea, Prescott and Cornwall. The principal service of the officers engaged in these patrols was to advise American visitors on their arrival in Ontario of the requirements of the Special Fishery Regulations and to check the exportation of fish by such non-resident anglers on their departure from the Province.

During the open season for deer in the fall, active road patrols were maintained in several Districts and particularly in those areas in which the hunting of deer was intensive, with a view to contacting hunters returning from their hunting expeditions and checking on the animals which had been taken.

Resulting from the operation of these patrols, much valuable information accrued to this Division, and there is every reason to believe that the activities of the officers who undertook these patrols were responsible for a more rigid compliance with the provisions of our legislation and regulations by those participating in the recreation derived from angling and hunting.

In their work of enforcement, officers of the Department in their respective patrol areas, derived an appreciable degree of assistance from the co-operation of those who held appointments as Deputy Game Wardens. These Deputy Game Warden appointments are of an honorary nature and are provided, on application, to sportsmen and conservationists who are interested in the protection of our fish and wildlife resources. During the year under review, such appointments were provided to more than thirteen hundred applicants. A large percentage of these appointments were made on the recommendation of the respective municipal councils of the various townships established as regulated game preserve areas. While these appointments were province-wide in their scope, it is quite probable that those so appointed in regulated townships confined their assistance to services within the township, along the lines of securing compliance by hunters with provisions of the regulations which governed.

A study of the records reveals the seizure of equipment, as well as fish and game taken illegally, in 2,166 cases.

Particulars of the officers responsible for these seizures are as follows, viz:—

Overseers .....	2,030 cases
Deputy Game Wardens.....	46 cases
Provincial police constables.....	21 cases
Municipal police constables.....	3 cases
Joint Action:	
Overseers and D. G. W. ....	43
Overseers and O. P. P. ....	14
Overseers and Municipal Police.....	9
	66 cases
	<hr/> 2,166 cases

The articles seized as a result of these activities included:—

Live animals and birds in .....	4 cases
Game animals (and portions) and birds in.....	202 cases
Fire arms in .....	976 cases
Fish in .....	305 cases
Nets and fishing gear in.....	150 cases
Angling equipment in.....	321 cases
Spears in.....	65 cases
Pelts and hides in.....	319 cases
Traps and snares in.....	195 cases
Water craft in.....	26 cases
Outboard motors in.....	10 cases
Motor vehicles in.....	4 cases
Lights (artificial) in.....	52 cases
Miscellaneous articles in.....	73 cases

Further details regarding these seizures are set forth in the following tables:—

Game animals (and portions) and birds:—

Deer and venison and moose and moose meat in..	137 cases
Black and Grey Squirrels.....	4
Pheasants .....	11
Quail.....	1
Partridge.....	30
Ducks.....	14
Rabbits.....	53

Fire Arms:—	
.22 calibre rifles.....	497
.25 calibre rifles.....	4
.25/.20 calibre rifles.....	6
.22/.410 combination rifle and shotgun.....	2
High-power and heavy calibre rifles, including the following calibres:— .250/.3000; .25/.35; .30; .30/.30; .303; .30/.40; .32; .32/.40; .348; .35; .351; .38/.40; .38/.55; .405; .44/.40; .45; .45/.90; .57; 6.5 M.M.; and 8 M.M.....	157
Shot guns, including single barrel, double barrel, repeating and automatic.....	331
Revolvers.....	2
Air-guns.....	18
Fish:—	
Commercial operations.....	21
Illegal netting.....	26
Spearing.....	26
Angling.....	232
Nets and Fishing Gear:—	
Gill nets seized in.....	114 cases
Hoop nets seized in.....	9 cases
Seine nets seized in.....	8 cases
Dip nets seized in.....	14 cases
Hook lines seized in.....	10 cases
Pelts and Hides:—	
Beaver.....	749
Fisher.....	1
Fox.....	68
Lynx.....	3
Marten.....	1
Mink.....	45
Muskrat.....	472
Otter.....	18
Raccoon.....	42
Skunk.....	1
Squirrel.....	3
Weasel.....	30
Deer and moose hides.....	68
Traps and Snares:—	
A total of 1,939 traps and snares were seized, a large proportion of which, on account of the minor or technical nature of the infractions involved, were redeemed for nominal fees by the persons from whom they had been originally seized.	
Artificial Lights:—	
Flashlights.....	36
Gasoline lanterns.....	6
Coal oil lanterns.....	2
Carbide lamps.....	5
Spotlights.....	6
Jack-lights.....	2

## Miscellaneous articles:—

Among the miscellaneous articles which were seized are included the following:—

Decoys.....	48
Tarpaulins and tents.....	4
Pack-sacks.....	14
Haversacks.....	7
Suit-cases.....	4
Trunks.....	1
Axes.....	9
Knives.....	5
Shovels.....	3
Forks.....	1
Metal fish containers.....	6
Storage batteries.....	3
Fish shanties.....	2

As in the case of traps and snares, due to the minor and technical nature of the offences which were responsible for the actual seizures, in a large percentage of the cases involving fire-arms and angling equipment, many of these articles were redeemed for nominal fees by those from whom the seizures were made.

## PROSECUTIONS

The statistics in the subjoined tables, and the explanatory remarks which follow may prove of considerable interest to those concerned.

## INFORMATIONS

	Seizures	Investigations	Total
Overseers.....	1,789	279	2,068
Provincial Police.....	26	..	26
Joint Action.....	29	6	35
Total.....	1,844	285	2,129

## RESULTS OF PROSECUTIONS

	Convictions	Dismissed	Withdrawn	Total
Overseers.....	1,979	85	4	2,068
Provincial Police.....	26	..	..	26
Joint Action.....	35	..	..	35
Total.....	2,040	85	4	2,129

Resulting from patrols and investigation, charges were laid against violators in a total of 2,129 cases in which infractions of provisions of the Game and Fisheries Act and Regulations, the Special Fishery Regulations for Ontario and the Migratory Birds Convention Act and Regulations which had been witnessed or disclosed upon investigation.

In 2,040 of these court actions, convictions were registered by the various Magistrates before whom the respective charges were heard; in 85 cases the charges were dismissed for lack of sufficient substantiating evidence; and in the 4 remaining cases the charges were, for various reasons, withdrawn by the officers who had been responsible for laying the same.



A review of these 2,129 cases which were prosecuted reveals the following information which may presumably be of further interest:

Fish and Wildlife Overseers laid the charges in 2,068 instances; convictions were registered in 1,979 of these, 1,718 of which were subsequent to seizure of equipment on observance of infractions, and 261 following investigation of information which disclosed infractions. The charges laid by Overseers in 85 cases, 67 following seizures and 18 following investigation, were dismissed; and in the remaining 4 cases, all following seizures, the charges were withdrawn.

Provincial Police Constables were responsible for the laying of charges in 26 cases, in all of which this action followed seizures, and in all these cases convictions were registered.

Joint action by Overseers, Deputy Game Wardens, Provincial Police Constables and/or Municipal Police Constables was subsequently followed by the laying of information in 35 cases, all of which were successfully prosecuted and convictions recorded. The charges in 29 of these cases were as a result of, and subsequent to, seizures and the observance of violations, while in the remaining 6 cases the informations were laid following the investigation of evidence of infractions.

## WILDLIFE MANAGEMENT

### *General*

The over-all picture with respect to wildlife management in Ontario during the first warless year is not entirely satisfactory. Wartime prosperity had resulted in a steady increase of hunting pressure, despite the absence of a large proportion of able-bodied men in military service, the severe shortage of sporting goods, especially ammunition, and the drastic gasoline rationing. The present year finds all restrictions removed, our fighting men all home and absorbed into civilian occupations, and a general high level of wages and almost complete employment. Similar conditions prevail in the United States. The result is an intensity of hunting pressure, both from residents and non-residents, such as our Province has never before known.

Coupled with increased hunting, there are a number of factors at work that are inimical to wildlife. In farm lands, game has always been dependent on patches of weeds and brush for food and cover, especially such species as European Hare, Pheasant and Hungarian Partridge that do not frequent woodlots. These patches have always been a blight on the landscape from the point of view of clean farming, but, fortunately for the game, really energetic farmers have not been too numerous. We now live in the age of chemical weed and brush killers, and what was once wished for in the way of clean farming, now becomes possible. We also have rural engineers keeping open roads that were formerly allowed to drift in winter, and each patch of weeds and brush on the roadside is a potential snowdrift. Obviously, wildlife management can never exist at cross-purposes with scientific agriculture. If the old food and shelter patches should go, then go they must, but it becomes our task to develop techniques for providing food and shelter that will not be objectionable.

Of a similar nature are local increases of pasture land, conversion of waste land into tobacco farms, and penetration of the vital deer winter range by farming which may superficially leave the country practically unaltered, because miles of barren hills still exist, while actually clearing the swamps which were the sole support in winter of deer ranging the whole area in hunting season. They are offset by some gains, chiefly in the matter of reforestation, and in the management of woodlots but wildlife management still remains largely a matter of executive orders rather than an established part of our land use, though we know that wildlife is a product of the land, not of regulations.

Many of our important wildlife species are at the crossroads today, with a natural tendency to slide into an easy downgrade leading to oblivion—part of the famous road paved with good intentions. The condition of our waterfowl is alarming. The propagation of exotic species can easily be merely a sink hole for public and private funds unless there is food and cover for the birds in the area in which they are released, and unless they are protected at release from the shock of changing their environment. Our moose have shown a distinct tendency to go downhill. Our caribou have nearly vanished. Now they are hanging on and could reasonably be headed upward if we give them a little help. Beaver are abundant, and will stay that way if we give them help. Other fine fur bearers are scarce, but where trappers can get a good revenue from beaver the other species can spread out from the game preserves without being persecuted to extinction.

### *Migratory Birds*

The regulations respecting migratory birds are established by federal authority under the Migratory Birds Convention Act. There is no doubt that the situation of our ducks and geese is more alarming than it has been since 1936. They have shown a sharp decline for the second year in succession, and the report of the mid-winter inventory organized by the United States Fish and Wildlife Service shows a critical condition. Checks of hunters' bags of ducks are reported to have shown a shortage of young birds, and this is reflected also in reports of goose hunters visiting James Bay. For the first time the mid-winter duck count was extended to the entire winter range of ducks and our officers participated by counting ducks on Ontario open waters during the census period.

Woodcock seem to be holding their numbers. A series of counts to check the abundance of this species on Ontario nesting grounds was commenced.

### *Upland Game (Native)*

The various species of grouse now show a general increase, after having been at the bottom of their natural cycle. In a few areas the increase is well enough advanced that the birds can no longer be called scarce, while in others the increase has still not begun. A fairly general increase in snowshoe rabbits is also reported. Cottontail rabbits remain in normal numbers.

It has been drawn to our attention that our only population of pinnated grouse, on Manitoulin Island, has been spreading recently. This fact was given publicity in the Department's magazine "Sylva" with a view to aiding in protection, so that the colony of these birds on the island could be built up and perhaps used for propagation.

### *Fur-Bearing Animals*

Nearly all fur-bearing animals vary in numbers according to the progress of natural cycles. A few, notably the beaver, remain constant excepting as their numbers are controlled by trapping. The most notable population change is a decrease of mink, which are becoming scarce. Muskrat are also showing signs of decline, although in many of our best areas the population is still high. Weasel and raccoon are reported to be decreasing locally and although skunks are still numerous they have fallen off to some extent. In some of these low-value furs, the volume of trade gives little indication of populations. Fox remains abundant. In a few areas there are stocks of fisher and marten, but both of these species, and the lynx as well, are so scarce that natural cycles fail to develop normally. The wolverine is practically extinct, a fact which may ultimately be regretted, as its fur possesses special properties which are making it valuable. As a predator the species was hardly more destructive than other

fur-bearers and its depredations on trap-lines were probably less serious than those of the wolf. Its near-extermination is evidence against any great difficulty of capture.

### *Trap-line Management*

A careful study is now being made of the possibility of improving the basis of trap-line management in Ontario.

### *Introduced Wildlife*

The ring-necked pheasant was at a low ebb in southern Ontario in the spring of 1946 after a series of adverse seasons. A study of the wild hatch showed large and healthy broods, but the number of broods was extremely small. As the quality of the shoot is determined by the wild stock it was obviously predestined to be poor. Isolated colonies of Hungarian Partridge survive, after unfavourable seasons, over a wide area. They are reasonably numerous in the eastern tip of the Province. European hares are in normal numbers, and have practically stopped spreading.

### *Wildlife Propagation*

Pheasants were raised under contract at the Department's farms at Normandale and Codrington. In addition, deficiencies in our supply of birds were made up by purchase from private breeders.

## DISTRIBUTION OF PHEASANTS IN ONTARIO

For the fiscal year ending March 31, 1947

County	Township	Poult	Hens	Cocks	Total
Essex		1,080	280	128	1,488
Kent		1,000	200	36	1,236
Lambton	Plympton	195			195
	Sarnia	395			395
Elgin	S. Dorchester	195			195
	Bayham	210			210
	Malahide	195			195
	Dunwich	195			195
	Aldborough	195			195
Middlesex	Westminster	210			210
	Metcalfe	195			195
Norfolk	Woodhouse	210			210
	Middleton	200			200
	Townsend	210	38	2	250
	Windham	210			210
Oxford	East Oxford	195			195
	Derham	210			210
Bram.	Burford	195			195
	Dumfries South	195			195
	Onondaga	200			200
Wellington	Puslinch	195			195
Haldimand	Dunn	195		6	201
	Cayuga	210			210
	Canboro	210			210
	Walpole	210			210
	Oneida	195			195
	Rainham	205			205
	Seneca	420			420
	Cayuga South	195			195
	Moulton	195			195
	Sherbrooke	195			195
	Total	8,315	518	172	9,005

DISTRIBUTION OF PHEASANTS IN ONTARIO  
For the fiscal year ending March 31, 1947

County	Township	Poultis	Hens	Cocks	Total
	Carried Forward.....	8,315	518	172	9,005
Welland.....	Wainfleet.....	210	.....	.....	210
	Humberstone.....	195	.....	.....	195
	Crowland.....	195	.....	.....	195
	Thorold.....	500	.....	.....	500
	Stamford.....	195	.....	.....	195
	Bertie.....	210	.....	.....	210
	Willoughby.....	195	.....	.....	195
Lincoln.....	Grimsby South.....	195	.....	.....	195
	Clinton.....	250	.....	.....	250
	Caistor.....	195	.....	.....	195
	Gainsborough.....	195	.....	.....	195
	Grantham.....	250	.....	.....	250
	Louth.....	200	.....	.....	200
	Niagara.....	445	.....	.....	445
Lincoln & Niagara.....	From Niagara District				
	Pheasant Breeders Ass'n.....	1,200	.....	.....	1,200
Halton.....	Trafalgar.....	400	.....	.....	400
	Nelson.....	200	128	20	348
	Esquesing.....	400	.....	.....	400
	Nassagaways.....	200	.....	.....	200
Wentworth.....	Ancaster.....	200	.....	.....	200
	Barton.....	200	.....	.....	200
	Saltfleet.....	445	.....	.....	445
	Flamboro West.....	200	.....	.....	200
	Flamboro East.....	200	.....	.....	200
	Beverly.....	200	.....	.....	200
	Binbrook.....	195	.....	.....	195
	Glanford.....	195	.....	.....	195
Peel.....	Toronto.....	200	132	20	352
	Chinguacousy.....	400	.....	.....	400
	Albion.....	200	.....	.....	200
	Caledon.....	200	.....	.....	200
	Toronto Gore.....	200	.....	.....	200
York.....	Scarborough.....	400	.....	.....	400
	Markham.....	400	.....	.....	400
	Whitchurch.....	200	.....	.....	200
	Vaughan.....	400	.....	.....	400
	King.....	400	.....	.....	400
	Gwillimbury North.....	200	.....	.....	200
	Gwillimbury East.....	90	.....	.....	90
Ontario.....	Pickering.....	400	161	11	572
	East Whitby.....	400	.....	.....	400
	West Whitby.....	200	.....	.....	200
Prince Edward.....	South Marysburg.....	600	.....	.....	600
Durham.....	Hope.....	.....	30	16	46
	Cavan.....	30	.....	.....	30
Northumberland.....	Brighton.....	.....	30	16	46
	Presqu'He Point.....	40	.....	.....	40
	South Monaghan.....	15	.....	.....	15
	Trenton.....	45	.....	.....	45
Frontenac.....	Wolfe Island.....	.....	24	12	36
Peterborough.....	Douere.....	25	.....	.....	25
	Total.....	21,025	1,023	267	22,315

A complete review of the history of the Ring-necked Pheasant in Ontario made during the year revealed that, in areas where the snowfall totalled over 50 inches, pheasants were never established in shootable numbers unless there was some local condition related to agricultural practice which provides compensating food and shelter in winter. Where the snowfall is greater than 70 inches it is not worth while trying pheasants at all.

*Open Seasons*

In addition to the open seasons established by statute, the following open seasons were established by Order-in-Council under appropriate sections of the Game and Fisheries Act, 1946.

*Ruffed Grouse, Spruce Grouse, Sharp-tailed Grouse and Ptarmigan*—An open season was established from October 5th to October 14th, 1946, both dates inclusive, in all parts of Ontario excepting the counties of Essex, Kent, Lambton, Middlesex, Elgin, Perth, Oxford, Norfolk, Waterloo, Brant, Haldimand, Wentworth, Lincoln, Welland, Peel, Halton and York, and the townships of Pickering, Whitby and Whitby East in Ontario County. The bag limit was set at five birds per day and twenty for the whole season.

*Pheasants*—The open season for pheasants permitted ring-necked pheasants to be hunted or killed with guns other than guns using ammunition containing only one bullet between the hours of 8 a.m. and 5 p.m.,—

- (a) On October 23rd, 26th and 28th, 1946, in the townships of,—Caistor, Clinton, Gainsboro, Grantham, Grimsby North, Grimsby South, Louth and Niagara in the County of Lincoln; Bertie, Crowland, Humberstone, Pelham, Stamford, Thorold, Wainfleet and Willoughby in the County of Welland; and Ancaster, Barton, Beverley, Binbrook, Flamboro East, Flamboro West, Glanford and Saltfleet in the County of Wentworth;
- (b) On October 25th and 26th, 1946, in the townships of,—Marysburgh South in the County of Prince Edward; Pickering, Whitby and Whitby East in the County of Ontario; Gwillimbury North, King, Markham, Scarborough, Vaughan and Whitchurch in the County of York; Albion, Caledon, Chinguacousy, and in that portion of the Township of Toronto lying North of the Queen Elizabeth Highway, in the County of Peel; Esquesing, Nassagaweya, Nelson and Trafalgar in the County of Halton; Puslinch in the County of Wellington; Burford, Dumfries South and Onandaga in the County of Brant; Dereham and Oxford East in the County of Oxford; Aldborough, Bayham, Dorchester South, Dunwich and Malahide in the County of Elgin; and Westminster in the County of Middlesex (part);
- (c) On October 24th in Lambton county, except the Township of Plympton;
- (d) On October 31st and November 1st in Pelee Island, Essex County.

The bag limit was set at three cock pheasants per day except in Pelee Island where it was set at four cock pheasants per day.

*Black and Gray Squirrels*—An open season was established on November 15th and 16th, 1946, with a bag limit of five squirrels per day.

*Deer*—In addition to the deer season provided by statute open seasons were established whereby deer were hunted, killed or destroyed,—

- (a) On November 11th to November 26th, 1946, in Carleton County west of the Rideau River;
- (b) On November 18th to 23rd, both inclusive, in the Counties of Bruce and Grey; and in the Townships of Williamsburgh and Mountain, in the County of Dundas;
- (c) On November 27th to 30th, both inclusive, in the year 1946 in the Townships of Howard and Orford in the County of Kent; Blandford, Blenheim and Nissouri East, in the County of Oxford; Erin and Minto in the County of Wellington; and Esquesing and Nassagaweya in the County of Halton; Puslinch in the County of Wellington.

Rifles were permitted in Bruce and Grey Counties, and in the Township of Mountain in the County of Dundas. In all the other areas listed only shotguns with S.S.G. or buckshot loads, and bow and arrow, were permitted.

A special licence was used in isolated townships.

*Beaver*—An open season for beaver was established from December 1st to December 21st, both inclusive, in all of Ontario north and west of the French and Mattawa Rivers excepting the district of Rainy River and that portion of Kenora District south of the main line of the C.N.R. and west of the C.N.R. line running from Fort William to Superior Junction. South of the French and Mattawa Rivers, the same season was established in the districts of Parry Sound and Nipissing, the county of Lanark, and the townships of Artemisia, Bentinck, Euphrasia, Glenelg, Holland, Normanby, Proton and Sullivan in the County of Grey.

The bag limit was set at ten beaver per trapper.

*Muskrat*—Provision was made whereby (including extensions) muskrats were hunted, taken or killed, and the carcass, pelt or any part thereof possessed,—

- (a) On March 6th to April 12th, both inclusive, in the year 1947 in the Counties of Brant, Elgin, Essex, Haldimand, Kent, Lincoln, Norfolk, Oxford, Welland and Wentworth; and those parts of the Counties of Halton, Lambton, Middlesex, Peel, Perth, Waterloo and Wellington lying south of Highway No. 7;
- (b) On March 20th to April 26th, both inclusive, in the year 1947 in the Counties of Bruce, Carleton, Dufferin, Dundas, Durham, Glengarry, Grenville, Grey, Huron, Leeds, Northumberland, Ontario, Peterborough, Prescott, Prince Edward, Russell, Simcoe, Stormont, Victoria and York; and those parts of the Counties of Lambton, Halton, Middlesex, Peel, Perth, Waterloo and Wellington lying north of Highway No. 7; and those parts of the counties of Frontenac, Hastings and Lennox and Addington lying south of Highway No. 7; and that part of the County of Lanark lying south of Highway No. 7 and east of Highways No. 15 and No. 29;
- (c) On March 20th to May 5th, both inclusive, in the year 1947, in the County of Renfrew, the Provisional County of Haliburton and the Districts of Muskoka and Parry Sound; and that part of the District of Nipissing lying south of the Township of Widdifield and the Mattawa River; and those parts of the Counties of Frontenac, Hastings and Lennox and Addington lying north of Highway No. 7; and that part of the County of Lanark lying north of Highway No. 7 and west of Highways No. 15 and No. 29;
- (d) On April 1st to May 21st, both inclusive, in the year 1947, in the Districts of Algoma, Rainy River and Sudbury; and that part of the District of Nipissing lying north of the south boundary of the Township of Widdifield and the Mattawa River;
- (e) On April 1st to May 31st, both inclusive, in the year 1947, in the Districts of Cochrane, Kenora, Patricia, Timiskaming and Thunder Bay.

*Migratory Birds*—A summary of the Federal Regulations for 1946 as they applied to Ontario follows:—

Open Seasons (both dates inclusive) Woodcock, October 1 to October 31st.

Ducks (other than Eiders),  
Geese (other than Brant), Rails, Coots, Gallinules.

Northern District (defined below): September 16th to November 29th.

Throughout the remainder of the Province: September 25 to December 9, except that in the Counties of Essex, Kent and Elgin the open season for geese (other than Brant) shall be from November 1 to January 10.

The Northern District of Ontario is defined as that part of the Province lying north and west of a line described as follows: Commencing at the southwest angle of Bruce County; thence in a general easterly direction along the southerly boundaries of Bruce and Grey Counties to the southwest angle of Nottawasaga Township in the County of Simcoe, along the south boundaries of Nottawasaga, Sunnidale and Vespra Townships to the line of mean high water of Lake Simcoe, along the said line of mean high water on the south side of Lake Simcoe to the northwest angle of Brock Township in the County of Ontario, and along the north boundary of Brock Township to the centre of King's Highway No. 12; thence southerly along the centre line of the said Highway to the centre line of the right-of-way of the Canadian Pacific Railway in the vicinity of Myrtle; thence in a general easterly direction along the said centre line to the city of Peterborough, along the centre line of King's Highway No. 7 to the west boundary of Lanark County, along the west and south boundaries of Lanark County to the line of mean high water on the north side of Rideau Lake, and along the line of mean high water on the north side of Rideau Lake and Rideau River to a point opposite the northeast angle of Grenville County; thence southerly along the east boundary of Grenville County to the northwest angle of Dundas County; thence easterly along the northerly boundaries of Dundas, Stormont and Glengarry Counties to the interprovincial boundary.

*Eider Ducks*—North of the Quebec-Cochrane-Winnipeg line of the C.N.R.: September 16 to November 15. Close Seasons—There is a close season throughout the year on Brant, Swans, Cranes, Wilson's Snipe, all other shore birds except Woodcock, and all migratory non-game and insectivorous birds.

The possession of migratory game birds killed during the open season is allowed in Ontario until March 31 following the open season.

Bag Limits—In any day: Ducks (exclusive of Mergansers), 12, of which not more than 1 may be a Wood Duck; Geese (other than Brant), 5; Rails, Coots and Gallinules, 25; Woodcock, 8. In any open season: Ducks (exclusive of Mergansers) 150; Geese (other than Brant), 25; Woodcock, 100.

#### *Guns, Appliances and Hunting Methods*

*Forbidden*—The use of any automatic (auto-loading) gun with a magazine that has not been permanently plugged or altered so that it cannot carry more than two cartridges, or rifle, or swivel or machine gun, or battery, or any gun larger than number 10 gauge, or any weapon other than a gun or a bow and arrow; and the use of live birds as decoys, or of any aeroplane, power-boat, sail-boat, or night-light, and shooting from any motor or wheeled vehicle or a vehicle to which a draught animal is attached. The hunting of migratory game birds by the use or aid of baiting with grain or other artificial food is prohibited.

Persons using blinds or decoys for hunting migratory game birds are urged to consult the Regulations for details of the restrictions upon this method of hunting.

For special restrictions about hunting on waters of Rondeau Bay, see Regulations.

The shooting of migratory game birds earlier than one-half hour before sunrise or later than one-half hour after sunset is prohibited.

The penalty for violation of the migratory bird laws is a fine of not more than three hundred dollars and not less than ten dollars, or imprisonment for a term not exceeding six months, or both fine and imprisonment.

#### *Wildlife Surveys—*

A study of various census methods with respect to the ring-necked pheasant, carried out by the Research Division in southern Ontario. This was extended by the Fish and Wildlife Division to include a study of the history of the pheasant in Ontario in relation to various factors affecting its survival, done by Head Office staff, and a field check of the birds through the pre-hunting season, done by one of the officers who had taken part in pheasant distribution during the summer. The results have already been mentioned. A study of cormorant colonies on Georgian Bay was also carried out. A special pre-season and hunting season check of pheasant numbers was also made on Pelee Island in order to arrive at a formula for estimating the pheasant population there.

#### *Wildlife Harvest—*

As a means of checking the success attending hunting in Ontario, a card for recording hunting effort and bag, known as the "Game Bag Census Card" was printed and distributed to hunters.

In addition to these cards we had checks of deer hunters on the highway and various reports of game shipped and exported.

During the hunting season of 1946 the Canadian Pacific Express Company reported handling over its lines in Ontario 689 deer, 41 moose and 41 bear.

Through the ports of Rainy River, Fort Frances and Rainier the following were exported: moose, 200; deer, 3002; caribou, 2; bear, 141; geese, 8; ducks, 2,493. Some of this game was taken outside Ontario, e.g. the caribou.

A check by overseers at the port of Windsor on November 16 (squirrel season) and November 23 showed the following exports of game:

	November 16	November 23
Total cars.....	198	199
Total hunters.....	533	569
European hares.....	575	588
Cottontail rabbits.....	616	576
Squirrels.....	494	...
Deer.....	11	6
Ducks.....	119	143
Bears.....	1	...
Raccoons.....	13	...

At the port of Windsor, the Essex County Sportsmen's Association also checked on four Saturdays in the fall for five hours each, and counted 3,002 hunters and 7,171 rabbits.



It is generally felt that the border area is over-hunted because of its proximity to population centres in the United States and, for that reason, there is strong local objection to non-resident hunters. This is directed impartially against the entire non-resident group.

The Gravenhurst road check showed the following for the period November 7th to November 21st. It is compared with a check from November 6th to November 19th, 1941.

	1946	1941
Hunters.....	7,389	4,264
Moose.....	2	5
Deer.....	3,280	3,001
Bear.....	62	48
Wolves.....	3	1

At Pelee Island, a complete count was made of the pheasants killed during the open season, and by means of certain additional counts, the following figures were ascertained concerning pheasants on Pelee Island:

Number of hens before open season.....	5,160
Number of cocks before open season.....	5,263
Number of cocks killed.....	4,615
Number of hens (illegally) killed.....	300
Number of hens after the open season.....	4,860
Number of cocks after the open season.....	648

All of these figures except the actual kill should be rounded off, but it may be taken that there were at least 10,000 birds on the island before the shoot, and at least 4,000 hens and 600 cocks left after the shoot.

The Game Bag Census Cards indicated that, by those reporting in 1946, there were 0.7 deer killed per hunter, and the number of deer killed per hunter-day was 0.09. The area covered was much larger than that funnelled through the road block and included portions where deer were very abundant.

Only 8% of the hunters reporting were hunting ducks, and some of these may have hunted only incidentally. Only 5% as much time was spent on duck-hunting as on deer hunting, by hunters reporting.

#### *Wildlife Library*

A start was made on the assembling of a library on wildlife management. Contributions and exchanges will be welcomed.

#### *Wildlife Research*

Close co-operation was maintained with wildlife research parties from the Research Division.

#### *Technical Personnel*

At present there is a serious lack in Ontario of men trained in wildlife management. A few service men have shown an interest in the subject and are taking up studies at universities which will give them basic knowledge, but they will not be available for employment for several years, during which time essential work is certain to be delayed.

REVENUE RECEIVED FROM EXPORT PERMITS  
April 1, 1946 to March 31, 1947

Species	Total Amount of Pelts	Total Amount of Revenue
Bear.....	90	\$ 45.00
Beaver.....	45,847	91,694.00
Fisher.....	1,667	2,620.50
Fox (Cross).....	2,771	4,156.50
Fox (Red).....	24,429	12,214.50
Fox (Silver or Black).....	496	848.50
Fox (White).....	148	222.00
Fox (Not specified).....	.....	.....
Lynx.....	766	1,149.00
Marten.....	1,919	1,919.00
Mink.....	36,541	18,270.50
Muskrat.....	441,478	44,147.80
Otter.....	5,158	5,158.00
Raccoon.....	15,922	1,592.20
Skunk.....	36,644	1,832.20
Weasel.....	53,778	2,688.90
Wolverine.....	4	1.80
Total Revenue.....	.....	\$188,560.40

REVENUE RECEIVED FROM TANNERS PERMITS  
April 1, 1946 to March 31, 1947

Species	Total Amount of Pelts	Total Amount of Revenue
Bear.....	280	\$ 140.00
Beaver.....	61	122.00
Fisher.....	50	80.50
Fox (Cross).....	99	148.50
Fox (Red).....	3,669	1,834.50
Fox (Silver or Black).....	62	116.50
Fox (White).....	.....	.....
Fox (Not specified).....	.....	.....
Lynx.....	11	16.50
Marten.....	19	19.00
Mink.....	1,120	560.00
Muskrat.....	198,391	19,807.15
Otter.....	24	24.00
Raccoon.....	2,453	245.30
Skunk.....	1,393	69.65
Weasel.....	914	45.70
Wolverine.....	.....	.....
Total Revenue.....	.....	\$23,229.30

## SUMMARY

Species	Pelts Exported	Pelts Tanned	Total Pelts
Bear	90	280	370
Beaver	45,847	61	45,908
Fisher	1,667	50	1,717
Fox (Cross)	2,771	99	2,870
Fox (Red)	24,429	3,669	28,098
Fox (Silver or Black)	496	62	558
Fox (White)	148	.....	148
Fox (Not specified)	.....	.....	.....
Lynx	766	11	777
Marten	1,919	19	1,938
Mink	36,541	1,120	37,661
Muskrat	441,478	198,391	639,869
Otter	5,158	24	5,182
Raccoon	15,922	2,453	18,375
Skunk	36,644	1,393	38,037
Weasel	53,778	914	54,692
Wolverine	4	.....	4

Revenue received from Export Permits	\$188,560.40
Revenue received from Tanners Permits	23,229.30
Total Revenue	\$211,789.70

## TOTAL VALUE OF PELTS EXPORTED OR TANNED

During the year ending March 31, 1947

Species	Pelts Exported	Pelts Tanned	Total Pelts	Value of Pelts
Bear	90	280	370	\$ 814.00
Beaver	45,847	61	45,908	1,273,947.00
Fisher	1,667	50	1,717	59,803.11
Fox (Cross)	2,771	99	2,870	22,242.50
Fox (Red)	24,429	3,669	28,098	84,294.00
Fox (Silver or Black)	496	62	558	9,452.52
Fox (White)	148	.....	148	2,396.12
Fox (Not specified)	.....	.....	.....	.....
Lynx	766	11	777	17,904.00
Marten	1,919	19	1,938	45,988.74
Mink	36,541	1,120	37,661	915,538.91
Muskrat	441,478	198,391	639,869	2,271,534.95
Otter	5,158	24	5,182	125,663.50
Raccoon	15,922	2,453	18,375	39,690.00
Skunk	36,644	1,393	38,037	30,429.60
Weasel	53,778	914	54,692	67,271.16
Wolverine	4	.....	4	49.32
Total	667,658	208,546	876,204	\$4,966,209.43

## STATEMENT OF RANCH RAISED PELTS EXPORTED OR TANNED

For the year ending March 31, 1947

Species	Exported	Tanned	Total Pelts	Value of Pelts
Fox (Cross)	56	8	64	\$ 496.00
Fox (Silver or Black)	23,058	3,294	26,352	446,402.88
Fox (Blue)	1,244	.....	1,244	22,640.80
Mink	70,982	2,788	73,770	1,793,348.70
Total	95,340	6,090	101,430	\$2,262,888.38

### *Fur Farming*

The decided slump in the raw fur market during 1946 was responsible for mink ranchers receiving up to 25% less for their furs than they received last year. The demand for long hair furs, principally fox, declined to such an extent that auction houses reported only 10 to 20% clearances and in some cases, the prices offered were so low that the entire offering of fox was withdrawn. Many fox ranchers realized prices equal only to production costs.

This condition, together with the rising costs of feed, building materials and labour has harassed the fur farmer, and caution in the purchase of breeding stock and production is the keynote for the coming year.

During the calendar year 1946, 1,502 Fur Farmers' licences were issued, 1,187 being renewals of previous licences and 315 for newly established fur farms.

Mink and fox continued to be the principal species propagated on ranches and Departmental records show that during the fiscal year 1946-47 fur farmers disposed of their production of these species in the following manner:—

Species	Tanned	Exported	Total
Mink.....	2,788	70,982	73,770
Silver Fox.....	3,294	23,058	26,352

The following table shows the location by County and Districts of licensed fur farms in Ontario:—

County or District	Number	County or District	Number
Algoma.....	21	Middlesex.....	51
Brant.....	9	Nipissing.....	8
Bruce.....	58	Norfolk.....	12
Carleton.....	30	Northumberland.....	7
Cochrane.....	14	Ontario.....	40
Dufferin.....	7	Oxford.....	26
Dundas.....	..	Parry Sound.....	19
Durham.....	8	Peel.....	33
Elgin.....	18	Perth.....	52
Essex.....	16	Peterboro.....	9
Frontenac.....	20	Prescott.....	11
Glengarry.....	5	Prince Edward.....	6
Grenville.....	6	Rainy River.....	28
Grey.....	85	Renfrew.....	52
Haldimand.....	16	Russell.....	2
Haliburton.....	1	Simcoe.....	89
Halton.....	24	Stormont.....	3
Hastings.....	9	Sudbury.....	12
Huron.....	56	Timiskaming.....	12
Kenora.....	26	Thunder Bay.....	102
Kent.....	22	Victoria.....	15
Lambton.....	20	Waterloo.....	40
Lanark.....	79	Welland.....	10
Leeds.....	13	Wellington.....	35
Lennox and Addington.....	1	Wentworth.....	56
Lincoln.....	15	York.....	164
Manitoulin.....	18		
Muskoka.....	11	Total.....	1,502

### *Wolf Bounty*

At the 1946 session of the Ontario Legislature, The Wolf Bounty Act and The Wolf Bounty Amendment Act, 1941, were repealed, and The Wolf and Bear Bounty Act, 1946 was enacted.

This Act authorized the payment of \$25.00 as bounty on a timber or brush wolf three months of age or over and \$5.00 as bounty on a timber or brush wolf under the age of three months.

It will be noted from the following comparative table that more wolves were taken during this last fiscal year than in any year shown, and it is interesting to note the marked increase in the number of brush wolves taken. The total number of wolves taken is unusually large and may indicate that the natural peak in population has been reached, and will probably recede during the next few years.

Period	Timber	Brush	Pups	Total	Bounty and Expenses
For year ending March 31, 1943 .....	935	497	32	1,464	\$33,606.62
For year ending March 31, 1944 .....	1,302	731	32	2,065	46,545.75
For year ending March 31, 1945 .....	1,321	665	12	1,998	45,993.58
For year ending March 31, 1946 .....	1,266	777	30	2,073	44,999.87
For year ending March 31, 1947 .....	1,440	1,182	42	2,664	59,275.18

The following is a summary of the number of wolves taken in each of the Counties and Districts, on which bounty was claimed during the fiscal year ending March 31, 1947:—

## COUNTIES

County	Timber	Brush	Pups
Brant .....	..	..	..
Bruce .....	4	31	..
Carleton .....	2	12	..
Durham .....	..	6	..
Elgin .....	1	8	..
Essex .....	..	4	..
Frontenac .....	5	13	..
Grenville .....	1	9	..
Grey .....	..	1	..
Haldimand .....	..	1	..
Hastings .....	8	55	..
Huron .....	1	2	..
Kent .....	..	4	13
Lambton .....	..	1	..
Lanark .....	7	43	..
Leeds .....	..	10	..
Lennox and Addington .....	1	7	..
Middlesex .....	1	1	..
Norfolk .....	..	5	..
Northumberland .....	..	4	..
Ontario .....	2	28	..
Perth .....	..	1	..
Peterborough .....	4	12	..
Renfrew .....	32	29	..
Simcoe .....	..	28	8
Victoria .....	1	35	..
Welland .....	..	1	5
Wellington .....	..	..	..
York .....	..	15	..
Total .....	70	366	26

## DISTRICTS

District	Timber	Brush	Pups
Algoma.....	55	99	..
Cochrane.....	26	4	..
Haliburton.....	14	2	..
Kenora.....	114	129	..
Manitoulin.....	27	141	..
Muskoka.....	5	26	..
Nipissing.....	108	27	..
Parry Sound.....	51	54	..
Patricia.....	104	11	..
Rainy River.....	207	100	7
Sudbury.....	96	93	..
Timiskaming.....	24	11	..
Thunder Bay.....	239	119	9
Total.....	1,370	816	16

A total of 1,812 applications for bounty on 2,622 wolves and 42 pups were submitted. However, bounty was allowed on 2,609 wolves and 38 pups with 13 applications concerning 13 wolves and 4 pups being refused for various reasons.

*Bear Bounty*

The Order-in-Council dated August 19th, 1942, which authorized the payment of Bear Bounty was superceded by the enactment of The Wolf and Bear Bounty Act, 1946.

The conditions on which bounty is paid under this Act however, are essentially the same. A \$10.00 bounty is paid on any bear 12 months of age or over and \$5.00 on any bear under 12 months of age, which has been killed between April 15th and November 30th in Townships located in certain Counties and Districts and of which 25% of the total area is devoted to agriculture. The Act further specifies that the bear must be killed in defence or preservation of live stock or property, by a bona fide resident of the Township.

The following table indicates the number of bears and cubs killed in each of the Counties and Districts on which applications for bounty have been received during the fiscal year ending March 31, 1947. Some 816 applications on 959 bears and 73 cubs were submitted. Of these, bounty was paid on 937 bears and 73 cubs and 13 claims concerning 22 bear were refused.

County or District	Bear (12 months or over)	Cubs (under 12 months)
Algoma.....	40	1
Brant.....	..	..
Bruce.....	12	..
Carleton.....	..	..
Cochrane.....	101	7
Dufferin.....	..	..
Dundas.....	..	..
Durham.....	..	..
Elgin.....	..	..
Essex.....	..	..
Frontenac.....	7	1
Glengarry.....	..	..
Grenville.....	..	..
Grey.....	..	..
Haldimand.....	..	..
Haliburton.....	30	6
Halton.....	..	..
Hastings.....	51	7
Huron.....	..	..
Kenora.....	34	..
Kent.....	..	..
Lambton.....	..	..
Lanark.....	..	..
Leeds.....	..	..
Lennox and Addington.....	12	1
Lincoln.....	..	..
Manitoulin.....	5	..
Middlesex.....	..	..
Muskoka.....	13	..
Nipissing.....	48	..
Northumberland.....	..	..
Ontario.....	..	..
Oxford.....	..	..
Norfolk.....	..	..
Parry Sound.....	81	2
Patricia.....	..	..
Peel.....	..	..
Perth.....	..	..
Peterboro.....	5	..
Prescott.....	..	..
Prince Edward.....	..	..
Rainy River.....	101	12
Renfrew.....	47	4
Russell.....	..	..
Simcoe.....	..	..
Stormont.....	..	..
Sudbury.....	84	..
Timiskaming.....	165	17
Thunder Bay.....	121	14
Victoria.....	2	..
Waterloo.....	..	..
Welland.....	..	..
Wellington.....	..	..
Wentworth.....	..	..
York.....	..	..
Total.....	959	73

## GAME FISH

During the fiscal year ending March 31, 1947, twenty-seven Hatcheries and Rearing Stations were operated successfully. No new plants or additions were established during the course of the year.

For the culture of game fish, the development of rearing stations or a combination of hatcheries and rearing stations instead of a hatchery only, is in keeping with the progressive developments in this field. A hatchery may be defined as a building in which is housed all the necessary equipment for hatching and rearing of fish to the fry or advanced fingerling stages. A rearing station is an extension of this arrangement, that is, large tanks, raceways or ponds being provided for accommodating fish from the fingerling to yearling or adult stages.

Of the twenty-seven stations, eleven are provided with hatcheries only, three with a combination of hatcheries and ponds, eight with a combination of hatcheries, raceways and ponds. Speckled trout are cultured at fourteen stations, rainbow trout at two, brown trout at six, Kamloops trout at one, lake trout at ten, largemouth bass at one, smallmouth bass at seven, maskinonge at one, perch at one, yellow pickerel at eleven, whitefish at nine, herring at two and minnows at one.

There are facilities at three rearing stations for retaining a selective stock of adult speckled trout for breeding purposes. These are maintained at Dorion, Sault Ste. Marie and Hills Lake Hatcheries. A breeding stock of brown, rainbow and Kamloops trout are provided for at one other station, namely, Normandale.

Practically all the speckled trout, brown trout and Kamloops trout distributed to suitable and publicly fished waters are yearlings or older fish. Black bass, maskinonge, rainbow trout and lake trout are, generally speaking, distributed in the fry or fingerling stages. The raising of lake trout to the yearling stage has been developed successfully at certain stations and when additional pond space is available, expansion of the culture of lake trout in this direction may be undertaken. Whitefish, herring, perch, yellow pickerel and blue pickerel are all distributed in the fry stage.

## THE CULTURE AND DISTRIBUTION OF FISH

Fish culture may be defined as any procedure for increasing the stock of fish. One of the procedures used extensively in Ontario is the planting of hatchery raised fish. In the majority of cases, this procedure is a supplement and not a substitute for nature's means of replenishment.

A detailed account of the fish distribution from our twenty-seven stations by county or district, species, age class and numbers planted is given in appendices one to five inclusive. In the following paragraphs, comparison of the year's distribution with that of the previous year, and other pertinent data are given. The total output of all species for the year was practically the same as in 1945.

### *Speckled Trout*

As in previous years, the objective was the distribution of 3,000,000 speckled trout yearlings, but the figures were somewhat lower, namely, 2,760,780. Due to congestion at two or three of our stations it was necessary to plant about 85,000 fingerlings. As our stock of breeders was quite good, we were able to



make a distribution of double that of the previous year. The plantings of this species by age group is as follows:

50,000 fry
84,730 fingerlings
2,760,780 yearlings
8,656 adults

### *Brown Trout*

The plantings of brown trout yearlings were good, with a total of 268,940 being distributed. This was an increase of 20% over the previous year's distribution. In addition, we had a surplus of fingerlings which we could not hold for another year, and these made a distribution of 133,025. Taken together, the figures for this distribution were excellent, considering the number of ponds which we have available for the raising of brown trout.

### *Rainbow Trout*

(a) *Steelhead*. It is only in the larger rivers and lakes that rainbow trout are normally found except in their immature stage. A river such as the Nottawasaga is a good example in which rainbows remain throughout the year. They survive chiefly in the larger lakes such as Lake Simcoe and the Great Lakes. Distribution this year was mainly confined to the larger rivers flowing into the Georgian Bay.

(b) *Kamloops*. This species was introduced to a number of carefully selected lakes in Ontario, and the Kamloops in these lakes are showing excellent results during the last few years. Up to now, the practice has been to distribute this species in the yearling stage, but this year there was a distribution of 4,850 as adults, which was an excellent contribution to the culture of this species in Ontario.

### *Lake Trout*

For the last several years there has been a decline in the production in the spawn collection of this species. Steps are now being taken by the Department to ascertain the fact responsible for the decline, with a view to providing a remedy. The distribution in 1946 shows a sharp drop over that recorded in 1945. As stated above, this is wholly due to the fact that our hatcheries are not getting the spawn in such large numbers as previously. The distribution of 28,045 yearlings was a considerable decline over the previous year as the hatcheries were not able to retain as many fingerlings from the previous year as had been done formerly.

### *Whitefish*

The spawn collection of this species was considerably down from the previous year. This gives the reason for the slight decline in the plantings, as shown in the tables.

### *Herring*

In comparison with the last few years, the distribution of herring was really excellent. There was a total planting of 69,674,000. This large increase was wholly due to a very good run of herring in the spawning season, together with a week of good weather, when our spawn takers can work at their best.

### *Yellow Pickerel*

There was a planting of 142,385,000 fry this year which was a decline of about 20% from the previous year. The drop in the distribution was accounted for solely from the fact that the fish could not be captured in large enough quantities during the spawning season. The chief spawn taking areas where

decrease in spawn occurred were Hay Bay in the Bay of Quinte, Echo Lake in Algoma, Whitefish Falls in the North Channel. All our other spawning grounds were as good or even better than in previous years

#### *Small-mouth Bass*

The number of bass fry planted was approximately 14% less than planted in the previous year. The production of fingerlings was also down, but only 10% from last year.

#### *Large-mouth Bass*

There was an increase of 90% in the output of this species over last year. This was very gratifying as there is only one small pond available for this work at our Mount Pleasant Hatchery. Instead of planting some of these fish as fry we were able to hold over our stock until they were good sized fingerlings.

#### *Perch*

The take of perch spawn in Lake Erie is subject to wide variation. This spawn is collected mainly from the region off Kingsville. This year we had a good spawn collection and we were able to make a 70% increase in our fry distribution. The total fry planted was 20,450,000.

#### *Maskinonge*

The plantings of this species were as follows:

1,150,000 fry
6,875 fingerlings

There was a drop of 43% in the number of fry produced, but this was more than offset by the record production of fingerlings. The fingerling production was an all time record from our Deer Lake Hatchery. There is reason to believe that these figures will be sustained, or even increased, as greater facilities are being given the hatchery.

#### *Atlantic Salmon*

There was a distribution this year of more than double that made in the previous year. All the fish planted were fingerlings of good size. A more detailed report on Atlantic Salmon will be found under the heading "Biological Surveys".

### CLOSED WATERS

In addition to the waters already closed for the natural production and propagation of fish, the following were closed during the period April 1, 1946 to March 31, 1947.

*Adam Lake*, located in unorganized territory, north of Clay Lake and between Fluke Lake and Segise Lake, District of Kenora.

*The Bog*, Newboro Lake, located in township of South Crosby, County of Leeds.

*Deep Bay*, Sparrow Lake, township of Matchedash, County of Simcoe.

*Harvey or Nogies Creek (Part)*, located on lot 10, Con. 2, Township of Galway, and lot 28, Con. 17, township of Harvey, County of Peterboro.

*Long Lake*, located in the township of Lansdowne, County of Leeds.

*Landons Bay*, located on the St. Lawrence River, township of Lansdowne, County of Leeds.

*Maskinonge Creek* flowing from Maskinonge Lake to Little Vermillion Lake; Maskinonge Lake (Part); Little Vermillion Lake (Part) located in the township of Pickerel, District of Kenora.

*Moose Lake* located in unorganized territory west of the Township of Smellie, District of Kenora.

#### BIOLOGICAL SURVEYS

The Game Fish Section expanded their work, especially in respect of biological surveys. Surveys were conducted on a great many lakes and streams to obtain data basic to the fish management plan. This included four lakes in Frontenac County, one in each of Lennox and Addington and Hastings Counties, three in Nipissing District, five in Parry Sound District and several minor waters.

A project was undertaken to assess the value of planting streams in Bruce County with hatchery raised speckled trout. The trout were planted as yearlings in parts of the Sydenham River, Eugenia Hydro Pond and Williams Lake, and were marked by removal of the adipose fin. A careful check on all of the fish taken from these waters is being obtained by means of the creel census. The experiment is being continued.

An experiment begun in 1945, was continued at Round Lake, Renfrew County, to determine the effect of removal of coarse fish in quantity, from a lake. The lake was heavily fished by means of trap and hoop nets, the coarse fish removed and the game fish returned to the lake. This experiment is continuing.

Creel census surveys and assessment of waters was continued in Sibley Provincial Park.

Preliminary investigations were begun to obtain information concerning the life history and possible means of control of the Sea Lamprey. Deterioration of the lake trout fishery of the Great Lakes, particularly in Lake Huron and Georgian Bay, is attributed to the abundance of this fish parasite. This most important work was begun in the waters of Lake Huron adjacent to Bruce County, and is continuing.

An extensive survey of lakes in which Kamloops Trout have been introduced was undertaken. These waters included Lake Bernard and Poole Lake, Parry Sound District, Echo Lake, Rill Lake, Clear Lake, Red Chalk Lake, Lake Wascoosa, Round Lake and Deep Lake, Muskoka District and Lake Timagami, Nipissing District. Assessment of fishing for this excellent game fish was made. With the exception of Lake Timagami, the Kamloops trout appears to have become well established in all of the lakes noted and is providing fair to good fishing.

The Atlantic Salmon experiment, which was begun in 1944 in Duffin's Creek, Ontario County, was continued. The experiment is being conducted for two reasons. First, an effort is being made to establish the Atlantic Salmon in Lake Ontario and its tributary streams, where it was formerly abundant, and second, an effort is being made to secure an appraisal of the efficiency of restocking streams with hatchery raised fish. As this is a long term investigation, it is too early to draw conclusions, though it may be stated that some of the fish that were planted in 1944 have been recaptured, and are showing satisfactory growth. Generally speaking, the results are encouraging.

Coarse fish removal was undertaken and results shown as follows:

Removal of Burbot (Ling) from Bobs Lake in 1947.

Location, Frontenac and Leeds County, township of North Crosby.

	Area.....		12 sq. miles
	Nets.....		Hoop Type
	Number of Nets.....		7
Dec. 30.....	311 fish.....		.6 nets
Jan. 1.....	271 ".....		.6 "
" 3.....	256 ".....		.6 "
" 5.....	260 ".....		.6 "
" 7.....	217 ".....		.6 "
" 9.....	184 ".....		.6 "
" 11.....	183 ".....		.6 "
" 13.....	198 ".....		.6 "
" 15.....	169 ".....		.6 "
" 17.....	143 ".....		.6 "
" 19.....	109 ".....		.6 "
" 22.....	50 ".....		.6 "
" 26.....	24 ".....		.6 "
" 28.....	24 ".....		.6 "
" 30.....	19 ".....		.6 "
" 31.....	33 ".....		.7 "
Jan. 16.....	40 ".....		.1 "
" 18.....	46 ".....		.1 "
" 25.....	10 ".....		.1 "
" 27.....	33 ".....		.1 "
20 days	2,589 fish		Total of 101 lifts

Removal of Burbot (Ling) from Long Lake in 1947.

Location—Frontenac and Leeds County, townships of Olden and Hinchinbrooke.

	Area.....		2 sq. miles
	Nets.....		Hoop Type
	Number of Nets.....		1
Jan. 2.....	38 fish.....		.1 net
" 4.....	26 ".....		.1 "
" 9.....	21 ".....		.1 "
" 15.....	14 ".....		.1 "
" 20.....	6 ".....		.1 "
" 24.....	2 ".....		.1 "
6 days	107 fish		6 lifts

Removal of Burbot (Ling) from Elbow Lake in 1947.

Location—Frontenac County, township of Hinchinbrooke.

	Area.....		½ sq. mile
	Nets.....		Hoop Type
	Number of Nets.....		1
Jan. 2.....	43 fish.....		.1 net
" 4.....	64 ".....		.1 "
" 9.....	27 ".....		.1 "
" 15.....	9 ".....		.1 "
" 20.....	8 ".....		.1 "
" 24.....	2 ".....		.1 "
6 days	153 fish		6 lifts

## Removal of Burbot (Ling) from Clear Lake in 1947.

Location—Parry Sound District, township of Perry.

Nets		Hoop Type	
Number of Nets		2	
Jan. 16.	3 fish	2 nets	
“ 19.	6 “	2 “	
“ 25.	8 “	2 “	
“ 30.	9 “	2 “	
Feb. 2.	3 “	2 “	
5 days	29 fish	5 lifts	

## APPENDIX No. 1

SUMMARY OF FISH DISTRIBUTION  
For fiscal year April 1, 1946 to March 31, 1947

Whitefish	205,590,000
Herring	69,674,000
Lake Trout	5,902,240
Pickeral	142,385,000
Perch	20,450,000
Maskinonge	1,156,875
Atlantic Salmon	88,210
Brown Trout	401,965
Kamloops Trout	4,850
Rainbow Trout	1,610
Speckled Trout	2,904,166
Small-mouth Bass	702,128
Large-mouth Bass	9,527
Total	449,270,571

## APPENDIX No. 2

DISTRIBUTION OF FISH BY SPECIES AND HATCHERIES  
April 1, 1946 to March 31, 1947

## BROWN TROUT

Hatchery	Fingerlings	Yearlings
Chatsworth		34,790
Codrington		1,000
Glenora	133,025	
Ingersoll		71,000
Mount Pleasant		24,800
Normandale		137,350
Totals	133,025	268,940

## RAINBOW TROUT

Hatchery	Yearlings
Normandale	1,610

## KAMLOOPS TROUT

Hatchery	Adults
Chatsworth.....	4,850

## LAKE TROUT

Hatchery	Fry	Fingerlings	Yearlings
Chatsworth.....			12,775
Dorion.....			6,135
Fort Frances.....		6,400	
Glenora.....		169,795	
Hills Lake.....		5,000	9,135
Kenora.....		85,500	
Port Arthur.....		1,855,000	
Sault Ste. Marie.....		461,500	
Southampton.....		140,000	
Warton.....	2,265,000	886,000	
Totals.....	2,265,000	3,609,195	28,045

## PERCH

Hatchery	Fry
Kingsville.....	20,450,000

## MASKINONGE

Hatchery	Fry	Fingerlings
Deer Lake.....	1,150,000	6,875
Total.....	1,150,000	6,875

## PICKEREL

Hatchery	Fry
Collingwood.....	2,550,000
Deer Lake.....	10,000,000
Fort Frances.....	23,250,000
Glenora.....	15,160,000
Kenora.....	43,750,000
Kingsville.....	150,000
Little Current.....	18,850,000
Pembroke.....	3,975,000
Sarnia.....	2,200,000
Sault Ste. Marie.....	5,000,000
Skeleton Lake.....	17,500,000
Total.....	142,385,000

## SMALL-MOUTH BASS

Hatchery	Fry	Fingerlings	Yearlings and Adults
Deer Lake .....	.....	35,000	200
Glenora .....	15,000	150	.....
*Miscellaneous .....	.....	.....	3,149
Mount Pleasant .....	.....	29,550	100
Sandfield .....	.....	138,260	393
Skeleton Lake .....	315,000	35,600	389
White Lake .....	55,000	74,150	187
Total .....	385,000	312,710	4,418
*Miscellaneous: Lake Placid .....			143
Fox Lake .....			1,112
Shoe Pack Lake .....			1,539
Cooks Lake .....			355
			3,149

## LARGE-MOUTH BASS

Hatchery	Fingerlings	Adults
Mount Pleasant .....	9,500	27
Total .....	9,500	27

## ATLANTIC SALMON

Hatchery	Fingerlings	Yearlings
Glenora .....	84,210	.....
Hills Lake .....	.....	4,000
Total .....	84,210	4,000

## SPECKLED TROUT

Hatchery	Eggs	Fingerlings	Yearlings	Adults
Chatsworth .....	.....	20,000	172,910	.....
Codrington .....	.....	.....	43,770	.....
Deer Lake .....	.....	.....	33,600	.....
Dorion .....	.....	42,600	261,400	3,385
Hills Lake .....	.....	.....	298,650	715
Midhurst .....	.....	.....	75,100	.....
Mount Pleasant .....	.....	.....	92,550	.....
North Bay .....	.....	.....	231,900	.....
Pembroke .....	.....	22,130	139,600	.....
Sandfield .....	.....	.....	507,700	.....
Sault Ste. Marie .....	50,000	.....	504,600	4,556
Skeleton Lake .....	.....	.....	231,000	.....
White Lake .....	.....	.....	168,000	.....
Totals .....	50,000	84,730	2,760,780	8,656

## WHITEFISH

Hatchery	Fry
Collingwood.....	39,240,000
Fort Frances.....	27,215,000
Kenora.....	37,125,000
Kingsville.....	52,300,000
Little Current.....	26,000,000
Normandale.....	8,000,000
Port Arthur.....	590,000
Sarnia.....	15,030,000
Sault Ste. Marie.....	90,000
Total.....	205,590,000

## HERRING

Hatchery	Fry
Normandale.....	68,750,000
Sarnia.....	924,000
Total.....	69,674,000

## APPENDIX No. 3

## DISTRIBUTION OF FISH ACCORDING TO COUNTIES

April 1, 1946 to March 31, 1947

## MASKINONGE

County	Fry	Fingerlings
Durham.....	10,000	.....
Grenville.....	10,000	.....
Hastings.....	95,000	.....
Leeds.....	10,000	.....
Muskoka.....	45,000	.....
Nipissing.....	50,000	.....
Northumberland.....	105,000	200
Ontario.....	30,000	.....
Peterborough.....	565,000	3,875
Prince Edward.....	.....	400
Simcoe.....	.....	300
Stormont.....	10,000	.....
Sudbury.....	30,000	.....
Victoria.....	200,000	1,100
Total.....	1,150,000	6,875



## KAMLOOPS TROUT

County	Adults
Muskoka .....	3,600
Parry Sound .....	1,250
Total .....	4,850

## RAINBOW TROUT

County	Yearlings
Elgin .....	1,200
Dufferin .....	410
Total .....	1,610

## PERCH

Great Lakes	Fry
Mitchells Bay .....	1,000,000
Lake Erie .....	19,450,000
	20,450,000

## ATLANTIC SALMON

County	Fingerlings	Yearlings
Nipissing .....	.....	3,500
Sudbury .....	.....	500
Ontario .....	84,210	.....
Total .....	84,210	4,000

## PICKEREL

County	Fry
Algoma.....	4,150,000
Bruce.....	715,000
Carleton.....	400,000
Frontenac.....	8,600,000
Grenville.....	300,000
Haliburton.....	1,300,000
Hastings.....	2,400,000
Kenora.....	9,750,000
Kent.....	300,000
Lambton.....	250,000
Lanark.....	900,000
Leeds.....	1,000,000
Lennox.....	1,550,000
Manitoulin.....	2,350,000
Middlesex.....	400,000
Muskoka.....	3,035,000
Nipissing.....	10,300,000
Northumberland.....	2,150,000
Ontario.....	375,000
Oxford.....	200,000
Parry Sound.....	10,200,000
Peterborough.....	4,300,000
Prince Edward.....	960,000
Rainy River.....	17,250,000
Renfrew.....	2,975,000
Simcoe.....	525,000
Stormont.....	500,000
Sudbury.....	8,100,000
Thunder Bay.....	2,000,000
Victoria.....	1,700,000
York.....	100,000
Great Lakes	
Lake Erie.....	150,000
Georgian Bay.....	500,000
Lake Huron.....	1,050,000
North Channel.....	3,200,000
Lake Superior.....	450,000
Lake-of-the-Woods.....	38,000,000
Total.....	142,385,000

## SPECKLED TROUT

County	Eggs	Fingerlings	Yearlings	Adults
Algoma . . . . .		3,000	529,000	4,556
Bruce . . . . .			17,200	
Cochrane . . . . .			138,500	
Dufferin . . . . .			16,900	
Durham . . . . .			15,150	
Elgin . . . . .			9,300	
Frontenac . . . . .			49,500	
Grey . . . . .		20,000	116,950	
Haliburton . . . . .			44,200	
Halton . . . . .			4,200	
Hastings . . . . .			118,550	
Huron . . . . .			10,750	
Kenora . . . . .		5,000	9,200	
Lanark . . . . .			2,400	
Lennox-Addington . . . . .			38,300	
Manitoulin . . . . .			121,500	
Middlesex . . . . .			6,000	
Muskoka . . . . .			115,350	
Nipissing . . . . .		19,130	149,350	
Norfolk . . . . .			30,900	
Northumberland . . . . .			23,350	
Ontario . . . . .			2,050	
Oxford . . . . .			6,985	
Parry Sound . . . . .			211,400	
Peel . . . . .	50,000		11,400	
Perth . . . . .			600	
Peterborough . . . . .			12,900	
Rainy River . . . . .			2,000	
Renfrew . . . . .		3,000	85,600	
Simcoe . . . . .			34,100	
Sudbury . . . . .			390,600	
Thunder Bay . . . . .		34,600	228,300	3,385
Timiskaming . . . . .			143,200	715
Victoria . . . . .			8,650	
Waterloo . . . . .			12,600	
Wellington . . . . .			33,850	
Wentworth . . . . .			3,600	
York . . . . .			3,395	
Totals . . . . .	50,000	143,386	2,760,780	8,656

## WHITEFISH

Great Lakes	Fry
Lake Erie.....	60,300,000
Georgian Bay.....	12,240,000
Lake Huron.....	24,030,000
Lake of the Woods.....	31,625,000
North Channel.....	14,000,000
Lake Superior.....	1,680,000
Kenora.....	4,000,000
Rainy River.....	27,215,000
Thunder Bay.....	1,500,000
Total.....	205,900,000

## HERRING

Great Lakes	Fry
Lake Huron.....	924,000
Lake Erie.....	68,750,000
Total.....	69,674,000

## SMALL-MOUTH BASS

County	Fry	Fingerlings	Adults
Algoma.....		40,750	.....
Brant.....			100
Bruce.....		7,000	.....
Elgin.....		1,000	.....
Frontenac.....	55,000	40,800	1,726
Grey.....		1,500	.....
Haliburton.....		1,800	143
Hastings.....		5,800	90
Huron.....		2,250	.....
Kenora.....			1,112
Lambton.....		1,000	.....
Lanark.....		19,000	.....
Leeds.....		4,250	.....
Lennox and Addington.....		5,100	.....
Manitoulin.....		19,500	393
Middlesex.....		2,000	.....
Muskoka.....	165,000	1,500	.....
Nipissing.....	70,000	28,500	.....
Norfolk.....		1,000	.....
Northumberland.....		2,000	.....
Ontario.....	5,000	2,650	.....
Parry Sound.....	75,000	35,600	389
Peel.....		1,000	.....
Perth.....		650	.....
Peterborough.....		18,200	110
Prince Edward.....	15,000	50	.....
Renfrew.....		2,500	.....
Simcoe.....		6,500	.....
Sudbury.....		49,510	.....
Thunder Bay.....			355
Victoria.....		8,800	.....
Waterloo.....		1,500	.....
Wellington.....		1,000	.....
Totals.....	385,000	312,710	4,418

## LARGE-MOUTH BASS

County	Fingerlings	Adults
Brant.....	.....	27
Simcoe.....	2,000	..
Victoria.....	6,500	..
Waterloo.....	1,000	..
Totals.....	9,500	27

## BROWN TROUT

County	Fingerlings	Yearlings
Brant.....	.....	10,400
Bruce.....	.....	12,890
Carleton.....	5,000	.....
Dufferin.....	.....	9,000
Durham.....	29,000	1,000
Elgin.....	.....	2,400
Grey.....	.....	16,800
Haldimand.....	.....	3,600
Haliburton.....	10,000	.....
Halton.....	.....	21,400
Hastings.....	11,000	.....
Huron.....	.....	7,500
Lennox-Addington.....	5,000	.....
Lincoln.....	.....	2,400
Middlesex.....	.....	6,300
Norfolk.....	.....	44,600
Northumberland.....	13,025	.....
Ontario.....	8,000	.....
Oxford.....	.....	24,900
Peel.....	.....	34,000
Perth.....	.....	3,600
Peterborough.....	42,000	.....
Renfrew.....	5,000	.....
Simcoe.....	.....	7,800
Victoria.....	5,000	.....
Waterloo.....	.....	23,400
Welland.....	.....	7,800
Wellington.....	.....	17,600
Wentworth.....	.....	4,200
York.....	.....	7,350
Totals.....	133,025	268,940

## LAKE TROUT

County	Fry	Fingerlings	Yearlings
Algoma.....		95,500	.....
Bruce.....	5,000	.....	4,225
Cochrane.....		5,000	1,200
Frontenac.....		50,150	.....
Haliburton.....		144,415	.....
Hastings.....		33,275	.....
Kenora.....		67,000	.....
Lanark.....		5,100	.....
Leeds.....		7,225	.....
Lennox-Addington.....		11,050	.....
Manitowlin.....		16,000	.....
Muskoka.....		140,000	.....
Nipissing.....		16,125	6,000
Parry Sound.....		110,000	.....
Peterborough.....		36,550	.....
Rainy River.....		2,400	.....
Renfrew.....		18,000	.....
Simcoe.....		4,000	.....
Sudbury.....		46,000	800
Thunder Bay.....		129,000	1,635
Timiskaming.....		.....	1,135
Victoria.....		905	.....
York.....		25,000	8,550
Great Lakes			
Georgian Bay.....	2,110,000	320,000	.....
Lake Huron.....	150,000	300,000	.....
North Channel.....	.....	121,000	.....
Lake Superior.....	.....	1,885,000	4,500
Lake-of-the-Woods.....	.....	18,500	.....
Totals.....	2,265,000	3,609,195	28,045

APPENDIX No. 4  
FISH DISTRIBUTION BY HATCHERIES  
April 1, 1946 to March 31, 1947

Hatchery	Fry	Fingerlings	Yearlings	Adults	Total
<b>CHATSWORTH</b>					
Speckled Trout.....		20,000	172,910		192,910
Brown Trout.....			34,790		34,790
Lake Trout.....			12,775		12,775
Kamloops Trout.....				4,850	4,850
					245,325
<b>CODRINGTON</b>					
Speckled Trout.....			43,770		43,770
Brown Trout.....			1,000		1,000
					44,770
<b>COLLINGWOOD</b>					
Whitefish.....	39,240,000				39,240,000
Pickereel.....	2,550,000				2,550,000
					41,790,000
<b>DEER LAKE</b>					
Speckled Trout.....			33,600		33,600
Pickereel.....	10,000,000				10,000,000
Maskinonge.....	1,150,000	6,875			1,156,875
Bass—Small-mouth.....		35,000		200	35,200
					11,220,675
<b>DORION</b>					
Speckled Trout.....		42,600	261,400	3,385	307,385
Lake Trout.....			6,135		6,135
					313,520
<b>FORT FRANCES</b>					
Pickereel.....	23,250,000				23,250,000
Whitefish.....	27,215,000				27,215,000
Lake Trout.....		6,400			6,400
					50,471,400
<b>GLENORA</b>					
Pickereel.....	15,160,000				15,160,000
Lake Trout.....		169,795			169,795
Brown Trout.....		133,025			133,025
Bass—Small-mouth.....	15,000	150			15,150
Atlantic Salmon.....		84,210			84,210
					15,562,180
<b>HILLS LAKE</b>					
Speckled Trout.....			298,650	715	299,365
Lake Trout.....		5,000	9,135		14,135
Atlantic Salmon.....			4,000		4,000
					317,500

APPENDIX No. 4  
FISH DISTRIBUTION BY HATCHERIES  
April 1, 1946 to March 31, 1947

Hatchery	Fry	Fingerlings	Yearlings	Adults	Total
<b>KENORA</b>					
Whitefish.....	37,125,000	.....	.....	.....	37,125,000
Pickereel.....	43,750,000	.....	.....	.....	43,750,000
Lake Trout.....	.....	85,500	.....	.....	85,500
					80,960,500
<b>KINGSVILLE</b>					
Whitefish.....	52,300,000	.....	.....	.....	52,300,000
Perch.....	20,450,000	.....	.....	.....	20,450,000
Pickereel.....	150,000	.....	.....	.....	150,000
					72,900,000
<b>LITTLE CURRENT</b>					
Whitefish.....	26,000,000	.....	.....	.....	26,000,000
Perch.....	18,850,000	.....	.....	.....	18,850,000
					44,850,000
<b>MIDHURST</b>					
Speckled Trout.....	.....	.....	75,100	.....	75,100
<b>MISCELLANEOUS</b>					
Bass—Small-mouth.....	.....	.....	.....	3,149	3,149
<b>MOUNT PLEASANT</b>					
Speckled Trout.....	.....	.....	92,550	.....	92,550
Brown Trout.....	.....	.....	95,800	.....	95,800
Bass—Small-mouth.....	.....	29,550	.....	100	29,650
Bass—Large-mouth.....	.....	9,500	.....	27	9,527
					227,527
<b>NORMANDALE</b>					
Whitefish.....	8,000,000	.....	.....	.....	8,000,000
Brown Trout.....	.....	.....	137,350	.....	137,350
Rainbow Trout.....	.....	.....	1,610	.....	1,610
Herring.....	68,750,000	.....	.....	.....	68,750,000
					76,888,960
<b>NORTH BAY</b>					
Speckled Trout.....	.....	.....	231,900	.....	231,900
<b>PEMBROKE</b>					
Speckled Trout.....	.....	22,130	139,600	.....	161,730
Pickereel.....	3,975,000	.....	.....	.....	3,975,000
					4,136,730
<b>PORT ARTHUR</b>					
Whitefish.....	590,000	.....	.....	.....	590,000
Lake Trout.....	.....	1,855,000	.....	.....	1,855,000
					2,445,000



APPENDIX No. 4  
FISH DISTRIBUTION BY HATCHERIES  
April 1, 1946 to March 31, 1947

Hatchery	Fry	Fingerlings	Yearlings	Adults	Total
<b>SANDFIELD</b>					
Speckled Trout.....			507,700		507,700
Bass—Small-mouth.....		138,260		393	138,653
					646,353
<b>SARNIA</b>					
Whitefish.....	15,030,000				15,030,000
Herring.....	924,000				924,000
Pickereel.....	2,200,000				2,200,000
					18,154,000
<b>SAULT STE. MARIE</b>					
Whitefish.....	90,000				90,000
Pickereel.....	5,000,000				5,000,000
Lake Trout.....		461,500			461,500
					5,551,500
<b>SAULT TROUT REARING STN.</b>					
Speckled Trout.....	50,000		501,600	4,556	559,156
<b>SKELETON LAKE</b>					
Bass—Small-mouth.....	315,000	35,600		389	350,989
Speckled Trout.....			231,000		231,000
Pickereel.....	17,500,000				17,500,000
					18,081,989
<b>SOUTHAMPTON</b>					
Lake Trout.....		140,000			140,000
<b>WHITE LAKE</b>					
Speckled Trout.....			168,000		168,000
Bass—Small-mouth.....	55,000	74,150		187	129,337
					297,337
<b>WIARTON</b>					
Lake Trout.....	2,265,000	886,000			3,151,000

APPENDIX No. 5  
A COMPARATIVE TABLE SHOWING THE FISH DISTRIBUTION  
ACCORDING TO SPECIES

Species	1942	1943	1944	1945	1946
Bass—Large-mouth					
Fry.....	185,000	507,500	130,000		
Fingerlings.....	19,100	38,500	14,600	5,000	9,500
Yearlings and Adults.....	290	290	51		27
Bass—Small-mouth					
Fry.....	1,535,500	1,512,000	2,030,000	448,000	385,000
Fingerlings.....	718,259	392,700	664,400	348,368	312,710
Yearlings and Adults.....	2,355	1,369	2,834	5,322	4,418
Maskinonge					
Fry.....	1,575,000	1,165,000	2,705,000	2,030,000	1,150,000
Fingerlings.....	705	2,150	2,952	200	6,875
Perch—Fry.....	24,175,000	19,000,000	18,480,000	12,000,000	20,450,000
Pickereel (Yellow) Fry.....	301,760,000	263,875,000	271,265,000	177,595,000	142,385,000
Pickereel (Blue) Fry.....		150,000			
Brown Trout					
Eggs and Fry.....		10,000		50,000	
Fingerlings.....	23,000	1,000			133,025
Yearlings.....	359,275	303,335	330,750	224,749	268,940
Lake Trout					
Eggs and Fry.....	767,000	325,000	3,176,500	765,000	2,265,000
Fingerlings.....	15,429,600	8,048,800	3,475,995	7,248,040	3,609,195
Yearlings.....	10,680	60,860	44,018	88,700	28,045
Rainbow Trout					
Fingerlings.....	111,000	73,242	32,186	5,563	
Yearlings.....	12,900	15,450	3,900		1,610
Kamloops Trout					
Yearlings.....	24,800	5,000	7,200	9,900	
Adults.....					4,850
Speckled Trout					
Fry.....	500	5,000		5,000	50,000
Fingerlings.....	631,775	9,400	493,840	117,300	84,730
Yearlings.....	2,918,513	3,083,983	2,876,963	3,005,573	2,760,780
Adults.....	7,527	10,292	4,360	4,460	8,656
Whitefish—Fry.....	395,052,000	371,677,500	259,435,000	240,786,775	205,590,000
Herring—Fry.....	18,430,000	24,560,000	5,662,000	6,405,000	69,674,000
Minnnows.....	500		25,000	4,000	
Atlantic Salmon.....			20,000	41,350	88,210
Totals.....	763,750,279	694,833,371	570,892,549	451,193,300	449,270,571

## COMMERCIAL FISHING

Insofar as the Commercial Fisheries Section of the Division of Fish and Wildlife is concerned, the fiscal year ending March 31, 1947, was largely devoted to reorganization, with a view to establishing more direct contact with the fishermen themselves and thereby increasing the service rendered to them, both individually and through their organizations. Particular attention was given to matters concerning legislation and toward the securing of an adequate statistical set-up to use as a basis for the development of a sound management policy.

The commercial fisheries maintained in our Northern Inland waters caught and marketed over 14 percent of the total catch for Ontario in 1946. Since most of this fishing is done in small inland lakes, it is obvious that commercial fishing operations, unrestricted as to size of catch, could quite easily result in depletion of certain species. With this in mind, a system of budgeting the catch of individual licences was instituted in the spring of 1947. Based on the previous production records the catch was limited for certain species. This ceiling on catch was placed on a level at which it was thought production could be maintained by leaving sufficient stock in the lake. This limit was set on a flexible basis and with a view to changing it from year to year, as conditions warranted. The possibility of the level being raised at a future date, is as great as that it will be lowered, or maintained at the level previously set.

At the time the Department of Game and Fisheries was taken over by the Department of Lands and Forests and formed into what is now known as the Division of Fish and Wildlife, it was decided to bring into being a new method of obtaining statistical data regarding the commercial fishing industry of the Province. This new system would thus enable the Department to have on hand a more detailed collection of data, which heretofore was not available.

Up to the present time the only information obtainable is the data submitted by each holder of a commercial fishing licence at the end of each year. These returns are totalled and made up into an Annual Report, as shown in the two appendices under the headings "Equipment" and "Quantities of Fish Taken". There is, however, no way of obtaining from this Annual Report under the heading "Quantities of Fish Taken" any information as to what month the fish were taken, or from what area or district of a lake the fish were taken. There is also no way of obtaining from this Annual Report, under both the "Equipment" and "Catch" heading, any information regarding the type of gear used to take any particular species, or the amount of gear used to take any particular species. This Annual Report, therefore, gives only the total catch by lake or area of each species of fish taken that year, which is of value in itself, but is not sufficient for a further statistical analysis.

It was felt, therefore, that in order to properly administer the commercial fisheries, it was essential to have statistical data on hand that would show an indication of the changes in the abundance of the commercial species. It was essential that this data must, therefore, include a record, not only of the quantities of fish taken, but also of the extent of the fishing operations that led to that catch or, in other words, the effort that was put forth to obtain that catch. The true condition of the fisheries, therefore, cannot be measured accurately by statistics of catch alone but should be expressed in terms of production in relation to fishing intensity, that is, "catch per unit of fishing effort".

With this in mind the Department created a new system by which all licensed fishermen were required to report their daily fishing activities. Under this system all commercial fishermen must submit at the end of each month a

## STATISTICS OF THE FISHING INDUSTRY IN THE PUBLIC WATERS OF ONTARIO

For the year ending December 31, 1946

## EQUIPMENT

District	No. of Men	Tugs		Gasoline Launches		Sail and Row Boats		Gill Nets		Seine Nets		Pound Nets		Hoop Nets		Dip and Roll Nets		Night Lines		Spears		Freezers & Ice Houses		Piers and Wharves		Total Value \$	
		No.	Value \$	No.	Value \$	No.	Value \$	Yards	Value \$	No.	Yards	No.	Value \$	No.	Value \$	No.	Value \$	No.	Value \$	No.	Value \$	No.	Value \$	No.	Value \$		No.
North Inland Waters	959	7	52,500	193	118,252	408	28,663	712,904	113,604			33	15,025	67	3,115			7,500	506			147	48,510	120	20,930	401,195	
Lake Superior	451	14	94,400	136	131,585	91	6,670	1,293,622	196,288			34	14,800							26	130	68	35,705	61	17,285	496,863	
North Channel	64	2	6,800	27	19,450	29	1,650	155,000	17,217			37	12,600									19	6,600	15	5,350	69,667	
Georgian Bay	379	14	109,425	132	141,295	99	5,175	1,414,023	170,825	2	300	230	61	60,650	33	675			25,200	5,195	12	60	60	23,375	55	33,375	550,580
Lake Huron	188	5	47,000	71	81,975	19	1,109	711,382	89,901			82	61,400														
Lake St. Clair	94			39	21,715	67	5,655			21	5,300	3,435	140	21,350													
Lake Erie	1,215	65	1,298,560,500	207	560,896	130	14,650	3,734,750	573,257	36	9,325	9,270	687	401,280	18	3,080	1	10	3,400	292			133	330,325	116	52,350	2,505,280
Lake Ontario	646			240	140,620	174	12,280	1,066,518	122,212	11	1,140	1,350	5	3,000	794	25,750	10	3,245	2,700	139	12	60	31	7,375	36	8,505	324,536
South Inland Waters	248			19	4,360	124	5,655	2,000	200	51	4,385	5,885			376	14,765	24	131	1,800	79			7	1,940	4	300	32,415
Totals	4,241	107	2,388,870,625	1,664	1,220,178	1,411	80,307	9,090,199	1,293,504	121	20,450	20,170	1,079	590,105	1,288	47,385	35	3,386	48,100	7,183	70	350	525	492,745	437	147,840	4,763,778

STATISTICS OF THE FISHING INDUSTRY IN THE PUBLIC WATERS OF ONTARIO  
For the year ending December 31, 1946  
QUANTITIES OF FISH TAKEN

District	Herring	Whitefish	Trout	Pike	Pickeral (Blue)	Pickeral (Dore)	Sturgeon	Eels	Perch	Tullibee	Catfish	Carp	Mixed Coarse	Caviare	Total	Value
	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	\$
Northern Inland Waters	2,229	1,416,919	147,892	743,332	1,620,630	144,610			6,490	162,027	31,627		44,691	1,652	4,719,399	896,029.72
Lake Superior	1,511,185	274,992	1,530,894	7,539	120,462	2,118			1,703	33,086		22	106,688		3,588,689	639,033.91
North Channel	385	24,896	6,022	80,738	28,483	7,126			2,445	134	980	5,738	132,597	136	289,710	42,309.37
Georgian Bay	2,118	246,418	685,925	24,849	44,104	915			2,350	24,750	5,762	46,332	179,688	15	1,292,226	331,969.00
Lake Huron	103,639	157,567	29,539	53,383	69,771	6,793			335,933	88,573	7,944	16,512	83,350	427	953,799	151,437.60
Lake St. Clair			205	14,906	48,507	3,618			37,286		62,800	140,039	185,852	189	493,402	59,378.63
Lake Erie	9,524,975	1,932,201	1,772	33,103	1,908,867	13,018		13,714	2,417,706		73,483	161,238	2,105,697	305	18,925,344	3,088,814.86
Lake Ontario	413,075	397,887	102,445	50,327	63,030	7,027		34,733	161,538		293,024	196,783	295,937	83	2,058,698	316,925.57
Southern Inland Waters				7,247				3,037	5,016		159,074	192,519	312,659		678,952	70,539.22
Totals	11,576,606	4,451,055	2,514,489	1,015,024	1,972,265	185,225		51,484	2,973,467	308,570	629,695	759,233	3,843,559	2,807	33,000,119	
Values	1,425,389.78	1,233,967.72	806,007.89	99,659.83	353,772.86	581,466.54	165,002.15	4,353.67	446,121.32	25,337.15	92,547.88	58,020.35	298,378.74	6,797.00		5,597,028.88

complete record of their daily fishing activities. This plan of reporting was adopted from the monthly report system now in effect in the State of Michigan and other states bordering the Great Lakes, where it has been enforced now for some fifteen years with very satisfactory results. The monthly report includes such required data on each day's fishing activities as, the month in which the fishing was done, the fishing locality (that is, lake and the section of that lake), the kind and amount of gear fished and the catch in pounds of each species taken.

In order to be able to obtain data for individual areas or districts within a lake, all of the Great Lakes have been divided into statistical districts, in such a way so as to make the districts on the Ontario side of the Great Lakes comparable to the similar districts on the United States side. Therefore, it is hoped that data on the commercial fishing in the Great Lakes will be on a more uniform basis, as many of the States bordering the Great Lakes, as well as the Province of Ontario, have adopted this statistical system of collecting records. By having our districts coinciding as near as possible with those on the United States side of the Great Lakes, a more complete picture can be presented.

The reports are sorted according to the month, the district, and the type of gear, and at the end of each year a complete statistical analysis will be made from these reports. This analysis will make possible an estimation of the annual fluctuations and the abundance of the different commercial species in the various statistical districts, as these fluctuations are reflected in the "catch per net". It is hoped, therefore, to have on hand, data for each of the commercial species of fish in the Province, as to the quantity of fish taken, the amount of gear used to take that catch, the month in which it was taken, and the area of a district of a lake from where it was taken.

These monthly reports do not include any information such as the number of men employed per licence, the amount of gear on hand and the value of same, and with this in mind it has been decided to continue with the Annual Report, as it will be used to obtain these facts and also to show the total catch of a lake by species by year.

At first, the monthly reports were incomplete and individual reports were often faulty. It is not felt that any reliable data will be obtained from the reports of 1946 and 1947, as it will take some little time before the system is properly functioning and all fishermen are reporting correctly each month. It is hoped that by the beginning of 1948 this system should be sufficiently established to be able to make an analysis of the data obtained during the months of 1948.

The overall picture of the commercial fisheries in Ontario in 1946, showed a net decrease of 1,277,624 pounds as compared with 1945. This reduction in catch was spread throughout the fishery in general and at the same time there was an increase in the gear used. This would indicate that the fisheries throughout the Province were even less productive than the statistics of catch alone would indicate when comparison is made with 1945.

In 1946, Lake Erie produced over half the total catch for the whole Province. The productive capacity of this lake is fairly stable, although there are, of course, some years in which the catch drops to a low ebb and in other years, reaches a peak. However, this catch in general tends to level off since the reduction in numbers of one species, in any one year, usually is replaced by an increased production of another or several other species in that year. It is notable that although there was a decrease of 4,649,899 lbs. in the catch of blue pickerel in Lake Erie, the net decrease in total catch for the lake was only 24,233 lbs.

Lake Superior and Lake Ontario are also maintaining a fairly stable level, despite the fact that the catch is down in each case this year. While these lakes are not as productive as Lake Erie and they do not have as great a variety of fish entering the catch, the fishing effort is not as intensive. The latter may account in part for the relative stability of the total catch.

The fisheries in Lake Huron, Georgian Bay and North Channel are at a very low ebb at present, due to the fact that the lake trout and whitefish catches have decreased tremendously during the past six years.

The total catch from northern inland waters was less in 1946 than in 1945, whereas the total catch from southern inland waters (largely bullheads, carp and other coarse fish) shows a slight increase.

COMPARATIVE STATEMENT OF THE YIELD OF THE FISHERIES  
OF ONTARIO BY LAKE

Lake	1945 Pounds	1946 Pounds	Increase Pounds	Decrease Pounds
Ontario.....	2,338,186	2,058,698	.....	279,488
Erie.....	18,949,577	18,925,344	.....	24,233
St. Clair.....	502,991	493,402	.....	9,589
Huron.....	1,070,900	953,799	.....	117,101
Georgian Bay.....	1,524,489	1,292,226	.....	232,263
North Channel.....	433,990	289,710	.....	144,280
Superior.....	3,812,064	3,588,689	.....	223,375
South Inland Waters.....	606,002	678,952	72,950	.....
North Inland Waters.....	5,039,544	4,719,299	.....	320,245
	31,277,743	33,000,119	72,950	1,350,574
Net Decrease.....				1,277,624

COMPARATIVE STATEMENT OF THE YIELD OF THE  
FISHERIES OF ONTARIO

Species	1945 Pounds	1946 Pounds	Increase Pounds	Decrease Pounds
Herring.....	9,121,060	11,576,606	2,452,546	.....
Whitensh.....	4,265,089	4,451,055	185,966	.....
Trout.....	2,588,980	2,514,489	.....	74,491
Pike.....	1,104,376	1,015,624	.....	88,752
Pickrel (Blue).....	6,582,466	1,972,265	.....	4,610,201
Pickrel (Yellow).....	3,021,173	2,716,040	.....	305,133
Sturgeon.....	139,224	185,225	46,001	.....
Eels.....	46,719	51,484	4,765	.....
Perch.....	1,695,084	2,973,467	1,278,383	.....
Tullibee.....	699,637	308,570	.....	391,067
Catfish.....	557,546	629,695	72,149	.....
Carp.....	638,068	759,233	121,165	.....
Mixed and Coarse.....	3,812,355	3,843,559	31,204	.....
Caviar.....	2,966	2,807	.....	159
	34,277,743	33,000,119	4,192,179	5,469,803
Net Decrease.....				1,277,624



DIGGING A FIRE LINE IN AWREY TOWNSHIP



## DIVISION OF FOREST PROTECTION

## FIRE AND HAZARD CONDITIONS

The fire season was, on the whole, a fairly moderate one. The number of fires was above the average, but the area burned over was relatively small. The warm weather at the end of March created a fairly high hazard in the eastern part of the Province for a short period, but in general the weather was favourable during April and May. There was a high hazard in the western part of the Province during the first part of June and in the Sudbury and Parry Sound Districts during the latter part of July and first part of August, but apart from a short period of high hazard in the early part of October in the same two districts, there were no acute or prolonged hazards in the latter part of the summer.

## LEGISLATION

An Act to amend The Forest Fires Prevention Act (Bill No. 98) was passed at the 1946 session of the Legislature and became law on June 5, 1946. The more important changes are:

1. The office of Provincial Forester is abolished.
2. Provision made to enter into agreements with municipalities for prevention and control of fires.
3. Provision for the entire cost of extinguishing fires confined to Crown Land to be borne by the Department.
4. Onus of proof placed upon permittee where fire originates in an area in which summer operations are being carried on.
5. Section 24 requiring employees of operators to wear badges was repealed.

An Order-in-Council revising the Regulations under The Forest Fires Prevention Act was passed on July 4th, 1946. This made some changes in the general regulations and in the boundaries of the fire districts and travel permit areas.

Due to hazardous fire conditions, eight areas in Cochrane District were closed to travel for ten days in the first part of August and a section of the Mississagi Road in Sault Ste. Marie District was closed to travel from August 5 to September 13.

The number of prosecutions for breaches of the Forest Fires Prevention Act was seventeen, all but three of which resulted in convictions.

## ORGANIZATION

On December 1, 1946 Mr. C. R. Mills resigned as Chief of the Division of Forest Protection and was replaced by Mr. T. E. Mackey, who was formerly Regional Forester at North Bay.

By Order-in-Council dated July 4, 1946, Manitoulin and Cockburn Islands and Lots 16 to 53 of the Wild Land Reserve in the Municipality of Atwood were removed from the Fire District and the townships of Morson, McCrosson and Tovell were added to the Fire District.

On April 1, 1946, Chapleau and Biscotasing Divisions of Sudbury District were formed into a new district known as Chapleau District, with headquarters at Chapleau, and Gogama and Foleyet Divisions and part of Capreol Division were formed into a new District known as Gogama District, with headquarters at Gogama.

On May 1, 1946, Mr. J. W. Jones and Mr. R. K. Strang were transferred from the Main Office of the Department of Game and Fisheries to the Division of Forest Protection. Mr. Jones will continue in the capacity of Superintendent of Construction and Mr. Strang as Mechanical Supervisor.

During July and August the fire ranging staff was again augmented by some eighty high school students who did valuable work on improvements and on fire suppression.

#### EQUIPMENT

There were no new developments during the past fiscal year.

#### IMPROVEMENTS

Some ranger cabins and smaller headquarters buildings were constructed and some telephone lines built but no extensive building programme was carried out due to shortage of materials.

The Department of Public Works continued the construction of buildings at the Forest Ranger School. The buildings completed to date are a dormitory, boiler house and heating plant, dining hall and kitchen with living quarters for kitchen staff. Underway are a workshop and garage, the Director's house and Administration Office, the school building and two fire hydrant and hose houses.

#### *Total Improvements Completed to March 31, 1947*

Cabins . . . . .	547
Storehouses . . . . .	152
Boathouses . . . . .	60
Combined Storehouses and Boathouses . . . . .	27
Bunkhouses . . . . .	62
Offices . . . . .	36
Garages & Car Houses . . . . .	89
Other Buildings . . . . .	213
Hose Towers . . . . .	63
Wooden Lookout Towers . . . . .	52
Steel Lookout Towers . . . . .	227
Telephone Lines (miles) . . . . .	3740

RADIO COMMUNICATIONS  
*Radio Sets in Use During 1946*

District	Tower Sets	P'nb'le Sets	Boat Sets	Pack Sets	Model 30	Model 300	Misc.	Air-craft	Totals
Sioux Lookout.....	14	1		1	6	2		4	28
Kenora.....	14	1			2	1		2	20
Fort Frances.....	11				6			1	18
Port Arthur.....	14	1	1		5	2	3	3	29
Geraldton.....	9				4	1		2	16
Kapuskasing.....	10				5			1	16
Cochrane.....	14				3			1	18
Sault Ste. Marie....	27	4			4	1		2	38
Sudbury.....	12	1						1	14
Chapleau.....	11	1			1			1	14
Gogama.....	11	1			1				13
North Bay.....	20				2			1	23
Algonquin.....	12							1	13
Head Office.....	1	7	5	5	1				19
TOTAL.....	180	17	6	6	40	7	3	20	279

An additional four radio equipped aircraft were added to the Division of Air Service bringing the total to 20, with the following distribution:

CF-OAV—Kenora District  
 CF-OAW—Geraldton District  
 CF-OAY—Cochrane District  
 CF-OBA—Sault Ste. Marie District  
 CF-OBB—Sioux Lookout District  
 CF-BGJ—Kapuskasing District  
 CF-BGM—Algonquin District  
 CF-BGN—Sioux Lookout District  
 CF-OBC—Sioux Lookout District  
 CF-OBD—Kenora District  
 CF-OBE—Port Arthur District  
 CF-OBF—Sudbury District  
 CF-OBG—Port Arthur District  
 CF-OBH—Sault Ste. Marie District  
 CF-OB I—Sioux Lookout District  
 CF-OB J—North Bay District  
 CF-OB L—Port Arthur District  
 CF-OB M—Fort Frances District  
 CF-OB N—Geraldton District  
 CF-OB O—Sudbury District

Fourteen Model 30, four frequency transmitters were constructed in the Department's shops, with distribution as follows:

Fort Frances District.....	1	Kapuskasing District.....	4
Kenora District.....	1	Cochrane District.....	1
Sioux Lookout District.....	1	North Bay District.....	1
Port Arthur District.....	2	Sault Ste. Marie District.....	1
Geraldton District.....	2		

Seventeen all-wave communication receivers were purchased for the above transmitters, and eight High Frequency tower trans-receivers obtained and distributed throughout the Algonquin District.

#### HAZARD DISPOSAL

A certain amount of hazard clearing was carried out. The fire guard at Larder Lake was extended by an additional 30 acre clearing and work was done on the fire guard at Biscotasing. Hazard clearing was carried out along the Nipigon-Beardmore Highway and along three roads in Sudbury and Gogama Districts.

#### INSECT CONTROL

The Forest Insect Laboratory at Sault Ste. Marie was in full operation during the year, the Department of Agriculture, Canada carrying on investigative work in forest entomology throughout the Province and administering the forest insect survey.

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TABLE No. 1  
NUMBER OF MEN ON DUTY INCLUDING CHIEF AND DEPUTY  
CHIEF RANGERS

	1946	1945	1944	1943	1942	1941	1940
April 1st.....	591	145	162	128	113	94	82
April 15th.....	591	309	169	141	141	129	116
May 1st.....	1108	596	477	264	633	461	362
May 15th.....	1111	720	718	559	896	791	709
June 1st.....	1240	740	923	856	1053	1009	1025
June 15th.....	1238	896	964	918	1095	1072	1080
July 1st.....	1280	840	947	964	1118	1081	1088
July 15th.....	1284	877	958	960	1147	1084	1092
Aug. 1st.....	1301	885	873	999	1086	1095	1093
Aug. 15th.....	1298	890	871	993	1072	1085	1094
Sept. 1st.....	1101	783	646	843	909	941	1022
Sept. 15th.....	1096	691	468	677	747	739	783
Oct. 1st.....	670	329	267	413	411	380	477
Oct. 15th.....	669	262	233	396	329	232	336
Oct. 31st.....	307	212	207	210	193	158	192

TABLE No. 2  
CLASSIFICATION OF FOREST FIRES  
By Month

Month	1946		1945		1944		1943		1942		1941		1940	
	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent
March.....	43	2.4	15	1.8										
April.....	140	8.3	134	13.8	128	11.2	15	2.4	286	23.3	85	6.7	103	10.2
May.....	248	14.2	182	18.8	352	30.8	188	30.7	102	8.3	398	31.5	122	12.0
June.....	298	17.3	121	12.7	112	8.8	33	5.2	137	11.4	273	21.6	112	11.0
July.....	404	23.2	160	16.5	253	20.2	96	15.3	235	19.3	331	26.2	227	22.4
August.....	104	23.2	318	32.9	233	23.9	86	13.7	287	23.4	124	9.9	282	27.8
September.....	117	6.7	26	2.6	16	1.4	20	3.2	61	4.9	52	4.1	108	10.7
October.....	83	4.7	9	0.9	37	3.2	186	29.5	116	9.4	2	0.2	60	5.9
November.....	2		1		6	0.5								
Totals.....	1739	100.0	966	100.0	1137	100.0	624	100.0	1224	100.0	1265	100.0	1014	100.0

TABLE No. 3  
CLASSIFICATION OF FOREST FIRES  
By Origin

Origin	1946		1945		1944		1943		1942		1941		1940	
	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent
Settlers.....	80	4.6	44	4.5	96	8.4	55	8.8	114	9.3	103	8.2	64	6.3
Campers.....	481	28.0	289	29.9	247	21.7	187	29.9	296	24.4	271	21.4	339	33.4
Railways.....	249	15.0	163	16.8	218	19.8	82	13.2	143	11.6	81	6.4	24	2.4
Lightning.....	303	18.0	121	12.6	185	16.2	100	16.0	195	15.9	278	22.0	212	20.9
Logging Operations.....	68	3.0	32	3.4	37	3.2	26	4.2	31	2.8	45	3.6	23	2.3
Mining Operations.....	11	0.6	3	0.3	1	.....	3	0.5	3	0.2	2	.....	5	0.5
Smokers.....	383	23.0	231	23.9	243	21.3	132	21.3	243	19.8	219	17.3	179	17.6
Road Construction.....	21	1.0	4	0.4	4	0.3	5	0.8	8	0.6	20	1.6	12	1.2
Incendiary.....	31	1.7	8	0.8	23	2.0	4	0.6	13	1.0	23	1.8	31	3.3
Prospectors.....	2	0.1	3	0.3	2	0.1	1	0.1	3	0.3	3	0.2	2	0.2
Miscellaneous.....	68	3.0	36	3.7	55	4.8	25	4.0	56	4.6	60	4.8	30	3.0
Unknown.....	42	2.0	32	3.4	26	2.2	1	0.6	116	9.5	160	12.7	90	8.9
Totals.....	1739	100.0	966	100.0	1137	100.0	624	100.0	1224	100.0	1265	100.0	1014	100.0

TABLE No. 1  
CLASSIFICATION OF FOREST FIRES  
By Size

Size	1946		1945		1944		1943		1942		1941		1940	
	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent
¼ Acre and under.....	490	28.3	211	21.8	241	22.1	155	24.8	276	22.5	278	22.0	224	22.1
Over ¼ to 5 acres.....	784	45.0	457	47.4	519	45.6	237	37.9	487	39.7	506	40.0	441	43.5
Over 5 to 10 acres.....	129	7.4	75	7.7	93	8.3	58	9.2	97	7.9	94	7.4	99	9.7
Over 10 to 100 acres.....	233	13.5	159	16.6	211	18.5	108	17.4	244	19.9	235	18.6	170	16.8
Over 100 to 500 acres.....	78	4.5	43	4.4	47	3.4	41	6.5	86	7.2	89	7.0	56	5.5
Over 500 to 1000 acres.....	13	0.7	11	1.1	7	0.6	15	2.5	20	1.6	23	1.8	10	1.0
Over 1000 to 10,000 acres.....	12	0.6	10	1.0	17	1.4	10	1.7	13	1.2	32	2.5	10	1.0
Over 10,000 acres.....					2	0.1			1		8	0.7	4	0.4
Totals.....	1739	100.0	966	100.0	1137	100.0	624	100.0	1224	100.0	1265	100.0	1014	100.0

TABLE No. 5  
CLASSIFICATION OF AREA BURNED OVER—1946  
By Month

District	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Total
	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres	Acres
Sioux Lookout			196	6,938	9	411	131			7,685
Kenora		145	8,061	539	706	1,191	858	1		11,501
Fort Frances		40	18	147	538	1,921	138			2,802
Port Arthur		200	520	9,879	824	127	30	5		11,585
Geraldton			12	621	1,052	13	3	1		1,702
Kapuskasing			17	25	6	12	120			180
Cochrane	6	19	1,174	1,817	50	472	3	18		3,559
Sault Ste. Marie	198	325	284	1,414	326	3,828	2	325		6,702
Sudbury	124	872	1,343	2,406	3,166	949	163	639		9,662
Chapleau			15	44	28			6		93
Gogama	3	3	4	4		1		1		16
North Bay		381	763	1,462	49	415	5	297		3,372
Parry Sound	3	78	211	15	12,195	1,341	52	408		14,303
Algonquin	25	12	303	18	13	184	8	597		1,160
Twedd	62	209	159	9	1,772	223	7	6		2,447
Total	421	2,284	13,080	25,338	20,734	11,088	1,520	2,304		76,769

**FOREST FIRES IN ONTARIO**  
FROM 1930 TO 1946

NUMBER OF FIRES

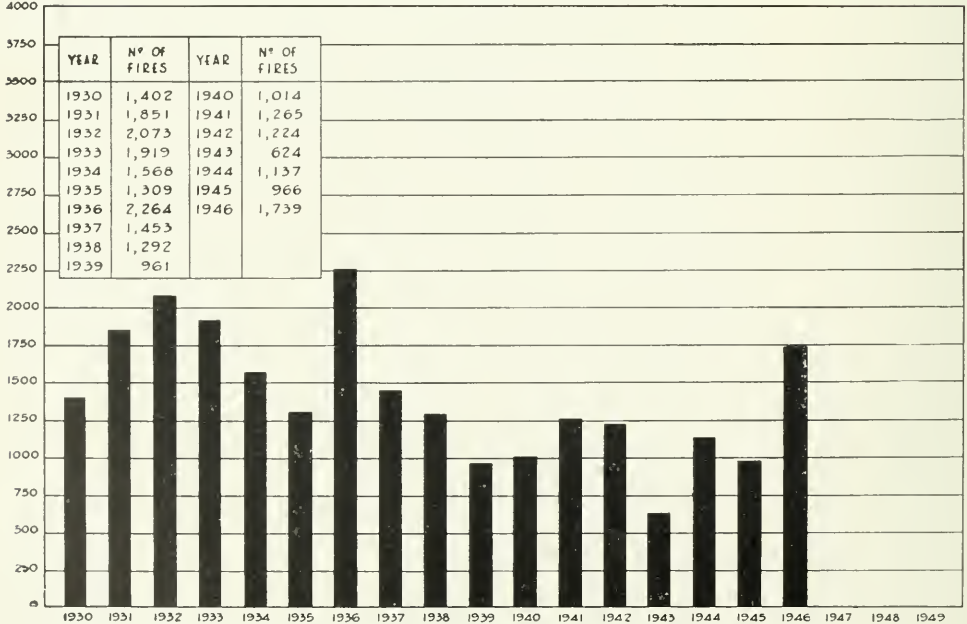




TABLE No. 6  
CLASSIFICATION OF AREA BURNED OVER—1946

By Origin

Districts	Settlers Acres	Campers Acres	Rail- ways Acres	Light- ning Acres	Log- ging Acres	Mining Acres	Smokers Acres	Road Con- struc- tion Acres	Incon- diary Acres	Pros- pectors Acres	Miscel- laneous Acres	Un- known Acres	Total Acres
Sioux Lookout.....	.....	40	3	3,330	3,365	231	39	407	.....	.....	22	218	7,685
Kenora.....	744	1,236	8,043	792	13	.....	665	.....	8	.....	.....	.....	11,501
Port Frances.....	149	31	5	2,125	.....	.....	486	.....	.....	.....	.....	6	2,802
Port Arthur.....	25	364	16	9,476	1,198	.....	155	347	.....	4	.....	.....	11,585
Geraldton.....	.....	6	1	7	565	5	991	.....	.....	.....	104	23	1,702
Kapuskasing.....	10	3	.....	.....	124	6	37	.....	.....	.....	.....	.....	180
Cochrane.....	653	725	16	.....	993	1	936	1	62	.....	172	.....	3,539
Sault Ste. Marie.....	250	459	168	1,014	505	.....	3,840	.....	23	.....	81	332	6,702
Sudbury.....	200	4,800	501	131	18	10	3,767	3	210	.....	21	1	9,662
Chapleau.....	.....	3	11	28	38	.....	5	8	.....	.....	.....	.....	93
Gogama.....	.....	1	2	2	.....	2	6	.....	.....	.....	3	.....	16
North Bay.....	359	308	11	1,744	226	1	492	.....	1	.....	121	49	3,372
Parry Sound.....	156	12,783	135	157	5	.....	432	.....	186	.....	148	1	14,303
Algonquin.....	3	693	69	206	3	.....	183	.....	.....	.....	.....	3	1,160
Tweed.....	128	386	125	1,588	32	.....	75	107	.....	.....	1	5	2,447
Totals.....	2,677	21,898	9,406	20,630	7,085	256	12,109	873	490	4	673	668	76,769

TABLE No. 7  
CLASSIFICATION OF FOREST AREAS BURNED OVER—1946  
By Forest Type

Districts	No. of Fires	1C Mature Growth		2C Second Growth		3C Young Growth		3H Hard-wood	1 Slab Not re-stocking	5 Old Burn Not re-stocking	6 Muskeg	7 Barren	8 Grass	Total (Acres)
		Coniferous	Hard-wood	Coniferous	Hard-wood	Coniferous	Hard-wood							
Sioux Lookout.....	91	2,936	504	265	20	3,016	13	424	485	17	2	3	7,685	
Kenora.....	160	2,663	509	1,971	8	3,587	666	1,373	611	8	63	42	11,501	
Fort Frances.....	66	411	.....	525	.....	262	571	432	72	360	52	117	2,802	
Port Arthur.....	102	2,676	9	176	17	6,439	46	1,319	187	423	6	287	11,585	
Geraldton.....	49	5	4	51	1	4	4	907	707	1	2	16	1,702	
Kapuskasing.....	18	13	.....	3	.....	.....	.....	138	11	.....	.....	15	180	
Cochrane.....	140	150	336	16	.....	458	26	1,476	258	2	36	801	3,559	
Sault Ste. Marie.....	142	51	350	66	64	40	122	1,793	522	16	196	482	6,702	
Sudbury.....	275	38	21	646	238	663	745	891	3,158	339	1,343	1,580	9,662	
Chapleau.....	16	25	4	5	16	5	.....	29	.....	.....	.....	9	93	
Gogama.....	24	1	.....	2	.....	.....	1	4	.....	1	2	5	16	
North Bay.....	108	91	24	1,135	457	173	169	613	354	28	3	295	3,372	
Parry Sound.....	292	50	152	1,897	797	338	2,655	223	2,138	2,695	2,022	1,336	14,303	
Algouquin.....	85	66	282	208	70	27	382	5	1	1	.....	118	1,160	
Tweed.....	171	2	.....	274	452	175	633	70	43	.....	560	238	2,447	
Totals.....	1,739	9,178	2,195	7,240	2,140	15,187	6,033	12,727	8,547	3,891	4,287	5,344	76,769	
1945—Totals.....	966	4,608	605	2,690	1,398	4,882	1,648	5,891	9,916	1,774	4,791	7,304	48,510	
1944—Totals.....	1,137	9,981	3,255	50,564	9,365	9,158	10,546	47,849	14,043	2,816	6,125	4,989	168,891	
1943—Totals.....	624	3,968	3,100	3,213	4,024	7,824	12,211	8,450	5,746	181	654	2,816	52,817	
1942—Totals.....	1,224	32,157	2,083	14,336	4,010	7,313	9,171	8,993	24,161	2,172	3,361	5,956	113,716	
1941—Totals.....	1,265	221,362	50,793	33,035	20,702	55,690	22,341	150,422	86,837	10,469	5,257	9,639	666,547	
1940—Totals.....	1,014	11,588	1,809	23,130	5,678	29,661	6,719	17,574	20,354	1,346	903	2,852	121,614	

TABLE NO. 8  
CLASSIFICATION OF LAND BURNED OVER—1946  
By Ownership

District	Crown Land	Private Land	Totals	
	Area in Acres	Area in Acres	No. of Fires	Area in Acres
Sioux Lookout	7,376	309	91	7,685
Kenora	9,383	2,118	160	11,501
Fort Frances	2,582	220	66	2,802
Port Arthur	878	10,707	102	11,585
Geraldton	1	1,701	49	1,702
Kapuskasing	142	38	18	180
Cochrane	1,988	1,571	140	3,559
Sault Ste. Marie	5,655	1,047	142	6,702
Sudbury	2,432	7,230	275	9,662
Chapleau	29	64	16	93
Gogama	13	3	24	16
North Bay	436	2,936	108	3,372
Parry Sound	10,687	3,616	292	14,303
Algonquin	1,131	29	85	1,160
Tweed	1,923	524	171	2,447
Totals	44,656	32,113	1,739	76,769

### ACREAGE BURNED BY FOREST FIRES IN ONTARIO FROM 1930 TO 1946

THOUSANDS  
OF ACRES.

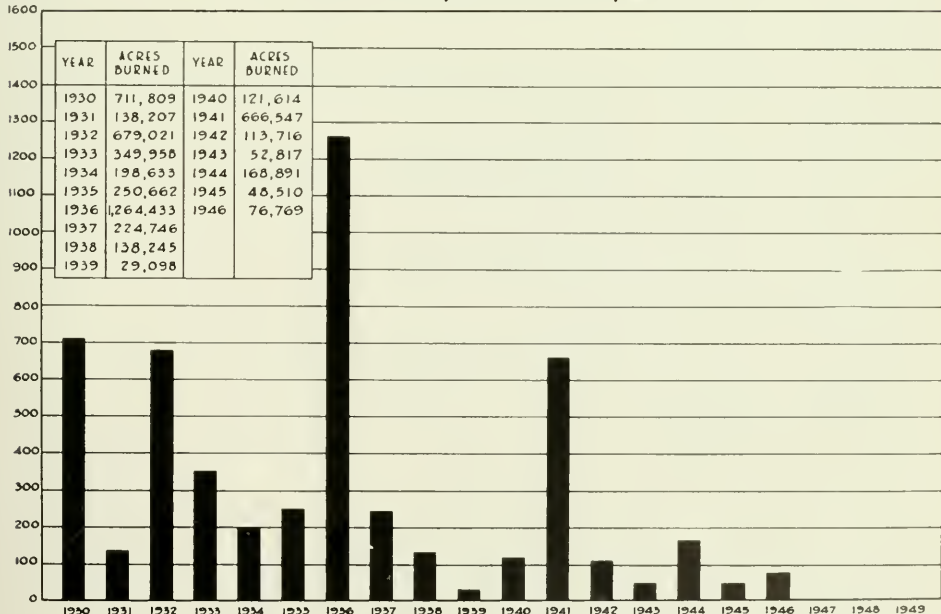


TABLE No. 9  
MAJOR EQUIPMENT PURCHASED AND IN USE

	Portable Hand Pumps		Fire Fighting Units		Fire Fighting Hose (in feet)		Tents		Blankets (pairs)		Canoes		Motor Boats		Auto Trucks		Railway Motor Cars		Velocipedes		Out-board Motors		Binoculars	
	Purchased 1946	Total now in use	Purchased 1946	Total now in use	Purchased 1946	Total now in use	Purchased 1946	Total now in use	Purchased 1946	Total now in use	Purchased 1946	Total now in use	Purchased 1946	Total now in use	Purchased 1946	Total now in use	Purchased 1946	Total now in use	Purchased 1946	Total now in use	Purchased 1946	Total now in use	Purchased 1946	Total now in use
Kenora.....	15	193	71	5500	208250	6	97	50	1048	4	83	8	11	3	11	1	1	7	41	1	7	18	29	
Sioux Lookout.....	25	351	2	20000	293100	128	70	123212	9	109	3	10	6	3	6	1	5	5	27	10	5	27	1	
Fort Frances.....	1	69	2	9000	112100	6	48	50	122	8	57	3	6	2	6	1	1	10	36	1	10	36	1	
Port Arthur.....	1	268	2	6000	235600	33	130	257	1538	16	71	2	18	7	18	1	10	29	10	29	2	10	2	
Geraldton.....	386	356	63	20000	177600	19	118	175	641	11	55	2	2	2	2	1	1	2	17	2	1	2	5	
Kapuskasing.....	355	38	38	3500	86900	1	65	105	176	18	56	1	11	2	11	2	2	7	2	15	8	22	5	
Cochrane.....	608	335	52	27500	120000	3	44	24	658	16	64	1	3	1	20	4	4	7	9	24	2	7	7	
South St. Marie.....	1	335	2	20500	165300	5	151	110	1334	15	96	1	15	1	15	1	1	2	9	24	6	21	21	
Sudbury.....	6	166	3	11500	100750	10	121	724	780	4	75	3	5	3	16	2	2	1	9	13	3	18	18	
North Bay.....	12	229	3	9000	128150	7	150	7	506	10	88	3	9	3	23	1	1	6	16	37	1	23	3	
Gogama.....	60	95	28	10500	23650	17	53	17	539	10	57	3	3	3	6	2	6	2	3	15	1	8	8	
Chapleau.....	101	101	20	52100	52100	2	59	267	267	3	58	1	12	1	5	3	3	1	11	5	1	11	11	
Parry Sound.....	86	195	4	17000	69000	1	29	5912	4012	6	50	1	9	1	19	1	1	2	15	8	12	12	8	
Algonguin.....	1	172	26	8000	77100	20	79	1612	946	8	71	1	2	2	7	1	6	2	21	1	21	1	13	
Trent.....	51	51	10	12000	13000	1	1	79	79	12	12	1	4	1	8	1	1	2	1	10	3	15	6	
Quinte.....	50	208	11	2500	16700	10	28	62	279	21	21	1	1	1	10	1	1	5	19	3	15	22	2	
Rideau.....	1	1	1	5000	5000	1	1	1	1	1	1	1	1	1	3	1	3	1	6	6	6	3	3	
Lake Simcoe.....	11	11	1	5000	5000	1	1	1112	1112	1	1	1	2	2	2	2	2	2	2	2	2	2	1	
Lake Huron.....	1	1	1	3000	3600	3	3	212	112	1	1	1	2	2	2	2	2	2	2	2	2	2	1	
Lake Erie.....	89	89	9	23000	23000	1	1	500	500	2	2	2	1	1	1	1	1	1	1	1	1	1	1	
Western Region.....	25	25	6	12000	12000	1	1	60	60	1	1	1	7	7	20	20	20	20	20	20	20	20	20	
Northern Region.....	111	111	7	10000	10000	10	10	208	208	12	12	2	2	2	2	2	2	2	2	2	2	2	2	
Central Region.....	12	12	2	6000	6000	1	1	511	511	12	12	1	1	1	1	1	1	1	1	1	1	1	1	
Ranger School.....																								
Head Office.....																								
Totals.....	288	4141	20	729	195500	1921800	126	1324	1705	12164	113	1044	10	57	73	201	3	17	98	61	363	66	229	

TABLE No. 10  
STATEMENT OF TRAVEL PERMITS ISSUED

District	1946		1945		1944		1943		1942		1941		1940	
	Permits	Persons	Permits	Persons	Permits	Persons	Permits	Persons	Permits	Persons	Permits	Persons	Permits	Persons
	Sioux Lookout	1,519	4,543	570	1,642	510	1,923	373	1,278	662	2,225	1,107	3,175	1,185
Kenora	1,062	4,295	831	3,119	541	2,427	493	1,298	50	178	68	234	66	269
Fort Frances	1,428	11,930	312	1,639	494	1,463	135	506	267	861	381	1,377	254	1,078
Port Arthur	9	14	2	2	5	5	40	60	12	12	.....	.....	.....	.....
Geraldton	96	192	45	103	43	92	51	113	100	222	84	155	55	113
Kapuskasing	3,106	15,228	3,681	16,698	1,472	6,535	1,026	1,974	1,012	4,502	1,091	3,549	1,045	3,060
Cochrane	3,341	11,223	1,843	6,027	1,087	3,680	926	2,970	1,478	4,674	2,707	8,402	1,982	6,320
Sault Ste. Marie	1,819	4,982	1,370	4,541	1,077	3,191	897	2,843	1,270	3,908	1,482	1,848	1,524	4,900
Sudbury	434	1,583	2,167	6,507	1,851	6,399	1,543	5,505	2,438	4,919	3,128	10,677	3,787	13,066
Chapleau	531	1,833	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gogama	3,941	13,280	6,430	15,854	6,430	15,854	5,520	9,020	1,069	3,224	1,305	3,898	264	658
North Bay	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Parry Sound	18,178	43,078	9,569	29,804	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Algonquin	.....	.....	20,393	70,085	13,510	41,569	11,001	28,567	8,358	24,725	11,353	36,315	10,162	33,350
Tweed	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	35,791	112,191	20,393	70,085	13,510	41,569	11,001	28,567	8,358	24,725	11,353	36,315	10,162	33,350

TABLE No. 11  
STATEMENT OF WORK PERMITS ISSUED 1946-47

District	Mining Operations		Woods Operations		Miscellaneous Operations		Totals	
	No. of Permits	Men Engaged	No. of Permits	Men Engaged	No. of Permits	Men Engaged	No. of Permits	Men Engaged
	Sioux Lookout.....	287	1,750	48	2,073	13	211	318
Kenora.....	25	147	87	1,417	13	56	125	1,620
Fort Frances.....	21	97	22	917	.....	.....	43	1,014
Port Arthur.....	87	390	293	3,457	12	540	392	4,387
Geraldton.....	85	392	78	5,143	23	2,918	186	8,453
Kapuskasing.....	10	55	141	4,991	.....	.....	151	5,046
Cochrane.....	521	2,086	314	16,667	14	293	882	19,646
Sault Ste. Marie.....	55	776	148	4,126	4	20	207	4,922
Sudbury.....	50	263	128	1,890	.....	.....	178	2,153
Chapleau.....	18	107	41	5,800	5	37	64	5,941
Gogama.....	95	601	44	1,361	1	7	140	1,969
North Bay.....	250	1,336	200	1,958	.....	.....	450	3,294
Parry Sound.....	6	41	88	1,600	.....	.....	94	1,641
Algonquin.....	2	6	78	1,346	8	310	88	1,662
Tweed.....	17	90	131	1,471	.....	.....	148	1,561
Totals.....	1,532	8,737	1,871	54,217	93	4,392	3,496	67,346
1945-1946.....	1,209	6,611	1,520	39,496	70	1,173	2,799	47,280
1944-1945.....	1,047	4,702	915	29,047	211	1,178	2,173	34,927
1943-1944.....	750	3,507	990	29,292	532	1,641	2,272	34,440
1942-1943.....	761	3,633	868	34,463	197	2,098	1,826	40,194
1941-1942.....	1,285	6,048	834	35,043	132	4,988	2,251	46,079
1940-1941.....	1,760	8,817	816	34,934	108	2,975	2,684	46,726

TABLE NO. 12  
STATEMENT OF FIRE PERMITS ISSUED

District	Number of Permits						
	1946	1945	1944	1943	1942	1941	1940
Sioux Lookout.....	217	77	71	137	123	232	215
Kenora.....	671	488	447	530	470	376	791
Fort Frances.....	136	140	90	75	195	203	300
Port Arthur.....	1,246	631	614	554	529	563	1,671
Geraldton.....	289	76	99	60	101		
Kapuskasing.....	1,174	635	226	261	1,677	947	2,757
Cochrane.....	1,944	1,676	1,258	1,241	2,555	2,275	3,397
Sault Ste. Marie.....	248	984	117	154	217	288	361
Sudbury.....	1,053	627	998	1,052	979	886	1,436
Chapleau.....	70						
Gogama.....	102						
North Bay.....	1,004	74	784	834	1,129	1,458	2,885
Parry Sound.....	442	205	210	174	300	306	303
Algonquin.....	125	69	88	42	74	124	178
Tweed.....	219	82	104	128	193	175	228
Totals.....	8,940	5,764	5,106	5,242	8,542	7,833	14,522

TABLE NO. 13  
MEANS OF FIRE DETECTION—1946

District	No. of fires detected by				Total No. of Fires
	Air Service	Towers	Rangers	Public	
Sioux Lookout.....	29	26	14	22	91
Kenora.....	47	43	25	45	160
Fort Frances.....	18	20	7	21	66
Port Arthur.....	17	33	13	39	102
Geraldton.....	12	10	5	22	49
Kapuskasing.....	.....	8	3	7	18
Cochrane.....	10	58	43	29	140
Sault Ste. Marie.....	15	27	28	72	142
Sudbury.....	11	113	40	111	275
Chapleau.....	2	7	1	6	16
Gogama.....	3	6	2	13	24
North Bay.....	6	30	32	40	108
Parry Sound.....	18	78	32	164	292
Algonquin.....	9	18	10	48	85
Tweed.....	.....	138	5	28	171
Totals.....	197 11.3%	615 35.3%	260 15.0%	667 38.4%	1,739 100%



TABLE No. 14  
FIRE DAMAGE TABLE—1946

District	Sawlogs		Pulpwood		Ties		Fuelwood		Cedar Posts		Cedar Poles		Protection Charges		Total Timber Damage	Property Damage
	E. B. M.	¢	Cords	¢	No.	¢	Cords	¢	No.	¢	No.	¢	Mature Timber	Young Growth		
Sioux Lookout.....	7,800	19.50	3,130	3,321.00			2,767	1,101.75					4,909.75	20.41	9,372.41	8,600.00
Kenora.....	117,400	290.40	185	254.10	100	10.00	3,389	1,257.25	100	2.00	28	21.00	5,133.75	4,307.00	11,495.50	12,842.50
Port Frances.....	114,000	285.00	378	177.90	500	50.00							926.20	15.40	1,454.50	500.00
Port Arthur.....	13,082,500	30,900.25	3,807	5,070.80	127	12.70	2,292	1,030.95					4,255.89	705.07	41,975.66	47,678.00
Geraldton.....			100	140.00			356	146.65					510.92	2.59	800.16	63,977.18
Kapuskasing.....			71	86.10	50	5.00	125	75.00					15.85		181.95	18,279.25
Cochrane.....	4,825	10.06	420	507.20			1,257	802.80					13.11	100.27	1,433.44	12,048.80
Sault Ste. Marie.....	48,000	115.00	131	140.40	112	11.20	350	175.00			600	150.00	600.80		1,192.40	7,504.00
Sudbury.....	120,100	298.05	221	118.90			1,203	438.15	115	2.30			494.29	262.06	1,614.05	7,896.50
Chapleau.....	20,975	56.44	185	258.30			67	45.75							360.19	
Gogama.....	300	2.40	27	31.10									2.18	.58	36.26	10,550.00
North Bay.....	180,100	439.95	565	391.00			5,507	1,496.25					711.22	87.81	3,126.23	43,650.00
Parry Sound.....	86,800	181.80	2,725	1,121.50	100	10.00	2,989	1,494.50					1,800.91	954.33	5,563.01	38,273.70
Algonquin.....	114,746	334.51	5	2.00			196	145.50					402.68	84.03	968.72	50.00
Tweed.....	229,800	2,101.75	129	176.40			699	368.80					76.05	526.42	3,249.42	1,200.00
Totals.....	14,127,346	35,035.11	12,079	11,796.70	989	98.90	21,197	8,578.65	215	4.30	628	171.00	19,873.60	7,265.97	82,824.23	273,049.93



BEAUTIFUL COTTAGE SITES ARE AVAILABLE ON CROWN LANDS.

## DIVISION OF LAND AND RECREATIONAL AREAS

The volume of work completed in connection with certain phases of land administration increased during the last fiscal year, as will be seen by the tables and graphs forming part of this Section. This is due to more advanced methods of administration, a properly trained staff, and improved inspection facilities. More rapid handling of current transactions and a continued increase in the number of long outstanding cases brought to a satisfactory conclusion have been gratifying.

*Summer Resort Lands*

Sales of summer resort lands, for both private and commercial use, increased over an all-time high during the fiscal year 1945-46, and although the number of patents issued also increased, the increase would have been considerably greater had it been possible to secure the services of Ontario Land Surveyors to do the necessary survey work.

*Agricultural and Allied Uses*

An increase in the number of transactions completed involving lands for special use, agricultural lands in sale townships, and agricultural lands in free grant townships, collectively, is shown. It was expected that the sale of land for this purpose would decrease, in that it was assumed that the demand would fall off, due to continued favorable economic conditions. The large percentage of sales and patents completed, especially under the special use section, is the result directly of improved methods of administration, inspection facilities, and more efficiently trained staff, as stated above.

*Provincial Parks*

There was no change made in the status of Provincial Parks, of which there are six, as follows:

Algonquin.....	2,741 Sq. Miles
Quetico.....	1,720 Sq. Miles
Rondeau.....	8 Sq. Miles
Lake Superior.....	540 Sq. Miles
Sibley.....	63 Sq. Miles
Ipperwash Beach.....	109 Acres

*Veterans' Lands*

An agreement was concluded between the Dominion and Provincial Governments, which became effective on April 10th, 1966, and which provides for the establishment of qualified veterans on Crown lands in Ontario. The agreement is generally known as "The Ontario Dominion-Provincial Agreement" and it was made under and by virtue of Section 35 of the Veterans' Land Act (Dominion) 1942. The Provincial Government is responsible under the agreement for the allocation of Provincial lands, providing inspection reports and extending all services ordinarily provided for persons other than veterans. At the close of the first year of operation, agreements for sale and licenses of occupation, completed, total nineteen. Twelve applications are pending, and two were cancelled. These transactions are summarized in the table included herein. It is expected that the number of cases which will be referred to this Department for consideration during the ensuing year will be considerably increased. The opportunities available to qualified veterans have been more fully advertised, resulting in steadily increasing interest to participate, particularly due to the fact that the

assistance granted is not repayable; payment of purchase price of land in the case of first-land application is waived by the Province, and in the case of the veteran, who has actively served in the armed services overseas, or one full year in Canada, and has resumed residence and settlement duties, he is absolved from payment of all amounts of principal and interest which may be owing in respect of land purchase price and improvement charges.

### *Tourist Outfitters' Camps*

A prosperous tourist trade during the 1945 season, exceeding the pre-war volume, served to stimulate the growing interest in post-war expansion. Whereas the erection of 149 new camps was authorized the previous year, over 400 applications for permits were considered in 1946, of which 328 were granted as at March 31st, 1947. There was also much activity in the rehabilitation and expansion of established camps. The acute shortage of basic building materials did, however, retard the anticipated expansion in the industry, as only 171 new camps were completed and licensed to operate. 856 current licenses were issued, an annual increase of 35%, including 51 camps which had not operated during the war. 111 licenses were issued at a non-resident fee of \$25.00 each, and 745 at a resident fee of \$10.00 each. (See table).

## STATISTICAL TABLES AND GRAPHS

Transactions for the fiscal year ending March 31, 1947.

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TABLE No. 1  
Summary of transactions under  
THE ONTARIO DOMINION-PROVINCIAL AGREEMENT

First lands.....	8
Conversion from former sales or locations.....	10
Licence of Occupation.....	1
Awaiting survey only.....	6
Before the Department for consideration.....	6
Applications cancelled.....	2
A Total of.....	33

TABLE No. 2  
TOURIST OUTFITTERS' CAMP LICENCES  
Summary by Districts  
— 1946 —

District	Licensed Camps
Algoma.....	120
Cochrane.....	11
Kenora.....	196
Manitoulin.....	73
Nipissing.....	120
Parry Sound.....	164
Patricia.....	5
Rainy River.....	35
Renfrew.....	15
Sudbury.....	78
Timiskaming.....	12
Thunder Bay.....	27

TABLE NO. 3  
 AGRICULTURAL LAND  
 Transactions for the fiscal year ending March 31, 1947

Administrative District	District Forester	Sales		Cancellations		Assignments		Patents	
		No.	Acres	No.	Acres	No.	Acres	No.	Acres
Algonquin.....	G. H. R. Phillips	16	1282.00	3	187.00	2	200.00	20	2046.92
Cochrane.....	A. S. Bray.....	32	2596.42	71	5720.58	62	6190.09	84	9145.05
Fort Frances...	G. Delahey....	29	2781.50	14	490.05	4	393.50	16	1333.38
Geraldton.....	U. W. Fiskar...			1	51.00	3	53.25	1	50.30
Kapuskasing...	E. L. Ward....	20	1514.42	105	9109.45	38	3484.72	51	5424.51
Kenora.....	G. F. Meyer....	20	2132.81	13	697.87	7	983.75	11	955.03
Main Office.....	Main Office...							3	253.50
North Bay.....	T. E. Sider....	26	2583.41	58	5474.06	37	3717.28	50	5272.75
Parry Sound...	R. L. Snow....	8	764.00	1	1.00			14	1417.00
Port Arthur...	R. Boulbee....	36	4362.70	40	4072.75	20	2523.00	50	6862.56
Sault Ste. Marie	A. Leman.....	1	136.50	2	223.50	2	174.50	10	883.23
Sioux Lookout..	K. Acheson...					1	79.75		
Sudbury.....	T. Thorpe....	48	5607.79	25	2895.59	35	3692.64	46	5233.99
Tweed.....	A. Crealock...	66	5995.67	5	548.00	11	1309.50	77	13311.47
Totals.....		303	29757.22	338	29470.85	222	22801.99	433	52189.69

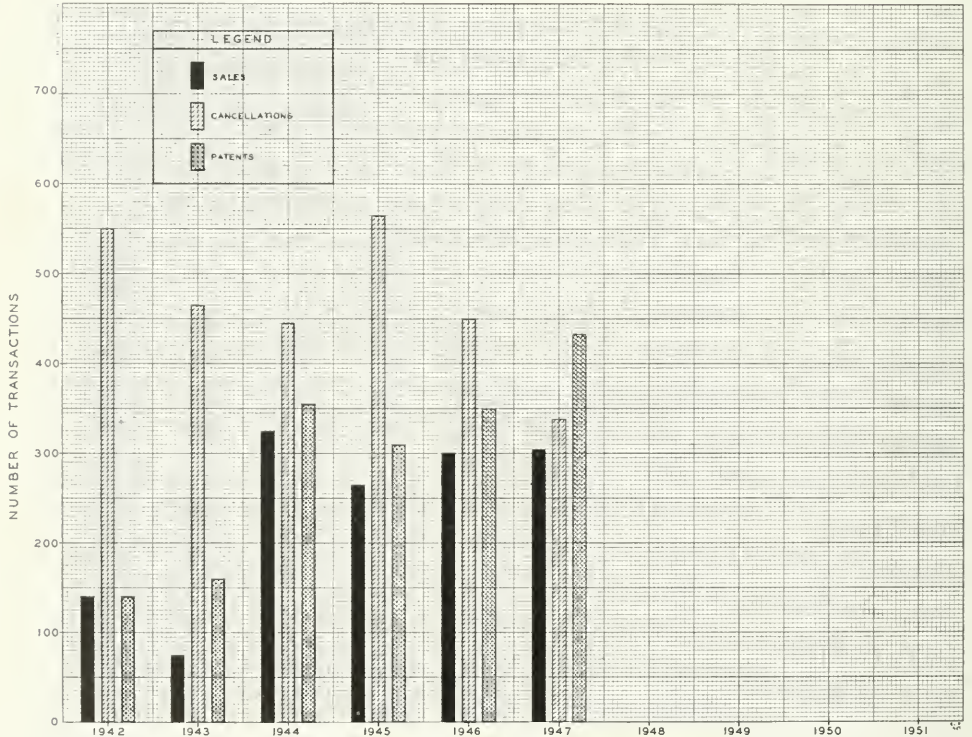


Fig. 1—AGRICULTURAL LAND IN SALE TOWNSHIPS.

TABLE No. 4  
FREE GRANT LAND (including soldiers' land)  
Transactions for the fiscal year ending March 31, 1947

Administrative District	District Forester	Locations		Cancellations		Assignments		Patents	
		No.	Acres	No.	Acres	No.	Acres	No.	Acres
Algonquin.....	G. H. R. Phillips	5	462.00	31	3029.99	1	152.00	9	816.31
Cochrane.....	A. S. Bray....	9	711.03	9	943.25	4	384.83	6	501.50
Fort Frances...	G. Delahey...	6	688.62	53	7374.00	12	1864.75	26	3797.00
Kapuskasing...	E. L. Ward....	1	102.00	3	225.50	1	100.00		
Kenora.....	G. F. Meyer...	14	1765.75	39	4914.55	26	3211.35	30	4299.12
Lindsay.....	A. B. Wheatley			2	270.00	1	95.00		
North Bay.....	T. E. Sider....	7	609.00	108	12202.18	11	1079.75	17	1692.72
Parry Sound...	R. L. Snow....	5	493.00	28	3310.71	7	890.50	16	2106.00
Port Arthur...	R. Boulton...	11	1640.50	60	7722.75	23	3361.24	38	5127.46
Sault Ste. Marie	A. Leman.....			1	80.00			1	127.00
Sioux Lookout..	K. Acheson...			1	160.00	3	317.75		
Sudbury.....	T. Thorpe....	10	1319.00	15	1759.59	14	2125.25	23	2972.86
Tweed.....	A. Crealock...	5	453.00	99	9914.00	19	1941.50	2	228.80
Totals.....	.....	73	8243.90	449	51906.52	122	15523.92	168	21668.77

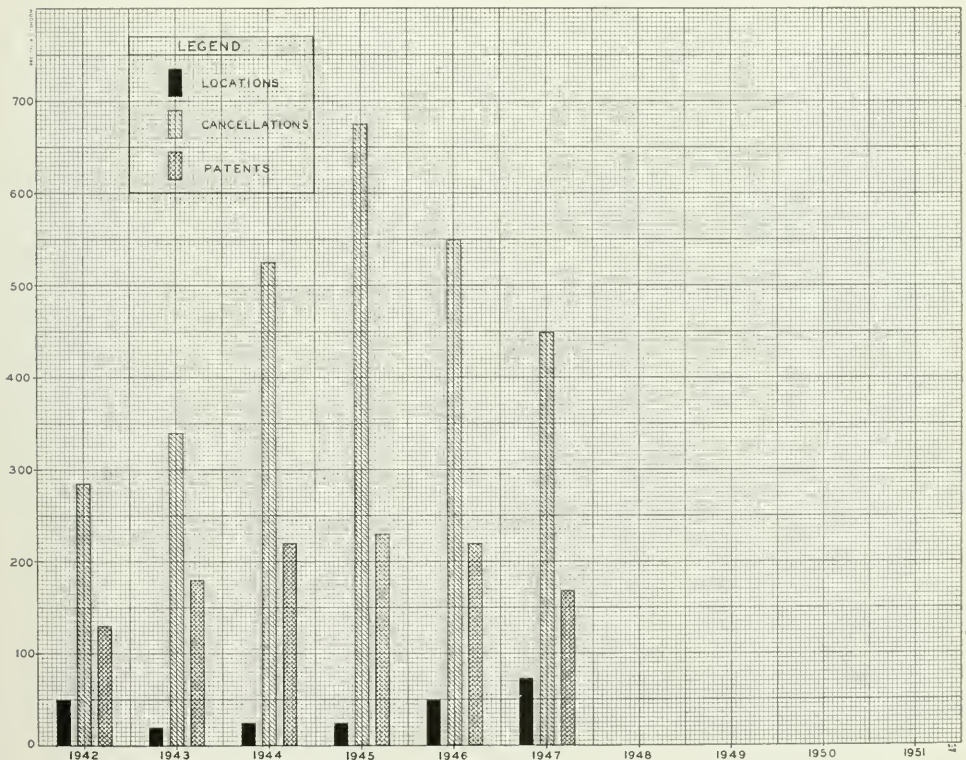


Fig. 2—AGRICULTURAL LAND IN FREE GRANT TOWNSHIPS  
(including soldiers' land).

TABLE No. 5  
LAND FOR SPECIAL USE  
Transactions for the fiscal year ending March 31, 1947

Administrative District	District Forester	Sales		Cancellations		Assignments		Patents	
		No.	Acres	No.	Acres	No.	Acres	No.	Acres
Algonquin.....	G. H. R. Phillips	19	863.02					15	60.59
Cochrane.....	A. S. Bray....	4	308.05			1	3.59	1	1.00
Chapleau.....	F. J. Dawson..	2	106.17						
Fort Frances..	G. Delahey...	8	504.15					3	284.50
Geraldton.....	U. W. Fiskar..	3	149.70					9	5891.78
Kapuskasing...	E. L. Ward....	1	75.00						
Kenora.....	G. F. Meyer...	9	246.82					19	398.19
Main Office....	Main Office...	28	609.04					23	727.89
North Bay.....	T. E. Sider....	14	788.07			3	121.61	5	176.40
Parry Sound...	R. L. Snow....	17	376.52					11	68.30
Port Arthur...	R. Boulton...	4	3076.80					4	401.26
Sault Ste. Marie	A. Leman.....	7	176.82					10	141.80
Sioux Lookout..	K. Acheson...	8	92.93			1	6.82	1	.23
Sudbury.....	T. Thorpe....	27	1600.13			1	2.03	13	761.70
Tweed.....	A. Crealock...	60	5320.71					31	4359.35
Totals.....		211	14293.96			6	134.05	145	13272.99

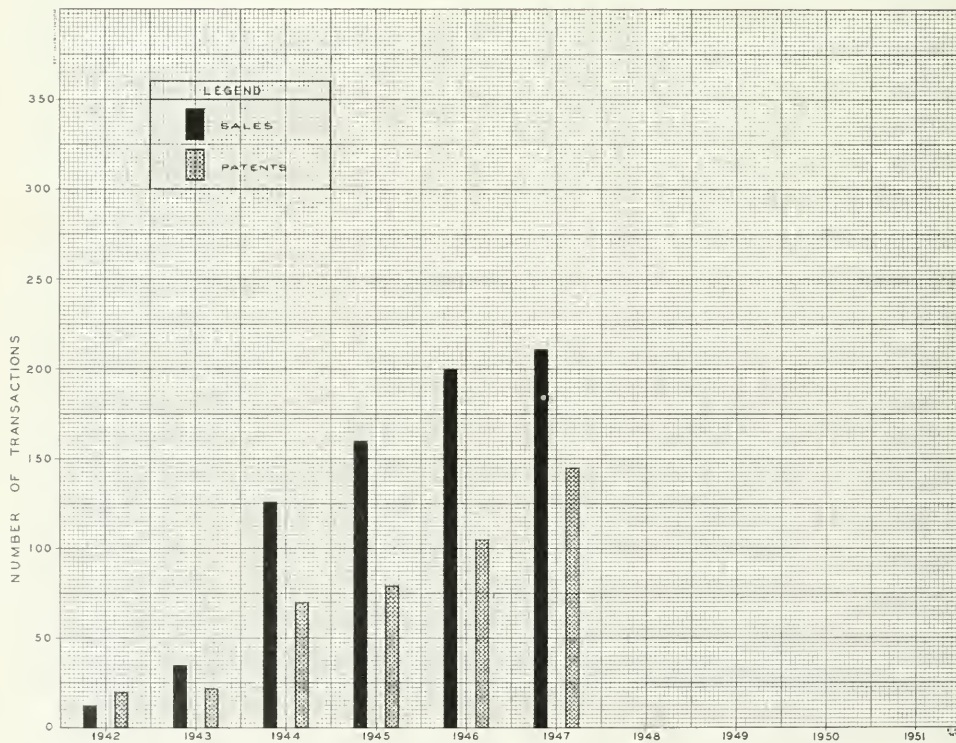


Fig. 3—LANDS FOR SPECIAL USE.



TABLE NO. 6  
SUMMER RESORT LANDS  
Transactions for the fiscal year ending March 31, 1947

Administrative District	District Forester	Sales		Cancellations		Assignments		Patents	
		No.	Acres	No.	Acres	No.	Acres	No.	Acres
Algonquin.....	G. H. R. Phillips	19	41.44			3	5.30	5	12.44
Cochrane.....	A. S. Bray.....	7	8.62			1	0.66	1	.66
Fort Frances...	G. Delahey....	31	121.04	1	0.33			43	206.63
Geraldton.....	U. W. Fiskar...	5	16.48					4	13.42
Gogama.....	J. Taylor.....	2	0.96						
Kapuskasing...	E. L. Ward.....	5	3.10			1	5.09		
Kenora.....	G. F. Meyer....	123	285.99	1	.60	5	8.30	123	306.97
Main Office....	Main Office....	2	0.81					5	19.52
North Bay.....	T. E. Sider....	96	247.74	1	2.16	6	15.33	44	140.68
Parry Sound...	R. L. Snow....	97	275.90	1	1.3	6	14.10	60	201.97
Port Arthur...	R. Boulton....	37	113.23					36	358.30
Sault Ste. Marie	A. Leman.....	74	237.45			4	9.83	31	86.44
Sioux Lookout..	K. Acheson...	4	15.56			1	3.4	7	29.64
Sudbury.....	T. Thorpe....	114	369.02	1	0.38	7	120.94	88	296.91
Tweed.....	A. Crealock...	51	103.88	1	2.00	3	3.36	49	91.37
Totals.....		666	1841.25	6	6.77	37	186.31	496	1764.95

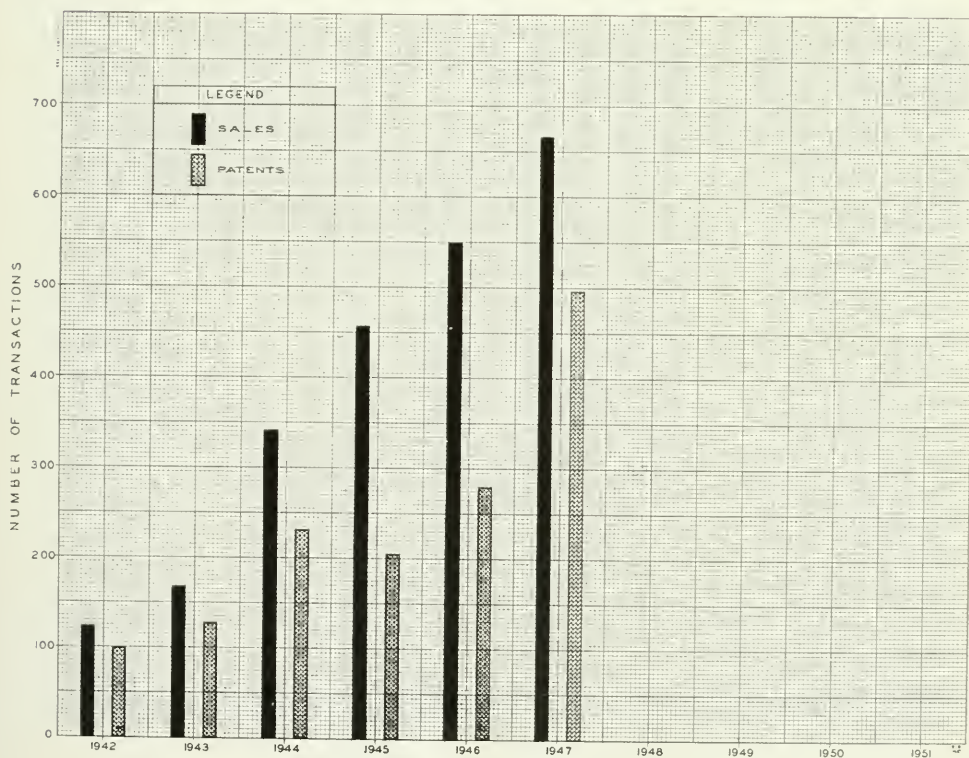


Fig. 4—SUMMER RESORT LANDS.

TABLE No. 7  
CITIES, TOWNS AND TOWNSITES  
Transactions for the fiscal year ending March 31, 1947

Administrative District	District Forester	Sales		Cancellations		Assignments		Patents	
		No.	Acres	No.	Acres	No.	Acres	No.	Acres
Algonquin.....	G. H. R. Phillips	1	2.00			2	.65	1	2.00
Cochrane.....	A. S. Bray.....	33	29.90			7	1.49	26	13.02
Fort Frances.....	G. Delahey.....							1	2.10
Geraldton.....	U. W. Fiskar.....	18	2.85			1	.17	19	2.71
Gogama.....	J. Taylor.....	23	3.84			1	.88		
Kapuskasing.....	E. L. Ward.....	58	39.52	2	.48	2	.50	14	15.54
Kenora.....	G. F. Meyer.....	14	5.88	1	.23	1	.30	11	8.51
Main Office.....		18	28.81					27	89.25
North Bay.....	T. E. Sider.....	7	5.03					2	.70
Parry Sound.....	R. L. Snow.....	1	0.25	1	1.00			11	2.55
Port Arthur.....	R. Boulton.....	7	1.35			1	.13	18	7.62
Sault Ste. Marie	A. Leman.....	33	6.33					22	8.28
Sioux Lookout..	K. Acheson.....	28	7.55	1	.22	12	2.53	25	12.42
Sudbury.....	T. Thorpe.....	34	4.58	4	0.46			11	10.22
Tweed.....	A. Crealock.....							1	.47
Totals.....		275	137.92	9	2.39	27	6.67	249	175.39

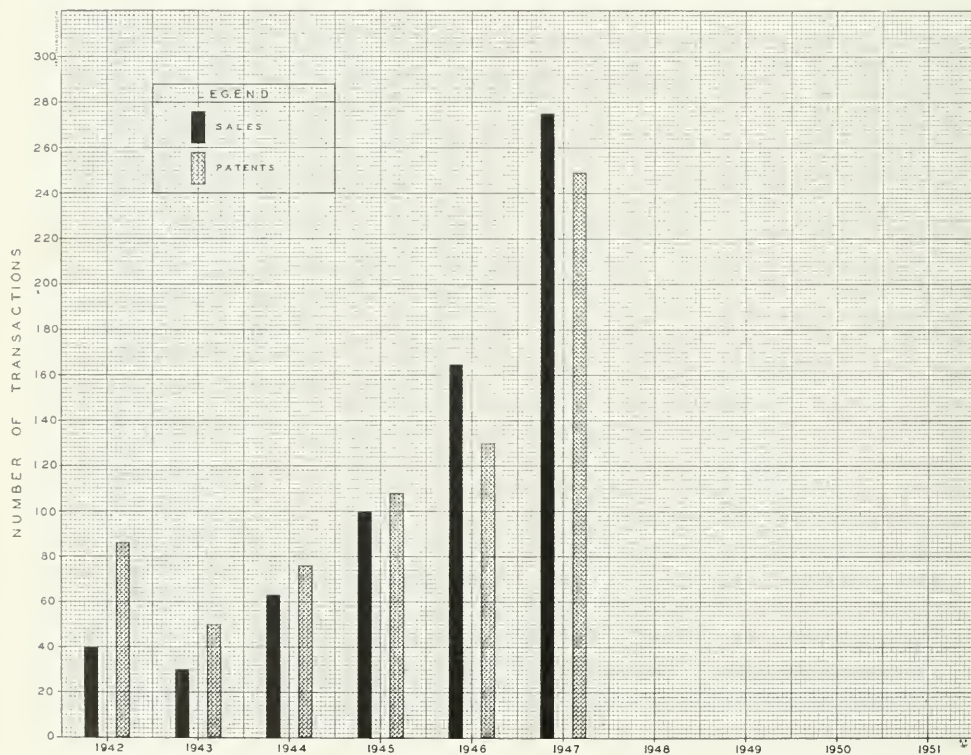


Fig. 5—CITY, TOWN AND TOWNSITE LANDS.

TABLE No. 8  
LAND USED PERMITS APRIL 1, 1946—MARCH 31, 1947

Administrative District	Dwelling and Garden		Sawmill Sites		Boathouse Sites		Hunt Camp Sites		Agricultural		Hay Cutting		Trappers Camps		Miscellaneous		Sugar Bush		Department Owned Houses No.	
	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres		
Algonquin	21	61.00	4	58.85	10	3.75	7	7.25							15	9.75	1	10.00	24	
Chapleau	24	19.10	4	24.50					2	24.00					3	162.00			12	
Cochrane	14	81.00	10	3.65			1	5.00	37	2971.00	20	174.50	1	5.00	2	76.00				
Fort Frances	21	10.50	2	37.50	2	.50	4	26.75	2	255.00	1	199.00			1	.25				
Geraldton	1	50.00	6	49.00					1	16.00										
Gogama	25	70.86	3	34.00			3	2.50	9	70.75					2	6.00			1	
Kapuskasing	1	150.00	7	61.00	1	.50			15	234.00	1	23.00	1	1.00	3	7.34				
Kenora	4	13.25	3	21.48			2	2.00	2	158.00			2	81.00	8	25.75				
Lindsay	2	20.00					4	3.00												
Angus-Midhurst																				
Orono-St. Williams																				
Napanee																			264	
North Bay	51	331.50	38	181.32	7	7.05	44	39.50	16	1332.00	6	588.50	9	7.50	5	10.00	4	106.00	1	
Parry Sound	51	95.65	10	46.00	9	4.50	158	149.50	14	188.50	1	9.50	5	3.50	10	11.25	3	25.00	3	
Pembroke	24	62.90	3	21.85	3	1.75	12	10.25	3	70.00					5	1.75	1	10.00		
Port Arthur	14	74.30	39	70.00			3	4.00	1	125.00					2	22.00				
Rondeau Park	148	74.00													5	1.25			2	
Sault Ste. Marie	40	54.79	1	10.50			15	13.19	1	84.00			5	5.00	3	3.50	1	20.00	8	
St. James	28	69.00	1	10.00						2	1002.00			3	80.16				12	
Sturgeon Falls	85	368.00	31	217.00	13	5.50	32	33.00	79	6133.25	3	83.00	2	2.00	19	369.00				
Sudbury	13	22.75	3	34.66	1	.50	106	103.50	17	1099.00	3	22.00			9	37.75				
Tweed																				
Totals	570	1604.60	172	961.66	56	27.70	391	399.41	201	13762.50	38	1099.50	25	105.00	95	823.75	10	171.00		330

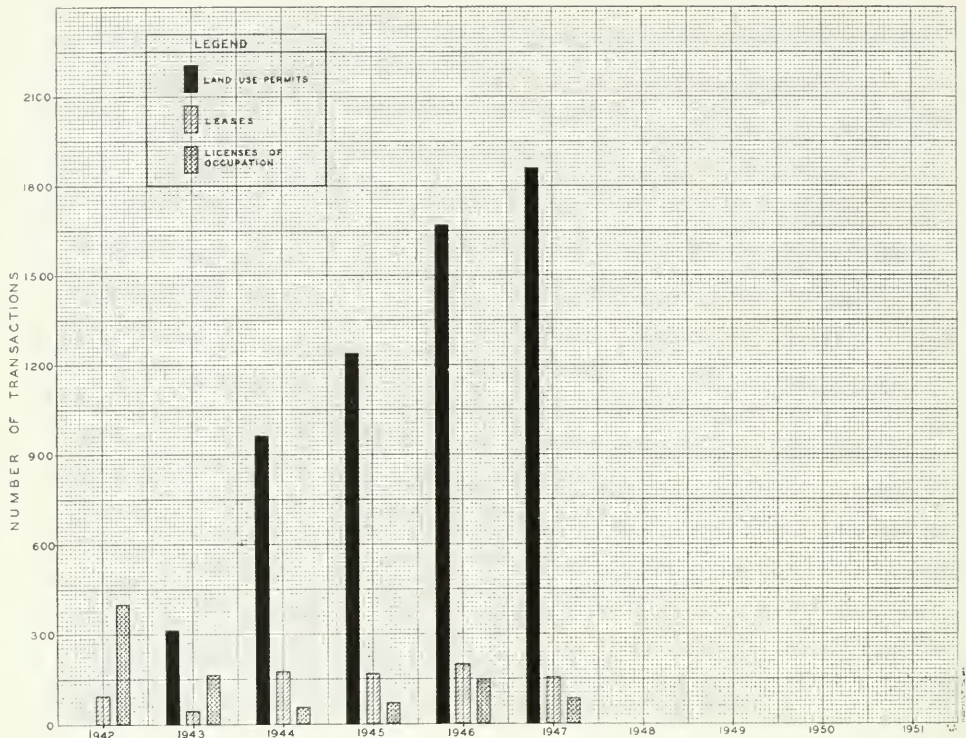


Fig. 6—LAND USE PERMITS, LEASES AND LICENCES OF OCCUPATION ISSUED.

TABLE NO. 9

Statement of Patents, etc., issued during the year ending March 31, 1947

Public Land Patents .....	929	
Free Grant Patents .....	168	
Patents & Transfers (Town Lots).....	249	
Miscellaneous Documents.....	145	
Releases of Pine .....	137	
		1628
Crown Leases .....	8	
Algonquin Park Leases .....	42	
Bruce Beach Leases .....	15	
Bruce Beach Renewals .....	11	
Rondeau Park Leases .....	71	
Timagami Leases .....	4	
Water Power Leases .....	5	
		156
Licences of Occupation .....	82	
Licences of Occupation (Rondeau).....	2	
Licences of Occupation (Algonquin).....	2	
		86
Licences of Occupation Cancelled.....	219	
Crown Leases Cancelled .....	22	

## DIVISION OF LAW

The primary duties of the Division are as indicated in the Administrative Chart.

As a result of the previous Department of Game and Fisheries coming under the administration of the Department of Lands and Forests, as the Division of Fish and Wildlife, the work of the Law Division was considerably increased. The Game and Fisheries Act, 1946, is a revision of the Act which formerly was in effect, and considerable time was necessary in connection with the preparation of the many regulations which are required under the provisions of the Act.

Amendments were made to ten Acts governing the administration of the Department, and The Forest Management Act was created. This Act permits the Minister to require timber operators on Crown land to submit estimated inventories of the timber on the cutting-area respecting age, species, size and type, and management plans concerning the utilization of the timber.

An amendment to The Townsites Act provides that the Crown shall not claim any percentage of land in a subdivision plan of land which has been patented for upwards of five years prior to the time of making the subdivision.

An amendment to The Crown Timber Act permits the Minister, with the approval of the Lieutenant-Governor in Council, to enter into long-term timber concession agreements concerning all species of timber.

An amendment to The Cullers Act allows the Lieutenant-Governor in Council to make regulations with respect to standardization of the measurement of timber cut on Crown lands.

An amendment to The Public Lands Act allows the issue of letters patent to the widow of a locatee.

During the year, the policy of dealing with trespass cases, where a person committing a trespass had no authority to cut, by laying a charge of theft of trees under the Criminal Code, was actively followed. In the majority of such charges convictions were made, and it is felt that this policy will reduce unauthorized timber-cutting.

The following is a recapitulation of charges laid under the Criminal Code and for offences against provincial statutes and regulations:

<i>Acts</i>	<i>Charges</i>	<i>Convictions</i>	<i>Acquittals</i>
Game and Fisheries Act.....	1,510	1,433	77
Forest Fires Prevention Act.....	17	14	3
Provincial Parks Act.....	2	2	0
Crown Timber Act.....	1	1	0

During the year one timber concession agreement and two supplementary agreements concerning main agreements previously in force were prepared.

Various field trips were made by the Chief of the Division to District Offices concerning matters requiring legal attention.



## DIVISION OF OPERATION AND PERSONNEL

The termination of hostilities with Germany in May, 1945, and with Japan in August, 1945, initiated the retooling of industry and diverted the flow of personnel from the Armed Forces and industry to other channels. As a result of the processes of reconversion in the personnel and supply fields, the situation, as far as the Department is concerned, has been greatly eased. Urgently needed supplies have been a little more readily obtained and in somewhat greater volume, but still do not entirely meet our requirements.

For some time there was considerable difficulty in obtaining suitable qualified stenographic personnel, and desks and other office furniture are still most difficult to obtain. As younger people return to pre-war perspectives and as adolescents who have been obtaining the wages usually paid to adults are eliminated from industry, this situation may be considerably bettered. It is anticipated, too, that the training programmes of the Canadian Vocational schools will be a means of providing numbers of properly trained personnel.

During this year, eight new administrative districts were created, with the result that the greater part of the Province south of the Albany River is now under administrative district organization. The creation of these new districts will provide more effective administration.

On November 28th, 1946, the Honourable H. R. Scott was appointed Minister of the Department in succession to the Honourable W. G. Thompson, who had resigned.

In April, the Department of Game and Fisheries was amalgamated with the Department of Lands and Forests, and a new Departmental Division known as the Division of Fish and Wildlife was created. Certain functions of Fish and Wildlife Management both at Head Office and in the field were centralized in this Division. Other administrative functions of the Department of Game and Fisheries have been allocated to the appropriate Divisions already established in this Department.

The staff of the former Department of Game and Fisheries was redistributed, the majority of them being allocated to the Division of Fish and Wildlife and the remainder to the other Divisions of the Department. The field staff became a part of the various administrative district organizations. By this process, the Department of Lands and Forests became responsible for the administration of the natural resources within the Province of Ontario with the single exception of those within the purview of the Department of Mines. Changes effected are dealt with in that part of this annual report devoted to the Division of Fish and Wildlife.

A Forest Resources Inventory organization was created in the Division of Timber Management. The details of this organization appear in the section of this report devoted to that Division.

Due to over-crowding at Head Office where the per capita space is at an absolute minimum, the Aerial Surveys section of the Division of Surveys and Engineering was transferred from the Parliament Buildings to the DeHavilland plant on Sheppard Avenue, where it continues to function as a section of that Division.

The organization as of the end of the fiscal year, therefore, is as follows:

### HEAD OFFICE, TORONTO

*Minister*—HON. W. G. THOMPSON (to November 28, 1946)

HON. H. R. SCOTT (from November 28, 1946)

*Deputy Minister*—F. A. MACDOUGALL

<i>Division</i>	<i>Chief</i>
Accounts.....	J. G. McMillen
Air Service.....	G. E. Ponsford (Sault Ste. Marie)
Fish and Wildlife.....	W. J. K. Harkness
Forest Protection.....	C. R. Mills (to October 31, 1946) T. E. Mackey (from November 1, 1946)
Land and Recreational Areas.....	H. W. Crosbie (to November 2, 1946) W. D. Cram (from March 1, 1947)
Law.....	F. J. Sullivan
Operation and Personnel.....	P. O. Rhynas
Reforestation.....	E. J. Zavitz
Research.....	R. N. Johnston
Surveys and Engineering.....	F. W. Beatty
Timber Management.....	J. F. Sharpe

### FIELD OFFICES

REGION	<i>Regional Forester</i>	<i>District</i>	<i>District Forester</i>	<i>District Headquarters</i>
South-Western.....		Lake Erie.....	F. S. Newman...	St. Williams
		Lake Huron.....	I. C. Marritt....	Galt
		Lake Simcoe.....	J. F. L. Simmons..	Maple
South-Eastern.....	W. D. Cram,	Quinte.....	A. Crealock.....	Tweed
	Toronto.....	Rideau.....	W. E. Steele....	Kemptville
		Trent.....	A. B. Wheatley..	Lindsay
South-Central.....	P. McEwen,	Algonquin.....	G. H. R. Phillips..	Algonquin
	Dorset.....	Parry Sound....	R. L. Snow.....	Parry Sound
Central.....		North Bay.....	F. E. Sider.....	North Bay
		Chapleau.....	F. J. Dawson....	Chapleau
		Gogama.....	J. M. Taylor....	Gogama
		Sault Ste. Marie..	A. Leman.....	Sault Ste. Marie
		Sudbury.....	T. Thorpe.....	Sudbury
Northern.....	E. L. Ward,	Kapuskasing....	E. L. Ward.....	Kapuskasing
	Kapuskasing..	Cochrane.....	A. S. Bray.....	Cochrane
Mid-Western.....	P. Addison...	Port Arthur....	R. Boulton....	Port Arthur
	Port Arthur..	Geraldton.....	U. W. Fiskar....	Geraldton
Western.....	K. Acheson	Sioux Lookout..	K. Acheson....	Sioux Lookout
	Sioux Lookout.	Kenora.....	G. F. Meyer....	Kenora
		Fort Frances....	G. Delahey....	Fort Frances



# ADMINISTRATIVE DIVISIONS



PROVINCE OF ONTARIO

*Department of Lands and Forests*

Hon. H. R. Scott  
Minister

F. A. MacDougall  
Deputy Minister

# DEPARTMENT OF LANDS AND FORESTS

## PROVINCE OF ONTARIO

### ADMINISTRATIVE DIVISIONS

1947

Hon. H. R. SCOTT, Minister

F. A. MacDOUGALL, Deputy Minister

ACCOUNTS	AIR SERVICE	FISH AND WILDLIFE	FOREST PROTECTION	LAND AND RECREATIONAL AREAS	LAW	OPERATION AND PERSONNEL	REFORESTATION	RESEARCH	SURVEYS AND ENGINEERING	TIMBER MANAGEMENT	
J. G. McMillen Chief	G. E. Ponsford Chief	Dr. W. J. K. Harkness Chief	T. E. Mackey Chief	W. D. Cram Chief	F. J. Sullivan Chief	P. O. Rhynas Chief	E. J. Zavitz Chief	R. N. Johnston Chief	F. W. Beatty Chief	J. F. Sharpe Chief	
<p><i>Accounting</i>, for all Divisions.</p> <p><i>Collection</i> of Departmental revenue.</p> <p><i>Payment</i> of Departmental expenditures.</p> <p><i>Administration</i> of Land Tax Act.</p> <p><i>Preparation of</i>— Budget estimates. Financial reports. Permanent Staff payrolls. Main Office pay lists. Departmental staff salary records. Data for Public Accounts report.</p> <p><i>Control of</i>— Accountable Warrant Funds. Field Office trust funds. Items held in safe-keeping. Collateral securities. Field Office accounting. Budget for main and field offices. Checking of receipts and disbursements.</p> <p><i>Issue of</i>— Fish and Wildlife Licences.</p> <p><i>Maintenance</i> of Accounts owing the Department for:— Timber dues. Ground rent. Fire tax. Land sales. Rentals for Leases. Fees for Licences of Occupation. Water power leases. Provincial Land Tax. Permit operations. Accountable advance. Fish and Wildlife Licences.</p>	<p><i>Control of Purchase of</i>— New and used aircraft, engine and aircraft spare parts, running spares, stock material, tests and technical equipment, fuels and oils, and operating base equipment.</p> <p><i>Drafting</i> of all contracts.</p> <p><i>Supervision</i> of all property purchases for new bases and the location and construction of such bases.</p> <p><i>Liaison</i> with Department of Transport.</p> <p><i>Responsibility</i> for employment, conduct and training of staff; operating orders, public and labour relations within the Division.</p> <p><i>Control of</i>— Flying Operations. Fire fighting operations. Flying for other Departments of the Government. Such commercial flying as the Service may undertake. All mercy flying.</p> <p><i>Responsibility</i> for records, reports and accounts.</p>	<p><i>Enforcement of</i>— Convictions and fines. Recording and banding seizures.</p> <p><i>Wildlife</i>— Management and propagation. Trapping management. Game preserves and special hunting areas—open seasons.</p> <p><i>Fur</i> farm licences—records. Fur dealers licences. Bouties. Licences and investigations. <i>Commercial Fisheries</i>— Commercial fishing, dealers, and net dealers licences. Fish production statistics. Establishment of seasons.</p> <p><i>Pollution</i>— Pollution control inspections.</p> <p><i>Fish Diseases and Parasites</i>— The study, prevention and control of fish diseases and parasites.</p> <p><i>Game and Fish Hatcheries</i>— Game fish management. Supervision of hatcheries and spawn collection. Distribution of young fish. Removal of coarse fish. Establishment of seasons. Closure of fishing waters. Biological studies. Surveys and investigations.</p>	<p><i>Supervision of</i>— Prevention and suppression of forest fires and insect disease damage. Constructive and maintenance of Forest Protection and Fish and Wildlife buildings, towers and telephone lines. Maintenance and storage of fire fighting equipment. Disposal of fire hazards. Staff appropriations and expenditures.</p> <p><i>Control of</i>— Radio and telephone communication systems. Use of equipment, buildings and other improvements. Expenditures pertaining to forest protection. Statistics and records. Requisitioning of equipment. Compilation of estimates.</p> <p><i>Administration of</i>— Forest Protection under the Forest Fires Prevention Act. Railway fires under Board of Transport Commissioners. Agreements with organized municipalities. Travel and burning permit systems.</p>	<p><i>Selling, leasing and licensing</i> of Crown Lands for:— Farming and allied uses, summer resorts and all other purposes excepting for dam sites, rights-of-way for electric power and telephone lines, or for hydro-electric power developments. Maintenance and storage of fire fighting equipment. Disposal of fire hazards. Staff appropriations and expenditures.</p> <p><i>Administration</i> of all Provincial Parks— Leasing and licensing of land for summer resort use. Collection of fees. Directing administration.</p> <p><i>Land Use Planning</i>— For summer resort, agriculture and other uses.</p> <p><i>Land Licenses</i>— To ensure proper use of land. Eligibility to acquire patent lease or licence.</p> <p><i>Preparation of</i>— Land Manuals, pamphlets, forms, legislation, patents, leases, licences of occupation and land transfers.</p> <p><i>Maintenance of</i>— Records of all land dispositions. Examining and checking all documents issued. Issuance of instructions to Field offices. Interpretation of the Acts.</p>	<p><i>Preparation of</i>— Legislation, regulations, timber agreements and vesting orders. Recommendations to Legislative Council. Special patents, land transfers, deeds, leases; and various agreements and other miscellaneous documents of a legal nature.</p> <p><i>Legal advice on</i>— Interpretation and application of statutes, regulations and orders-in-council. Consulting with and advising Head Office and Field Staff on all Departmental matters of a legal nature. Correspondence with and attendance upon private and corporate interests having various grievances which are extra-Departmental.</p> <p><i>Arbitration of</i>— Disputes—Claims. Appeals re Land Tax collections. Conducting litigation.</p> <p>Examination and checking of patents, leases and licences-of-occupation.</p>	<p><i>Personnel Management</i>— Interviewing, selection, appointment, classification. Staff welfare, salary rating. Administrative statistics. Attendance, staff and permanent records. Workmen's compensation. Maintenance—Messengers. Training, Order-in-Council.</p> <p><i>Office Management</i>— Purchase and distribution of all equipment and supplies, and stock control. Inventory. Locating and expediting supplies. Duplicating. Issue—Receipts. Distribution printed matter. Servicing—Space adjustments.</p> <p><i>Information and Education</i>— General Inquiries.</p> <p><i>Department Routine Publications</i>— Editing, writing, rewrites, printing, distribution.</p> <p><i>Public Appeals</i>— Principally in forest fire prevention and Fish and Wildlife Conservation. Lecture tours in schools, logging camps, outfitters' camps, fish and game associations, on conservation. Photographs, slides, motion pictures for lecture tour purposes. Articles, press, radio, exhibits, sign and posters on conservation and fire prevention.</p> <p><i>School Work</i>— Co-operation with educational authorities on text books, teachers' aids; poster, radio and essay contests as required by them.</p>	<p><i>Administration of</i>— Provincial Forest Stations. Forest Tree Seed Supply: Seed collection, extraction, germination and storage. Forest Tree Nurseries. Experimental and Demonstration Forest Plantations. Forest Tree Distribution.</p> <p><i>Extension Work Through Zone Foresters</i>— Municipal reforestation. Inspection of private woodlands and plantations. Rural school plantations. Roadside windbreak planting. Lectures on reforestation to schools, county councils, service clubs, etc.</p>	<p><i>Research in</i>— Forest Management: Regeneration, Cutting Practices, Growth Studies, Volume Tables, Yield, Drains. Forest Protection: Fire, Insects, Disease, Smelter Fumes investigation. Fish and Wildlife: Inventory Management, Genetics, Stream Pollution, South Bay Experiment. Soil Surveys: Land Use Surveys, Chemical, Physical and Biological Analysis of Forest Soils. Wood Utilization. Forest Economics. Mechanical-Electrical Developments: Pumps, Hose, Nozzles, Communications Equipment, Reforestation Equipment, Woods Utilization Equipment.</p> <p><i>Co-operation with</i>— University of Toronto, National Research Council, Science Service, Defence Research, Ontario Research Foundation, etc.</p> <p><i>Operation of</i>— Southern Research Station.</p>	<p><i>Ground Section Administration of</i>— Water Powers and stream control. Selection of official Geographic names. Matters relevant to Provincial Boundaries. Fish and Wildlife: Inventory Management, Genetics, Stream Pollution, South Bay Experiment. Soil Surveys: Land Use Surveys, Chemical, Physical and Biological Analysis of Forest Soils. Wood Utilization. Forest Economics. Mechanical-Electrical Developments: Pumps, Hose, Nozzles, Communications Equipment, Reforestation Equipment, Woods Utilization Equipment.</p> <p><i>Co-operation with</i>— University of Toronto, National Research Council, Science Service, Defence Research, Ontario Research Foundation, etc.</p> <p><i>Operation of</i>— Southern Research Station.</p>	<p><i>Ground Section Administration of</i>— Water Powers and stream control. Selection of official Geographic names. Matters relevant to Provincial Boundaries. Fish and Wildlife: Inventory Management, Genetics, Stream Pollution, South Bay Experiment. Soil Surveys: Land Use Surveys, Chemical, Physical and Biological Analysis of Forest Soils. Wood Utilization. Forest Economics. Mechanical-Electrical Developments: Pumps, Hose, Nozzles, Communications Equipment, Reforestation Equipment, Woods Utilization Equipment.</p> <p><i>Examination and Checking of</i>— Plans, descriptions and reports of all types of surveys of Crown Lands, Dams and other structures as required by the Lakes and Rivers Improvement Act.</p> <p><i>Preparation of</i>— Maps issued by the Department. Plans of Crown Land Surveys. Description of areas for Government Departments. Water Power Leases. Licences for transmission, telephone and railway rights-of-way, flood areas and dam sites.</p> <p><i>Publishing and Distribution of</i>— Provincial Township and Topographical Maps. Custodian and Recorder of— Original survey notes and plans, selected Geographic names.</p> <p><i>Supplying of</i>— Photostatic copies of maps and survey records and other data to Government Departments and the public.</p> <p><i>Air Survey Section</i>— Photography required for Forestry, Highway and Power purposes. Processing films and preparation of types of maps required. Supplying prints of areas photographed to various Departments and the public.</p>	<p><i>Timber Sales and Licences</i>— Application, Sales, Tenders. Licences and renewals. Transfers, additions, extensions, abandonments. Statistics, Map records.</p> <p><i>Timber Returns</i>— Preparation timber dues accounts. Statistics, records of cut.</p> <p><i>Pulpwood Exports</i>— Analysis of contracts. Records of wood exported.</p> <p><i>Mills Licensing</i>— Saw mill, pulp and paper and other mill licences. Records of mill production.</p> <p><i>Scaling</i>— Courses and examinations. Registration of scales.</p> <p><i>Surveys and Inventories</i>— Organization and supervision. Preparation of maps. Maintenance of inventory.</p> <p><i>Management Plans</i>— Master and annual plans required under agreements.</p> <p><i>Supervision of Woods Operations</i>— Inspection and supervision. Logging methods-technique. Costs, compilation-analysis. Integrated operations. Liaison between government and industry.</p>

## AREAS OF ADMINISTRATIVE DISTRICTS

<i>Districts</i>	<i>Area</i>
Algonquin.....	3,545,600 acres
Chapleau.....	4,085,760 acres
Cochrane.....	9,251,840 acres
Fort Frances.....	4,377,600 acres
Geraldton.....	8,035,840 acres
Gogama.....	4,154,880 acres
Kapuskasing.....	9,075,000 acres
Kenora.....	6,812,160 acres
Lake Erie.....	4,416,000 acres
Lake Huron.....	5,952,000 acres
Lake Simcoe.....	2,949,120 acres
North Bay.....	5,580,800 acres
Parry Sound.....	3,965,440 acres
Port Arthur.....	9,679,360 acres
Quinte.....	4,536,320 acres
Rideau.....	3,489,280 acres
Sault Ste. Marie.....	10,309,120 acres
Sioux Lookout.....	18,291,200 acres
Sudbury.....	4,610,560 acres
Trent.....	3,279,360 acres
Total.....	126,397,240 acres

## PERSONNEL MANAGEMENT

*Selection and Placement:*

Applications for employment with the Department come to us, for the most part, through the Office of the Civil Service Commission. A considerable number, however, are received direct. All persons making application at Head Office are interviewed by the Personnel Officer or his representative and a report on each applicant is made summarizing all essential details concerning the applicant's qualifications, experience and personal history and, as well, the interviewer records his impression of the applicant and makes his recommendation to the Chief of this Division.

The testing and rating of applicants for stenographic, typing and clerical positions by the Office of the Civil Service Commission has been of great assistance to us in recruiting competent persons in these classes.

The Department, has, wherever possible, placed ex-service personnel as positions or replacements became necessary. Of those appointed to the staff during the fiscal year, 70.5% were ex-service personnel. A statement appears which indicates the relative number of male and female employees.

Twenty Fish and Wildlife Specialists were appointed to give immediate, close supervision to enforcement matters in the various administrative districts under the respective District Foresters. The fish hatchery staffs became part of the District organizations.

On November 28, 1946, the Honourable H. R. Scott succeeded the Honourable W. G. Thompson as Minister of Lands and Forests.

On April 1, 1946, J. M. Taylor was appointed District Forester at Gogama. On the same date F. J. Dawson was appointed District Forester at Chapleau.

# DEPARTMENT OF LANDS AND FORESTS

## DIVISION OF OPERATION AND PERSONNEL

### CHIEF OF DIVISION

#### OFFICE AND PERSONNEL MANAGEMENT

#### SUPERVISOR

**PERSONNEL MANAGEMENT**

- SELECTION - ALLOCATION
- APPOINTMENTS CLASSIFICATION
- INTERVIEWING GRANTS & FORMS
- STAFF RELATIONS
- STAFF COUNSELLING
- SALARY FIXING
- STAFF TRAINING
- ADMINISTRATIVE STATISTICS
- ATTENDANCE RECORDS
- EMPLOYMENT RECORDS
- LABOR STATISTICS
- STAFF ROOMS
- STAFF RECORDS
- STAFF MOVIES
- STAFF STORIES
- WOMAN'S COMPLETION
- REPORTS
- LIAISON
- CORRESPONDENCE
- ACCOUNTING

**TRAINING**

- ACCIDENT PREVENTION
- SAFETY MEASURES
- RELATIONS
- SCALER SCHOOL
- HEAD OFFICE COURSE
- WATER TRAINING
- ORDERS
- COUNCIL
- REGISTRATION
- NOTICES
- DIVISION
- FILING
- MODEL
- DIARY
- PERMANENT RECORDS
- FILE REGISTRATION
- MATERIALS UP
- MAINTENANCE
- STORAGE
- RESOURCES

**OFFICE MANAGEMENT**

- ROUTINE PROCEDURE
- DESIGNING FORMS
- PREPARATION OF FORMS
- EQUIPMENT & SUPPLIES
- PURCHASE REQUISITIONS
- STOCK
- STORAGE
- SUPPLY
- RECORDS
- EQUIPMENT FILED
- INVENTORY
- SERVICING
- SPACE ADJUSTMENTS
- RELATIONS WITH SUBORDINATE
- DEPT. OF PUBLIC WORKS
- SPECIAL ARRANGEMENTS
- STAFF
- 3 STENOGRAPHERS
- 10 CLERKS
- 3 MACHINE OPERATORS

SUB STAFF  
8 CLERKS 4 STENOGRAPHERS  
3 RECORD CLERKS 2 TYPISTS

#### INFORMATION AND EDUCATION

#### SUPERVISOR

**PUBLIC RELATIONS ASSISTANT**

- PUBLICATIONS
- EDITORIAL
- PUBLICATIONS
- WRITING
- PRINTING
- AND
- PUBLISHER CONTRACTS
- PUBLIC RELATIONS ASSISTANT
- PUBLICITY
- ARTICLES
- PRESS RELEASES
- RADIO RELEASES
- NEWSLETTERS
- SUMMARY POSTERS
- DEMONSTRATIONS
- ADVERTISING AND PROMOTIONAL MATERIALS
- PHOTOGRAPHS
- EXHIBITION EQUIPMENT
- LOUNGE
- GAZE BOOTH
- PUBLIC RELATIONS ASSISTANT
- PHOTOGRAPHY
- VISUAL EDUCATION
- EQUIPMENT
- EXPERT
- STAFF
- PHOTOGRAPHY
- EXHIBITION
- LOUNGE
- GAZE BOOTH
- PUBLIC RELATIONS ASSISTANT
- REGIONAL ASSISTANTS
- DARK ROOM
- ASSISTANT
- PUBLIC RELATIONS ASSISTANT
- SCHOOLS
- CO OPERATION WITH
- EDUCATIONAL SERVICES
- LECTURES
- TECHNICALS
- POSTER CONTESTS
- RADIO CONTESTS
- PUBLIC RELATIONS ASSISTANT
- JUNIOR RANGERS
- MEETINGS
- DEMONSTRATION
- COURSES OF INSTRUCTION
- RADIO CONTESTS
- LITERATURE
- ALL MATTERS OF OFFICE MANAGEMENT ROUTINE
- CLERK
- ASSIST. CLERK
- ASST. WORKER
- STENOGRAPHERS
- MAIN OFFICE STAFF

**REGIONS**

- COASTAL
- NORTH EAST
- CENTRAL
- SOUTH CENTRAL
- SOUTH EASTERN
- WESTERN
- WESTERN
- WESTERN
- DISTRICTS
- BARREN
- MANITOBA
- QUYEN
- POURTOUR
- SALTY SITE MARIE
- SALTY SITE MARIE
- SALTY SITE MARIE
- LAKE ELZE
- SALTY SITE MARIE
- LAKE HUDON
- TRENT

On June 3, 1946, Dr. W. J. K. Harkness was appointed Chief, Division of Fish and Wildlife.

On July 15, 1946, F. E. Sider, after his release from the Armed Services, was appointed District Forester at North Bay.

On August 22, 1946,

W. E. Steele was appointed District Forester of Rideau District.

A. Crealock was appointed District Forester of Quinte District.

A. B. Wheatley was appointed District Forester of Trent District.

I. C. Marritt was appointed District Forester of Lake Huron District.

F. S. Newman was appointed District Forester of Lake Erie District.

On September 28, 1946, J. F. L. Simmons was appointed District Forester of Lake Simcoe District.

On November 1, 1946, W. D. Cram was appointed Regional Forester of the South Eastern Region.

As of November 1, 1946, T. E. Mackey, formerly Regional Forester, North Bay, was appointed Chief, Division of Forest Protection.

As of March 1, 1947, W. D. Cram became Chief, Division of Land and Recreational Areas in addition to his duties as Regional Forester.

The following members of Staff were superannuated during the fiscal year:

<i>Name</i>	<i>Division or District</i>	<i>Date</i>
Barran, J. G.	Fish and Wildlife	April 22, 1946
Taylor, D. J.	Fish and Wildlife	May 16, 1946
Burwash, N. A.	Surveys and Engineering	June 1, 1946
Beaupre, J. M.	Fish and Wildlife	July 1, 1946
Heath, W. H.	Surveys and Engineering	Aug. 29, 1946
Potter, E. E.	Cochrane	Sept. 17, 1946
McInnis, C. C.	Parry Sound	Oct. 18, 1946
Bouchey, A. C.	Gogama	Feb. 9, 1947
Ranger, P.	Algonquin	Feb. 28, 1947

#### VETERAN PERSONNEL AS OF MARCH 31, 1947

(Exclusive of Casual Staff)

	<i>Male</i>	<i>Female</i>	<i>Total</i>
Inside.....	146	6	152
Outside.....	318	..	318
	<hr/> 464	<hr/> 6	<hr/> 470
	<i>1st War</i>	<i>2nd War</i>	<i>Both Wars</i>
Inside.....	39	105	8
Outside.....	133	174	11
	<hr/> 172	<hr/> 279	<hr/> 19
			<i>Total</i>
			152
			318
			470

Total Staff, March 31, 1947.

	<i>Perm.</i>	<i>Continuous Temp.</i>	<i>Casual</i>	<i>Total</i>
Head Office....	215	166	6	387
Field.....	308	396	521	1225
	<hr/> 523	<hr/> 562	<hr/> 527	<hr/> 1612
Total.....				

Permanent Staff.....	523
Temporary Staff.....	562
Total.....	1085
Veterans as above.....	470
Per cent. of Veterans.....	43.3%
Male Staff.....	946
Male Veterans.....	464
Per cent. of Veterans.....	49%

NOTE.—This statement includes Air Service as inside staff.

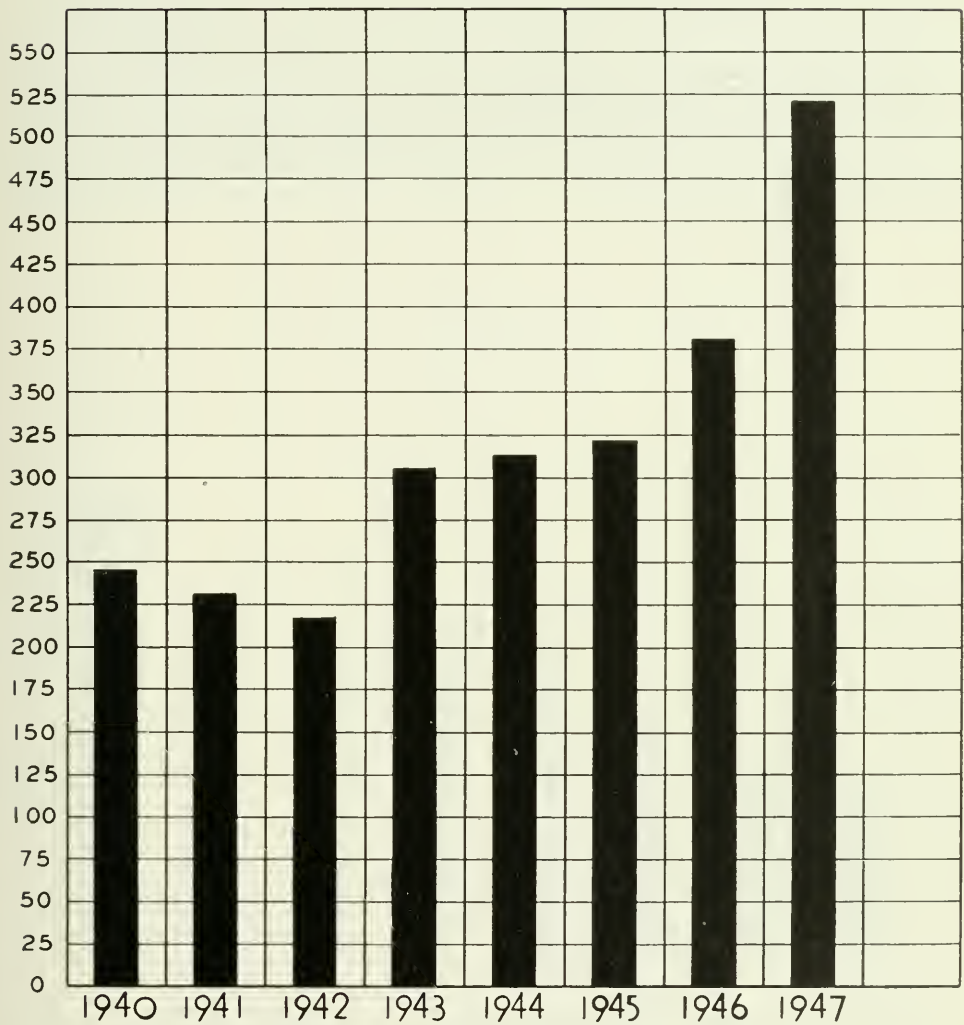
PERMANENT AND TEMPORARY EMPLOYEES  
AS OF MARCH 31, 1947

DIVISION	PERMANENT		TEMPORARY		TOTAL		GRAND TOTAL
	Male	Female	Male	Female	Male	Female	
Air Service.....	47	..	21	2	68	2	70
Accounts.....	18	15	19	11	37	26	63
Fish and Wildlife.....	17	8	7	7	24	15	39
Forest Protection.....	9	2	2	2	11	4	15
Lands and Recreational Areas.....	8	10	4	6	12	16	28
Law.....	1	1	..	..	1	1	2
Main Office.....	1	4	..	..	1	4	5
Operation and Personnel.....	17	6	26	15	43	21	64
Reforestation.....	5	..	3	3	8	3	11
Research.....	8	3	4	1	12	4	16
Surveys and Engineering.....	21	2	17	4	38	6	44
Timber Management.....	9	3	9	3	18	6	24
	161	54	112	54	273	108	381

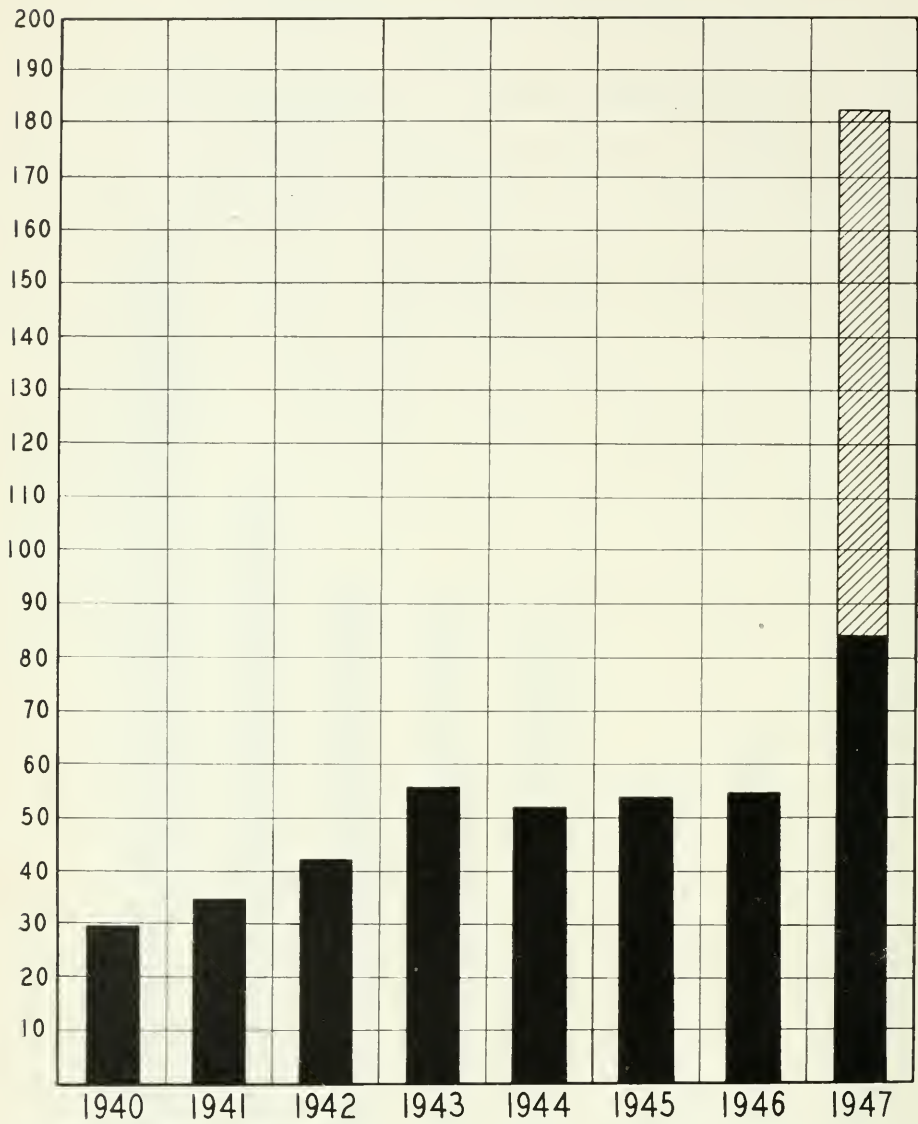
PERMANENT AND TEMPORARY EMPLOYEES  
AS OF MARCH 31, 1947

DISTRICT	PERMANENT		TEMPORARY		TOTAL		GRAND TOTAL
	Male	Female	Male	Female	Male	Female	
Algonquin.....	24	..	34	..	58	..	58
Chapleau.....	7	..	12	..	19	..	19
Cochrane.....	15	..	30	1	45	1	46
Fort Frances.....	11	..	17	1	28	1	29
Geraldton.....	6	..	9	1	15	1	16
Gogama.....	5	..	11	..	16	..	16
Kapuskasing.....	11	..	22	2	33	2	35
Kenora.....	11	2	23	..	34	2	36
Lake Erie.....	20	..	14	..	34	..	34
Lake Huron.....	17	..	13	..	30	..	30
Lake Simcoe.....	14	..	29	..	43	..	43
North Bay.....	30	4	19	3	49	7	56
Parry Sound.....	16	2	20	1	36	3	39
Port Arthur.....	14	2	22	3	36	5	41
Quinte.....	11	..	22	2	33	2	35
Ranger School.....	7	..	2	..	9	..	9
Rideau.....	5	..	11	..	16	..	16
Sault Ste. Marie.....	22	2	22	1	44	4	48
Sioux Lookout.....	6	..	17	1	23	1	24
Sudbury.....	32	1	14	1	46	2	48
Trent.....	11	..	15	..	26	..	26
	295	13	378	18	673	31	704

# DEPARTMENT OF LANDS AND FORESTS



PERMANENT EMPLOYEES  
AS OF MARCH 31<sup>st</sup> EACH YEAR



TECHNICAL PERSONNEL EMPLOYED :: 1947  
(FORESTERS ONLY, NOTED TO 1946)

Oblique shading denotes seasonal Technical Personnel employed 1947





SECTION OF THE DIVISION OF OPERATION AND PERSONNEL.

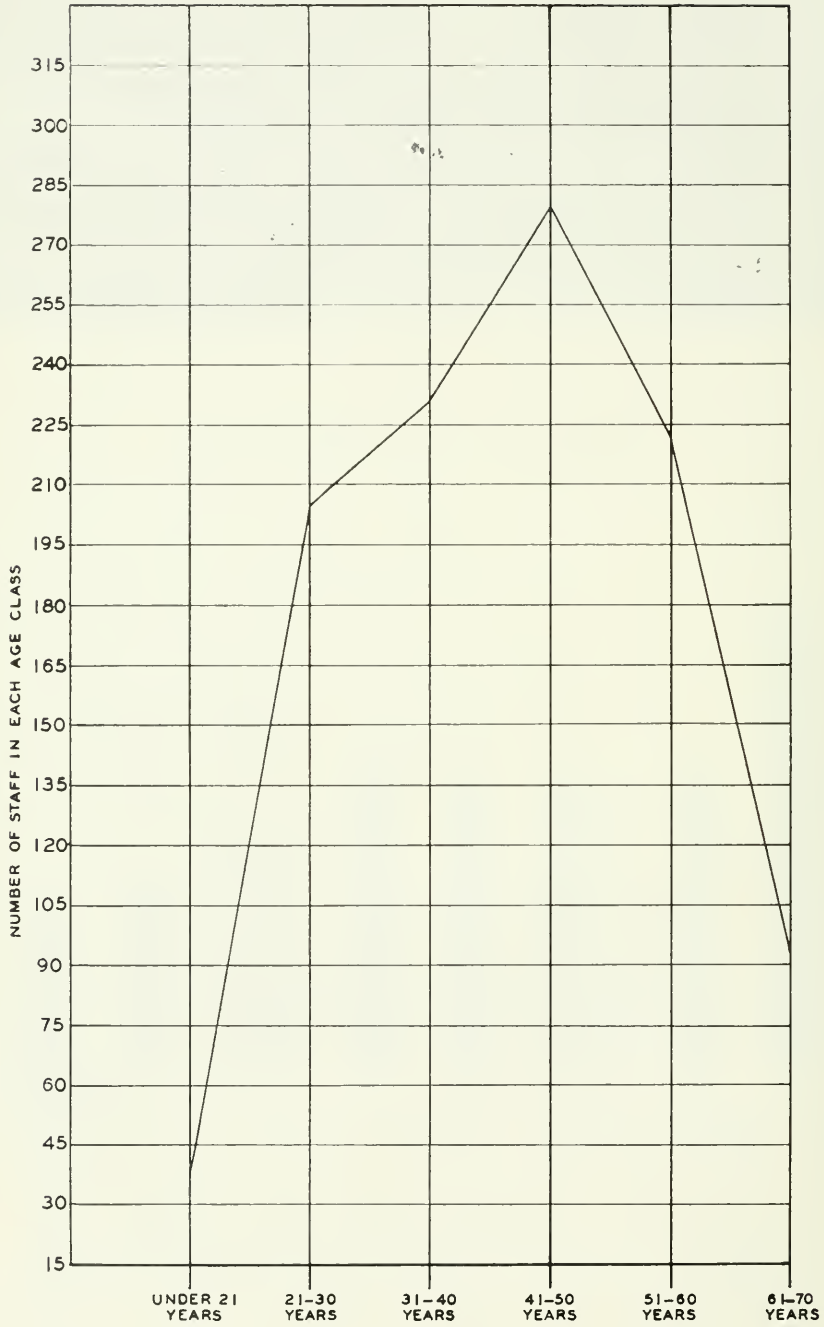
NUMBER OF EMPLOYEES BY MONTHS  
FOR FISCAL YEAR ENDED MARCH 31, 1947

MONTH	INSIDE			OUTSIDE			Total
	Perm.	Temp.	Casual	Perm.	Temp.	Casual	
1946							
April.....	136	86	5	238	277	1222	1964
May.....	141	81	15	244	275	1469	2225
June.....	177	93	9	362	331	1486	2458
July.....	174	107	12	349	341	1539	2522
August.....	175	118	14	352	348	1369	2376
September.....	177	121	7	365	348	1251	2528
October.....	177	124	..	362	378	882	2188
November.....	175	130	..	351	374	671	1722
December.....	174	135	2	353	375	702	1749
1947							
January.....	168	144	4	356	368	688	1728
February.....	165	155	4	356	366	561	1607
March.....	168	143	3	355	419	524	1612

Tables of Age Classes of employees of Department of Lands and Forests—Permanent and Continuous Temporary, as of 31st March, 1947.

Age	<i>Number of Employees</i>
Under 21.....	40
21-30.....	209
31-40.....	231
41-50.....	280
51-60.....	228
61-70.....	91
Over 70.....	6
Total.....	1085

CHART OF AGE CLASSES



## DEATHS

The following are regretfully reported:

- J. St. Louis, Forest Ranger at Kapuskasing, on July 8th, 1946.  
 C. E. Binkley, Game Overseer at North Bay, on November 6th, 1946.  
 H. W. Crosbie, Chief, Division of Land and Recreational Areas, on  
 November 2nd, 1946.

*Investigations:*

Constant liaison work has been conducted and essential investigations made from time to time throughout the service as required, through which the Head Office Relations with the field and vice versa have been facilitated.

*Accident, Health and Safety Measures:*

Medical and X-ray examinations have been continued. As a result, a large number of the staff have been done, and in this connection, it may be observed that it is now essential for employees recommended for promotion to the Permanent Staff to be categorized by the Health Clinic, or under their supervision. Health and Accident Prevention literature has been circulated and arrangements are being made for this to be followed by motion picture propaganda.

*Attendance Records:*

These are compiled monthly and are necessarily maintained with considerable care due to the fact that sick leave accumulations of employees with over five years service are worth half pay on their separation from the service.

*Staff Suggestion Plan:*

The interest of both employee and official in this plan has been maintained and on January 13, 1947, thirteen prizes for suggestions were awarded by the Committee as follows:

<i>Name</i>	<i>Suggestion</i>
R. H. Keenan, Sudbury.....	Display Cards in Railway Stations.
George E. Knight, Parry Sound.....	Statement of Fire-Fighting Expenses.
P. H. Foley, Kenora.....	Battery Tester Holder.
J. B. Thompson, Toronto.....	Publicity Parke Township.
Quimby F. Hess, Kapuskasing.....	Use of Fire Hazard Indicators.
Miss V. Molesworth, Toronto.....	Manual of Timber and Pulpwood Agreement Clauses.
J. A. Wynd, Armstrong.....	Pulpwood Rule.
W. H. Porch, Algonquin Park.....	Birds of Algonquin Park.
B. R. Somers, Sudbury.....	Chalk Holder.
Sydney Yavner, Toronto.....	Defect Calculator for Scaling.
H. E. Kedey, Sudbury.....	Paint Record Form.
Walter C. Davidson, Air Service, Sault Ste. Marie.....	Valve Depressor Tool.
Fernand De Sourdy, Port Arthur.....	Fine Spray Water Nozzle.

## STAFF MEETINGS

*Regional Meeting:*

Regional Conferences including all the senior administrative officers of each region respectively, were held as follows:—

Western Region.....	Kenora.....	Oct. 7-8
Thunder Bay.....	Port Arthur.....	Oct. 10-11
Southern.....	Ranger School.....	Oct. 31—Nov. 1

*District Foresters' Meetings:*

The annual District Foresters' Conference was held in Toronto, January 20th to January 25th, 1947. It was attended by Field and Head Office officials, and with an organized time table and classified agenda, the proceedings resulted in a most beneficial conference.

*Supplementary Conference:*

A supplementary conference was held from February 17th to February 21st, 1947, attended by field foresters other than District Foresters. This conference provided an opportunity for Assistant Foresters and other senior officials to discuss current and other problems in open forum, for which suitable provision could not be made on the agenda of the Regular Conference. Definite benefits were immediately apparent, and because of this and the reactions of those who attended, it is proposed to continue the practice in an endeavour to bring about closer relations between the Field and Head Office and facilitate the efficient discharge of the responsibilities of all concerned.

## TRAINING

The following are the details of First Aid Training, Job Instruction Training and the Head Office Staff Courses for the fiscal year. The favourable reaction of the staff and their hearty interest in the instruction as given, to say nothing of improved performance, is reflected in the ratings obtained by those instructed under the various headings.

The number of employees that completed First Aid Training successfully, as provided by the St. John's Ambulance Association, was 80.

The number of employees that completed the Job Instruction Training Course was 72.

The number of employees that completed the Head Office Staff Course was nine.

*Ontario Forest Ranger School:*

All of the buildings have not yet been completed, but the results obtained so far are most gratifying and it is hoped that the building programme will have been finished towards the end of 1947. The second term began October 1st, 1946, and concluded October 31st, 1946.

The following members of the staff attended from the various districts:

<i>Algonquin</i>	<i>Gogama</i>	<i>Port Arthur</i>
M. Getz	E. Barnes	W. J. Gibson
F. P. McIntyre	L. Morin	T. J. Buerard
J. Orme		W. H. Jarvis
J. Tait	<i>Kapuskasing</i>	C. W. McDonald
	E. A. Boice	
<i>Chapleau</i>	H. E. Hutchinson	<i>Quinte</i>
E. Collard	J. M. McDougall	K. Legris
G. T. Godemair		
	<i>Kenora</i>	<i>Sault Ste. Marie</i>
<i>Cochrane</i>	P. Borup	J. Bennett
S. E. McWhirter	J. A. Murphy	C. MacDonald
O. K. Welsh	J. MacKay	H. MacLeod
P. M. Dolan	F. Nicoll	C. Tregonning
<i>Fort Frances</i>	<i>North Bay</i>	<i>Sioux Lookout</i>
D. C. Baldwin	D. Burns	J. E. Anderson
R. H. Pattison	R. Laurin	P. Maskerine
S. V. Ryan		J. B. Rorke
	<i>Parry Sound</i>	
<i>Geraldton</i>	S. Booker	<i>Sudbury</i>
S. Maki	H. W. LaBrash	W. Wetow

During the period December 2nd to December 19th, 1946, inclusive, a Fish and Wildlife course was held at the Ranger School. It was attended by the Specialists and Enforcement Officers from the various districts, with obvious benefits.

#### *Scaler's Course:*

Under the direction of the Division of Timber Management, five courses were given at Minden, Thessalon, Fort William and Swastika respectively. Details of the results of examinations which followed these courses are reported by the Division of Timber Management on page 156.

#### *Workmen's Compensation:*

The provisions of the Act are available to the staff of the Department, many of whom are from time to time engaged in hazardous work—benefits in pay, medical aid and pensions.

For the past fiscal year the cost to the Department was \$22,051.73. The administrative charge of the Board was \$754.50. Last year these figures were \$12,458.04 and \$334.50 respectively.

Over the period back to 1938, these costs have varied from a minimum of \$12,850.33 in 1944 to \$17,129.85 in 1939.

The variations seem to be compatible with the intensity of the fire hazard, as the number of accidents and the incidence of these rise in the dry months and decline in the fall.

Every effort is made to eliminate dangerous or careless practice and so reduce cost, man day losses and job delay.

## Chief Forest Rangers and their Divisions as of March 31, 1947.

<i>Division</i>	<i>District</i>	<i>Chief Ranger</i>
A. C. R.	Sault Ste. Marie	J. A. MacGillivray
Abitibi	Cochrane	R. Woodall
Algonquin N.	Algonquin	John McIntyre
Algonquin S.	Algonquin	T. McCormick
Armstrong	Sioux Lookout	W. H. Fayle
Bancroft	Quinte	McK. Wilson
Biscotasing	Chapleau	W. P. O'Donnell
Black Sturgeon	Port Arthur	W. J. Gibson (actg.)
Blind River	Sault Ste. Marie	T. E. Cassidy
Capreol	Sudbury	T. McGown
Chapleau	Chapleau	J. E. Morin
Cochrane	Cochrane	C. A. Stanbury
Elk Lake	North Bay	W. A. Adair
Espanola	Sudbury	S. D. Spence
Foleyet	Gogama	R. Languerand (actg.)
Fort William	Port Arthur	T. Guerard
Franz	Sault Ste. Marie	J. A. Foster
Georgian Bay	Parry Sound	Walter Armstrong
Gogama	Gogama	L. Berlinguette
Gooderham	Trent	P. Cassidy
Hearst	Kapuskasing	J. W. Colley
Huntsville	Parry Sound	W. J. Barber
Ignace	Kenora	R. Alcock
Kapuskasing	Kapuskasing	J. H. Clavelle
Kenora	Kenora	F. R. Parmeter
Lake St. Joseph	Sioux Lookout	E. Guertin (actg.)
Longlac	Geraldton	A. Grasser
Madawaska	Quinte	H. M. Legris
Minaki	Kenora	A. Cleavely
Mobert	Sault Ste. Marie	D. McMenemy (actg.)
Nakina	Geraldton	J. Jarvis
Nipigon	Port Arthur	C. W. McDonald (actg.)
North Bay	North Bay	D. J. Kennedy
Oba	Kapuskasing	B. Wilson
Pays Plat	Geraldton	G. D. MacAdam
Rainy River	Fort Frances	W. Darby
Red Lake	Sioux Lookout	R. Taylor
Sault Ste. Marie	Sault Ste. Marie	H. W. Green
Shebandowan	Port Arthur	J. H. Stirrett
Sioux Lookout	Sioux Lookout	J. Rorke
Sudbury	Sudbury	J. H. Strain
Swastika	Cochrane	F. L. Miller (actg.)
Timagami	North Bay	P. Hoffman
Timmins	Cochrane	O. K. Welsh (actg.)

## ROYAL COMMISSION ON FORESTRY

Under Order-in-Council, dated April 16, 1946 and pursuant to the Public Inquiries Act, R.S.O. 1937, chapter 19, Major General Howard Kennedy, C.B.E., M.C., B.Sc. (McGill), was appointed a Commissioner to investigate, enquire into and report upon the forest resources of Ontario and their conservation, management, development and beneficial utilization for all purposes, and was given power to summon any person and require him to give evidence on

oath, and to produce such documents and things "as the commissioner deems requisite for the full investigation of the matter into which he is appointed to examine, by subpoena signed by the commissioner."

Pursuant thereto, the Commissioner conducted public hearings at various points throughout the Province in subsequent months, and submissions to the Commissioner of relevant material from the public were invited. In due course hearings were conducted at the Parliament Buildings, Queen's Park, Toronto, at which briefs were presented at the request of the Commissioner. Briefs presented by the various divisions of our Department, included charts, graphs and explanatory information.

## OFFICE MANAGEMENT

### *Outside Storage Space*

It became evident some time ago that the space in the Outside Storage Building, erected at the Southern Experimental Station, would not be adequate to house the increased volume of records brought about by the amalgamation of the Department of Game and Fisheries with the Department of Lands and Forests.

Consequently, it was decided to add two new wings of brick and concrete, similar to the original building. Each wing is thirty feet long by twenty feet wide, one at each end of the main structure, and running at right angles to it. The southern wing was constructed with a basement to accommodate a heating and air conditioning plant with fuel bins. This installation has been completed.

Due to the extreme shortage of sheet steel, it was found to be impossible to obtain our total requirements of steel transfer cases in which to house the records sent for storage. However, about one-third of our requirements were obtained, and these cases are now installed and will meet immediate needs.

### *Office Space*

Due to a great expansion of staff, space adjustments became increasingly necessary, in order to make the utmost use of the offices available. Despite planning for effective utilization of space many offices are badly over-crowded.

### *Permanent Records.*

In addition to the transfer of older records to the Outside Storage Building at Maple, the Records Office Staff had the problem of taking over the files of the Department of Game and Fisheries, and including in the Permanent Records Filing System, those files which should properly be maintained there. At present there are over 140,000 Permanent files and the average mail in connection with these is 200 letters daily, in addition to other mail on various Divisional matters.

### *Supply Records*

A visible index card system is maintained to record the receipts, issues and stock balance of all equipment and supplies handled by this sub-section. This entails a clerk's full time work. The system reflects the quantities and location of all equipment.

### *Equipment Records*

(a) This comprises a perpetual inventory of non-expendable equipment held by Head Office and all Districts, Forest Stations, Regional Caches, etc., in the Department.

(b) With the incorporation of the Department of Game and Fisheries with this Department, and the organization of five new Districts, the amount of work involved has become much greater. It is necessary to pick up all items of non-expendable equipment from invoices passed for payment, to record them in their proper classification and location, and to be able to render a completely priced statement at any time this might be required. The work of absorbing into our system the Game and Fisheries forms and licences was difficult and protracted, but in due course accomplished.

(c) The expansion of Department Staff, together with the inclusion of the Department of Game and Fisheries as a new Division, increased tremendously the volume of equipment and supplies purchased and distributed. This increase was accentuated by the concentration of all Main Office purchasing under the Division of Operation and Personnel, as of December 1st, 1946.

The volume of requisitions from Field and Main Offices, during the year, was more than double the number processed in the previous year.

(d) Distribution of Technical Circulars and Publicity Material:—

A vastly increased quantity of informative literature, in the form of Technical Circulars and Publicity material was distributed during the year.

#### *Distribution and Stock Storage*

These functions are detailed jointly rather than individually because they are so closely allied. All the equipment and supplies mentioned above received in our stockroom are closely checked against King's Printer requisitions, Public Works requisitions or purchase orders, as the case may be. Goods which are required for the immediate filling of an outstanding order are checked against that order and prepared for shipment, in the case of Field Offices. Requirements for Head Office needs are checked against the Divisional requisition and delivery is made to the office of origin where signature is obtained.

Goods for long term supply, such as printed forms (of which nearly 1,000 different types are in actual use) maps, advertising and publicity material, bulk stationery and office supplies and certain smaller items of equipment, must be carefully placed in stock in orderly fashion to be readily available when required.

In addition to the foregoing, our duplicating machines are located in the stockroom and all duplicating work for the Department is carried out there by means of mimeograph or multilith processes. This work includes the production of a large percentage of the Departmental forms now in use, numerous technical and other reports, form letters, and a large volume of Technical, Policy, Divisional and Information Circulars. A record of cost on all duplicating work is maintained.

The foregoing items must be assembled, stitched, folded where necessary, placed in envelopes and dispatched to Parliament Buildings' Post Office. In addition, a heavy flow of educational literature is dispatched in a similar manner.

Some idea of the volume of work carried on in this stockroom may be given from the following figures covering activities of the past twelve months:

- 140 tons of goods handled annually.
- 8,500 booklets dispatched quarterly.
- 2,000 pamphlets dispatched semi-monthly.
- 144,000 circulars produced, assembled and dispatched annually.
- 250,000 mimeograph impressions made annually.
- 1,768,000 multilith impressions made annually.
- 21,280 orders, received, filled, checked and shipped.



(This figure of 21,280 is made up of 6,280 orders of stationery and supplies, and 15,000 shipments containing 469,700 Fish and Game Licences).

In addition to the recording of all incoming requisitions and outgoing shipments, a permanent record is maintained of all serially numbered forms such as Cutting Permits, Land Permits, Cash Receipt Books, for casual payroll and extra Fire Fighting staff, Main Office receipts, and Rental Due Notices.

#### 1.—*Servicing—Messenger Service*

A messenger service is maintained and these duties are carried out by junior members of the Record's Staff.

#### 2.—*Space Adjustments*

Many adjustments must be made in order to accommodate a greatly increased staff in already crowded office space. The situation has become critical and even with the removal of certain sections of the Department to other quarters outside the Parliament Buildings, space is still at a premium. This is considered most important in order that the administration of the Department may be facilitated properly.

#### 3.—*Relations with Building Superintendent, Department of Public Works and Special Arrangements.*

It is difficult to detail the duties carried out under this heading, but they nevertheless consume a considerable proportion of the time of the officer in charge of the section and certain members of the staff. This includes arrangements for moving of office furniture, accommodation for special conferences, etc., major moves of section as mentioned in (2) above, and the handling of specially large incoming or outgoing freight shipments.

## [INFORMATION AND EDUCATION]

### *Introduction*

The eagerness with which the people of Ontario have sought information concerning their natural resources during the past year has been remarkable indeed.

The merger of the Departments of Lands and Forests and Game and Fisheries on June 2nd, 1946, increased considerably the scope and volume of work of this section. It is felt that good management of our fish and wildlife resources depends largely on the understanding and consequent co-operation of anglers and hunters. Enforcement of the fish and game laws and regulations is in itself economically impossible without such active co-operation. Therefore, the increased volume of appeals for observance of the fish and game laws during the year was considered to be justified.

### *Staff*

(1) The clerical-stenographic staff was increased from three to four during the year.

(2) The man appointed in charge of appeals in February, 1946, was transferred to the field staff in November, 1946, and was not replaced at head office.

(3) In May, 1946, a former member of the Department of Game and Fisheries took over the duty of answering general inquiries regarding fish and wildlife.

(4) In the early part of the year, two field lecturers were added to the staff,

and one more at a late date, bringing the full-time field staff up to four. Two other lecturers operated during the summer season.

(5) One full-time photographer and a photo-processor were engaged in the fall of 1946.

#### PUBLICATIONS

Twenty-three new booklets were published during the year, and ten others were reprinted, with revisions. Four issues of the Department's magazine "SYLVA", started in the previous year, were published.

The demand for publications increased, in many cases exceeding the supply. A great volume of letter writing by administrative officers was eliminated through the use of these publications.

##### *Publications for Distribution:*

###### *Air Service*

Wings Over the Bush.

###### *Fish and Wildlife*

Fur Farming in Ontario

Summary of the Game and Fisheries Act and Regulations

Game Birds Need Cover

Thou Shalt Not

The Cormorant in Ontario

The Chapleau Crown Game Preserve

Early Experiments in Fish Culture

Prairie Chicken in Ontario

Natural History of Algonquin Park

###### *Forest Protection*

Forest Fires Prevention Act and Regulations

Yes, We Fight Forest Fires

###### *Land and Recreational Areas*

Manual of Public Land Administration

Summer Resort Lands in Ontario

Lands for Settlement in Ontario

Canada's New Paradise for Sportsmen

Algonquin Provincial Park

Quetico Provincial Park

Rondeau Provincial Park

Parry Sound District (lands for sale)

Kenora District (lands for sale)

Sudbury District (lands for sale)

Algonquin Story (\$2.00 per copy)

###### *Research*

Pedology, the Dirt Science

D.D.T. in Ontario Forests

###### *Reforestation*

Care and Planting of Forest Trees

The Farm Woodlot

Forest Trees for Distribution

Windbreaks and Shelterbelts

Forest Tree Planting

*Reforestation—Continued*

Glacial Pot Hole Area, Durham County  
 Planning for Tree Planting  
 Reforestation

*Surveys*

List of Townships in Province of Ontario  
 List of Lithographed Maps and Plans  
 Ontario Surveys and the Land Surveyor  
 Aerial Surveys in Ontario  
 List of Water Powers in the Province of Ontario

*Timber Management*

Forest Resources of Ontario  
 Crown Timber Regulations  
 Crown Timber Dues  
 Procedure to Cut Timber from Crown Lands  
 Systems of Forest Cropping  
 Manual of Scaling Instructions  
 Woodmen's Employment Act  
 Know Your Forest Trees  
 Tree Chart  
 Forest Trees of Ontario (50c. per copy)

*General*

Minister's Annual Report  
 Indians of Ontario  
 Ontario Forest Atlas (\$1.00 per copy)  
 The History and Status of Forestry in Ontario  
 Definitions of Important Branches of Forestry

## LECTURE TOURS

The lecture tours were highly successful in the past year. It is considered that the showing of motion pictures is one of the best means of influencing the public to become more careful in the use of fire in the woods, and in observance of the fish and game laws.

The feature pictures used were "To-morrow's Timber" and "Portage", supported by a number of short subjects. Towards the close of the year a fish and wildlife picture, entitled "Realm of the Wild" was purchased from a U.S. source. There is a great need for the production of conservation pictures in Ontario locale.

One picture, "Timagami Ranger" was produced under Department direction during the year, and will be available for showing at the start of the next fiscal year.

*Articles*

Forty-one press releases were issued during the year. In addition, data was supplied to reporters and editors for numerous articles. The 24,000 column inches of space given by Ontario newspapers to Department activities and interests represented a 20 per cent. increase over the previous year.

Fifty articles written by the staff of the Department, were published in magazines, in addition to over 1,000 news items. Several articles by feature writers were published in national magazines, based on material supplied by the Department.

LECTURE TOUR RECORD  
APRIL 1, 1946 TO MARCH 31, 1947

REGION	DISTRICT	SCHOOL MEETINGS		BOYS' & GIRLS' CAMPS		(1) PUBLIC MEETINGS		TOTALS 1946-7		TOTALS 1945-6	
		No.	Attend.	No.	Attend.	No.	Attend.	No.	Attend.	No.	Attend.
		Western	Kenora..... Fort Frances..... Stouffville..... Stouffville Lookout.....	37 1	3,432 83	..... ..... .....	..... ..... .....	8 22 15	503 2,134 1,610	45 23 15	3,935 2,217 1,610
Mid-Western	Port Arthur..... Geraldton.....	..... .....	..... .....	..... .....	..... .....	8 .....	400 .....	8 .....	400 .....	120 33	14,977 3,202
Central	Sault Ste. Marie.....	81	8,120	.....	.....	14	1,274	95	9,391	.....	.....
	Sudbury..... (2) Gogama..... (3) Chapleau..... North Bay.....	85 6 105	5,688 457 7,896	..... ..... .....	..... ..... 907	13 ..... 18	1,766 ..... 1,500	98 6 135	7,431 457 10,303	167 ..... 33	27,170 ..... 4,363
Northern	Kapuskasing..... Cochrane.....	29	7,814	.....	.....	6	872	35	8,716	40 72	4,792 8,239
	Parry Sound..... Algonquin.....	4	989	10 16	1,405 2,550	17 22	1,533 3,050	31 38	3,927 5,600	23 18	3,362 3,207
South Eastern	Quinte..... Rideau..... Trent.....	14 16 1	1,690 7,648 69	13 ..... 6	1,657 ..... 994	29 12 11	4,091 2,075 1,139	56 28 18	7,438 9,723 2,202	45 ..... .....	1,590 ..... .....
	Lake Simcoe..... Lake Huron..... Lake Erie.....	6 20 .....	1,372 5,702 .....	..... 1 .....	..... 23 .....	77 33 13	5,968 5,661 1,321	83 54 13	7,340 11,386 1,321	(4) 65 70 734	5,000 3,036 83,471

(1)—“Public Meetings” has reference to meetings at service clubs, various types of associations, logging camps, and forest communities.

(2) and (3)—The Gogama and Chapleau districts formerly formed parts of the Sudbury district.

(4)—The 65 meetings with an attendance of 5,000 were not included in last year's report. These meetings were put on by members of the head office staff.

## POSTERS

The following cards were issued during the year, for posting in Northern Ontario forests:

Campsite  
 Do Not Set Out Fires  
 Forest Fire Law  
 Forest Fires are Caused By  
 A Good Sportsman Stops to Smoke  
 He Is Burning Your Forest  
 Look Before You Leave  
 Timber Seizure Notice  
 Settlers and Others Burning Brush  
 Stop—Have You Got Your Travel Permit  
 Stop—Did You Put Out Your Campfire  
 Trespassing is Forbidden  
 Your Campfire

*Radio*

Seven 10-minute interview broadcasts were given over a Toronto station, and discs distributed to 16 Ontario stations for recording. All of these were informative.

Radio stations in Ontario rendered valuable assistance to District Foresters in broadcasting spot messages in connection with forest fires.

*Advertising*

A total of 98 advertisements were placed with Ontario daily and weekly newspapers, calling for tenders for the sale of Crown Timber. Sixty additional advertisements were placed in connection with the Railway Fire Charge Act, Culler's Examinations, sale and purchase of equipment, etc. An announcement of the opening of the hunting seasons for game birds was published in 350 Ontario daily and weekly newspapers.

Conservation appeals in the form of display-type advertisements were published in four Ontario dailies in connection with special events of associations.

Sixty-one conservation appeal display advertisements were published in magazines. Fourteen of these were in timber journals, and seven in special timber issues of business and financial periodicals. Of the balance, twenty-five were placed in fishing and hunting and outdoor magazines or sports programmes, three in farm journals, and twelve in war veterans, police, labour and like journals.

*School Work*

A forest fire prevention poster contest was conducted, in co-operation with the Department of Education, in the 34 School Inspectorates of northern Ontario. After preliminary selections by the schools and local committees, 285 posters were submitted to the final judging committee. The excellence of the posters, the instruction received by the pupils, and the fire prevention publicity accorded by the press and magazines fully justified the contest.

In addition to the lecture work by the staff in the schools and the general type of literature provided to teachers, it is felt that a limited variety of publications, specially prepared as teachers' aids, would be of great assistance in developing a greater natural resource consciousness in our oncoming generations.

## EXHIBITS

Many of the larger fairs, exhibitions, and sportsmen's shows which had been inoperative since early in the war, reopened in the 1946-47 season. A record of the exhibits placed by the Department during the year follows:

EXHIBITIONS	SPONSOR	PLACE	DATES	AREA	TYPE
International Plowing Match.....	Ontario Plowman's Assoc.....	Goderich	Oct. 14-18, 1946	75' x 25'	Reforestation, Fire Prevention, Fish and Wildlife.
Royal Winter Fair.....	Royal Agricultural Winter Fair Association.	Toronto	Nov. 12-20, 1946	83' x 42'	Reforestation, Fire Prevention, Fish and Wildlife.
Barrie Winter Fair.....	Barrie Winter Fair Association.....	Barrie	Dec. 5-6, 1946	32' x 12'	Reforestation.
Northern Ontario Outfitters' Assoc. Annual Meeting and Sports Carnival	Northern Ontario Outfitter's Assoc.	Sudbury	Feb. 2-4, 1947	35' x 10'	Fish and Wildlife, Recreation Land Sales, Fire Prevention.
Hamilton Sportsmen's Show.....	Hamilton Angling & Hunting Assoc.	Hamilton	Feb. 28, 1947	30' x 10'	Fish and Wildlife, Fire Prevention.
Western Sportsmen's Fair.....	Thames Boat Club.....	London	Mar. 17-22, 1947	72' x 20'	Fish and Wildlife, Reforestation, Fire Prevention.
Brantford Sportsmen's Show.....	Brant Rod & Gun Club.....	Brantford	Mar. 28-29, 1947	40' x 15'	Fish and Wildlife, Fire Prevention.

In addition to the above, a number of small exhibits were placed by the reforestation field staff at County fairs.

With the re-opening in the coming year of the Canadian National Exhibition at Toronto and the Central Canada Exhibition at Ottawa, together with the prospect of very large scale sportsmen's shows in these same cities, the staff will be heavily taxed in the planning, construction and servicing of exhibits.

*Correspondence*

The volume of correspondence in response to letters of inquiry for information increased considerably over past years, due particularly to the inclusion of general inquiries concerning fish and wildlife, amounting to approximately 4,200 letters with reference to this subject alone.

*Miscellaneous Activities*

In addition to other duties in connection with preparation, statistical compilation, research, distribution, and business routine, the Information and Education staff conducted tours of inspection with visitors, gave public relations training to other staff members, and attended meetings and conventions.



NORTHUMBERLAND FOREST—AN AREA REFORESTED BY THE DEPARTMENT OF LANDS AND FORESTS.



## DIVISION OF REFORESTATION

### *Distribution of Trees*

The distribution of trees for the year under review reached a figure of 13,175,000, an increase of 2,000,000 over that of the previous season. This increase was largely due to the increased demand by private landowners.

On a cross-section study made of the results of this distribution, it was found that on private planting a very large percentage of loss had occurred. This was especially true of those trying to develop hardwood plantations on heavy clay soil. The losses sustained are attributed to a large number of causes, the outstanding being improper or careless planting, grass and weed competition, along with loss from rodents such as mice and rabbits, and a large percentage of loss from grazing.

It should be emphasized that the successful distribution of forest trees, and their proper development, is dependent on correct plans being made, through experienced forest officers or trained men in the field.

### *Distribution to Schools*

Interest has continued in school planting through the competitions organized by the Ontario Horticultural Association. Trees sent out under these Competitions numbered 560,000.

### *Seed Collection and Extraction*

This past season's seed crop was disappointing, as our important conifers, such as Red Pine and White Spruce, produced a very poor crop. There was a good crop of White Pine seed. This condition was brought about owing to the abnormal temperatures of early Spring, when hot weather and following freezing occurred during the flowering stage.

### *Provincial Stations*

A new Forest Nursery and Provincial Forest Station has been established in North Western Ontario, near Port Arthur and Fort William. This Station, containing 400 acres, is located in the Township of Paipoonge. It is expected that this Nursery will provide planting stock for reforestation projects in North Western Ontario. It was found unsatisfactory to ship material from the older Stations in Southern Ontario.

TABLE NO. 1  
SUMMARY OF TREES DISTRIBUTED  
(July 1, 1945 to June 30, 1946)

	Total Shipments	Conifers	Hardwoods	Total Trees
<b>PRIVATE LANDS:</b>				
Reforestation and Windbreaks.....	5,696	8,062,231	1,152,893	9,215,124
School Children.....	651	401,770	158,378	560,148
<b>SEMI-PUBLIC PROPERTIES.....</b>				
	74	126,954	33,458	160,412
<b>MUNICIPAL PROPERTIES:</b>				
Municipal Forests.....	44	1,576,050	145,100	1,721,150
Forest Plantations.....	29	175,050	23,100	198,150
Roads.....	29	187,625	7,875	195,500
School Demonstration Plots.....				
Sundry.....	12	9,115	5,800	14,915
<b>PROVINCIAL CROWN LANDS:</b>				
Northern Plantations.....	6	483,200	14,700	497,900
Forests.....				
Ranger Plantations.....	3	2,425	100	2,525
Air Services.....				
Nurseries.....	2	2,700	2,350	5,050
Parks.....	4	10,800	900	11,700
Highways.....	3	91,600	33,675	125,275
H.E.P.C.....				
Hospitals.....	1	500		500
Penal Institutions.....	3	50,750		50,750
Sundry.....	8	114,425	24,410	138,835
<b>DOMINION CROWN LANDS.....</b>				
	17	181,781	9,545	191,326
Sub-totals.....		11,476,936	1,612,284	13,089,260
<b>MISCELLANEOUS.....</b>				
	21	55,880	30,435	86,315
Totals.....	6,603	11,532,856	1,642,719	13,175,575

TABLE No. 2  
TREES DISTRIBUTED TO PRIVATE LANDOWNERS  
(July 1, 1945 to June 30, 1946)

County or District	Applicants	Conifers	Hardwoods	Totals
Algoma	18	36,045	1,721	37,766
Brant	159	168,416	65,393	233,809
Bruce	123	142,642	28,683	171,325
Carleton	66	35,190	10,949	46,139
Cochrane	3	1,595	115	1,710
Dufferin	51	58,437	4,352	62,789
Dundas	41	30,892	16,696	47,588
Durham	148	601,600	47,328	648,928
Elgin	181	424,299	58,448	482,747
Essex	141	98,804	25,764	124,568
Frontenac	32	31,948	10,182	42,130
Glengarry	36	12,897	4,939	17,836
Grenville	19	12,165	1,827	13,992
Grey	226	210,123	26,056	236,179
Haldimand	109	99,542	35,247	134,789
Haliburton	36	61,525	3,835	65,360
Halton	111	156,754	29,799	186,553
Hastings	58	90,855	13,332	104,187
Huron	112	84,716	39,378	124,094
Kenora	5	9,025	1,350	10,375
Kent	56	120,885	16,560	137,445
Lambton	116	201,190	17,264	218,454
Lanark	27	33,675	4,961	38,636
Leeds	68	50,030	11,187	61,217
Lennox and Addington	34	48,900	6,758	55,658
Lincoln	91	43,583	14,759	58,342
Manitoulin	6	8,300	3,900	12,200
Middlesex	219	261,679	39,720	301,399
Muskoka	160	426,014	18,689	444,703
Nipissing	6	7,325	115	7,440
Norfolk	279	557,981	51,559	609,540
Northumberland	98	130,360	26,785	157,145
Ontario	207	333,191	36,330	369,521
Oxford	124	231,090	43,091	274,181
Parry Sound	72	372,300	8,680	380,980
Patricia				
Peel	198	223,105	35,979	259,084
Perth	70	58,522	38,470	96,992
Peterborough	212	184,315	23,256	207,601
Prescott	12	23,206	5,375	28,581
Prince Edward	34	26,805	3,862	30,667
Rainy River	4	990		990
Renfrew	29	20,650	4,030	24,680
Russell	14	18,261	1,418	19,679
Simcoe	465	1,007,265	67,637	1,074,902
Stormont	23	22,277	12,414	34,691
Sudbury	12	7,900	4,270	12,170
Thunder Bay	9	18,925	1,425	20,350
Timiskaming	10	6,525		6,525
Victoria	51	72,970	9,505	82,475
Waterloo	153	181,265	37,151	218,416
Welland	151	104,115	25,913	130,028
Wellington	81	74,861	18,626	93,487
Wentworth	123	153,077	26,749	179,826
York	812	663,194	111,061	774,255
Totals	5,696	8,062,231	1,152,893	9,215,124

TABLE No. 3  
NUMBER OF TREES DISTRIBUTED EACH YEAR—1937-1946

	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946
Conifers.....	9,247,200	9,984,368	13,963,646	13,831,098	10,916,196	9,480,743	8,434,371	9,232,205	9,649,424	11,532,856
Hardwoods.....	1,350,371	1,740,752	2,487,607	2,907,437	2,327,438	1,621,904	1,896,198	1,767,174	1,631,557	1,642,719
Cuttings.....	418,173	527,415	470,653	528,162	237,665	200,540	192,348	.....	.....	.....
Totals.....	11,015,744	12,252,535	16,921,906	17,266,697	13,511,299	11,303,187	10,522,917	10,999,379	11,280,981	13,175,575

## DIVISION OF RESEARCH

The Research Division completed a year of expansion during 1946 despite the fact that competent research personnel are difficult to obtain at any time, and particularly so under existing conditions of active competition from industry and educational institutions.

During the year three additional staff members were given full time employment; a botanical geneticist, a mammalogist, specializing in wildlife; and a fisheries biologist. It is hoped to be able to add further to the staff when competent, thoroughly trained people are available.

Because of the nature of research work, and the Division's stage of development, it is felt that only the highest grade of staff available should be considered for permanent appointments.

The urgency of many of the investigations looking to the expansion and continuity of forest operations, remains unchanged, and in many cases has been accentuated by the cumulative results of war wastage and the growing need for more efficient utilization and protection.

The Division's whole field of work has been broadened by the amalgamation of the Game and Fisheries and Lands and Forests Departments.

The following is a summary of the work carried out during the fiscal year 1946-47. Separate special reports have been made on all completed phases of the work.

The following is a summary of people employed by this Division during the year:

<i>Permanent</i> . . . . .	4 Foresters 1 Mechanical Engineer 1 Soils Specialist
	— 6
<i>Continuous Temporary</i> . . . . .	1 Forester Geneticist 1 Chemist 3 Draughtsmen 3 Mechanics 1 Building Superintendent
	— 9
<i>Casual (Students)</i> . . . . .	30 Forestry undergraduates 18 Biology undergraduates 6 Other Course undergraduates 9 High School Students
	— 63

The program covered during the year is outlined under the following headings:

I. *Biological Studies*

Silviculture  
Soils  
Smelter Fumes  
Forest Genetics



ANALYZING THE SULPHUR-DIOXIDE CONTENT OF THE AIR FROM AN AIRCRAFT.

Artificial Reforestation by Seeding  
Game and Fisheries  
Forest Pest Control

II. *Economic and Management Studies.*

III. *Mechanical and Electrical Investigations.*

#### I. BIOLOGICAL

##### *Silviculture:*

The general object of these studies is to obtain information for sustained forest management. The work of the Research Division in the period reported on was undertaken to determine the adequacy of stocking of desirable species following cutting and fire and to devise methods to correct deficiencies. Experiments are or will be set up to check the results from recommended procedures in actual practice.

Surveys under this heading were carried on in the following areas in 1946:

- (1) Northern Clay Belt in the Kapuskasing District. This survey was under the direction of Professor R. C. Hosie and was originally organized in 1945 as a cooperative effort with the University and the Spruce Falls Power & Paper Co. The 1946 survey was intended to complete the work of 1945. A report has been published on both seasons' work.
- (2) In the Goulais River area north of Sault Ste. Marie. This work was undertaken in 1945 to study the effects of logging on a mixed stand and was undertaken as a cooperative effort with the Dominion Government. The main effort during the past summer was to relocate sample plots set out during the late 20's. No report has as yet been issued by the Dominion Forest Service who control this project.
- (3) In the Port Arthur and Kenora Districts. These surveys were undertaken to study regeneration following logging and fire. The species studied were mainly spruce, jack pine and poplar. The work was organized by the Research Division and was under the general direction of Mr. Peter Addison and Mr. Wilson Cram, Regional Foresters at Port Arthur and Kenora respectively. The field work was conducted by A. P. Leslie and H. C. Larsson, assisted by 18 students. Some 150,000 acres were examined during the season.

##### *Soils:*

The main object of this work is the separation of agricultural and forest soils and the classification of forest soils to ensure their most productive use. It was carried on under the direction of G. A. Hills. Field work was mainly in the Cochrane District and covered approximately 50,000 acres. A soil analysis laboratory was established at the Southern Research Station near Maple, Ontario. The results of these soil surveys can be used as a guide to land settlements and will also define the area of the Province which should be used for the growing of forest products.

##### *Smelter Fumes:*

This study is a continuation of the work of 1944-45 to determine damage to the forest by fumes from smelters at Sudbury and Falconbridge. Field work consisted of aerial sampling in the smelter smoke and on the ground using an

automatic recorder in the plane. Automatic ground recorders have now been set up at Bear Island, Emerald Lake, Skead, Capreol, Crystal Falls, Burwash and Lake Penage. The assistance of Mr. A. W. McCallum, Pathologist of the Dominion Department of Agriculture, and Dr. George Duff, of the University of Toronto, was obtained in studying pathological effects on trees and the deterioration of killed material. Meteorological effects were studied by the Dominion Meteorological Service. A secondary laboratory site was selected near Thessalon for controlled experiments in fumigation to be made in 1947.

#### *Forest Genetics:*

The services of a competent geneticist, Dr. C. C. Heimburger, were obtained in August of 1946. Dr. Heimburger will proceed with his work on the selection of a blister rust resistant strain of white pine and an aspen which will combine good growth, disease resistance and good pulping qualities. He has also started the establishment of an arboretum at Maple of all declimatized trees.

#### *Artificial Reforestation by Seeding:*

This project dealing mainly with the use of coated seed on burned areas commenced in the fall of 1946 and several burned areas were sown experimentally by hand and from an airplane. Seeds were coated at the Maple station using a combination of insecticides, rodent repellents and fertilizers.

A study of the seeding habits of pines, particularly red pine, was started this year under the direction of Dr. George Duff, of the University of Toronto, assisted by two undergraduates. This work is necessary because little is known of the seeding habits of trees or why their seed production is sporadic. It is thought that as a result of this work it may be possible finally to produce regular cone crops from plantation pine at an economic cost. This will reduce the uncertainty now attending naturally grown supplies of seed.

#### *Game and Fish:*

The main object of these studies is to increase the game and fish resources of the Province. Fisheries surveys were carried out during this season under the direction of Dr. W. J. K. Harkness and Dr. F. E. J. Fry in Algonquin, Sibley and Quetico Parks and in Lake Erie and Lake Ontario. The principal studies were directed towards the effect of coarse fish on game and commercial species and the improvement resulting from a balanced removal of all species or, in some cases, a heavy removal of coarse fish and restocking with desirable species.

Studies of habitat relationships such as water temperatures and food content in relation to fish numbers and health were continued at the Fish Laboratory near Whitney. Studies of planting Atlantic salmon were made in Duffin's Creek near Pickering, Ontario.

Wildlife studies were carried out under the direction of Dr. C. H. D. Clarke, assisted by 8 students, in Algonquin Park. A wilderness area of 30.5 sq. miles for the study of wildlife under natural conditions was established in Algonquin Park in 1944 and work was continued in this area. The principal study was directed towards obtaining a method of assessing animal populations that can be applied in forest and game management. The problem of animal diseases also received attention.



*Forest Pest Control:*

The object of this project was a thorough investigation of the possibility of controlling major forest insect infestations by the use of insecticides applied from aircraft. Following the program of 1945 when 100 square miles were sprayed, an additional 40 square miles were sprayed in the Thunder Bay district. This work organized by the Department received important contributions from the R.C.A.F. and the Science Service of the Dominion Department of Agriculture. The efficiency of the experiment was greatly increased over 1945, when five Canso planes under contract were used. In 1946 one Canso plane owned by the Department covered almost half the area sprayed in 1945. The total cost of the spraying operation amounted to \$3.23 per acre. Application of DDT ranged from 2 to 4 pounds per acre and a kill of budworm of over 90 per cent resulted from the 2 pound per acre application. A report has been issued.

## II. ECONOMIC AND MANAGEMENT STUDIES

Some further work was carried out in connection with the study of stumpage as a basis for charges in timber disposal. All operators in Southern Ontario were canvassed as to willingness to cooperate in these studies, but no proper field work could be carried on because staff with the proper qualifications for this work are not yet available.

A study of the economics of cutting small pine was commenced in the southeastern part of Ontario by Mr. M. V. B. Ardenne, assisted by two students. This work would aid the Department and the operators in determining where profit ends and loss begins in the cutting of small timber. The result should make it easier to retain small timber for its full economic rotation.

## III. MECHANICAL AND ELECTRICAL INVESTIGATIONS

The main mechanical building of the Research Station near Maple was completed and mechanical work was undertaken. Tests of various commercial forest fire pumping units were carried out as well as tests of fungicides for preventing decay of fire hose. A prototype cone extracting machine using infra red heat lamps was constructed. Some 40 jeeps and vehicles purchased by the Department were overhauled before being put into field use.

A superintendent's residence was completed, also a garage for storage of eight vehicles. A complete soils laboratory for physical and chemical analysis of soils was set up. A start was made on a fisheries research laboratory which will feature the unique "artificial lake", where any condition found in natural lakes may be recreated in the laboratory and thus aid in obtaining knowledge of fish that will facilitate artificial and natural stocking and fish culture of all kinds. A test well for water supply to this laboratory was drilled and an adequate supply of high quality water assured.



A LOW ALTITUDE VERTICAL AERIAL PHOTOGRAPH OF THE SOUTHERN EXPERIMENTAL STATION AT MAPLE, ONTARIO.

## DIVISION OF SURVEYS AND ENGINEERING

The further development of the natural resources increased the activities of the Department as a whole and this was reflected in the work undertaken by this Division. In so far as qualified personnel were available, efforts were made to cope with the backlog of field and office work that had accumulated as the result of personnel shortages during the past years.

In the Forest Inventory Project as undertaken by the Department over a five year plan, the Division of Surveys and Engineering is responsible for covering 18,000 square miles by vertical photography and the preparation of planimetric maps to a scale of four inches to one mile. An area of 5,054 square miles has been photographed during the past fiscal year. Ground control surveys were undertaken in the Districts of Cochrane and Thunder Bay to provide accurate and sufficient ground control points in areas previously unsurveyed.

The preservation of our survey records, representing land surveys carried out over the length and breadth of the Province over the past 150 years, is most important. The work of microfilming the field books was commenced this year and the films stored in fireproof containers.

The following aerial and ground surveys were undertaken during the fiscal year ending March 31st, 1947:

## GROUND SURVEYS SECTION

Survey instructions were issued for the following surveys:—

*Crown Surveys*

1. Base line survey in the District of Cochrane, extending from Maund Township to the boundary between the Provinces of Ontario and Quebec. This survey required to provide ground control for aerial photography in connection with the forest inventory project.
2. Re-establishing an original survey corner on Gold Island, Township of Cody, District of Cochrane.
3. Survey of additional building lots at Longlac, in the Township of Daley, District of Thunder Bay.
4. Survey of additional building lots in the Townsite of Alexandra, Township of Shackleton, District of Cochrane.
5. Resurvey of part of the boundary between townships 83 and 84, District of Thunder Bay.
6. Survey to locate building encroachments on Crown Lands, below high water mark, in the Improvement District of Wasaga Beach, Township of Sunnidale.
7. Retracement Survey of the boundaries of the Township of Hearst. (Survey costs borne by the Department of Mines).
8. Retracement survey of the north, west and south boundaries of the Township of McElroy (Survey costs borne by the Department of Mines).
9. Control traverse of part of the Aguasabon River, District of Thunder Bay.
10. Retracement survey of part of the third concession from lots 1 to 12 inclusive, Township of Methuen, County of Peterborough.

11. Retracement survey of certain boundaries in the Townships of Rolph, Head, Maria, Clara, Cameron, Papineau and Mattawan. (Survey costs borne by The Hydro-Electric Power Commission of Ontario).
12. Retracement of boundary between concessions VII and VIII from lot 31 to the west boundary of the Township of Cornwall and the establishment of certain corners of Township lots.
13. Retracement survey to delimit the boundaries of lots 37, 38, 39 and 40, Con. II, N.R. Township of Watten, District of Rainy River.

#### *Municipal Surveys*

- No. 818—Jarvis Street, between King and Queen Streets, City of Toronto.
- No. 820—Parts of the line between concessions IX and X, Township of North Walsingham, County of Norfolk.
- No. 821—South boundary of the township of Lake, County of Hastings, across Concession 5 and the line between Concessions 1 and 2, Lots 1 to 32 inclusive.
- No. 822—Boundary line between the townships of Methuen and Belmont in the County of Peterborough, from the 5th concession line easterly to the boundary between the Townships of Marmora and Lake.

#### *Private Surveys on Crown Lands*

Under authority of Section 37 of the Public Lands Regulations, 388 summer resort locations were surveyed and the returns of survey filed in the Department. One hundred and thirty surveys of this number were surveyed under direct departmental instructions to the surveyor where the applicant paid in the sixty dollar survey fee as specified in Section 37 of the Public Lands Regulations.

Under provisions of the Mining Act, the survey returns of 840 mining claims were filed in the Department for examination and approval.

#### *Townsite Subdivisions*

The following subdivisions of land affected by the provisions of the Townsites Act were surveyed on privately-owned lands, and approved by Orders-in-Council. A cash consideration was accepted by the Crown in lieu of selecting one quarter of the number of lots as surveyed.

<i>Designation of Subdivision</i>	<i>Date of Order-in-Council</i>
1. Part of Mining Claim MR 6252, Township of Cairo in the Townsite of Matachewan, District of Timiskaming.....	April 9th, 1946.
2. Part of mining claim T.B. 4882, Township of Summers, Dillabough Townsite, District of Thunder Bay.....	Oct. 15th, 1946.
3. Part of Lot 7, Concession 5, Township of Merritt, District of Sudbury.....	Oct. 15th, 1946.
4. Part of mining claim MR 9947 and MR 10263, Township of Cairo, in the Townsite of Matachewan, District of Timiskaming.....	Oct. 15th, 1946.
5. Part of lot 1, Concession 3, Township of Mountjoy, District of Cochrane.....	Nov. 14th, 1946.

*Map Publications*

The following maps and booklets were revised and printed:—

Map 21c—District of Timiskaming and Parts of Sudbury and Nipissing. 5,000 copies of 1944 edition reprinted with some revisions to township names and district boundary colour scheme changed to full colours.

Map 23a—District of Thunder Bay, revised edition; 5,000 copies lithographed in full colours.

Map 21a—Southern Part of Province of Ontario. Reprint edition of 5,000 copies.

Booklet—"List of Townships" revised and reprinted. 1,000 copies.

List of—Maps and plans issued by the Division of Surveys and Engineering—revised and reprinted 5,000 copies.

A group of five maps was compiled, reproduced and lithographed relative to the book "Algonquin Story" published under the supervision of the Division of Operation and Personnel—10,000 copies of each of the following maps printed:

- (a) Topographic map of Huron and Ottawa Territory.
- (b) Area of Algonquin Provincial Park.
- (c) Exploration map of Huron and Ottawa Territory.
- (d) Map showing colonization roads in and around Algonquin Provincial Park.
- (e) Watershed map of Algonquin Provincial Park.

*Distribution of Maps*

This Division is the central point for map distribution covering all Provincial issues and also the National Topographic Series for Ontario, as published by the Department of Mines and Resources in Ottawa. These maps are for sale to the public and distributed without charge for official Departmental use and publicity purposes. The acquisition of Crown Lands for summer resort purposes has increased considerably over past years, which, together with additional tourist activity, has resulted in an increased demand for maps as compared to the number distributed during the previous fiscal year.

*Distribution of Maps*

National Topographic Series.....	10,535
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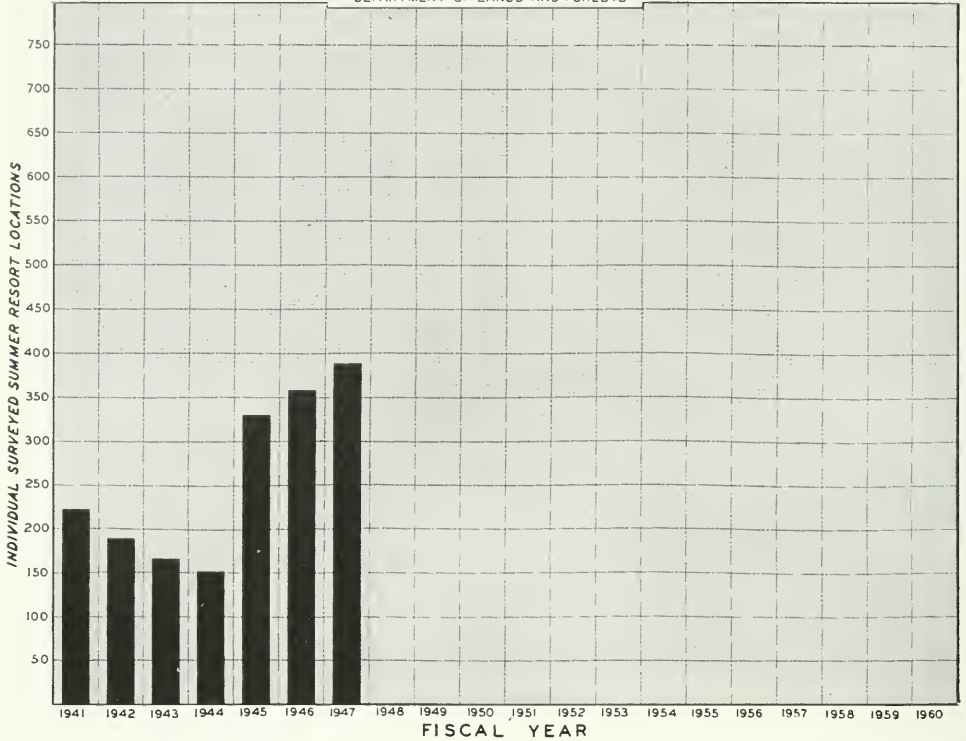
*Provincial Maps*

20A (Free Issue).....	3650
District Maps.....	7378
Island Maps.....	600
42A (Township).....	1772
33A (Electoral).....	141
Miscellaneous.....	3103

Total.....	16,644	16,644
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Grand Total.....	27,179
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SURVEYED SUMMER RESORT LOCATIONS ON CROWN LAND EXAMINED BY THE  
DIVISION OF SURVEYS AND ENGINEERING  
DEPARTMENT OF LANDS AND FORESTS



Of the total number of maps distributed, approximately twenty per cent were distributed, without charge, for the official use of Provincial and Dominion Departments, Clergy, Red Cross and for educational and publicity purposes.

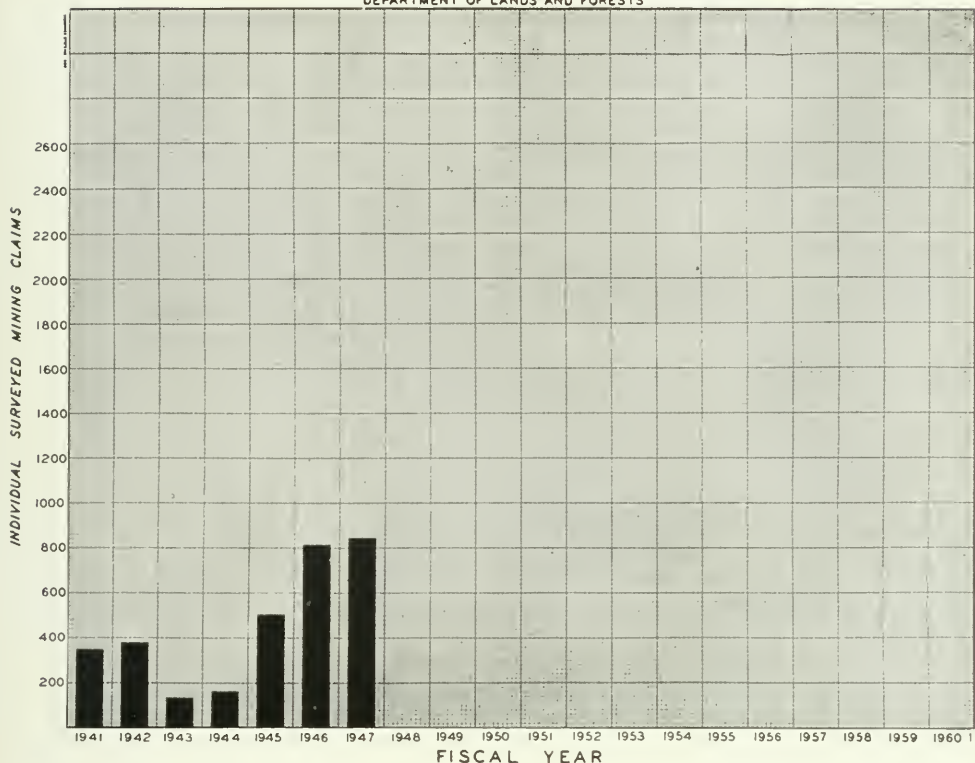
Cash receipts "over the counter" for maps, photostats and printing show an increase of approximately 30% over the previous year. The "over the counter" receipts represent 3,000 customers. Approximately an additional 5,000 over-the-counter enquiries were made by Departmental or Divisional personnel relative to maps and survey records.

5,000 letters of request for maps and copies of survey records were received and dealt with during the year. Revenue from this source shows an increase of 20% over the previous year.

### *Survey Records*

This office has custody of all survey records of surveys made under instructions from this Department and other types of surveys affecting Crown lands. Copies are available to the public at the prescribed rates, and for official Departmental use. The returns of survey made each year comprising plans and field notes are registered, indexed and the field notes bound and filed. Numerous requests for copies or information pertaining to these survey records are received each year for Ground Survey purposes and as ground control for Aerial Photography and many other uses.

**SURVEYED MINING CLAIMS ON CROWN LAND EXAMINED BY THE  
DIVISION OF SURVEYS AND ENGINEERING  
DEPARTMENT OF LANDS AND FORESTS**



*Number of Survey Records on File*

Municipal Survey Plans (Approximately).....	800
Municipal Survey Field Notes (Approximately).....	800
Crown Land Survey Plans, mounted, filed flat, comprising original Townships, Townsites, Islands, Indian Reserves, and Miscellaneous.....	2,500
Rolled Plans—Same as above, and including Railways, Power Transmission Lines, Flooding Lakes and Island Traverses, Subdivisions, etc.....	4,300
Filed Flat in Volumes—Partial Township Plans, Island Plans, Mining Location Plans.....	7,000
Crown Land Survey Field Note Books (Representing some 2800 surveys).....	2,700
Miscellaneous Volumes—including Crown Land and Municipal Instruction Books, Letters Written, Letters Received and Letters Relating to Surveys, Field Note Volumes, Surveyors Letters, etc.....	350

In order to ensure preservation of the survey records, many of which are over 100 years' old and fast deteriorating with age, plans are being formulated for the treatment of original maps by a chemical process and the services of a bookbinder were obtained with the work of repairing and recovering all field note books and other volumes commenced in the latter part of January, 1947. Under this plan, the microfilming of all of the original survey records was also commenced in the latter part of January. By the end of this fiscal year, 1881 field note books and 94 other volumes representing a total of 259,000 pages had been microfilmed. For the present, it is planned to continue to use the original records and have the microfilmed negatives available for reproduction purposes in the event of the original records becoming indistinguishable with age.

It is planned to re-index and catalogue all of these records as time permits. In this connection the only progress made during this fiscal year was on the re-indexing of the field note books and the separation of all municipal survey records from the Crown Land Surveys. Plans only were formulated on the card index system for the re-indexing and cataloguing.

### *Photostating*

In November, 1946, the Photostat Section was transferred from the Aerial Survey Section to the Ground Surveys under the supervision of the Map Office, which is the central point for the ordering of all photostatic material for this Department. A notable item was the supplying of some 25,000 photostatic copies of pages of field notes for the aerial mapping portion of the Forest Resources Inventory Programme.

The photostat service is available to other Departments of the Government, insofar as the copying of their records is concerned, at the prescribed rates. This service extends also to Commissions of the Government and the public for copies of records held in this Department and work pertaining thereto.

It is estimated that it costs 15c to produce one square foot of photostat copy. Some 45,000 square feet of photostat paper was used during the fiscal year. The following is the approximate square footage of photostatic paper used for Departmental Divisions and District Offices, other than this Division, during the year:—

DIVISIONS	
Accounts.....	130
Forest Protection.....	110
Land & Recreational Areas.....	310
Law.....	340
Main Office.....	120
Operation & Personnel.....	1,200
Reforestation.....	70
Research.....	210
Timber Management.....	2,000
Forest Resources Inventory.....	16,480
Fish & Wildlife.....	30
Total.....	21,000
—or 46½% of the Total	



## DISTRICT OFFICES

Cochrane.....	5
Fort Frances.....	410
Geraldton.....	20
Kapuskasling.....	140
Pembroke.....	70
Port Arthur.....	30
Sault Ste. Marie.....	75
Sioux Lookout.....	1
Sudbury.....	135
Tweed.....	30
Chapleau.....	75
Gogama.....	5
Trent.....	90
Total.....	1,086
—or 2½% of the Total	
GRAND TOTAL.....	22,086 Sq. Ft.
—or 49%	

The balance or approximately 51% of the paper used was for the official work of this Division and for reproduction work for other Departments of the Government and the general public.

*Blue and OCE Printing*

The making of Blue and OCE prints is done through sources other than this Department. The orders placed through the Map Office represented some 116,000 square feet of paper for the whole Department, including the District Offices. Ground Surveys alone used approximately 57,000 square feet of paper, for office use and re-sale purposes.

Through public demand a stock of prints taken from Township plans, covering Parry Sound District are now available in this office. These plans are a compilation of the original survey with the Aerial Photography work as taken from the National Topographic Series maps.

## AERIAL SURVEYS SECTION

This Section covered 10,708 square miles with vertical photography during the above Fiscal Year.

Of this total, 9,772 square miles were for our own and other Departments of the Provincial Government, (including H.E.P.C.) while the remaining 936 square miles were for outside concerns.

Below is a table giving a breakdown of these figures.

	Area (Sq. Miles)	Totals
FOR OUTSIDE COMPANIES		
Owen Sound, Town Planning.....	15	
*J. A. Mathieu, Rainy Lake.....	388	
Union Gas Company.....	50	
Ontario-Minnesota P. & P. Co.....	323	
Bell Telephone Co.....	160	
		936
OTHER GOVERNMENT DEPARTMENTS		
Agriculture.....	73	
Highways.....	594	
*H.E.P.C.....	806	
*Mines.....	515	
Planning and Development.....	1,713	
		3,665
DEPARTMENT OF LANDS AND FORESTS		
*Talon Lake.....	28	
Rondeau Park.....	15	
Kenora District.....	678	
*Batchewana Extension.....	332	
*Inventory.....	5,054	
		6,107
Grand Total.....		10,708

\*Denotes Mapping Included.

## DIVISION OF TIMBER MANAGEMENT

During the season of 1946-47 there was still a strong demand for all kinds of forest products, resulting in continued activity in timber operations throughout the Province.

Although labor conditions were effected by the fact that prisoners-of-war were no longer available, this condition was to some extent offset by the return to bush operations of war service personnel and available civilians. As a consequence the timber operators were able to maintain production.

Weather conditions were generally favorable throughout the season enabling the operators to get their timber to the mills without delay.

A statement of timber cut during 1945-46 season and returned in 1946 is shown on Page 158, Table No. 1.

Statements showing production by administrative districts of the Province for the 1945-46 season are also shown on Pages 159-171, Tables No. 2 to 2L inclusive.

## FOREST RESOURCES INVENTORY

A post war project of considerable importance "The Forest Resources Inventory" was organized and placed in operation early in the year. The method adopted after a thorough study of existing methods and the remarkable advances in aerial photography during the war involved a complete coverage of the forested area of the Province by the most up to date aerial photography. From this, planimetric base maps were to be prepared and volumetric estimates made from a combined use of aerial photographs and the standard methods of ground survey.

The area to be covered consisted of 140,000 square miles. Of this area the aerial photography and planimetric mapping on 125,000 square miles was let by contract to the Photographic Survey Company, Ltd., the balance of 15,000 square miles to be done by the Aerial Surveys Section of the Division of Survey and Engineering of the Department of Lands and Forests.

The Aerial Photography was underway by June 1st and continued throughout the summer and fall season. An area of 29,777 square miles of aerial photography was completed under contract and an additional area of photography was completed by the Department.

Planimetric mapping was underway by November and by February delivery of base maps from the contractor were started and 4,429 square miles were delivered by the end of the year.

Type mapping from aerial photographs was started on receiving delivery of base maps. An area of 3,600 square miles being completed by the end of the year ready for field checking and final checking of maps and completion of the inventory.

## MANAGEMENT PLANS AND CONTROL

In writing more recent pulpwood and timber concession agreements in accordance with the Forest Management Act of 1947, clauses have been incorporated which provide for the submission of plans for the operation and management of the concession areas on a sustained yield basis or to maintain their production capacity. In order to supervise the preparation of these plans, the work has recently been put under the direction of a forester appointed for that purpose. It is his duty to prepare the outlines of the minimum requirements



LOADING TIMBER ON A TRUCK FROM A BOOM ON HERRIDGE LAKE.

for the compilation of plans to work in co-operation with the operators in their preparations, to analyze them when submitted, and put into effect the control necessary to assure the application of the plans as approved by the Department.

Additional foresters have been assigned to supervise current management projects in the Districts, and as the plans of the various operators are approved and additional Crown management units are established, management foresters will take over active control of this phase of timber management.

As at the end of March, 1947, fifty agreements have been written, covering approximately 60,000 square miles, which contain clauses providing for some form of management control through the submission before beginning operations.

During the past year the available information on the preparation of management plans of other forest authorities was reviewed, as were the agreements, to obtain a basic understanding of their requirements. A manual was prepared outlining the minimum requirements for working or management plans, operating plans, and annual cutting applications and the compilation of forest survey data collected to form a basis for such plans and applications. When completed this manual was forwarded to all the operators concerned.

Plans are now being received from operators, a substantial indication that the industry is prepared to co-operate in this program. Many more are actively engaged in the preparation of plans, but owing to the shortage of foresters available for conducting this work as a result of war conditions, there has been considerable delay. Now that the war is over it is expected that the conditions will be stabilized considerably and a great expansion in this program will become evident.

Arrangements have been made to have a closer check on proposed operations through the requirements of more detail in annual cutting applications and the subsequent inspection of woods operations. By means of the control planned there will unquestionably be much better utilization and less opportunity for the continuation of wasteful practices which were difficult to control under war conditions.

#### TIMBER SALES—1946-47

Details of the 78 new sales of timber made during the season, indicate that 560 square miles of timber limits were sold.

During the season 53 timber licences, comprising 158.25 square miles, were abandoned.

The status of the timber licensed areas in Ontario as at March 31st, 1947, was therefore as follows:

	Area	
	No.	Sq. Miles
Licences and Renewals Issued 1946-47.....	878	11,276.25
Licences, in Suspense:.....	28	433.75
Total	906	11,710.00

This is 702.25 square miles less than that under licence as at March 31st of the previous year. The 934.25 square miles not accounted for by new sales and abandonments, is the result of adjustments in the areas of individual timber licences.

*Pulpwood and Timber Agreements—1946-47*

Area under pulpwood concession and timber agreement as at March 31st, 1947—56,745 square miles.

## MILLS LICENSED 1946-47

The mills licensed during the season under the Mills Licensing Act were as follows:

Less than 5,000 ft. daily capacity.....	506
5,000 ft. to 30,000 ft. daily capacity.....	655
Over 30,000 ft. daily capacity.....	42
Number of Paper Mills.....	35
Total	1238

## PULPWOOD EXPORTS

Detailed statements of pulpwood exports are shown on Pages 172 and 173.

## SCALING

Scalers examinations were held during 1946 as follows:

(1) Fort William (2).....	June 29th Sept. 28th
(2) Minden.....	May 10th
(3) Swastika.....	Nov. 2nd
(4) Thessalon.....	May 31st

The results were as follows:

	Fort William	Minden	Swastika	Thessalon
Number of Candidates.....	95	46	47	48
Number obtaining full licences...	29	10	9	19
Number obtaining Sawlog licences ..	..	..	2	5
No. obtaining Pulpwood licences..	10	3	8	8

The remainder of the candidates were either recommended for licence after further experience, or were not successful.

## AREA UNDER PULPWOOD AND TIMBER AGREEMENT

FISCAL YEAR	SQ. MILES
1937-38.....	54,625.50
1938-39.....	62,643.00
1939-40.....	65,330.00
1940-41.....	65,497.50
1941-42.....	66,509.50
1942-43.....	71,636.50
1943-44.....	56,690.50
1944-45.....	59,353.00
1945-46.....	53,754.00
1946-47.....	56,745.00

## TABLES

Table No. 1—Statements of amounts of timber cut during the year ending March 31, 1946.

Table No. 2—Classification of annual timber returns for the year ending March 31, 1946, by Districts.

- 2 Algonquin
- 2a. Cochrane
- b. Fort Frances
- c. Geraldton
- d. Kapuskasing
- e. Kenora
- f. North Bay
- g. Parry Sound
- h. Port Arthur
- i. Sault Ste. Marie
- j. Sioux Lookout
- k. Sudbury
- l. Tweed

Table No. 3—Exported pulpwood—cords, for the year ending March 31, 1946.

Table No. 4—Exported pulpwood—species, for the year ending March 31, 1946.

Table No. 5—Timber areas sold during the year ending March 31, 1947.

Table No. 6—Timber areas abandoned during the year ending March 31, 1947.

Table No. 7—Timber areas transferred during the year ending March 31, 1947.

TABLE NO. 1  
STATEMENT OF AMOUNT OF TIMBER CUT  
FOR THE YEAR ENDING MARCH 31, 1946

Species	Pieces	Feet	Cords	Equivalent Volume in Cubic Feet
White and Red Pine.	2,408,570	114,356,073		30,549,783
Jack Pine.....	4,870,136	73,804,189	286,625.72	60,449,730
Spruce.....	1,987,256	43,894,185	1,971,579.91	193,286,173
Balsam.....	36,116	548,966	165,413.69	15,145,749
Hemlock.....	521,732	20,154,096		5,462,014
Birch.....	218,998	14,812,385		3,214,204
Maple.....	110,285	5,942,131		1,527,094
Other Hardwoods....	72,453	4,086,550		963,978
Poplar.....	442,674	7,839,234	29,584.91	6,086,565
Cedar.....	6,973	87,969		46,217
Tamarac.....	1,083	14,289		6,776
	10,676,276	285,540,067	2,453,204.23	316,738,283
Species	Pieces	Lin. Ft.	Cords	Cu-Ft.
Ties.....	246,571			739,713
Poles.....	116,711			1,108,511
Posts.....	20,730			31,095
Fuelwood.....			19,777.08	1,779,930
Lagging and Mining Timber.....		41,413		414,503
Piling.....				
	384,012	41,413	19,777.08	4,073,752



TABLE NO. 2  
ALGONQUIN DISTRICT  
CLASSIFICATION OF ANNUAL TIMBER RETURN  
FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Pine Logs.....		225,651	7,449,400	\$18,623.43	\$12,546.93	\$31,170.36
Pine Booms.....		81	5,798	14.50		14.50
Jack Pine Logs.....		90,024	1,259,934	3,149.86	772.45	3,922.31
Jack Pine Booms....		70	6,442	16.11	2.78	18.89
Ash Logs.....		213	10,357	25.89		25.89
Balsam Logs.....		3,324	38,429	76.86	2.52	79.38
Basswood Logs.....		1,870	71,597	186.47	285.54	472.01
Birch Logs.....		44,654	2,818,641	7,046.62	5,818.85	12,865.47
Cedar Logs.....		73	1,141	1.71	1.64	3.35
Cherry Logs.....		233	7,724	19.31	22.48	41.79
Elm Logs.....		380	20,969	52.42	78.78	131.20
Hemlock Logs.....		73,044	2,977,527	4,466.29	421.57	4,887.86
Maple Logs.....		21,883	1,166,244	2,915.59	3,277.83	6,193.42
Oak Logs.....		3	74	.18	.33	.51
Poplar Logs.....		150,420	3,056,909	6,113.84	4,889.90	11,003.74
Spruce Logs.....		51,036	1,098,033	2,196.00	941.52	3,137.52
Spruce Booms.....		554	69,675	174.18	178.91	353.09
Fuelwood (Hard)...	62.70			31.35		31.35
Ties.....		115		11.50	14.50	26.00
Posts.....		610		12.20	19.20	31.40
Poles.....		3,530		1,095.25	906.75	2,002.00
Poles (Cu-Ft.).....		33,819	279,066.53	9,750.98		9,750.98
Balsam Pulpwood...	793.34			555.33		555.33
Poplar Pulpwood...	705.92			282.38	168.38	450.76
Spruce Pulpwood...	10,154.60			14,216.44	135.66	14,352.10
Jack Pine Pit Props.	1,272.54			509.02	763.12	1,272.14
J. P. Props Exported	1,272.54				318.13	318.13
				\$71,543.71	\$31,567.77	\$103,111.48

## Cut Under Permit

Hemlock Logs.....	450,000 Ft. B. M.
Birch Logs.....	450,000 Ft. B. M.
Pine Logs.....	240,643 Ft. B. M.
Fuelwood (Hard)....	2,303.80 Cords
Spruce Pulpwood....	1,700.47 Cords
Ties.....	416 Pieces
Poles.....	2,759 Pieces
Posts.....	515 Pieces

TABLE No. 2A  
 COCHRANE DISTRICT  
 CLASSIFICATION OF ANNUAL TIMBER RETURN  
 FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Pine Logs.....		22,594	2,143,852	\$ 5,359.61	\$ 13,549.74	\$18,909.35
Pine Booms.....		7	1,773	4.43	13.73	18.16
J. Pine Logs.....		1,295,300	14,703,315	29,252.13	72,230.06	101,482.19
J. Pine Booms.....		2,035	110,293	275.73	506.27	782.00
Balsam Logs.....		17,799	343,840	687.66	1,548.40	2,236.06
Birch Logs.....		6,281	56,105	140.26	205.08	345.34
Cedar Logs.....		53	240	.36	1.32	1.68
Poplar Logs.....		133,075	1,920,709	3,841.42	5,501.64	9,343.06
Spruce Logs.....		398,475	9,418,957	18,837.90	55,808.47	74,646.37
Spruce Booms.....		6,272	544,799	1,361.96	2,943.83	4,305.79
Tamarac Logs.....		10	105	.16	1.19	1.35
Fuelwood (Hard)...	1,924.70			962.32	241.97	1,204.29
Fuelwood (Soft)....	3,702.96			925.74	1,390.94	2,316.68
Ties.....		2,921		292.10	175.26	467.36
Poles.....		9		3.50	5.75	9.25
Posts.....		738		14.76	41.45	56.21
Balsam Pulpwood...	7,141.97			5,018.18	1,813.75	6,831.93
Jack Pine Pulpwood	1,720.14			688.06	721.25	1,409.31
Poplar Pulpwood...	7,062.64			2,825.06	2,118.08	4,943.14
Spruce Pulpwood...	320,361.29			448,319.26	115,809.77	564,129.03
Spruce Pit Props...	1,210.26			1,694.36	290.60	1,984.96
Jack Pine Pit Props.	13,843.17			5,537.37	11,127.61	16,664.98
Pulpwood Exported.						
Balsam.....	143.72				93.42	93.42
Jack Pine.....	410.63				102.66	102.66
Spruce.....	13,867.72				9,014.00	9,014.00
Spruce Pit Props.	1,210.26				786.69	786.69
J. Pine Pit Props.	13,843.17				3,460.72	3,460.72
				\$526,042.33	\$299,503.65	\$825,545.98

Cut Under Permit

Balsam Logs.....	1,401 Ft. B. M.
Birch Logs.....	3,072 Ft. B. M.
Cedar Logs.....	1,147 Ft. B. M.
Jack Pine Logs.....	2,283,689 Ft. B. M.
Poplar Logs.....	934,148 Ft. B. M.
Spruce Logs.....	620,356 Ft. B. M.
Fuelwood (Hard)....	10,851.77 Cords
Fuelwood (Soft)....	10,000.00 Cords
Spruce Pulpwood....	42,802.95 Cords
Ties.....	18,057 Pieces
Poles.....	2,202 Pieces
Posts.....	1,881 Pieces

TABLE NO. 2B  
FORT FRANCES DISTRICT  
CLASSIFICATION OF ANNUAL TIMBER RETURN  
FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Pine Logs.....		203,075	10,803,135	\$27,007.81	\$35,379.81	\$62,387.62
Pine Booms.....		1,199	269,138	672.83	1,171.59	1,844.42
Jack Pine Logs.....		234,718	3,364,649	5,192.96	10,341.53	15,534.49
Jack Pine Booms.....		3,486	226,643	566.60	608.91	1,175.51
Ash Logs.....		136	2,380	5.95	5.95	11.90
Birch Logs.....		105	2,886	7.21	7.21	14.42
Poplar Logs.....		25,726	326,689	653.37	522.53	1,175.90
Poplar Booms.....		314	16,574	-1.43	32.94	74.37
Spruce Logs.....		15,462	303,058	606.13	819.73	1,425.86
Spruce Booms.....		378	48,957	122.38	191.52	313.90
Poles.....		205		51.25		51.25
Posts.....		7,130		142.60		142.60
Fuelwood (Soft).....	642.00			160.50	119.30	279.80
Balsam Pulpwood.....	215.10			150.57	24.22	174.79
Jack Pine Pulpwood.....	25,875.83			10,350.33	4,095.30	14,445.63
Poplar Pulpwood.....	3,829.15			1,531.67	470.27	2,001.91
Spruce Pulpwood.....	44,465.89			62,252.25	11,275.37	73,527.62
Pulpwood Exported						
Jack Pine.....	16,616.55				4,154.12	4,154.12
				\$109,515.84	\$69,220.30	\$178,736.14

## Cut Under Permit

Jack Pine Logs.....	21,673 Ft. B. M.
Pine Logs.....	26,984 Ft. B. M.
Poplar Logs.....	113,100 Ft. B. M.
Spruce Logs.....	20,104 Ft. B. M.
Poles.....	21 Pieces
Posts.....	7,687 Pieces
Fuelwood (Hard).....	160.00 Cords
Fuelwood (Soft).....	686.10 Cords
Balsam Pulpwood.....	138.24 Cords
Jack Pine Pulpwood.....	503.65 Cords
Poplar Pulpwood.....	2,554.48 Cords
Spruce.....	1,002.68 Cords

TABLE No. 2C  
 GERALDTON DISTRICT  
 CLASSIFICATION OF ANNUAL TIMBER RETURN  
 FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Jack Pine Logs.....		180,359	2,318,502	\$ 5,684.48	\$11,119.34	\$16,803.82
Jack Pine Booms....		367	35,258	88.15	165.47	253.62
Poplar Logs.....		174	2,565	5.13	5.13	10.26
Spruce Logs.....		46,029	574,821	1,149.64	3,298.17	4,447.81
Spruce Booms.....		2,155	362,192	905.47	2,147.39	3,052.86
Poles (Cu-Ft.).....		18,310	191,590.61	7,568.14		7,568.14
Balsam Pulpwood..	27,578.04			19,304.62	11,114.52	30,419.14
Jack Pine Pulpwood	42,719.06			17,087.62	685.92	17,773.54
Poplar Pulpwood...	4,132.32			1,652.92		1,652.92
Spruce Pulpwood...	276,421.18			386,989.65	50,629.59	437,619.24
Pulpwood Exported						
Balsam.....	13,232.28				8,600.98	8,600.98
Jack Pine.....	8,416.66				2,104.16	2,104.16
Spruce.....	210,411.25				136,767.31	136,767.31
				\$440,435.82	\$226,637.98	\$667,073.80

Cut Under Permit

Jack Pine Logs..... 12,190 FT. B. M.  
 Poplar Logs..... 1,642 Ft. B. M.  
 Fuelwood (Soft)..... 3,857 Cords  
 Spruce Pulpwood..... 61 Cords

TABLE NO. 2D  
KAPUSKASING DISTRICT  
CLASSIFICATION OF ANNUAL TIMBER RETURN  
FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Jack Pine Logs.....		55,151	976,164	\$ 2,062.16	\$ 3,963.08	\$6,025.24
Jack Pine Booms....		198	19,057	47.63	89.97	137.60
Birch Logs.....		15	387	.97	.97	1.94
Poplar Logs.....		18,742	573,517	1,147.05	693.80	1,840.85
Spruce Logs.....		585,488	9,447,385	18,894.76	25,966.40	44,861.16
Spruce Booms.....		2,686	309,211	773.02	1,290.74	2,063.76
Piling (Lin-Ft.)....		203	7,555	188.88		188.88
Piling (Cu-Ft.)....		70,934	414,503.93	7,461.07		7,461.07
Fuelwood (Hard)...	2,090.79			1,045.39	104.53	1,149.92
Fuelwood (Soft)....	288.62			72.16	36.16	108.32
Ties.....		1,630		163.00	32.60	195.60
Poles (Cu-Ft.)....		909	11,585.43	461.13		461.13
Poles.....		941		282.00	282.00	564.00
Balsam Pulpwood..	32,663.94			22,864.76	17,599.93	40,464.69
Jack Pine Pulpwood	2,193.67			877.47	33.99	911.46
Poplar Pulpwood...	25.18			10.07	13.85	23.92
Spruce Pulpwood...	408,405.72			571,768.01	108,474.88	680,242.89
Pulpwood Exported						
Jack Pine.....	500.00				125.00	125.00
Balsam.....	1,880.94				1,222.60	1,222.60
Spruce.....	278,047.64				180,730.95	180,730.95
				\$628,119.53	\$340,661.45	\$968,780.98

## Cut Under Permit

Poplar Logs..... 279,266 Ft. B. M.  
 Spruce Logs..... 622,741 Ft. B. M.  
 Poles..... 243 Pieces  
 Posts..... 550 Pieces  
 Fuelwood (Hard).... 1,381.95 Cords  
 Fuelwood (Soft).... 3,782.77 Cords  
 Spruce Pulpwood.... 19,289.02 Cords

TABLE NO. 2E  
 KENORA DISTRICT  
 CLASSIFICATION OF ANNUAL TIMBER RETURN  
 FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Pine Logs.....		4,004	226,605	\$ 566.50	\$ 932.08	\$ 1,498.58
Pine Booms.....		497	67,050	167.61	258.62	426.23
Jack Pine Logs.....		49,707	863,806	1,841.79	3,799.98	5,641.77
Jack Pine Booms....		531	30,495	76.23	172.34	248.57
Poplar Logs.....		1,411	21,709	43.42	21.71	65.13
Spruce Logs.....		12,690	273,685	547.36	1,386.98	1,934.34
Spruce Booms.....		1,392	237,675	594.17	1,050.12	1,644.29
Piling (Lin-Ft.)....		575	29,458	79.99		79.99
Fuelwood (Hard)...	54.48			27.24	8.20	35.44
Fuelwood (Soft)....	3,096.31			774.08	369.15	1,143.23
Ties.....		21,665		2,166.50	912.48	3,078.98
Poles (Cu-Ft.).....		3,682	4,617.36	138.52		138.52
Poles.....		131		33.25	13.10	46.35
Posts.....		804		16.08	64.32	80.40
Balsam Pulpwood...	6,414.14			4,489.89	252.44	4,742.33
Jack Pine Pulpwood	62,299.99			24,920.00	8,175.71	33,095.71
Poplar Pulpwood....	297.70			118.68	27.00	145.68
Spruce Pulpwood....	90,251.34			126,351.89	15,417.27	141,769.16
				\$162,953.20	\$32,861.50	\$195,814.70

Cut Under Permit

Pine Logs.....	60,229 Ft. B. M.
Jack Pine Logs.....	37,089 Ft. B. M.
Spruce Logs.....	105,233 Ft. B. M.
Piling (Lin-Ft.).....	13,048
Fuelwood (Soft).....	5,161 Cords
Spruce Pulpwood.....	2,836 Cords

TABLE NO. 2F  
NORTH BAY DISTRICT  
CLASSIFICATION OF ANNUAL TIMBER RETURN  
FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Pine Logs.....		927,676	49,075,583	\$122,688.91	\$319,563.24	\$442,252.15
Pine Booms.....		2,505	432,110	1,080.24	2,397.02	3,477.26
Jack Pine Logs.....		217,000	2,558,316	5,783.84	8,856.78	14,640.62
Jack Pine Booms....		661	46,915	117.28	114.21	231.49
Balsam Logs.....		1,650	20,641	41.29	54.70	95.99
Basswood Logs.....		23,449	2,052,607	5,131.51		5,131.51
Birch Logs.....		29,763	1,931,611	4,829.02	2,241.80	7,070.82
Cedar Logs.....		100	621	.93	.73	1.66
Hemlock Logs.....		17,312	663,376	995.07	196.79	1,191.86
Hemlock Booms....		16	2,691	6.73	8.07	14.80
Poplar Logs.....		21,280	314,010	628.02	791.98	1,420.00
Spruce Logs.....		67,575	1,461,284	2,992.53	4,531.54	7,454.07
Spruce Booms.....		1,099	140,203	347.49	244.28	561.77
Fuelwood (Hard)...	333.13			166.56		166.56
Fuelwood (Soft)....	107.46			26.86	35.01	61.87
Ties.....		3,319		331.90	331.90	663.80
Poles.....		1,923		655.00	415.95	1,070.95
Posts.....		926		18.52	18.52	37.04
Balsam Pulpwood..	169.17			118.42	.37	118.79
Jack Pine Pulpwood	4,220.84			1,688.34	509.56	2,197.90
Poplar Pulpwood...	1,495.23			598.10	142.00	740.10
Spruce Pulpwood...	19,345.99			27,084.55	3,382.85	30,467.40
Jack Pine Pit Props	681.26			272.50	408.76	681.26
Pulpwood Exported						
Spruce.....	44.81				29.13	29.13
J. Pine Pit Props.	681.26				170.31	170.31
				\$175,533.61	\$344,415.50	\$519,949.11

## Cut Under Permit

Basswood Logs.....	35,000 Ft. B. M.
Birch Logs.....	587,000 Ft. B. M.
Hemlock Logs.....	15,000 Ft. B. M.
Pine Logs.....	1,978,000 Ft. B. M.
Jack Pine Logs.....	844,000 Ft. B. M.
Poplar Logs.....	106,000 Ft. B. M.
Spruce Logs.....	543,000 Ft. B. M.
Fuelwood (Hard)....	15,497 Cords
Fuelwood (Soft)....	13,010 Cords
Ties.....	12,185 Pieces
Poles.....	3,699 Pieces
Posts.....	3,126 Pieces

TABLE No. 26  
 PARRY SOUND DISTRICT  
 CLASSIFICATION OF ANNUAL TIMBER RETURN  
 FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Pine Logs . . . . .		25,728	1,515,962	\$ 3,789.91	\$ 581.96	\$ 4,371.87
Pine Booms . . . . .		19	1,408	3.52	.91	4.43
Ash Logs . . . . .		322	17,926	44.85	18.00	62.85
Balsam Logs . . . . .		801	9,647	19.29		19.29
Basswood Logs . . . . .		9,298	375,570	938.95	171.24	1,113.19
Beech Logs . . . . .		2,008	96,942	242.35	42.73	285.08
Birch Logs . . . . .		93,947	7,368,834	18,422.15	8,319.39	26,741.54
Cedar Logs . . . . .		462	8,518	12.78	.91	13.69
Cherry Logs . . . . .		256	8,414	21.77	7.74	29.51
Elm Logs . . . . .		1,364	104,803	261.99	90.67	352.66
Hemlock Logs . . . . .		259,105	10,717,236	16,075.90	4,783.36	20,859.26
Hemlock Booms . . . . .		42	3,787	9.47	3.00	12.47
Maple Logs . . . . .		43,797	2,374,315	5,935.79	1,851.36	7,787.15
Oak Logs . . . . .		691	28,877	72.19	10.01	82.20
Poplar Logs . . . . .		355	9,069	18.14		18.14
Spruce Logs . . . . .		44,233	1,198,827	2,397.66	636.05	3,033.71
Spruce Booms . . . . .		611	53,858	134.70	7.80	142.50
Tamarac Logs . . . . .		393	3,888	5.83		5.83
Fuelwood (Hard) . . . . .	\$35.06			417.52	80.90	498.42
				\$48,824.76	\$16,609.03	\$65,433.79

Cut Under Permit

Ash Logs . . . . .	5,000 Ft. B. M.
Balsam Logs . . . . .	2,700 Ft. B. M.
Bass Logs . . . . .	225,000 Ft. B. M.
Beech Logs . . . . .	15,000 Ft. B. M.
Birch Logs . . . . .	394,699 Ft. B. M.
Cedar Logs . . . . .	4,500 Ft. B. M.
Hemlock Logs . . . . .	1,153,474 Ft. B. M.
Maple Logs . . . . .	95,024 Ft. B. M.
Pine Logs . . . . .	1,401,302 Ft. B. M.
Spruce Logs . . . . .	139,418 Ft. B. M.
Fuelwood (Hard) . . . . .	7,634 Cords
Posts . . . . .	1,218 Pieces
Poles . . . . .	4,174 Pieces



TABLE NO. 2II  
 PORT ARTHUR DISTRICT  
 CLASSIFICATION OF ANNUAL TIMBER RETURN  
 FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonns	Total
Pine Logs.....		22,303	1,060,387	\$ 2,650.94	\$ 5,881.23	\$ 8,532.17
Pine Booms.....		76	18,033	45.08	135.25	180.33
Jack Pine Logs...	1,374,217	23,490,268	42,362.85	38,297.74	80,660.59	
Jack Pine Booms...	1,531	69,917	174.78	296.78	471.56	
Balsam Logs.....		5,901	65,688	131.37	230.30	361.67
Birch Logs.....		357	6,883	17.20	7.75	24.95
Cedar Logs.....		1,664	21,914	32.87	57.24	90.11
Poplar Logs.....		31,481	524,952	1,049.91	1,106.42	2,156.33
Spruce Logs.....	106,654	9,273,872	18,547.76	29,939.69	48,487.45	
Spruce Booms...	10,969	1,893,218	4,733.01	9,148.45	14,181.46	
Tamarac Logs...		9	166	.25	.58	.83
Piling.....		141	8,694	20.02	10.25	30.27
Ties.....		35,751		3,575.40	1,388.53	4,963.93
Posts.....		110		2.20	6.60	8.80
Poles (Cu-Ft.)...		20,358	266,772.59	10,699.63		10,699.63
Fuelwood (Hard)	52.25			26.12	7.84	33.96
Fuelwood (Soft)...	1,604.27			401.06	356.21	757.27
Balsam Pulpwood	68,403.33			47,877.11	27,173.54	75,050.65
J. Pine Pulpwood.	77,143.02			30,857.21	10,609.07	41,466.28
Poplar Pulpwood.	5,391.71			2,156.68	104.36	2,261.04
Spruce Pulpwood.	490,974.27			677,928.23	196,007.49	873,935.72
Pulpwood Exp't'd.						
Balsam.....	26,151.14				16,998.22	16,998.22
Jack Pine.....	32,970.18				8,242.54	8,242.54
Spruce.....	81,267.63				51,773.95	54,773.95
				\$813,289.68	\$401,068.87	\$1,244,369.71

## Cut Under Permit

Balsam Logs.....	43,932 Ft. B. M.
Birch Logs.....	4,320 Ft. B. M.
Pine Logs.....	124,514 Ft. B. M.
Jack Pine Logs.....	275,773 Ft. B. M.
Poplar Logs.....	46,596 Ft. B. M.
Spruce Logs.....	57,399 Ft. B. M.
Fuelwood (Hard)....	1,488.50 Cords
Fuelwood (Soft)....	565.50 Cords
Balsam Pulpwood....	55.00 Cords
Jack Pine Pulpwood..	356.00 Cords
Poplar Pulpwood....	630.84 Cords
Spruce Pulpwood....	565.50 Cords
Ties.....	526 Pieces
Poles.....	2,140 Pieces
Posts.....	300 Pieces

TABLE No. 21  
SAULT STE. MARIE DISTRICT  
CLASSIFICATION OF ANNUAL TIMBER RETURN  
FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Pine Logs.....		309,927	21,121,508	\$ 52,803.93	\$ 56,655.93	\$109,459.76
Pine Booms.....		4,818	797,489	1,993.71	3,393.47	5,387.18
Jack Pine Logs....		112,901	3,149,623	7,874.05	11,803.89	19,677.94
Jack Pine Booms...		1,227	81,107	202.76	382.10	584.86
Ash Logs.....		40	1,230	3.07	3.47	6.54
Balsam Logs.....		326	3,794	7.59	16.87	24.46
Birch Logs.....		7,951	462,184	1,167.94	2,227.30	3,395.24
Cedar Logs.....		140	3,765	5.64	9.41	15.05
Cedar Booms.....		1	50	.12	.10	.22
Elm Logs.....		6	804	2.01	2.21	4.22
Hemlock Logs.....		3,788	224,611	336.90	521.01	857.91
Hemlock Booms....		7	488	1.22	1.10	2.32
Maple Logs.....		5,103	166,309	415.75	511.47	927.22
Oak Logs.....		595	39,814	99.53	112.41	211.94
Spruce Logs.....		54,200	1,541,734	3,083.45	5,000.98	8,084.43
Spruce Booms.....		1,937	202,565	506.39	1,043.78	1,550.17
Ties.....			35,139	3,513.90	1,405.56	4,919.46
Poles.....			296	89.50	77.50	167.00
Car Stakes.....			2,096	41.92		41.92
Balsam Pulpwood..	15,393.02			10,775.11	1,719.04	12,494.18
Jack Pine Pulpwood	7,268.41			2,907.36	726.84	3,634.20
Poplar Pulpwood...	563.10			225.24	168.93	394.17
Spruce Pulpwood...	176,105.72			246,548.01	35,836.69	282,384.70
Pulpwood Exported						
Spruce.....	28.10				18.26	18.26
Balsam.....	47.89				31.13	31.13
				\$332,605.03	\$121,669.45	\$454,274.48

Cut Under Permit

Birch Logs.....	801,464 Ft. B. M.
Hemlock Logs.....	245,760 Ft. B. M.
Maple Logs.....	99,304 Ft. B. M.
Pine Logs.....	241,562 Ft. B. M.
Spruce Logs.....	144,762 Ft. B. M.
Fuelwood (Hard)....	2,333.94 Cords
Spruce Pulpwood....	28.00 Cords

TABLE No. 2J  
 SIOUX LOOKOUT DISTRICT  
 CLASSIFICATION OF ANNUAL TIMBER RETURN  
 FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Pine Logs.....		11,232	444,582	\$ 1,111.45	\$ 3,843.52	\$ 4,954.97
Pine Booms.....		12	3,695	9.24	35.10	44.34
Jack Pine Logs....		199,318	3,141,700	7,427.50	14,512.27	21,939.77
Jack Pine Booms...		288	11,646	29.11	52.20	81.31
Birch Logs.....		456	4,412	11.02	17.60	28.62
Spruce Logs.....		20,416	410,401	820.80	1,944.30	2,765.10
Spruce Booms.....		1,611	189,726	474.30	999.65	1,473.95
Lagging (Lin-Ft.)...		200	4,400	14.67		14.67
Ties.....		125,961		12,596.10	2,519.22	15,115.32
Fuelwood (Soft)....	983.69			245.90	17.55	263.45
Balsam Pulpwood...	5,508.33			3,855.84	39.19	3,895.03
Jack Pine Pulpwood...	7,384.29			2,953.72	1,277.23	4,230.85
Spruce Pulpwood....	115,908.02			161,934.93	9,142.93	171,077.86
Pulpwood Exported						
Balsam.....	1,622.58				1,054.67	1,054.67
Jack Pine.....	2,155.24				538.81	538.81
Spruce.....	21,459.21				13,948.49	13,948.49
				\$191,484.58	\$49,942.73	\$241,427.31

## Cut Under Permit

Jack Pine Logs.....	60,103 Ft. B. M.
Spruce Logs.....	1,810,414 Ft. B. M.
Fuelwood (Soft)....	11,890.75 Cords
Spruce Pulpwood....	1,275.62 Cords
Ties.....	677 Pieces
Poles.....	46 Pieces
Posts.....	49 Pieces
Lagging.....	392,378 Lin-Ft.

TABLE NO. 2K  
 SUDBURY DISTRICT  
 CLASSIFICATION OF ANNUAL TIMBER RETURN  
 FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonus	Total
Pine Logs		410,571	12,225,771	\$30,564.44	\$61,431.25	\$91,995.69
Pine Booms		1,029	114,426	286.06	640.60	926.66
Jack Pine Logs		1,046,211	17,125,066	35,788.29	\$2,800.94	118,589.23
Jack Pine Booms		4,836	214,473	536.17	998.61	1,534.78
Ash Logs		23	1,258	3.14		3.14
Basswood Logs		1,433	38,419	96.05	96.05	192.10
Birch Logs		3,912	101,546	253.86	130.85	384.71
Cedar Logs		236	4,570	7.00	14.01	21.01
Elm Logs		32	1,106	2.76	3.32	6.08
Hemlock Logs		13,965	578,391	\$67.59	381.96	1,249.55
Hemlock Booms		25	1,637	4.09	3.27	7.36
Maple Logs		402	11,734	29.33	35.20	64.53
Oak Logs		78	3,110	7.77	6.93	14.70
Poplar Logs		20,288	299,788	599.60	642.73	1,242.33
Spruce Logs		165,343	2,888,162	5,776.31	13,223.86	19,000.17
Spruce Booms		3,802	210,248	525.57	942.98	1,468.55
Fuelwood (Hard)	552.30			276.15	42.19	318.34
Fuelwood (Soft)	748.60			187.00	30.10	217.10
Ties		19,824		1,982.40	900.90	2,883.30
Poles Cu-Ft		31,520	354,755.83	13,582.41		13,582.41
Poles		494		162.75	189.20	351.95
Piling		7,802		486.45		486.45
Posts		7,917		158.34	234.11	392.45
Car Stakes		16,081		321.68	26.77	348.45
Balsam Pulpwood	851.49			596.05	81.65	677.70
Jack Pine Pulpwood	55,800.47			22,320.20	726.79	23,046.99
Poplar Pulpwood	1,929.81			1,971.93	621.31	2,593.24
Spruce Pulpwood	18,692.22			26,169.11	1,552.37	27,721.48
Jack Pine Pit Props	857.92			343.17	519.16	862.33
Spruce Pit Props	185.15			259.21	46.29	305.50
Pulpwood Exported						
Balsam	99.71				64.81	64.81
Jack Pine	110.50				27.62	27.62
Spruce	1,203.97				782.59	782.59
Pit Props Exported						
Jack Pine	857.92				214.47	214.47
Spruce	185.15				120.36	120.36
				\$144,164.88	\$167,533.24	\$311,698.12

## Cut Under Permit

Basswood Logs	458 Ft. B. M.
Birch Logs	4,206 Ft. B. M.
Cedar Logs	11,508 Ft. B. M.
Hemlock Logs	95,460 Ft. B. M.
Pine Logs	1,985,704 Ft. B. M.
Jack Pine Logs	315,899 Ft. B. M.
Poplar Logs	105,161 Ft. B. M.
Spruce Logs	270,218 Ft. B. M.
Fuelwood (Hard)	4,000 Cords
Fuelwood (Soft)	3,983 Cords
Ties	7,304 Pieces
Poles	3,372 Pieces
Posts	3,312 Pieces
Jack Pine Pulpwood	887 Cords
Jack Pine Pit Props	1,440 Cords
Poplar Pulp Wood	1,695 Cords
Spruce Pulpwood	1,595 Cords
Car Stakes	850 Pieces

TABLE NO. 2L  
TRENT DISTRICT  
CLASSIFICATION OF ANNUAL TIMBER RETURN  
FOR THE YEAR ENDING MARCH 31, 1946

Species	Cords	Pieces	Feet	Dues	Bonns	Total
Pine Logs.....		234,838	6,514,474	\$16,286.10	\$26,826.72	\$43,112.82
Pine Booms.....		728	63,894	159.73	72.06	231.79
Ash Logs.....		1,330	40,553	101.38	64.81	166.19
Balsam Logs.....		6,315	66,927	133.85	70.78	204.63
Basswood Logs.....		18,608	668,270	1,670.67	991.51	2,662.18
Beech Logs.....		6,885	281,235	730.08	186.92	917.00
Birch Logs.....		31,557	2,058,861	5,147.19	2,534.12	7,681.23
Cedar Logs.....		4,244	47,150	70.73	139.37	210.10
Cherry Logs.....		119	6,360	15.90	11.31	27.21
Elm Logs.....		2,535	184,301	460.70	486.73	947.43
Hemlock Logs.....		154,269	4,972,930	7,459.45	1,714.90	9,174.35
Hemlock Booms.....		159	11,422	28.54	8.08	36.62
Maple Logs.....		39,100	2,223,529	5,558.81	2,933.00	8,491.81
Oak Logs.....		546	18,850	47.13	51.31	101.44
Poplar Logs.....		39,408	772,743	1,545.50	1,025.66	2,571.16
Spruce Logs.....		85,713	1,694,485	3,388.98	3,915.20	7,304.18
Spruce Booms.....		476	47,157	117.87	134.95	252.82
Tamarac Logs.....		671	10,130	15.19	42.69	57.88
Trees.....		20		5.00		5.00
Ties.....		243		21.30	4.86	29.16
Poles.....		584		181.75	150.25	332.00
Posts.....		2,495		49.90	111.97	161.87
Fuelwood (Hard)...	2,649.36			1,324.67	408.73	1,733.40
Fuelwood (Soft)....	49.09			12.44	1.39	13.83
Balsam Pulpwood....	381.82			267.26	88.81	356.07
Poplar Pulpwood....	1,152.15			460.85	191.08	651.93
Spruce Pulpwood....	493.67			691.13		691.13
Pulpwood Exported						
Balsam.....	359.57				233.72	233.72
Spruce.....	386.31				251.10	251.10
				\$45,955.11	\$42,655.03	\$88,610.04

## Cut Under Permit

Birch Logs.....	140,055 Ft. B. M.
Hemlock Logs.....	612,752 Ft. B. M.
Maple Logs.....	437,187 Ft. B. M.
Pine Logs.....	1,137,259 Ft. B. M.
Spruce Logs.....	595,744 Ft. B. M.
Ties.....	294 Pieces
Poplar Pulpwood.....	2,032.36 Cords
Spruce Pulpwood.....	242.00 Cords

TABLE No. 3  
 FINAL STATEMENT OF PULPWOOD EXPORTED FROM ONTARIO  
 January 1 to December 31, 1946

District	Crown Lands (Cords)	Private Lands (Cords)	Total (Cords)	Value \$
Chapleau.....	Nil	Nil	.....	.....
Cochrane.....	32,736.00	23,164.00	55,900.00	556,359.50
Fort Frances.....	5,201.82	5,234.97	10,436.79	103,404.58
Geraldton.....	5,738.00	.....	5,738.00	103,284.00
Gogama.....	37.41	.....	37.41	439.57
Kapuskasing.....	220,897.80	56,989.87	277,887.67	3,288,071.58
Kenora.....	.....	114.00	114.00	1,368.00
North Bay.....	2,620.99	7,403.50	10,024.49	98,441.90
Parry Sound.....	.....	105.00	105.00	1,049.50
Pembroke.....	500.00	11,068.00	11,568.00	117,854.00
Port Arthur.....	281,918.49	43,805.00	325,723.49	6,603,971.12
Sault Ste. Marie.....	10,443.66	1,450.34	11,894.00	143,121.76
Sioux Lookout.....	13,993.00	2,359.50	16,352.50	271,077.61
Sudbury.....	3,788.45	17,388.00	21,176.45	144,696.27
Tweed.....	1,532.00	8,988.00	10,520.00	13,680.00
Total.....	579,407.62	178,070.18	757,477.80	\$11,446,819.39

TABLE No. 4  
FINAL STATEMENT OF PULPWOOD EXPORTED FROM ONTARIO  
January 1 to December 31, 1946

DISTRICT	CLASS OF WOOD	CROWN LANDS—CORDS			PRIVATE LANDS—CORDS		
		SPRUCE AND BALSAM	JACKPINE	POPULAR	SPRUCE AND BALSAM	JACKPINE	POPULAR
Chapleau.....	Peeled						
	Rough						
Cochrane.....	Peeled	15,765.00		16,971.00	18,237.00		4,927.00
	Peeled						
	Rough						
Fort Frances.....	Peeled						
	Peeled						
	Rough						
Geraldton.....	Peeled	5,738.00	5,179.47	22.35	855.00	192.19	4.33
	Peeled						
	Rough						
Gogama.....	Peeled	37.41					
	Peeled						
	Rough						
Kapuskasing.....	Peeled	32,174.83		20.00	8,610.84		3,038.99
	Peeled						
	Rough	188,182.97	520.00		45,340.04		
Kenora.....	Peeled						
	Peeled						
	Rough	412.00		2,193.49	533.50		5,957.00
North Bay.....	Peeled	15.50			95.00		818.00
	Peeled						
	Rough						105.00
Parry Sound.....	Peeled						
	Peeled						
	Rough						
Pembroke.....	Peeled			500.00	2,087.00		8,981.00
	Peeled						
	Rough						
Port Arthur.....	Peeled	1,782.99		61.50			11,009.50
	Peeled						
	Rough	251,457.00	28,917.00		29,249.00	3,400.00	146.50
Sault Ste. Marie.....	Peeled						
	Peeled						
	Rough	10,443.66			248.99	15.00	1,186.35
Sioux Lookout.....	Peeled						
	Peeled						
	Rough	12,643.00	122.00		2,199.50		
Sudbury.....	Peeled		1,228.00		160.00		
	Peeled						
	Rough	1,005.61		356.00	18.00		7,660.00
	Peeled						
	Rough	551.00		978.00	4,020.50	2,870.00	2,819.50
Tweed.....	Peeled						
	Peeled						
	Rough				2,433.50		6,551.50
Total.....	Peeled	66,907.89	122.00	21,059.99	34,795.86	207.19	49,423.67
	Rough	453,004.08	35,841.47	2,469.19	79,719.54	7,543.34	6,380.58
Total.....		519,911.97	35,966.47	23,529.18	114,515.40	7,750.53	55,804.25
Total.....	Total Peeled—Crown.....				88,089.88		
	Total Rough—Crown.....				491,317.74		
	Total Peeled—Private.....				84,426.72		
	Total Rough—Private.....				93,613.46		
	Total.....				757,477.80		

TABLE No. 5

Timber Areas Sold during the year ending March 31, 1947

Date Offered 1946	Date Sold 1946	Locality	Area sq. miles	No. of Tenders	To Whom Sold	Prices Paid			Total
						Kind of Timber	Bid	Upset	
Apr. 10	Apr. 24	Bishop, Freswick Devine, Biggar McLaughlin etc.	220	1	John Olenback, Lincoln Alliance Bldg. Rochester, N.Y.	Red and W. Pine Logs Jackpine Logs Spruce Logs Hemlock Logs Hardwoods Spruce Pulpwood Balsam Pulpwood	\$5.00 4.00 1.00 2.00 8.00 1.00 .....	\$2.50 1.50 2.00 1.50 2.50 1.40 .70	\$14.00 Per MBM 10.00 Per MBM 10.00 Per MBM 6.00 Per MBM 14.00 Per MBM 2.75 Per Cd. 1.00 Per Cd.
Apr. 18	May 9	Fox Twp.	1 1/2	1	Thos. B. Skidmore, Brower P.O., Ont.	Spruce Pulpwood Balsam Pulpwood	.05 Same rate as tendered	1.40	1.55 Per Cd. on Spruce.
May 4	May 21	Monmouth Twp.	1	1	Scott Lumber Co., Peterborough, Ont.	Pine Logs Spruce Logs Hemlock Logs Cedar Logs Maple and Birch Basswood Poplar	5.00 5.00 3.00 4.00 1.00 5.00 3.00	2.50 2.00 1.50 1.50 2.50 2.50 1.50	15.00 Per MBM 12.00 Per MBM 8.00 Per MBM 10.00 Per MBM 11.00 Per MBM 12.00 Per MBM 8.00 Per MBM
May 16	May 31	Twps. 2F. and 196	12	3	J. J. McFadden Lumber Co. Ltd., Blind River, Ont.	Red and White Pine Spruce Logs	3.27 3.27	2.50 2.00	13.27 Per MBM 11.27 Per MBM
June 17	July 2	Pateaud Twp.	1 1/2	7	Donald Burnard, Krugerdorf, Ont.	Spruce Logs Jackpine Spruce Pulpwood Poplar Pulpwood	2.50 3.00 .10 .20	2.00 1.50 1.40 .40	10.50 Per MBM 10.50 Per MBM 1.75 Per Cd. .85 Per Cd.
June 28	July 15	Area E. of Timber Berth R-5-40 between Lake Despair & Dance Twp.	2	2	E. H. Armstrong, Finland, Ont.	Fuelwood	.70	.10	1.05 Per Cd.
July 2	July 18	Eby Twp. Parcel I	1 1/2	2	Harry Block, Swastika, Ont.	Spruce Pulpwood Balsam Pulpwood	.35 .....	.40 1.45	2.15 Per Cd. 2.15 Per Cd.



TABLE NO. 5  
Timber Areas Sold during the year ending March 31, 1947

Date Offered 1946	Date Sold 1946	Locality	Area sq. miles	No. of Tenders	To Whom Sold	Prices Paid			Total	
						Kind of Timber	Bid	Cupsel		Dues
July 2	July 18	Eby and Burt Twp. Parcel 2	1/2	1	Harry Block, Swastika, Ont.	Jackpine Logs Jackpine Ptprops Poplar Pulpwood Spruce Pulpwood	\$1.50 .50 .25 .25	\$7.00 1.40 .25 .40	\$10.00 Per MBM 2.00 Per Cd. .90 Per Cd. 2.05 Per Cd.	
July 3	July 18	McCann Twp.	1	3	Hembruff Timber Co. Matheson, Ont.	Spruce Logs Jackpine Logs Jackpine Pulpwood Spruce Pulpwood	3.50 3.50 .25 .20	6.50 7.00 .35 .40	2.00 1.50 1.00 Per Cd. 2.00 Per Cd.	
July 3	July 22	McLure and Wicklow Twp.	1/4	1	Mac, Fitzgerald, Maynooth, Ont.	Maple, Birch and Basswood Logs Spruce & Balsam Logs Hemlock Logs Poplar Logs Fuelwood (Hard)	.05 .05 .05 .05 .....	4.50 5.00 3.50 3.00 .50	2.50 2.00 1.50 2.00 .50	7.05 Per MBM 7.05 Per MBM 5.05 Per MBM 5.05 Per MBM .50 Per Cd.
July 4	July 22	Barker Twp.	1/4	4	Jos. Perreault, Reesor, Ont.	Spruce Pulpwood Balsam Pulpwood	.76 .76	.35 1.05	1.40 .70	2.51 Per Cd. 2.51 Per Cd.
July 4	July 22	Pennefather Twp.	3/4	2	Elliott Lumber Co., 281 Commerce Ave., Sault Ste. Marie, Ont.	Birch Logs Maple Logs Oak Logs Poplar Logs Hemlock Logs Spruce Logs Balsam Logs White Pine Logs Cedar Poles Cedar Posts	1.00 .50 2.00 .50 1.00 1.00 .50 2.00 .05 .01	5.50 3.50 5.50 3.00 3.00 6.00 6.00 7.50 .25 .02	2.50 2.50 2.50 2.00 1.50 2.00 2.00 2.50 .25 .02	9.00 Per MBM 6.50 Per MBM 10.00 Per MBM 5.50 Per MBM 5.50 Per MBM 9.00 Per MBM 8.50 Per MBM 12.00 Per MBM .55 Each .05 Each
July 6	July 22	Chamberlain Twp.	1/4	3	Albert Hayes, Englehart, Ont.	Jackpine Logs Spruce Pulpwood Poplar Pulpwood	.50 .20 .45	6.00 .25 .25	1.50 1.40 .40	8.00 Per MBM 1.85 Per Cd. 1.10 Per Cd.

TABLE No. 5  
Timber Areas Sold during the year ending March 31, 1947

Date Offered 1946	Date Sold 1946	Locality	Area sq. miles	No. of Ten- ders	To Whom Sold	Prices Paid				Total
						Kind of Timber	Bid	Upset	Dues	
July 8	July 25	Wallbridge Twp.	2	2	W. V. Seigner Lumber Co. Ltd., 49 King St. E., Kitchener, Ont.	Pine Logs Fire Damaged Jackpine	\$2.00 Flat rate of \$2.	\$5.00 rate of \$2.	\$2.50 00 per	\$ 9.50 Per MBM MBM inc. of dues.
July 10	July 29	Conger Twp.	8½	2	Whitehorn & Skinner Lumber Co., 246 Heath St. W., Toronto, Ont.	Pine Logs Hemlock Logs Hardwood Logs Spruce Logs Tamarac Logs	3.60 1.00 3.25 1.00 1.00	2.50 1.50 2.50 2.00 1.50	2.50 1.50 2.50 2.00 1.50	8.60 Per MBM 4.00 Per MBM 8.25 Per MBM 5.00 Per MBM 4.00 Per MBM
July 15	Aug. 1	Island E54 and Part 500A, Georgian Bay, opposite Shewanaga Twp.	2¼	3	The McGibbon Lumber Co. Ltd., Penetanguishene, Ont.	Pine Logs	10.15	5.50	2.50	18.15 Per MBM
July 13	July 30	Sheraton Twp.	2¼	3	E. Mainville, 666 Main Ave., Timmins, Ont.	Jackpine Logs Poplar Logs Jackpine Pulp Poplar Pulp Balsam Pulp Spruce Pulp Jackpine Fuelwood Jackpine Piprops	.50 .25 .25 .10 .15 .15 .25 .75	8.50 2.50 .35 .25 .90 .20 .50 .....	1.50 2.00 .40 .40 .70 1.10 .25 1.00	10.50 Per MBM 4.75 Per MBM 1.00 Per Cd. .75 Per Cd. 1.75 Per Cd. 1.75 Per Cd. 1.00 Per Cd. 1.75 Per Cd.
July 15	Aug. 2	Blyth Twp.	1¾	3	C. D. Milani, Box 292 North Bay, Ont.	Hardwood Logs	2.50	6.00	2.50	11.00 Per MBM
July 18	Aug. 26	Smyth Twp.	6	1	Ed. Smith & Co., 153 Lawrence Ave. E., Toronto, Ont.	Jackpine Logs Spruce Logs Spruce Pulp	..... ..... .05	6.00 5.50 .25	1.50 2.00 1.10	7.50 Per MBM 7.50 Per MBM 1.70 Per Cd.





TABLE NO. 5

## Timber Areas Sold during the year ending March 31, 1947

Date Offered 1946	Date Sold 1946	Locality	Area sq. miles	No. of Tenders	To Whom Sold	Kind of Timber	Prices Paid			Total
							Bid	Upset	Dues	
Sept. 20	Oct. 9	Kennedy Twp.	1 <sup>2</sup>	2	T. B. Skidmore, Brower Post Office, Ont.	Spruce Pulpwood Poplar Pulpwood	\$ .25 .....	\$ .35 .25	\$1.40 .40	\$ 2.00 Per Cord .65 Per Cord
Oct. 15	Nov. 1	Little Twp.	1 <sup>3</sup>	1	Antoine Morin, Connaught Station, Ont.	Spruce Logs Spruce Pulpwood Poplar Logs Balsam Pulpwood	.50 .25 ..... .....	7.00 .20 2.50 .90	2.00 1.10 2.00 .70	9.50 Per MBM 1.85 Per Cord 4.50 Per MBM 1.60 Per Cord
Oct. 16	Nov. 6	McCart Twp.	3 <sup>4</sup>	2	Charles Pedskalney, Porquis Junction, Ont.	Spruce Logs Spruce Pulpwood Balsam Pulpwood	..... .10 .10	6.50 .40 1.10	2.00 1.40 .70	8.50 Per MBM 1.90 Per Cord 1.90 Per Cord
Oct. 16	Nov. 7	Murphy Twp.	1 <sup>2</sup>	2	Rene Gimho, Box 549, Timmins, Ont.	Spruce Pulpwood Balsam Pulpwood	.35 .35	.45 1.15	1.40 .70	2.20 Per Cord 2.20 Per Cord
Oct. 19	Nov. 12	Drayton Twp.	1 <sup>2</sup>	3	John Binns & Co., per O. Andrews, Hudson, Ont.	Spruce Pulpwood Balsam Pulpwood	.15 70	.60 .....	1.40 .70	2.45 Per Cord 1.40 Per Cord
Oct. 22	Nov. 12	McVittie and McGarry Twps.	2	2	Proprietary Mines Limited, Larder Lake, Ont.	Jackpine Logs Birch Logs Spruce Logs Poplar Logs Poplar Pulpwood White Birch (Fuel) Soft Fuelwood	4.75 2.00 3.00 1.50 .20 .10 .10	7.50 3.50 7.00 2.50 .25 .15 .15	1.50 2.50 2.00 2.00 .40 .50 .25	13.75 Per MBM 8.00 Per MBM 14.00 Per MBM 9.00 Per MBM .85 Per Cord .75 Per Cord .50 Per Cord
Oct. 25	Nov. 13	Herschel Twp.	1 <sup>4</sup>	1	Frank Peever, Maynooth, Ont.	Pine Logs Hardwood Logs Poplar Logs Spruce Logs Cedar Logs Poplar Pulpwood	1.00 1.00 .50 ..... ..... .....	7.50 1.50 3.00 2.00 4.50 .35	2.50 2.50 2.00 2.00 1.50 .40	11.00 Per MBM 8.00 Per MBM 5.00 Per MBM 7.50 Per MBM 6.00 Per MBM .75 Per Cord

Table No. 5  
Timber Areas Sold during the year ending March 31, 1947

Date Offered 1946	Date Sold 1946	Locality	Area sq. miles	No. of Tenders	To Whom Sold	Prices Paid				Total
						Kind of Timber	Bid	Upset	Dues	
Oct. 26	Nov. 21	Lutterworth Twp.	$\frac{1}{4}$	1	S. J. Bryant, Norland, Ont.	White Pine Logs Spruce & Balsam Logs Cedar Logs Birch Logs Basswood Logs Poplar Logs	\$2.00 3.00 2.00 3.00 3.00 3.00	\$7.50 5.00 2.00 4.50 4.50 3.50	\$2.50 2.00 1.50 2.50 2.50 1.50	\$12.00 Per MBM 10.00 Per MBM 8.00 Per MBM 10.00 Per MBM 10.00 Per MBM 8.00 Per MBM
Oct. 31	Nov. 18	Nansen Twp.	$3\frac{1}{2}$	1	Messrs. D'Amours Bros., Moonbeam, Ont.	Spruce and Balsam Pulpwood	.02 cents	1.8 cents	.....	1.82 cents Per Cu. Ft.
Nov. 1	Nov. 18	Blount Twp.	$1\frac{1}{4}$	2	A. E. Wicks, Cochrane, Ont.	Spruce Logs Spruce Pulpwood	..... .90	5.50 .20	2.00 1.40	7.50 Per MBM 2.50 Per Cord
Nov. 4	Nov. 19	Smvth & Davidson Twp.	18	1	J. W. Craig, Elk Lake, Ont.	Jackpine Logs Spruce Logs Spruce Pulpwood	..... ..... .....	6.00 5.50 .25	1.50 2.00 1.40	7.50 Per MBM 7.50 Per MBM 1.65 Per Cord
Nov. 5	Nov. 21	Forgie Twp.	2	1	Carl Jacobson, Box 1021, Kenora, Ont.	Green Spruce Pulp. Burnt Spruce Pulp.	.75 .75	.60 .30	1.40 1.40	2.75 Per Cord 2.50 Per Cord
Nov. 2	Nov. 25	Aberdeen Twp.	1	1	Jack P. Stobie, Port Lock, Ont.	Hemlock Logs Birch Logs Maple Logs Cedar Poles Cedar Posts	.25 .40 .25 .10 .02	2.50 5.50 3.50 .25 .02	1.50 2.50 2.50 .25 .02	4.25 Per MBM 8.40 Per MBM 6.25 Per MBM .60 Each .06 Each
Nov. 6	Nov. 25	Bridgland Twp.	$\frac{3}{4}$	2	Pennington Lumber Co. (Canada) Ltd., Thessalon, Ont.	Birch Logs Maple and Other Hardwoods Hemlock Spruce & Balsam Logs Pine Logs Cedar Poles 21' to 30' Cedar Poles 31' to 40' Cedar Poles 41' to 50'	2.50 2.25 1.00 1.00 2.00 ..... ..... .....	4.50 3.50 2.50 5.00 7.50 .25 .25 .25	2.50 2.50 1.50 2.00 2.50 .25 .50 .75	9.50 Per MBM 8.25 Per MBM 5.00 Per MBM 8.00 Per MBM 12.00 Per MBM .50 Each .75 Each 1.00 Each

TABLE No. 5

## Timber Areas Sold during the year ending March 31, 1947

Date Offered 1946	Date Sold 1946	Locality	Area sq. miles	No. of Ten-pliers	To Whom Sold	Prices Paid			Total	
						Kind of Timber	Bid	Upset		Dues
Nov. 6	Nov. 28	Hendrie Twp.	1 1/4	1	David Lankinen Wahnapitae P.O., Ont.	Birch Logs Spruce Logs Cedar Posts Fuelwood (Hard) Cedar Poles Up to 10 Cu. Ft. Over 10 to 20 Cu. Ft. Over 20 to 30 Cu. Ft. Over 30 to 40 Cu. Ft. Over 40 to 50 Cu. Ft.	\$ .20 .50 .00 1/2 .05 .10 .00 1/2 .00 1/2 .01 .01 1/2 .05 .00 1/2 .00 1/2	\$3.50 6.00 .03 .10 .03 .01 .05 .06 .07	\$2.50 2.00 .02 .50	\$ 6.20 Per MBM 8.50 Per MBM .05 1/2 Each .65 Per Cord .03 1/2 per Cu. Ft. .04 1/2 per Cu. Ft. .05 1/2 per Cu. Ft. .06 1/2 per Cu. Ft. .07 1/2 per Cu. Ft.
Nov. 13	Dec. 2	Matawatchan Twp.	1 1/2	7	Wm. Thompson, Camel Chute, Ont.	Red & White Pine Spruce Poplar Hardwoods	10.00 9.00 9.00 12.00	10.00 6.00 3.00 4.50	2.50 2.00 2.00 2.50	22.50 Per MBM 17.00 Per MBM 14.00 Per MBM 19.00 Per MBM
Nov. 14	Dec. 4	McGarry Twp.	4	1	Thomas Breen, Kearns, Ont.	Poplar Logs Spruce Logs Jackpine Logs Spruce Pulpwood Poplar Pulpwood Birch Fuelwood Jack Pine Pit Props Jackpine Pulpwood	.50 1.00 1.00 .20 .10 .10 .15 .10	2.50 7.00 7.50 .40 .25 .50 .60 .35	2.00 2.00 1.50 1.40 .40 .40 .40 .40	5.00 Per MBM 10.00 Per MBM 10.00 Per MBM 2.00 Per Cord .75 Per Cord .75 Per Cord 1.00 Per Cord .75 Per Cord
Nov. 19	Dec. 18	Shields Twp.	2	1	A. J. Antio, Wabos, Ont.	Birch Logs Maple Logs White Pine Cedar Poles Cedar Shingle Bolts	.25 .50 .50 .25 .25	5.50 3.50 7.50 .25 .25	2.50 2.50 2.50 .25 .40	8.25 Per MBM 6.00 Per MBM 10.50 Per MBM .50 Each .65 Per Cord
Nov. 19	Dec. 18	German Twp.	1 3/4	2	J. W. Quirion, Connaught Station, Ont.	Spruce Pulpwood Balsam Pulpwood	.40 .40	.30 1.00	1.40 .70	2.10 Per Cord 2.10 Per Cord

TABLE No. 5

Timber Areas Sold during the year ending March 31, 1947

Date Offered 1946	Date Sold 1946	Locality	Area sq. miles	No. of Ten- dlers	To Whom Sold	Prices Paid				Total
						Kind of Timber	Bid	Upset	Dues	
Nov. 19	Dec. 19	Dominion and St. Patrick Group of Islands, Upper Abitibi Lake	2	2	Philias Trudel, Georges Dostaler and Joseph Gervais, P. O. Clerval, Abitibi P. Quebec	White & Red Pine Spruce Logs Poplar Logs White Birch Logs Spruce Pulpwood Poplar Pulpwood Cedar Posts	\$4.00 2.00 1.50 1.00 .25 ..... .18	\$7.50 7.00 4.50 3.50 .35 .25 .40 .05	\$2.50 2.00 2.00 2.50 1.40 .40 .02	\$14.00 Per MBM 11.00 Per MBM 8.00 Per MBM 7.00 Per MBM 2.00 Per Cord .65 Per Cord .25 Each
Nov. 19	Dec. 18	McKinnon Twp.	2¾	2	Samuel D. Short and Arthur D. Baulé, Massey, Ont.	Red and White Pine 13" and over Hemlock Hardwoods Cedar Poles Up to 10 Cu. Ft. Over 10 to 20 Cu. Ft. Over 20 to 30 Cu. Ft. Over 30 to 40 Cu. Ft. Over 40 to 50 Cu. Ft. Over 50 Cu. Ft.	3.00 1.00 2.00 ..... ..... ..... ..... ..... ..... .....	7.50 3.50 3.50 ..... ..... ..... ..... ..... ..... .....	2.50 1.50 2.50 ..... ..... ..... ..... ..... ..... .....	13.00 Per MBM 6.00 Per MBM 8.00 Per MBM .03 Per Cu. Ft. .01 Per Cu. Ft. .05 Per Cu. Ft. .06 Per Cu. Ft. .07 Per Cu. Ft. .08 Per Cu. Ft.
Nov. 22	Dec. 23	Raglan Twp.	3¼	1	John T. Drohan, Barry's Bay, Ont.	Spruce and Balsam Logs Hemlock Logs Birch Logs Maple Logs Basswood Logs Oak and Elm Logs Poplar Logs Tamarac Logs	3.00 3.75 2.25 2.25 3.00 2.25 2.00 2.00 2.00	5.00 3.50 4.50 4.50 4.50 4.50 3.00 3.00 1.50	2.00 1.50 2.50 2.50 2.50 2.50 2.00 2.00 1.50	10.00 Per MBM 8.75 Per MBM 9.25 Per MBM 9.25 Per MBM 10.00 Per MBM 9.25 Per MBM 7.00 Per MBM 8.00 Per MBM
Nov. 25	Dec. 23	McElroy Twp.	8	4	King Kirkland Lumber 87, McKevey St., Kirkland Lake, Ont.	Jackpine Logs Spruce Logs Spruce Pulpwood	4.00 4.00 .95	8.50 8.00 .40	1.50 2.00 1.40	14.00 Per MBM 14.00 Per MBM 2.75 Per Cord



TABLE No. 5

## Timber Areas Sold during the year ending March 31, 1947

Date Offered 1946	Date Sold 1946	Locality	Area sq. miles	No. of Tenders	To Whom Sold	Prices Paid				Total
						Kind of Timber	Bid	Upset	Dues	
Nov. 29	Dec. 27	Dalhousie Twp.	1 1/4	3	Wm. F. Umpherson, Poland, Ont.	Pine Logs Hemlock Logs Maple Logs Basswood Logs Oak Logs Beech Logs Poplar Logs Cedar Posts Birch Logs	\$2.50 3.50 4.50 4.50 5.00 4.00 4.00 .01 4.50	\$7.50 3.50 4.50 2.50 4.50 2.50 2.00 .05 4.50	\$2.50 1.50 2.50 2.50 2.50 2.50 2.00 .02 2.50	\$12.50 Per MBM 8.50 Per MBM 11.50 Per MBM 11.50 Per MBM 12.00 Per MBM 9.00 Per MBM 9.00 Per MBM 08 Each 11.50 Per MBM
Nov. 29	Dec. 27	Conild Twp.	1 1/2	1	T. G. Fleron, Thessalon Ont.	Maple Logs Birch Logs Oak Logs Hemlock Logs Spruce & Balsam Logs Pine Logs Poplar Logs	4.25 5.25 2.50 1.25 ..... 7.50 .....	3.00 5.00 5.00 2.50 5.00 7.50 2.00	2.50 2.50 2.50 1.50 2.00 2.50 2.00	9.75 Per MBM 12.75 Per MBM 10.00 Per MBM 5.25 Per MBM 7.00 Per MBM 10.00 Per MBM 4.00 Per MBM
Dec. 3	Dec. 30	Glackmeyer Twp.	1 1/2	2	George Debault, Cochrane, Ont.	Spruce Pulpwood	.10	.20	1.40	1.70 Per Cord
Dec. 3	Dec. 30	Denbigh and Matawatchan Twps.	1 1/4	1	Ellsworth Presley, Vernacher, Ont.	Spruce Balsam Hemlock Maple, Basswood, Birch, Oak, Beech and Elm Poplar	1.00 1.00 1.00 1.00	5.00 3.50 4.50 3.00	2.00 1.50 2.50 2.00	8.00 Per MBM 6.00 Per MBM 8.00 Per MBM 6.00 Per MBM
Dec. 4	Dec. 30	Lyndloch Twp.	1 1/2	2	August E. Quade, Quadville, Ont.	Pine (Marked) Birch, Maple, Beech, Oak, Elm, Ash and Basswood, Marked Hemlock Spruce and Balsam Poplar Birch	6.00 5.00 5.00 3.00 5.50	7.50 4.50 3.50 3.00 4.50	2.50 2.50 1.50 2.00 2.50	16.00 Per MBM 12.00 Per MBM 10.00 Per MBM 12.00 Per MBM 8.00 Per MBM 12.50 Per MBM

TABLE No. 5

Timber Areas Sold during the year ending March 31, 1947

Date Offered 1946	Date Sold 1947	Locality	Area sq. miles	No. of Ten- ders	To Whom Sold	Prices Paid				Total
						Kind of Timber	Bid	Upset	Dues	
Dec. 6	Jan. 3	Curtis Twp.	1 <sup>1</sup> / <sub>4</sub>	1	S. T. Lewis, Searchmont, Ont.	Red & White Pine Logs Spruce Logs Balsam Logs Hardwood Logs Cedar Poles 21 to 30 Ft. 31 to 40 Ft.	\$ .50	\$7.50 5.00 5.00 3.50	\$2.50 2.00 2.00 2.50	\$10.50 Per MBM 7.00 Per MBM 7.00 Per MBM 6.00 Per MBM
Dec. 17	Jan. 6	Denbigh Twp.	1 <sup>1</sup> / <sub>2</sub>	2	Eady & Graham, Cloyne, Ont.	Pine Logs Spruce & Balsam Logs Hemlock Logs Hardwood Logs Poplar Logs	10.00 10.00	7.50 5.00 3.50 4.50 3.00	2.50 2.00 1.50 2.50 2.00	20.00 Per MBM 17.00 Per MBM 15.00 Per MBM 17.00 Per MBM 15.00 Per MBM
Dec. 18	Jan. 6	Dowling Twp.	1 <sup>1</sup> / <sub>2</sub>	4	L. Portelaunce, 5 Carleton St., Sudbury, Ont.	Red & W. Pine Logs Jackpine Logs Spruce Logs Balsam Logs Birch and Ash Logs Poplar Logs Cedar Logs	3.50 3.50	7.50 6.50 6.00 6.00 3.50 1.00 2.50 6.50	2.50 1.50 2.00 2.00 2.50 2.00 1.50	13.50 Per MBM 11.50 Per MBM 11.50 Per MBM 11.50 Per MBM 9.00 Per MBM 5.50 Per MBM 11.00 Per MBM
Dec. 12	Jan. 7	Fleet Twp.	9	2	Jerry Larochele, Callander, Ont.	Red & W. Pine Logs Spruce Logs Spruce Pulpwood Poplar Pulpwood	5.00 1.00	8.00 6.00 .45 .45	2.50 2.00 1.40 .40	15.50 Per MBM 9.00 Per MBM 1.85 Per Cord .85 Per Cord
Dec. 12	Jan. 8	Barrie Twp.	3 <sup>3</sup> / <sub>4</sub>	3	Messrs. Wells Bros., Marmora, Ont.	Red & W. Pine Logs Spruce Logs Hemlock Logs Hardwood Logs Poplar Logs	2.00 3.00 2.50 3.00 3.00	7.50 5.00 3.50 4.50 3.00	2.50 2.00 1.50 2.50 3.00	12.00 Per MBM 10.00 Per MBM 7.50 Per MBM 10.00 Per MBM 8.00 Per MBM
Dec. 23	Jan. 10	Wellison Twp.	1	1	W. E. McAuley, Elk Lake, Ont.	Spruce Logs Jackpine Logs Poplar Logs	.50 .50 1.00	6.00 6.50 3.00	2.00 1.50 2.00	8.50 Per MBM 8.50 Per MBM 6.00 Per MBM

TABLE No. 5  
Timber Areas Sold during the year ending March 31, 1947

Date Offered 1946	Date Sold 1947	Locality	Area sq. miles	No. of Ten- ders	To Whom Sold	Prices Paid			Total	
						Kind of Timber	Bid	Upset Dues		
Dec. 23	Jan. 20	Mulligan Twp.	1	2	Milton Irvine, Box 109, Englehart, Ont.	Red & W. Pine Logs Jackpine Logs Spruce Logs	\$1.50 1.25 1.25	\$7.00 7.00 6.50	\$2.50 1.50 2.00	\$11.00 per MBM 9.75 Per MBM 9.75 Per MBM
Dec. 30	Jan. 16	Triax Twp.	1/2	1	William Gregory Charlton Station, Ont.	Jackpine Logs Spruce Logs Poplar Logs	..... ..... .....	6.50 6.00 3.50	1.50 2.00 2.00	8.00 Per MBM 8.00 Per MBM 5.50 Per MBM
1947 Jan. 9	Jan. 29	Grassett Twp.	3 1/2	2	T. G. Fleron, Thessalon, Ont.	Hemlock Logs Hardwood Logs Poplar Logs Spruce & Balsam Logs Pine Logs Cedar Poles	3.50 5.25 ..... ..... 2.00 .....	2.50 4.50 2.00 5.00 7.50	1.50 2.50 2.00 2.00 2.50	7.50 Per MBM 12.25 Per MBM 4.00 Per MBM 7.00 Per MBM 12.00 Per MBM
Jan. 9	Jan. 29	Whitney Twp.	1/4	3	J. P. Roy, Timmins, Ont.	Spruce Logs Spruce Pulpwood Balsam Pulpwood Hard Fuelwood Soft Fuelwood	2.50 .90 ..... .25 .25	7.00 .45 2.05 .15 .15	2.00 1.40 .70 .50 .25	11.50 Per MBM 2.75 Per Cord 2.75 Per Cord .90 Per Cord .65 Per Cord
Jan. 9	Jan. 29	Blain Twp.	1/4	2	Herbert A. Palmer, Charlton, Ont.	Jackpine Logs Spruce Pulpwood Poplar Pulpwood	1.50 ..... .10	7.00 .45 .25	1.50 1.40 .40	10.00 Per MBM 1.85 Per Cord .75 Per Cord
Jan. 15	Feb. 4	Ashby Twp.	1/4	3	E. L. Crewson, Warkworth, Ont.	Pine Logs Spruce & Balsam Logs Hemlock Logs Hardwood Logs Cedar Logs	11.00 8.00 10.00 10.00 12.00	7.50 5.00 3.50 4.50 4.50	2.50 2.00 1.50 2.50 1.50	21.00 Per MBM 15.00 Per MBM 15.00 Per MBM 17.00 Per MBM 18.00 Per MBM



TABLE No. 5

## Timber Areas Sold during the year ending March 31, 1947

Date Offered 1947	Date Sold 1947	Locality	Area sq. miles	No. of Tenders	To Whom Sold	Prices Paid				Total
						Kind of Timber	Bid	Upset	Dues	
Feb. 1	Feb. 19	Wilberforce Twp.	1/4	3	Charles Lynch Douglas, Ont.	White Pine Logs Maple Logs Birch Logs Basswood Logs Poplar and other Softwood Logs Poplar Pulpwood Fuelwood (Hard) Fuelwood (Soft) Cedar Posts 8'	\$11.00 9.00 9.00 12.00 8.00 2.00 .50 .50 .25 .05	89.50 1.50 1.50 4.50 4.00 .60 .50 .25 .03	\$2.50 2.50 2.50 2.50 2.00 .40 .50 .25 .02	\$23.00 Per MBM 16.00 Per MBM 16.00 Per MBM 19.00 Per MBM 14.00 Per MBM 3.00 Per Cord 1.50 Per Cord 1.00 Per Cord .10 Each
Feb. 14	Mar. 4	Cardiff Twp.	1 1/2	3	T. A. Wilson Lumber Co. Ltd., Cannington, Ont.	Pine Logs Spruce & Balsam Logs Hemlock Logs Cedar Logs Tamarac Logs Maple Logs Birch Logs Oak Logs Basswood Logs Elm Logs Ash Logs Beech Logs Poplar Logs	4.25 2.25 3.25 2.25 2.25 3.25 4.25 4.25 5.25 3.25 3.25 3.25 2.25	7.50 5.00 3.50 4.50 4.50 4.50 4.50 4.50 3.50 3.50 3.50 3.50 3.00	2.50 2.00 1.50 1.50 1.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.00	14.25 Per MBM 9.25 Per MBM 8.25 Per MBM 8.25 Per MBM 8.25 Per MBM 10.25 Per MBM 11.25 Per MBM 11.25 Per MBM 12.25 Per MBM 9.25 Per MBM 9.25 Per MBM 9.25 Per MBM 7.25 Per MBM

TABLE NO. 6

## Timber Areas Abandoned in the Year Ending March 31, 1947

Date Sold	Date of Abandonment	Locality	Area Square Miles	Licensee	Kind of Timber
Oct. 15/42	Mar. 1/46	Best Twp.	1 $\frac{1}{4}$	A. J. Murphy Lbr. Co., Latchford, Ont.	Red and White Pine Spruce and Jack- pine Logs
Sept. 4/29	May 1/46	Area lying West of W-2	2	Peter A. Legrow, 242 N. Algoma St., Port Arthur, Ont.	Jackpine Ties Spruce Pulpwood Jackpine Logs
July 17/41	May 7/46	Devitt Twp.	$\frac{1}{4}$	E. Comeau, Val Cote, Ont.	Spruce Pulpwood Balsam Pulpwood
May 25/45	May 1/46	Rickaby and Lapierre Twps.	2	Sturgeon Tbr. Co., per P. A. Legrow, Box 506, Port Arthur, Ont.	Jackpine Pulpwood Spruce Pulpwood
Dec. 27/20	May 9/46	Nichol Twp.	36	Booth Lumber Ltd., Ottawa, Ont.	Red and White Pine Logs
Dec. 27/20	May 9/46	Charters Twp.	36	Booth Lumber Ltd., Ottawa, Ont.	Red and White Pine Logs
May 29/44	May 15/46	Brower Twp.	$\frac{1}{4}$	T. B. Skidmore, Brower, Ont.	Spruce Pulpwood
June 12/41	May 15/46	Kendrey Twp.	1 $\frac{1}{4}$	J. M. Charpentier, Driftwood, Ont.	Spruce Pulpwood Balsam Pulpwood
June 8/43	May 29/46	Morrisette Twp.	4 $\frac{1}{2}$	Haileybury Lumber Co., Ltd., Haileybury, Ont.	Spruce Logs Jackpine Logs White Pine Logs
Mar. 3/38	May 28/46	Tudor Twp.	$\frac{1}{2}$	H. C. Lloyd, Bannockburn, Ont.	All Species
Sept. 30/40	May 28/46	Tudor Twp.	1	H. C. Lloyd, Bannockburn, Ont.	All Species
Dec. 1/39	May 2/46	Aberdeen- Additional Twp.	$\frac{1}{4}$	John O. McLeod, Leeburn, Ont.	All Species
Mar. 20/40	May 23/46	Skead Twp.	1 $\frac{1}{2}$	T. S. Woollings, Englehart, Ont.	Spruce Logs Balsam Pulpwood Spruce Pulpwood
Sept. 29/41	June 13/46	Area unsurveyed West of Redditt Twp. Designated as T.B. 48	1 $\frac{1}{2}$	A. Leydier, Kenora, Ont.	Spruce Logs Jackpine Logs Spruce Pulpwood Balsam Pulpwood
Aug. 21/44	May 30/46	Owens Twp.	1 $\frac{1}{4}$	F. Gallant, Val Rita, Ont.	Spruce Pulpwood Balsam Pulpwood
Jan. 26/42	June 31/46	Somerville Twp.	1 $\frac{1}{2}$	S. Bryant, Norland, Ont.	All Species
Sept. 22/41	June 17/46	Williamson Twp.	$\frac{1}{2}$	J. E. Tremblay, Harty, Ont.	Spruce Pulpwood Balsam Pulpwood
July 29/43	June 17/46	Owens Twp.	$\frac{1}{2}$	W. Bergeron, Harty, Ont.	Spruce Pulpwood Balsam Pulpwood

TABLE NO. 6

## Timber Areas Abandoned in the Year Ending March 31, 1947

Date Sold	Date of Abandonment	Locality	Area Square Miles	Licensee	Kind of Timber
Aug. 16/43	June 21/46	Nansen Twp.	$\frac{1}{4}$	W. Lamontagne, Moonbeam, Ont.	Spruce Pulpwood Balsam Pulpwood
Apr. 20/39	June 21/46	Tudor Twp.	$\frac{1}{4}$	G. W. Jones, Bancroft, Ont.	Spruce Pulpwood Balsam Pulpwood Poplar Pulpwood
Jan. 22/38	May 17/46	Barrie Twp.	$\frac{3}{4}$	J. A. Newton, Arden, Ont.	All Species
Nov. 21/38	July 15/46	Firstbrook Twp.	$\frac{3}{4}$	S. Norfolk, Haileybury, Ont.	Red and White Pine Logs Jackpine Logs Spruce Logs Cedar Logs
May 30/40	July 8/46	Crerar Twp.	1	Alfred Gignac, River Valley, Ont.	Spruce Pulpwood Poplar Pulpwood
Nov. 12/40	July 15/46	Bayly and Skead Twps.	$3\frac{1}{2}$	Robt. MacCallum, Earlton, Ont.	Spruce Logs Jackpine Logs Spruce Pulpwood
May 17/45	July 15/46	Leith and Ray Twps.	5	W. H. Durrell, New Liskeard, Ont.	All Species
Dec. 30/40	July 22/46	Machin Twp.	$\frac{1}{4}$	Arthur Gauthier, Fauquier, Ont.	Spruce Pulpwood Balsam Pulpwood
Jan. 23/41	Aug. 7/46	Aweres Twp.	$\frac{3}{4}$	William Boston, Sault Ste. Marie, Ont.	Hardwood
May 20/39	Aug. 13/46	Lake Twp.	$\frac{1}{4}$	W. J. McCoy, Eldorado, Ont.	Maple Logs Basswood Logs Elm Logs Spruce Logs Balsam Pulpwood
Dec. 30/41	Aug. 13/46	Mayo Twp.	$\frac{3}{4}$	Howard Hostler, Hermon, Ont.	Spruce Pulpwood Balsam Pulpwood Poplar Pulpwood Maple Logs Spruce Logs
Jan. 17/42	Aug. 13/46	Sabine Twp.	1	Judson A. Gunter, Princes Lake, Ont.	Birch Logs Pine Logs Hemlock Logs Maple Logs Beech Logs
Mar. 18/37	Aug. 13/46	Sabine Twp.	$1\frac{1}{2}$	Judson A. Gunter, Princes Lake, Ont.	All Species
May 22/40	Aug. 19/46	Richardson Twp.	$\frac{1}{4}$	Harvey Isberg, Sleeman, Ont.	Jackpine Logs Jackpine Pulpwood Poplar Pulpwood Spruce Pulpwood

TABLE NO. 6

## Timber Areas Abandoned in the Year Ending March 31, 1947

Date Sold	Date of Abandonment	Locality	Area Square Miles	Licensee	Kind of Timber
Jan. 13/25	Aug. 19/46	Gladman Twp.	10	L. B. Christie, Box 7, 24 Fraser St. North Bay, Ont.	Red and White Pine Logs Cedar Poles
Apr. 20/39	Sept. 13/46	Herschell Twp.	1	G. W. Jones, Bancroft, Ont.	Spruce Pulpwood Balsam Pulpwood
Apr. 20/39	Sept. 13/46	Mayo and Ashby Twps.	1	G. W. Jones, Bancroft, Ont.	Spruce Pulpwood Balsam Pulpwood Poplar Pulpwood
Apr. 20/39	Sept. 13/46	Wollaston Twp.	$\frac{3}{4}$	G. W. Jones, Bancroft, Ont.	Spruce Pulpwood Balsam Pulpwood Poplar Pulpwood
Nov. 29/43	Sept. 13/46	Hartman Twp.	$\frac{1}{4}$	G. L. Pidgeon, Wabigoon, Ont.	Jackpine Logs Spruce Logs Spruce Pulpwood Jackpine Pulpwood
Nov. 12/40	Sept. 13/46	Montgomery and Patton Twps.	$\frac{1}{2}$	Wm. Laforge, Iron Bridge, Ont.	Hardwood Logs Hemlock Logs
Nov. 5/28	Sept. 13/46	Bond Twp.	$\frac{1}{2}$	J. W. Quirion, Connaught Stn., Ont.	Spruce Pulpwood Balsam Pulpwood
Sept. 30/37	Oct. 1/46	Zealand Twp.	$\frac{1}{2}$	George H. Leach, Dryden, Ont.	Jackpine Pulpwood Spruce Pulpwood
Oct. 27/43	Oct. 8/46	Haycock Twp.	$\frac{1}{2}$	John Shamlock, Box 944, Kenora, Ont.	Spruce Pulpwood
Nov. 27/44	Oct. 10/46	Janes Twp.	1 $\frac{1}{2}$	Mattawa Wood Products, Ltd., North Bay, Ont.	Jackpine Pulpwood
Oct. 30/39	Oct. 11/46	Clement and Scholes Twp.	17	Geo. Gordon & Co., Ltd., Cache Bay, Ont.	Red and White Pine Logs
Nov. 12/37	Oct. 8/46	Galbraith Twp.	$\frac{1}{4}$	Murray Bean, Bruce Stn., Ont.	Spruce Pulpwood Balsam Pulpwood
July 25/41	Oct. 8/46	Radcliffe Twp.	$\frac{1}{4}$	F. A. Smaglinski, Wilno, Ont.	Poplar Pulpwood
Aug. 17/38	Nov. 25/46	Doyle Twp.	5	John W. Fogg, Ltd., Timmins, Ont.	Red and White Pine Logs Jackpine Logs Spruce Logs
Dec. 20/40	Dec. 2/46	Melick Twp.	$\frac{1}{4}$	John Wyder, Box 352, Kenora, Ont.	Jackpine Logs Spruce Pulpwood Balsam Pulpwood
Nov. 3/42	Nov. 28/46	Between Twps. 83 and 84	2	J. Cebrario, Schrieber, Ont.	Spruce Logs Jackpine Logs



TABLE NO. 6

## Timber Areas Abandoned in the Year Ending March 31, 1947

Date Sold	Date of Abandonment	Locality	Area Square Miles	Licensee	Kind of Timber
Dec. 4/39	Dec. 27/46	Victoria Twp.	1	J. Whalen, Walford, Ont.	Spruce Pulpwood Balsam Pulpwood
Oct. 11/41	Mar. 31/46	Denbigh Twp.	½	Frank Edwards, Denbigh, Ont.	All Species
Nov. 23/43	Mar. 31/47	Head Twp.	2¼	Emil & Albert Zadow, 670 Pembroke St.W. Pembroke, Ont.	Red and White Pine Logs Poplar Logs
Nov. 23/36	Mar. 3/47	Parcels 1, 2, 3 & 4 on South Arm of Kenogamis Lake	9	Lars Lahti, Geraldton, Ont.	Jackpine Logs Spruce Logs

TABLE NO. 7

## Timber Areas Transferred during the year ending March 31, 1947

Date Sold	Date Transferred	Locality	Area Square Miles	Transferee	Kind of Timber
Mar. 1/27	Apr. 10/46	Beniah, Menapie and Thorning Twps.	143½	A. E. Wicks, Ltd., Cochrane, Ont.	Spruce Logs Balsam Logs Spruce, Balsam and other Pulpwoods
Dec. 18/44	June 4/46	Twp. 28	4	Armour & Graham, Ltd., 24 King St. W., Toronto, Ont.	Jackpine Logs Spruce Logs Jackpine Pitprops Spruce Pitprops
Jan. 3/45	June 17/46	Hanlan Twp.	1½	Leonides Boisvert, La Sarre, Que.	Poplar Logs Spruce Pulpwood Balsam Pulpwood
Apr. 26/37	June 7/46	Adrian Twp.	6¼	Nicholas Enders, Kakabeka Falls, Ont.	White Pine Logs Spruce and Balsam Pulpwood Birch, Spruce and Balsam Logs Birch Fuelwood
May 16/45	July 11/46	Rupert and Esnagami Twps.	15	Donald A. Clark, Port Arthur, Ont.	Jackpine
Jan. 12/07	June 19/46	Montreal River Pulp Conc.	1152	E. B. Eddy Co., Hull, Que.	Spruce, Balsam and other Pulpwood
May 30/40	Sept. 5/46	Area in vicinity of Nulla Lake	1	Harry Thomas, Port Arthur, Ont.	Spruce Pulpwood Balsam Pulpwood Pine Timber Spruce Logs Balsam Logs

TABLE No. 7

Timber Areas Transferred during the year ending March 31, 1947

Date Sold	Date Transferred	Locality	Area Square Miles	Transferee	Kind of Timber
Jan. 20/43	Sept. 5/46	Black Twp.	6	E. V. Woollings, Englehart, Ont.	Jackpine Logs Spruce Logs Spruce Pulpwood Balsam Pulpwood Poplar Pulpwood
Nov. 26/45	Jan. 13/47	Cochrane Twp.	1¾	K. W. Biglow, Devon, Ont.	Jackpine Logs Spruce Pitprops Jackpine Pitprops
July 18/46	Nov. 5/46	Eby Twp.	½	Chas. Marshall, Swastika, Ont.	Spruce Pulpwood Balsam Pulpwood
Dec. 18/87	Oct. 15/46	Livingstone Twp.	4¼	National Lumber Co., Ltd., 80 Richmond St. W. Toronto, Ont.	All Species
Feb. 28/44	Jan. 13/47	North Indian Res. No. 23	6	Eric Pearson and Paul Engblom, Fort Frances, Ont.	Jackpine Logs Spruce Logs Poplar Logs Jackpine Pulpwood
Jan. 11/37	Nov. 28/46	MacLennan Twp.	3¾	Del Doaust and John Morbin, Skead, Ont.	Red and White Pine Logs Jackpine Logs Spruce Logs Poplar Pulpwood Spruce Pulpwood
Nov. 1/46	Dec. 21/46	Little Twp.	1¾	Feldman Timber Co. Ltd., Schumacher, Ont.	Spruce Logs Poplar Logs Spruce Pulpwood Balsam Pulpwood
Dec. 9/35	Jan. 27/47	Pense Twp.	½	Ben Crick, Hilliardton, Ont.	White Pine Logs Spruce Logs Spruce Pulpwood
Oct. 4/39	Jan. 27/47	Pense Twp.	1¾	Ben Crick, Hilliardton, Ont.	Red and White Pine Logs Spruce Logs Birch Logs
Sept. 19/45	Nov. 19/46	Phelps Twp.	9	Pannill Lumber Co. Ltd., 42 Edward St., Kitchener, Ont.	Hardwood Logs Hemlock Logs Spruce Logs
1895-96	June 24/46	Pentland Twp.	24¼	Staniforth Lumber Co., 437 James St., Montreal, Que.	All Species
1878-79	Jan. 13/47	Lavant Twp.	15¾	Mary C. Herron, R.R. 2, Lanark, Ont.	All Species
Prior to 1879	Dec. 16/46	Anstruther Twp.	5¼	Ernest Caldwell, Hockley, Ont.	All Species

TABLE NO. 7

Timber Areas Transferred during the year ending March 31, 1947

Date Sold	Date Transferred	Locality	Area Square Miles	Transferee	Kind of Timber
1878-79	Sept. 26/46	Admaston Twp.	2 $\frac{3}{4}$	M. E. McNulty, Mt. St. Patrick, Ont.	All Species
Prior to 1879	Jan. 13/47	Berth 175	18	I. E. Provencher, Blind River, Ont.	All Species
Prior to 1879	Nov. 19/46	Bethune Twp.	8 $\frac{3}{4}$	Frank H. Harris Lumber Co. Ltd., Excelsior Life Bldg., Toronto, Ont.	All Species
Prior to 1879	May 19/46	South Canonto Twp.	1 $\frac{1}{2}$	B. W. and O. E. Rothwell, Lanark, Ont.	All Species
Prior to 1879	May 19/46	South Canonto Twp.	2	B. W. and O. E. Rothwell, Lanark, Ont.	All Species
Prior to 1879	June 3/46	Pts. Burnaby, Hebert and Eldridge Twps.	50	Gillies Bros. and Co. Ltd., Braeside, Ont.	All Species
Prior to 1879	June 3/46	Pts. Flett, Angus and Parkman Twps.	36	Gillies Bros. and Co. Ltd., Braeside, Ont.	All Species
Prior to 1879	June 3/46	Pts. LaSalle, Angus, McAusland, and Parkman Twps.	59	Gillies, Bros. and Co. Ltd., Braeside, Ont.	All Species
Prior to 1879	June 3/46	Pts. Wyse, Parkman and McAusland Twps.	36	Gillies Bros. and Co. Ltd., Braeside, Ont.	All Species
Prior to 1879	June 3/46	Pt. Parkman Twp.	17 $\frac{1}{2}$	Gillies Bros. and Co. Ltd., Braeside, Ont.	All Species
Prior to 1879	May 19/46	South Canonto Twp.	$\frac{1}{2}$	B. W. and O.E. Rothwell, Lanark, Ont.	All Species
1890-91	May 19/46	South Canonto Twp.	4 $\frac{1}{4}$	B. W. and O. E. Rothwell, Lanark, Ont.	All Species
July 30/46	Jan. 9/47	Sheraton Twp.	2 $\frac{1}{4}$	Bouchard Timber Co., 125 Wilson Ave., Timmins, Ont.	Jackpine Logs Poplar Logs Jackpine Pulpwood Poplar Pulpwood Balsam Pulpwood Spruce Pulpwood Jackpine Fuelwood and Pitprops
Aug. 15/46	Jan. 9/47	Sheraton Twp.	1 $\frac{1}{2}$	E. Mainville, 66 Main St., Timmins, Ont.	Jackpine Logs Jackpine Fuelwood Jackpine Pitprops

TABLE NO. 7

Timber Areas Transferred during the year ending March 31, 1947

Date Sold	Date Transferred	Locality	Area Square Miles	Transferee	Kind of Timber
Prior to 1879	June 21/46	Berth 107	36	K.V.P. Co. Ltd., Kalamazoo, Mich., U.S.A.	All Species
Prior to 1879	June 21/46	Bigelow Twp.	3¾	K.V.P. Co. Ltd., Kalamazoo, Mich., U.S.A.	All Species
Prior to 1879	June 21/46	Acheson Twp.	36	K.V.P. Co. Ltd., Kalamazoo, Mich., U.S.A.	All Species
Prior to 1879	June 21/46	Vernon Twp.	36	K.V.P. Co. Ltd., Kalamazoo, Mich., U.S.A.	All Species
Prior to 1879	June 21/46	Hyman Twp.	36	K.V.P. Co. Ltd., Kalamazoo, Mich., U.S.A.	All Species
Prior to 1879	June 21/46	Totten Twp.	36	K.V.P. Co. Ltd., Kalamazoo, Mich., U.S.A.	All Species
Prior to 1879	June 21/46	Porter Twp.	36	K.V.P. Co. Ltd., Kalamazoo, Mich., U.S.A.	All Species
Prior to 1879	Feb. 17/47	Stanhope Twp.	5	Hodgson Jones Lumber Co. Ltd., 320 Bay St., Toronto, Ont.	All Species
Prior to 1879	Feb. 17/47	Sherbourne Twp.	10¼	Hodgson Jones Lumber Co. Ltd., 320 Bay St., Toronto, Ont.	All Species
Prior to 1879	Feb. 17/47	Stanhope Twp.	11	Hodgson Jones Lumber Co. Ltd., 320 Bay St., Toronto, Ont.	All Species
Prior to 1879	July 17/47	Pts. Eddy, Jocko, Clarkson, Wyse and Poitras Twps.	50	Guelph Cask, Vencer & Plywood Co. Ltd., Scotstown, Ont.	All Species
Feb. 5/45	Mar. 20/47	McFadden Twp.	12	Chesterville Mines Ltd., 330 Bay St., Toronto, Ont.	White Pine Logs Red Pine Logs Jackpine Logs Spruce Logs Spruce Pulpwood Balsam Pulpwood





REPORT  
*of the*  
INSPECTOR OF LEGAL  
OFFICES  
ONTARIO  
1947

PRINTED BY ORDER OF  
THE LEGISLATIVE ASSEMBLY OF ONTARIO  
SESSIONAL PAPER NO. 5, 1948



TORONTO

Printed and Published by Baptist Johnston  
Printer to the King's Most Excellent Majesty  
1948





TO THE HONORABLE RAY LAWSON,

*Lieutenant-Governor of the Province of Ontario.*

MAY IT PLEASE YOUR HONOUR:

The undersigned begs respectfully to present to Your Honour the Annual Report of the Inspector of Legal Offices for the year ending 31st December, 1947.

L. E. BLACKWELL,  
*Attorney-General.*

Toronto, March 19th, 1948.



Report  
*of the*  
Inspector of Legal Offices  
Ontario, 1947

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Parliament Buildings,  
Toronto, Ontario.

THE HONOURABLE L. E. BLACKWELL, K.C.,  
*Attorney-General, Province of Ontario.*  
Parliament Buildings, Toronto.

SIR:

I have the honour to present to you my Report as Inspector of Legal Offices for the year ending December 31st, 1947.

It was expected that there would be a slackening off in the volume of business in the Land Titles and Registry Offices, and this has been the case regionally, in that in Southern Ontario, the volume was down, and in Northern Ontario the volume was up. The latter, of course, did not affect the former, but the total was still considerably in excess of the total for the year 1945. While the cost of operation of these offices is up, the surpluses paid to the various municipalities remain very substantial.

The volume of business in the various court offices was larger than ever. There were only two small deficits in operating costs. Some of the surpluses paid to the Province have increased.

It appears that the County and District Court business is on the increase. Large numbers of registrations of liens, bills of sale and chattel mortgages appear on the records in all the more populous centres in the Province.

The number of cases heard in the Magisterial Courts has increased, particularly in the cities, and the volume of fines, while seasonal, appears to be growing uniformly in most jurisdictions.

Division Court actions are on the increase, but this is confined to the large centres of population. The rural courts seem to have only a few cases each, and do not vary in good times or bad. It is most difficult to obtain the services of suitable individuals for these rural courts, as the earnings do not provide any incentive.

The total revenue from all sources is over two and three-quarter million dollars.

Mr. Moore has had a busy year in the Land Titles and Registry Offices. He has had a number of interesting problems to solve. We find it difficult to obtain and keep suitable personnel in the Land Titles Offices. Mr. Moore has revised the Land Titles Rules, Forms and Tariff, and it is

hoped this will be effective April 1st, 1948. For this excellent piece of revision and simplification he deserves much credit. Mr. Corey has been very valuable in his work in various offices, revising plans, descriptions, and helping out where the office was pressed with work.

The Auditors have all been very busy. Messrs. Dignam, Reddin and Gourley have not only adhered to their schedules, but have done extra audits when required, and have kept the outside staff to a point of efficiency where the work has been carried out promptly and well.

The outside offices have all kept their work up to date, and have co-operated with the public, who have had occasion to use these offices. While there are, of necessity, some complaints, these are minor, and few, and have been ironed out without difficulty.

Our own office here is just as busy as ever, and all the members have played their part faithfully and well. To all I express my deep appreciation, especially to Misses Kearney and Bailey, and to Miss Irish, who has taken the responsibility of handling all financial matters for many years and has performed this arduous task most capably.

The following is the total revenue collected by the Legal Offices of the Province and the disposition of such money:

**TOTAL REVENUE COLLECTED DURING 1947  
LEGAL OFFICES, PROVINCE OF ONTARIO**

Magistrates' Fines .....	\$ 484,441.57
Magistrates' Fees .....	42,568.29
(The above amounts do not include statutory amounts paid to municipalities, nor fines and fees paid direct by Magistrates to the Federal Government and The Liquor Control Act.)	
Registrars of Deeds and Local Masters of Titles, Fees .....	87,106.03
Registrars of Deeds and Local Masters of Titles, Land Transfer Tax .....	1,039,877.96
Local Registrars, S.C.O., County and District Court Clerks and Surrogate Registrars, Cash Fees .....	287,282.53
Local Registrars, S.C.O., County and District Court Clerks and Surrogate Registrars, Law Stamps .....	600,405.85
Crown Attorneys and Clerks of the Peace, Fees .....	72,932.61
Crown Attorneys and Clerks of the Peace, Fines and Estreated Bail .....	2,983.45
Sheriffs' Fees .....	110,713.10
Division Court Clerks' and Bailiffs' Fees .....	14,732.31
Miscellaneous Revenue .....	15,588.78
	<u>\$ 2,758,632.48</u>

**DISPOSITION**

Amount Paid through Inspector of Legal Offices to Treasury Department \$	1,118,348.67
Amount Paid Direct to Treasury Department in Land Transfer Tax .....	1,039,877.96
Amount Paid Direct to Treasury Department in Purchase of Law Stamps .....	600,405.85
	<u>\$ 2,758,632.48</u>

Amount Paid to Inspector of Legal Offices and Transferred to the Treasury Department afterwards Transferred by Journal Entry to other Departments of the Government as follows:	
Department of Lands and Forests .....	\$ 60,663.09
Department of Highways .....	110,468.96
	<u>\$ 171,132.05</u>

I attach hereto the schedules and statements in reference to the specific details of the offices and administration:

1. Statements—Osgoode Hall Offices (Surrogate Clerk, Administrative Branch, Appellate Division and Master's Office).
2. Financial Statement of Judicial Offices, namely, Sheriffs, Surrogate Judges, Local Masters, S.C.O., County and District Court Clerks and Surrogate Registrars, Crown Attorneys and Clerks of the Peace.
3. Financial Statement respecting Local Masters of Titles and Registrars of Deeds.
4. Financial Statement respecting Magistrates.
5. Statement re Juvenile Courts.

Statement re Division Court Clerks and Bailiffs.

7. Appointments.

All of which is respectfully submitted.

I have the honour to be, Sir,

Your obedient servant,

HUGH H. DONALD,

*Inspector of Legal Offices.*



STATEMENTS  
OSGOODE HALL OFFICES

- (a) SURROGATE CLERK
- (b) ADMINISTRATIVE BRANCH
- (c) APPELLATE DIVISION
- (d) MASTER, SUPREME COURT

## ANNUAL REPORT FOR YEAR 1947, SURROGATE CLERK'S OFFICE

1. Number of Notices of Application for Probate and Administration and Certificates Issued .....	16,014
2. Number of Notices of Application for Guardianship Received and Certificates Issued .....	41
3. Number of Caveats Filed .....	105
4. Number of Searches in Office Paid for Other than by Surrogate Registrars .....	187
5. Number of Deeds of Election Filed .....	1
6. Total Number of Supreme Court Orders Filed .....	21
7. Total Fees for 1947 .....	\$8,992.90

REPORT OF THE BUSINESS OF THE ADMINISTRATIVE BRANCH FOR THE  
YEAR ENDING WITH THE 31st OF DECEMBER, 1947  
SENIOR REGISTRAR'S BRANCH

Number of writs of summons issued (of which 77 were concurrent writs) .....	3,286
Actions entered in procedure book, commenced by writs issued during the year 1947 .....	3,286
Actions entered in procedure book, otherwise than by writs .....	168
Records passed .....	2,149
Writs of execution fi. fa. issued .....	319
Writs of execution renewals, alias and pluries .....	157
Actions entered for trial with jury .....	239
Actions entered for trial without jury .....	1,737
Amount of jury fees paid City Treasurer .....	\$837.00
Court orders .....	400
Chamber orders .....	3,211
Mechanics' lien orders entered .....	139
Attorney-General orders entered .....	376
Fiats entered .....	494
Change of names filed .....	333
Judgments after trial etc. ....	389
Judgments by default, mortgage actions .....	86
Judgments by default, ordinary actions .....	153
Judgments nisi signed .....	1,980
Judgments absolute signed .....	1594
Judgments in mechanics' liens .....	12
Judgments in respect of writs issued, year 1942 .....	6
Judgments in respect of writs issued, year 1943 .....	21
Judgments in respect of writs issued, year 1944 .....	67
Judgments in respect of writs issued, year 1945 .....	674
Judgments in respect of writs issued, year 1946 .....	2,534
Judgments in respect of writs issued, year 1947 .....	1,035
Total judgments entered .....	4,214
Amount recovered on judgments, exclusive of costs .....	\$ 1,846,529.88
Amount of taxed costs (including disbursements on judgments of all kinds) \$ .....	46,157.86
Fees paid in law stamps in Registrar's Office .....	\$ 56,234.10
Fees paid in law stamps in Appellate Division .....	\$ 1,633.10



**IN THE SUPREME COURT OF ONTARIO (COURT OF APPEAL)  
REPORT FOR THE YEAR ENDING 31st DECEMBER 1947**

1. Number of Criminal Appeals set down, of which 142 were applications for leave to appeal .....	293
2. Number of Criminal Appeals heard and disposed of .....	298
3. Number of Criminal Applications "in writing" for leave to appeal refused .....	177
4. Number of Civil Appeals set down .....	413
5. Number of Civil Appeals heard and disposed of .....	316
6. Number of Appeals standing for judgment as of December 31st, 1947.....	15
7. Number of Appeals reserved .....	166
8. Number of Motions heard by the Court.....	51

**APPEALS HEARD AND DISPOSED OF**

**CRIMINAL**

	Conviction Quashed	Dis- missed	Varied	New Trial Directed
By Attorney-General for Ontario .....	1	1	10	.
By Accused .....	31	198	38	17
By Attorney-General for Canada .....	.....	1	1	.....
Totals .....	32	200	49	17

**CIVIL**

	Allowed	Dis- missed	Varied	New Trial Directed	Settled
Supreme Court Trial or Single Judge .....	39	79	5	11	13
County or District Court.....	42	67	6	7	14
Division Court .....	6	23	—	2	2
Totals .....	87	169	11	20	29

**ANNUAL RETURN OF FEES COLLECTED IN LAW STAMPS, MASTER'S OFFICE,  
AND TAXING OFFICE, FOR THE YEAR ENDING 31st DECEMBER, 1947**

References and Quieting Titles .....	\$ 816.40
Mortgage References .....	179.80
Taing Officers' Fees .....	1,261.50
	\$2,257.70



## FINANCIAL STATEMENT

*respecting*

SHERIFFS

LOCAL REGISTRARS, S.C.O.

COUNTY AND DISTRICT COURT CLERKS

SURROGATE REGISTRARS

SURROGATE JUDGES

LOCAL MASTERS, S.C.O.

CROWN ATTORNEYS AND CLERKS OF THE PEACE









REPORT OF PERSONNEL, EARNINGS, DISBURSEMENTS, ETC., OF JUDICIAL OFFICERS THROUGHOUT THE PROVINCE OF ONTARIO FOR THE YEAR ENDING 31st DECEMBER, 1947

COUNTY OR DISTRICT	OFFICE	OFFICER	FEES EARNED IN CASH	FEES EARNED IN LAW STAMPS	TOTAL FEES EARNED	DISBURSEMENTS	NET INCOME OR SALARY OF OFFICER	SURPLUS FEES PAID TO PROVINCE	DISTRICT COUNTY OR
HASTINGS Belleville	Sheriff	T. W. Solmes (a)	13,730.06	5,240.80	18,970.86	5,197.41	4,024.98	4,507.67	HASTINGS
	Local Registrar	do							
	County Court Clerk	do							
	Surrogate Registrar	do							
	Surrogate Judge	J. C. Anderson	97.10		543.10	354.65	1,375.00		
	Local Master	W. C. Mikel	543.10		10,096.87	3,522.47	188.45	1,403.55	
	Crown Attorney	B. C. Donnan	10,096.87						
	Clerk of the Peace	do							
HURON Godenich	Sheriff	W. Nelson Hill	10,485.87	6,393.40	16,879.27	4,781.29	3,675.00	2,029.58	HURON
	Local Registrar	do							
	County Court Clerk	do							
	Surrogate Registrar	do							
	Surrogate Judge	T. M. Costello	434.65				1,375.00		
	Local Master	do		21.10					
	Crown Attorney	D. E. Holmes	6,091.66		6,091.66	1,136.45	4,477.61	477.60	
	Clerk of the Peace	do							
KENORA Kenora	Sheriff	L. D. MacCallum	5,707.73	1,849.15	7,556.88	667.56	3,150.00	1,890.17	KENORA
	Local Registrar	do							
	District Court Clerk	do							
	Surrogate Registrar	do							
	Surrogate Judge	E. C. Popham					1,375.00		
	Local Master	do							
	Crown Attorney	L. A. McLennan	3,641.93		3,641.93		3,641.93		
	Clerk of the Peace	do							



KENT Chatham	Sheriff	A. Poulter	6,474.91	6,474.91	2,510.10	3,632.40	332.41
	Local Registrar	D. E. Douglas	10,750.10	8,653.45	3,795.20	3,937.50	3,017.40
	County Court Clerk	do					
	Surrogate Registrar	do					
	Surrogate Judge	H. E. Grosch	613.30			1,375.50	
	Local Master	do					
	Crown Attorney	A. D. Bell	10,269.94	82.60	2,502.34	5,883.80	1,883.80
	Clerk of the Peace	do					
LAMBTON Sarnia	Sheriff	A. J. Johnston	5,327.61	5,327.61	1,358.67	3,968.94	
	Local Registrar	D. S. Whyte	8,867.90	7,445.45	2,121.70	4,000.00	2,746.20
	County Court Clerk	do					
	Surrogate Registrar	do					
	Surrogate Judge	E. A. Shaunessy (b)	113.15			1,375.00	
	Local Master	M. A. Miller	373.02				
	Crown Attorney	E. A. Shaunessy		11.80			
	Clerk of the Peace	H. M. Taylor					
		do					
LANARK Perth	Sheriff	G. R. McLennan	6,099.40	3,088.90	9,188.30	2,833.26	3,675.00
	Local Registrar	do					
	Surrogate Registrar	do					
	County Court Clerk	do					
	Surrogate Judge	F. W. Wilson		22.60		1,375.00	
	Local Master	do					
	Crown Attorney	J. A. B. Dulmage					
	Clerk of the Peace	do					

(a) T. W. Solmes appointed Oct. 1st, 1947; Figures shown are for whole year.

(b) Judge E. A. Shaunessy appointed Surrogate Judge for Lambton County, Oct. 28th, 1947.

**REPORT OF PERSONNEL, EARNINGS, DISBURSEMENTS, ETC., OF JUDICIAL OFFICERS THROUGHOUT THE  
PROVINCE OF ONTARIO FOR THE YEAR ENDING 31st DECEMBER, 1947**

COUNTY OR DISTRICT	OFFICE	OFFICER	FEES EARNED IN CASH	FEES EARNED IN LAW STAMPS	TOTAL FEES EARNED	DISBURSEMENTS	NET INCOME OR SALARY OF OFFICER	SURPLUS FEES PAID TO PROVINCE	COUNTY OR DISTRICT
LEEDS AND GRENVILLE Brockville	Sheriff	R. J. Gill	10,517.57	5,640.00	16,157.57	5,976.07	3,587.50	954.00	LEEDS AND GRENVILLE
	Local Registrar	do							
	County Court Clerk	do							
	Surrogate Registrar	do							
	Surrogate Judge	M. B. Tudhope (a)	253.64				1,375.00		
	Local Master	do							
LENNOX AND ADDINGTON Napanee	Crown Attorney	H. Atkinson	6,775.20		6,775.20	893.69	4,940.75	940.76	
	Clerk of the Peace	do							
	Sheriff	J. L. Haycock	6,381.93	2,156.95	8,538.88	1,736.18	2,990.00	1,655.75	LENNOX AND ADDINGTON
	Local Registrar	do							
	County Court Clerk	do							
	Surrogate Registrar	do							
LINCOLN St. Catharines	Surrogate Judge	J. E. Madden (b)					1,375.00		
	Local Master	do							
	Crown Attorney	K. S. Ham	3,929.31		3,929.31	703.46	3,225.85		
	Clerk of the Peace	do							
	Sheriff	W. H. C. Villiers (c)	12,560.35		12,560.35	2,674.94	5,038.54	4,846.87	LINCOLN
	Local Registrar	J. N. Marquis (d)	12,627.62	10,396.45	23,024.07	4,004.00	4,546.92	4,076.70	
LINCOLN St. Catharines	County Court Clerk	do							
	Surrogate Registrar	do							
	Surrogate Judge	do							
	Local Master	J. G. S. Stanbury	767.40				1,375.00		
	Crown Attorney	do							
	Clerk of the Peace	E. H. Lancaster	6,419.16	100.70	6,419.16	1,435.86	4,491.65	491.65	



REPORT OF PERSONNEL, EARNINGS, DISBURSEMENTS, ETC., OF JUDICIAL OFFICERS THROUGHOUT THE  
PROVINCE OF ONTARIO FOR THE YEAR ENDING 31st DECEMBER, 1947

COUNTY OR DISTRICT	OFFICE	OFFICER	FEES EARNED IN CASH	FEES EARNED IN LAW STAMPS	TOTAL FEES EARNED	DISBURSEMENTS	NET INCOME OR SALARY OF OFFICER	SURPLUS FEES PAID TO PROVINCE	COUNTY OR DISTRICT
NIPISSING North Bay	Sheriff	A. B. Girard	8,008.45	2,399.15	10,407.60	2,693.47	3,650.00	1,664.98	NIPISSING
	Local Registrar	do							
	District Court Clerk	do							
	Surrogate Registrar	do							
	Surrogate Judge	J. A. S. Plouffe					1,375.00		
	Local Master	do							
NORFOLK Simcoe	Crown Attorney	E. A. Tilley	7,356.09		7,356.09	1,934.15	4,684.60	737.34	NORFOLK AND DURHAM
	Clerk of the Peace	do							
	Sheriff	A. C. Pratt	10,940.77	4,044.80	14,985.57	5,927.57	3,040.00	1,973.20	
	Local Registrar	do							
	County Court Clerk	do							
	Surrogate Registrar	do							
NORTHUMBER- LAND AND DURHAM Cobourg	Surrogate Judge	G. A. P. Brickenden		40.90			1,375.00		NORTHUMBER- LAND AND DURHAM
	Local Master	do							
	Crown Attorney	W. E. Kelly							
	Clerk of the Peace	do							
	Sheriff	F. G. Richardson	12,509.19	7,041.45	19,550.64	5,218.98	4,200.00	3,090.21	
	Local Registrar	do							
NORTHUMBER- LAND AND DURHAM Cobourg	County Court Clerk	do							NORTHUMBER- LAND AND DURHAM
	Surrogate Registrar	do							
	Surrogate Judge	J. C. M. German	257.50						
	do	J. A. McGibbon	166.97						
	do	M. A. Miller	128.75					1,375.00	
	Local Master	do							
NORTHUMBER- LAND AND DURHAM Cobourg	Crown Attorney	H. R. Deyman	4,525.48		4,525.48	1,341.49	3,183.99		NORTHUMBER- LAND AND DURHAM
	Clerk of the Peace	do							



REPORT OF PERSONNEL, EARNINGS, DISBURSEMENTS, ETC., OF JUDICIAL OFFICERS THROUGHOUT THE PROVINCE OF ONTARIO FOR THE YEAR ENDING 31st DECEMBER, 1947

COUNTY OR DISTRICT	OFFICE	OFFICER	FEES EARNED IN CASH	FEES EARNED IN LAW STAMPS	TOTAL FEES EARNED	DISBURSEMENTS	NET INCOME OR SALARY OF OFFICER	SURPLUS FEES PAID TO PROVINCE	COUNTY OR DISTRICT
PEEL Brampton	Sheriff	A. E. Sherman	5,899.05		5,899.05	2,561.08	3,278.67	75.73	PEEL
	Local Registrar	A. H. Milner	5,390.65	4,390.95	9,781.60	1,254.81	3,150.00	985.84	
	County Court Clerk	do.							
	Surrogate Registrar	do.							
	Surrogate Judge	A. Cochrane	18.90	8.10			1,375.00		
	Local Master	do.							
PERTH Stuartford	Crown Attorney	A. G. Davis	5,462.79		5,462.79	836.00	4,313.40	313.39	
	Clerk of the Peace	do.							
	Sheriff	L. H. Morgan	12,163.14	7,663.25	19,826.39	5,232.72	4,100.00	2,830.42	PERTH
	Local Registrar	do.							
	County Court Clerk	do.							
	Surrogate Registrar	do.							
PETERBOROUGH Peterborough	Surrogate Judge	H. D. Lang	686.95				1,375.00		
	Local Master	do.		27.10					
	Crown Attorney	W. E. Goodwin	6,835.34		6,835.34	860.50	4,959.95	1,014.89	
	Clerk of the Peace	do.							
	Sheriff	J. A. Harstone	13,522.90	5,546.80	19,069.70	5,428.85	4,200.00	3,894.05	PETERBOROUGH
	Local Registrar	do.							
PETERBOROUGH Peterborough	County Court Clerk	do.							
	Surrogate Registrar	do.							
	Surrogate Judge	S. L. Smoke	169.70				1,375.00		
	Local Master	W. R. Philp	36.10		36.10		36.10		
PETERBOROUGH Peterborough	Crown Attorney	V. J. McElderry	5,967.64		5,967.64	839.76	4,555.95	571.93	
	Clerk of the Peace	do.							

PRESCOTT RUSSELL L'Original	Sheriff .....	E. A. Johnson .....	6,118.14	1,839.30	7,957.44	3,073.45	3,000.00	44.69	PRESCOTT AND RUSSELL
	Local Registrar .....	do. ....							
	County Court Clerk .....	do. ....							
	Surrogate Registrar .....	do. ....					1,375.00		
	Local Master .....	C. W. A. Marion .....							
	Crown Attorney .....	do. ....							
	Clerk of the Peace .....	W. R. Hall .....	4,094.38		4,094.38	1,447.75	2,646.63		
		do. ....							
PRINCE EDWARD Picton	Sheriff .....	H. J. Colliver .....	6,502.22	3,034.30	9,536.52	1,700.57	3,500.00	1,301.65	PRINCE EDWARD
	Local Registrar .....	do. ....							
	County Court Clerk .....	do. ....							
	Surrogate Registrar .....	do. ....							
	Local Master .....	W. S. Lane .....		1.40			1,375.00		
	Crown Attorney .....	do. ....							
	Clerk of the Peace .....	G. T. Walmsley .....	2,337.62		2,337.62		2,337.62		
		do. ....							
RAINY RIVER Fort Francs	Sheriff .....	C. L. Sundin .....	4,442.29	973.70	5,415.99	1,369.37	2,240.00	832.92	RAINY RIVER
	Local Registrar .....	do. ....							
	District Court Clerk .....	do. ....							
	Surrogate Registrar .....	do. ....							
	Local Master .....	W. W. Crow .....					1,375.00		
	Crown Attorney .....	do. ....							
	Clerk of the Peace .....	N. L. Croome .....	2,220.97		2,220.97	541.20	1,679.77		
		do. ....							

REPORT OF PERSONNEL, EARNINGS, DISBURSEMENTS, ETC., OF JUDICIAL OFFICERS THROUGHOUT THE PROVINCE OF ONTARIO FOR THE YEAR ENDING 31st DECEMBER, 1947

COUNTY OR DISTRICT	OFFICE	OFFICER	FEES EARNED IN CASH	FEES EARNED IN LAW STAMPS	TOTAL FEES EARNED	DISBURSEMENTS	NET INCOME OR SALARY OF OFFICER	SURPLUS FEES PAID TO PROVINCE	COUNTY OR DISTRICT
RENFREW Pembroke	Sheriff	W. H. Gibson	3,290.80		3,290.80	721.56	2,569.24		RENFREW
	Local Registrar	J. M. Beatty	4,742.71	3,573.80	8,316.51	687.95	3,150.00	904.76	
	County Court Clerk	do							
	Surrogate Registrar	do							
	Surrogate Judge	J. T. Mulcahy		13.50			1,375.00		
	Local Master	do							
	Crown Attorney Clerk of the Peace	H. B. Johnson do	4,734.39		4,734.39	959.20	3,775.19		
SIMCOE Barrie	Sheriff	E. C. Drury	9,009.32	1,231.00	10,240.32	4,284.64	3,937.50	787.18	SIMCOE
	Local Registrar	do							
	County Court Clerk	do							
	Surrogate Registrar	G. D. Banting	8,813.20	8,704.20	17,517.40	1,751.45	3,000.00	4,061.75	
	Surrogate Judge	J. G. Harvie	784.84				1,375.00		
	Local Master	do		14.20					
	Crown Attorney Clerk of the Peace	F. A. Hammond do	10,059.85		10,059.85	2,310.20	5,648.36	2,101.29	
STORMONT DUNDAS AND GLENGARRY Cornwall	Sheriff	D. A. McNaughton	12,867.87	4,518.85	17,386.72	6,072.23	4,400.00	2,395.64	STORMONT DUNDAS AND GLENGARRY
	Local Registrar	do							
	County Court Clerk	do							
	Surrogate Registrar	do							
	Surrogate Judge	G. E. Brennan	200.30				1,375.00		
	Local Master	do							
	Crown Attorney Clerk of the Peace	J. G. Harkness (a) do	Fees com	mutated at \$	3,000.00	per annum.			





REPORT OF PERSONNEL, EARNINGS, DISBURSEMENTS, ETC., OF JUDICIAL OFFICERS THROUGHOUT THE PROVINCE OF ONTARIO FOR THE YEAR ENDING 31st DECEMBER, 1947

COUNTY OR DISTRICT	OFFICE	OFFICER	FEES EARNED IN CASH	FEES EARNED IN LAW STAMPS	TOTAL FEES EARNED	DISBURSEMENTS	NET INCOME OR SALARY OF OFFICER	SURPLUS PAID TO PROVINCE	COUNTY OR DISTRICT
VICTORIA Lindsay	Sheriff	J. Forman	7,070.99	3,333.60	10,404.59	2,483.25	3,262.50	1,325.24	VICTORIA
	Local Registrar	do							
	County Court Clerk	do							
	Surrogate Registrar	do					1,375.00		
	Surrogate Judge	J. A. McGibbon							
	Local Master	do							
WATERLOO Kitchener	Crown Attorney	L. W. Jordan (a)	4,299.55		4,299.55	1,080.46	3,219.09		
	Clerk of the Peace	do							
	Sheriff	G. H. Gillies	23,208.70	13,451.10	36,659.80	9,071.35	4,500.00	9,637.35	WATERLOO
	Local Registrar	do							
	County Court Clerk	do							
	Surrogate Registrar	do							
WELLAND Welland	Surrogate Judge	E. W. Clement	993.97	6.00			1,375.00		
	Local Master	do							
	Crown Attorney	W. P. Clement	Fees commuted at \$3,500.00 per annum.)						
	Clerk of the Peace	do							
	Sheriff	V. L. Davidson	10,686.59		10,686.59	3,091.29	6,609.50	985.80	WELLAND
	Local Registrar	do	14,425.84	9,198.60	23,624.44	5,216.40	4,200.00	5,009.44	
WELLAND Welland	County Court Clerk	W. H. Waugh							
	Surrogate Registrar	do							
	Surrogate Judge	do							
	Local Master	H. E. Fuller	493.39				1,375.00		
	Crown Attorney	do		5.50					
	Clerk of the Peace	T. F. Forestell (b)	Fees commuted at \$5,000.00 per annum.						

WELLINGTON										
Guelph	Sheriff	H. C. Waind	14,652.94	7,330.35	21,983.29	4,840.85	4,500.00	5,312.09	WELLINGTON	
	Local Registrar	do								
	County Court Clerk	do								
	Surrogate Registrar	do								
	Local Master	do	94.20		94.20		1,375.00			
	Surrogate Judge	R. S. Clark (c)	120.34							
	do	E. W. Clement	396.73							
	Crown Attorney	J. M. Kearns	Fees com	mutad at \$	3,450.00 p	er annum.				
	Clerk of the Peace	do								
WENTWORTH	Sheriff	A. C. Caldwell	34,009.67		34,009.67	14,144.03	5,050.00	14,815.64	WENTWORTH	
Hamilton	Local Registrar	G. T. Inch	33,985.12	32,178.55	66,163.67	10,747.48	5,550.00	17,687.64		
	County Court Clerk	do								
	Surrogate Registrar	do								
	Surrogate Judge	E. F. Lazier	1,000.00				1,375.00			
	do	W. Schwenger	1,000.00							
	Local Master	E. F. Lazier		81.10						
	do	W. Schwenger		8.20			13.75			
	Crown Attorney	H. F. McCulloch (d)	Fees com	mutad at \$	7,000.00 p	er annum.				
	Clerk of the Peace	do								
	Ass't Crown Attorney	H. F. Brown					2,000.00			

(a) L. W. Jordan appointed Jan. 1st, 1947.

(b) T. F. Forestell appointed Jan. 1st, 1947.

(c) R. S. Clark appointed County Judge Oct. 28th, 1947; Judge R. L. MacKinnon retired; Figures shown are for whole year.

(d) H. F. McCulloch's salary increased to \$7,000 from April 1st, 1947.

REPORT OF PERSONNEL, EARNINGS, DISBURSEMENTS, ETC., OF JUDICIAL OFFICERS THROUGHOUT THE  
PROVINCE OF ONTARIO FOR THE YEAR ENDING 31st DECEMBER, 1947

COUNTY OR DISTRICT	OFFICE	OFFICER	FEES EARNED IN CASH	FEES EARNED IN LAW STAMPS	TOTAL FEES EARNED	DISBURSEMENTS	NET INCOME OR SALARY OF OFFICER	SURPLUS FEES PAID TO PROVINCE	COUNTY OR DISTRICT
York Toronto	Sheriff	J. D. Conover	139,875.71		139,875.71	74,648.89	5,943.75	59,283.97	York
	County Court Clerk	J. H. Kennedy	54,864.15		54,862.15	16,345.90	4,300.00	34,216.25	
	Surrogate Registrar	A. S. Winchester	121,742.15	137,747.90	259,490.05	21,507.50	5,550.00	94,684.65	
	Clerk of the Peace	do	22,251.39		22,251.39	10,735.73		11,515.66	
	Crown Attorney	J. W. McFadden	Fees commuted at \$8,375.00 per annum.				7,000.00		
	Ass't. Crown Attorney	W. O. Gibson					4,187.49		
	do	F. J. Malone					4,062.50		
	do	A. O. Klein					3,912.45		
	do	H. A. Sanders					1,500.00		
	do	A. Armstrong					3,912.45		
	do	H. H. Bull					2,525.00		
	Surrogate Judge	James Parker	1,000.00		1,000.00		1,525.00		
	do	I. M. Macdonell	1,000.00		1,000.00		1,525.00		
	do	T. H. Barton	1,000.00		1,000.00		1,525.00		
	do	A. E. Honeywell	1,000.00		1,000.00		1,525.00		
do	F. Denton	1,000.00		1,000.00		1,525.00			
do	J. E. Lovering	1,000.00		1,000.00		1,525.00			
do	J. A. Shea	1,000.00		1,000.00		1,525.00			
do	S. Factor	1,000.00		1,000.00		1,525.00			
do	F. G. J. McDonagh	1,000.00		1,000.00		1,525.00			

STATEMENT

*respecting*

COMMUTED CROWN ATTORNEYS AND CLERKS OF THE PEACE

## COMMUTED CROWN ATTORNEYS AND CLERK OF THE PEACE, 1917

COUNTY OR DISTRICT AND ADDRESS	NAME	GROSS RECEIPTS	RATE OF SALARY PAID BY PROVINCE	SALARY PAID OUT OF FEES	ALLOWANCE PAID BY PROVINCE FOR OFFICE EXPENSES	DISBURSEMENTS PAID OUT OF FEES OF OFFICE	AMOUNT RECEIVED BY PROVINCE
CARLETON Ottawa	R. Mercier	4,651.98	7,000.00		1,500.00	4,109.43	542.55
COCHRANE Timmins	S. A. Caldwell	615.98	3,500.00		1,000.00	258.98	357.00
DUFFERIN Orangeville	R. D. Evans	1,066.84	1,270.00		130.00	11.53	1,055.31
ESSEX Windsor	E. C. Awrey	13,141.89	7,000.00			6,901.27	6,240.62
LAMBTON Sarnia	H. M. Taylor	3,450.30	3,500.00			1,550.36	1,899.94
LANARK Smiths Falls	J. A. B. Dulmage	1,469.74	2,500.00		500.00	309.07	1,160.67
MIDDLESEX London	C. C. Savage	6,215.82	7,000.00			1,306.69	4,909.13
NORFOLK Simcoe	W. E. Kelly	3,159.75	3,400.00		650.00		3,159.75
ONTARIO Whitby	A. C. Hall	6,206.53	5,062.50			1,862.73	4,343.80
STORMONT, DUNDAS AND GLENGARY—Cornwall	J. G. Harkness	838.28	3,000.00		662.49	65.00	510.13
SUBURRY Sudbury	E. D. Wilkins	4,017.14	6,750.00			2,843.81	1,173.33
TEMISKAMING Haileybury	W. H. Walter	2,841.05	5,000.00		1,200.00	2,591.32	249.73
WATERLOO Kitchener	W. P. Clement	3,361.40	3,500.00			640.24	2,721.16
WELLAND Welland	T. F. Forestell	5,511.07	5,000.00			2,922.01	2,589.06
WELLINGTON Guelph	J. M. Kearns	2,481.91	3,450.00		750.00	99.56	2,382.35
WENTWORTH Hamilton	H. F. McCulloch	13,221.58	7,000.00			939.85	12,281.73
YORK Toronto	J. W. McFadden	3,865.21	8,500.00		*	36.70	3,828.51

FINANCIAL STATEMENT

*respecting*

REGISTRARS OF DEEDS AND LOCAL MASTERS OF TITLES

STATEMENT OF REGISTRARS OF DEEDS AND LOCAL MASTERS OF TITLES, PROVINCE OF ONTARIO,  
FOR THE YEAR ENDING 31st DECEMBER, 1947

No.	REGISTRY DIVISION	REGISTRAR	ADDRESS	GROSS EARNINGS OF OFFICE	DISBURSEMENTS	NET INCOME OR SALARY OF OFFICER	AMOUNT PAID TO COUNTY	AMOUNT PAID TO PROVINCE	No. OF INSTRUMENTS REGISTERED
1	Algonia	E. L. DeCourcy	Sault Ste. Marie	10,511.73	8,050.80	3,127.50		8,610.63	3,597
2	Brant	A. Graham	Brantford	13,517.95	4,131.15	4,838.68	4,548.12		5,226
3	Bruce	J. C. Busby	Walkerton	12,933.90	4,109.72	3,800.00	4,324.18		4,253
4	Carleton	T. V. Flanagan	Ottawa	17,064.68	7,775.00	4,828.97	4,460.71		5,632
5	Cochrane	J. A. A. Duranceau	Cochrane	23,080.12	15,498.21	4,374.93		17,583.05	4,205
6	Dufferin	F. J. Patterson	Orangeville	3,863.75	853.60	3,905.08	5.07		1,238
7	Dundas	Harvey Johnston	Morrisburg	2,500.15	480.00	2,020.15			946
8	Durham, East	Hugh Cameron	Port Hope	7,840.95	4,236.41	3,302.27	302.27		930
9	Durham, West	do	Bowmanville						1,417
10	Elgin	H. J. Davis	St. Thomas	13,007.55	5,896.70	3,590.50	3,520.35		4,437
		Miss B. Coyne (L.M.T.)	do	76.60		2,650.00			20
11	Essex	Dr. Paul Poisson	Windsor	41,034.85	16,907.98	4,895.72	19,285.88		15,998
12	Fort William	J. N. F. Gillespie	Fort William	10,467.59	7,205.49	2,604.99		7,686.70	3,326
		Miss M. Sutherland DLMT	do			1,814.97			881
13	Frontenac	W. J. Gibson	Kingston	12,547.50	4,859.50	4,668.80	3,019.20		4,173
14	Glengarry	S. O'Connor	Alexandria	3,359.60	850.00	2,509.60			1,138
15	Grenville	J. G. Langstaff	Prescott	3,051.00	424.15	2,626.85			1,004
16	Grey, North	G. H. Holmes	Owen Sound	9,332.05	4,534.75	3,898.65	898.65		3,158
17	Grey, South	H. McKechnie	Durham	4,761.55	1,706.00	3,027.78	27.77		1,701
18	Haldimand	H. E. May	Cayuga	6,332.97	2,605.97	2,575.00	1,152.00		2,223
19	Haliburton	E. E. McElwain	Minden	3,226.53	826.00	2,400.53			1,054
20	Halt	Miss M. B. Field	Milton	12,080.00	4,444.30	2,700.00	4,935.70		3,954
21	Hastings	R. J. S. Dewar	Belleville	14,177.60	4,980.10	4,819.75	4,377.75		5,098
22	Huron	J. M. Roberts	Goderich	11,256.73	5,579.73	3,300.00	2,377.01		4,154
23	Kenora	Mrs. E. A. Cunningham	Kenora	7,785.40	6,226.83	2,990.01		6,489.15	2,529
24	Kent	M. Huffman	Chatham	17,377.88	5,297.50	5,108.04	6,972.34		6,731
		(See Frontenac)							
25	Kingston and Frontenac	N. L. Le Sueur	Sarnia	23,183.87	15,472.30	4,500.00	3,211.57		7,753
26	Lambton	James Savage (a)	Almonte	2,494.96	544.46	1,950.50			889
27	Lanark, North	W. M. Rogers (b)	Perth	3,855.73	520.60	3,167.57	167.56		1,388
28	Lanark, South	T. R. Gray	Brockville	7,161.55	2,502.05	3,050.00	1 609.50		2,892
29	Lennox and Addington	G. S. Reid	Napanee	4,242.95	1,043.00	3,099.97	99.98		1,424
30	Lincoln	W. D. Fairbrother	St. Catharines	22,422.36	12,903.96	4,851.84	4,666.56		7,601
31	London	W. F. Hungerford	London	13,271.70	5,146.55	4,712.52	3,412.63		5,193



32	Manitouxin	W. C. Fell	Gore Bay	3,329.12	1,825.50	1,800.00	1,503.62	1,036
33	Middlesex, East and North	C. M. Morris (c)	London	17,880.55	9,375.90	1,332.00	7,172.65	6,224
34	Middlesex, West	H. L. Bechill	Glouce	4,686.45	1,095.94	3,295.26	295.25	1,537
35	Muskoka	W. E. Towns (d)	Bracebridge	11,911.03	5,632.70	3,500.00	2,778.83	3,393
		Miss I. A. Thomson LMT	do					
36	Nipissing	C. R. Brady	North Bay	13,477.82	8,290.13	3,795.00	10,448.31	3,504
37	Orfolk	D. Gilbertson	Simcoe	12,466.00	6,079.10	3,917.50	2,469.40	4,566
38	Northumberland, East	A. G. Willoughby (e)	Colborne	5,139.16	1,377.05	3,381.05	381.06	1,605
39	Northumberland, West	F. J. Slade	Cobourg	2,994.74	826.25	2,168.45		1,074
40	Ontario	A. W. Bell	Whitby	19,340.30	11,854.96	3,500.00	3,985.34	6,940
41	Ottawa	R. D. Bray	Ottawa	18,883.55	8,222.30	4,500.00	6,161.25	6,784
	do	W. G. Pugsley (L.M.T.)	Ottawa	6,258.05	1,855.53		1,435	1,435
42	Oxford	W. J. MacWhinnie	Woodstock	12,840.55	5,942.70	4,588.88	2,308.97	4,376
43	Parry Sound	J. H. Tully	Parry Sound	9,731.45	5,285.62	2,760.00	1,685.77	2,022
44	Peel	S. Beatly	Brampton	13,888.74	6,570.80	3,550.00	3,767.94	4,825
45	Perth	G. D. L. Rice	Stratford	10,141.81	4,149.95	3,900.00	2,091.86	3,632
46	Peterborough	J. R. Corkey (f)	Peterborough	13,307.19	4,464.40	4,774.28	3,968.51	4,544
47	Port Arthur	W. A. Elliott (g)	Port Arthur	14,420.81	11,705.26	2,780.21	5,162.03	4,390
	do	Miss I. Wilson	do					
48	Prescott	J. L. Roehon	L'Original	4,042.45	1,465.65	2,576.80		1,608
49	Prince Edward	J. V. Graydon	Pictou	3,820.60	697.21	3,123.39		1,256
50	Rainy River	N. L. Croome	Fort Frances	6,385.50	2,532.05	1,500.00	2,353.45	1,653
51	Renfrew	G. W. Campbell	Pembroke	10,369.45	3,585.10	4,578.44		3,550
52	Russell	M. Stanley	Russell	2,943.55	745.00	2,198.55		1,045
53	Simcoe	G. O. Cameron	Barrie	27,782.38	11,320.00	4,850.00	11,612.38	9,336
54	Stromont	J. A. Phillips (h)	Cornwall	8,112.25	3,835.00	3,638.63	638.62	2,686
55	Sudbury	B. St. Pierre	Sudbury	19,515.05	10,048.75	3,574.98		5,849
56	Temiskaming	P. J. Knox	Haileybury	14,883.58	9,376.79	1,999.98		3,377
57	Toronto	I. T. Strachan	Toronto	111,364.90	74,172.11	6,000.00	31,192.79	44,907
58	Victoria	D. McQuarrie	Lindsay	7,488.40	2,949.35	3,769.53	769.52	2,554
59	Waterloo	G. V. Hilborn	Kitchener	24,050.20	13,635.74	4,800.00	5,614.46	9,101
60	Welland	M. Vaughan (i)	Welland	29,031.79	17,273.05	4,125.00	7,633.74	10,514
61	Wellington, North	J. J. McDonald	Arthur	4,555.85	1,621.60	2,934.25		1,749
62	Wellington, S. and C.	J. B. Morrison	Guelph	10,356.71	4,458.10	4,449.25	1,449.26	3,566
63	Wentworth	W. H. Lovering	Hamilton	56,470.73	23,011.50	6,000.00	27,459.23	22,346
64	York, East and West	W. I. Hearst	Toronto	99,619.13	47,954.31	6,000.00	45,664.82	41,259
65	York, North	R. L. Boag	Newmarket	10,894.81	2,064.60	4,783.02	4,047.19	4,125
66	York	C. R. Deacon (M. of T.)	Toronto	50,400.90	42,448.11	5,943.75		14,786

(a) J. Savage appointed Nov. 1st, 1947; Figures shown are for whole year.

(b) W. M. Rogers appointed Nov. 1st, 1947; Figures shown are for whole year.

(c) C. M. Morris appointed Sept. 1st, 1947; Figures shown are for whole year.

(d) W. E. Towns appointed Feb. 1st, 1947; Figures shown are for whole year.

(e) A. G. Willoughby died Sept. 20th, 1947; H. F. Cowie, Deputy, acted for remainder of year; Figures shown are for whole year.

(f) J. R. Corkey appointed Feb. 1st, 1947; W. F. Morrow having resigned; Figures shown are for whole year.

(g) N. A. Elliott appointed Oct. 1st, 1947; Miss I. Wilson superannuated; Figures shown are for whole year.

(h) J. A. Phillips appointed April 1st, 1947; Figures shown are for whole year.

(i) M. Vaughan appointed Feb. 1st, 1947; Figures shown are for whole year.

(a) J. Savage appointed Nov. 1st, 1947; Figures shown are for whole year.

(b) W. M. Rogers appointed Nov. 1st, 1947; Figures shown are for whole year.

(c) C. M. Morris appointed Sept. 1st, 1947; Figures shown are for whole year.

(d) W. E. Towns appointed Feb. 1st, 1947; Figures shown are for whole year.

(e) A. G. Willoughby died Sept. 20th, 1947; H. F. Cowie, Deputy, acted for remainder of year; Figures shown are for whole year.

(f) J. R. Corkey appointed Feb. 1st, 1947; W. F. Morrow having resigned; Figures shown are for whole year.

(g) N. A. Elliott appointed Oct. 1st, 1947; Miss I. Wilson superannuated; Figures shown are for whole year.

(h) J. A. Phillips appointed April 1st, 1947; Figures shown are for whole year.

(i) M. Vaughan appointed Feb. 1st, 1947; Figures shown are for whole year.



STATEMENT

*respecting*

LOCAL MASTERS OF TITLES

## LOCAL MASTERS OF TITLES, PROVINCE OF ONTARIO, 1947

Local Masters of Titles Who Are Also Registrars of Deeds and Who Remit Surplus Fees to the Province

	DISTRICT AND ADDRESS	NAME	TOTAL EARNINGS	SALARIES AND OTHER EXPENSES PAID BY PROVINCE	SALARIES AND OTHER EXPENSES PAID OUT OF FEES	AMOUNT RECEIVED BY PROVINCE
1	ALGOMA Sault Ste. Marie .....	E. L. DeCourcy .....	10,511.72	6,025.83	2,024.97	8,610.63
2	COCHRANE Cochrane .....	J. A. A. Duranceau .....	23,080.12	10,001.14	5,497.07	17,583.05
3	FORT WILLIAM Fort William .....	J. N. F. Gillespie (Reg.) Miss M. Sutherland (Deputy L.M.T.) .....	10,467.59	4,490.54	2,714.95	7,686.70
4	KENORA Kenora .....	Mrs. E. A. Cunningham .....	7,785.40	5,010.59	1,216.24	6,489.16
5	NIPISSING North Bay .....	G. R. Brady .....	13,477.82	5,260.62	3,029.51	10,448.31
6	PORR ARTHUR Port Arthur .....	W. A. Elliott (Reg) (a) Miss I. Wilson .....	14,420.81	1,396.12	10,309.14	5,162.03
7	SUDBURY Sudbury .....	B. St. Pierre .....	19,515.05	7,111.71	2,937.04	16,578.01
8	TEMISKAMING Haileybury .....	P. J. Knox .....	14,883.58	4,556.65	4,820.14	10,063.44

## Local Masters of Titles Who Are Not Registrars of Deeds and Who Take Fees

	COUNTY OR DISTRICT AND ADDRESS	NAME	TOTAL EARNINGS	DISBURSEMENTS	NET EARNINGS	AMOUNT PAID TO PROVINCE	NET TO OFFICER
1	CARLETON Ottawa .....	W. G. Pugsley .....	6,258.05	1,855.53	4,402.52		
2	ELGIN St. Thomas .....	Miss B. Coyne .....	76.60	.....	76.60		
	MUSKOKA Bracebridge .....	Miss I. A. Thomson (Dep.) .....	4,008.90	1,153.78	2,855.12	1,005.12	1,850.00

## Local Masters of Titles Who Are Also Registrars of Deeds and Who Take Fees

	COUNTY OR DISTRICT & ADDRESS	NAME	TOTAL EARNINGS	DISBURSE- MENTS	AMOUNT RECEIVED BY PROVINCE	NET TO OFFICER
1	MANITOULIN Gore Bay	W. C. Fell	3,329.12	1,825.50	1,503.62	1,800.00
2	MUSKOKA Bracebridge	W. E. Towns (b) (Reg. only)	7,902.12	4,478.92	773.21	1,650.00
3	ONTARIO Whitby	A. W. Bell	19,340.30	11,854.96	3,985.34	3,500.00
4	PARRY SOUND Parry Sound	J. H. Tully	9,731.45	5,285.62	1,685.77	2,760.00
5	RAINY RIVER Fort Frances	N. L. Croome	6,385.50	2,532.05	2,233.22	1,800.00

## Master of Titles, Toronto

	COUNTY AND ADDRESS	NAME	TOTAL EARNINGS	DISBURSE- MENTS	SALARY PAID TO OFFICER	AMOUNT RECEIVED BY PROVINCE
	York Toronto	C. R. Deacon	50,499.90	42,448.11	5,943.75	50,499.90

(a) W. A. Elliott appointed Registrar of Deeds, Oct. 1st, 1947.

Miss I. Wilson superannuated March 7, 1947, but remained in office until appointment of Mr. Elliott; Figures shown are for whole year.

(b) W. E. Towns appointed Registrar of Deeds, Feb. 1st, 1947; Figures shown are for whole year.



FINANCIAL STATEMENT

*respecting*

MAGISTRATES

## MAGISTRATES, PROVINCE OF ONTARIO, 1947

No. OF MAGISTRIAL DIST.	COUNTIES AND DISTRICTS IN MAGISTRIAL DISTRICTS	NAMES OF MAGISTRATES IN MAGISTRIAL DISTRICTS	ADDRESS	RATE OF SALARY PAID BY PROVINCE	RATE OF SALARY PAID BY MUNICIPALITY	TRAVEL-ING EXPENSES PAID BY PROVINCE	TOTAL NUMBER OF CASES	TOTAL FINES AND FEES PAID TO PROVINCE
1	Essex Lambton Kent	I. B. Craig A. W. MacMillan J. A. Hamrahan C. S. Woodrow Chas. Weir ( <i>Deputy</i> ) (a)	Chatham Windsor do Sarnia do	6,000.00 2,500.00 6,000.00	7,000.00 3,500.00	389.10 423.65 115.23	3,746 9,770 1,458 2,201	8,010.75 125.00 7,516.89 7,212.20
2	Elgin Oxford Perth Huron Middlesex	R. G. Groom A. F. Cook D. B. Menzies E. J. R. Wright (b) E. D. Smith J. W. Morley	Woodstock Stratford London do St. Thomas Exeter	3,000.00 5,000.00 6,000.00 3,000.00 5,000.00		360.53 169.92 17.25 33.12 38.72 731.67	1,796 1,544 12,128 417 2,987 560	6,011.69 2,947.02 3,782.16 1,166.41 2,821.09 1,023.39
3	Bruce Grey Dufferin Wellington	E. C. Spereman Otto McClevis F. Watt C. L. Austen ( <i>Deputy</i> )	Owen Sound Walkerton Guelph do	6,000.00 5,000.00 6,000.00		289.24 515.87 117.75	2,304 742 3,000	4,551.25 2,579.66 6,437.91
4	Brant Waterloo Norfolk	R. J. Gillen H. R. Polson H. P. Innes	Brantford Kitchener Simcoe	6,000.00 6,000.00 3,000.00		447.47 458.30 35.48	3,575 7,245 1,806	5,684.83 8,753.38 3,652.58
5	Wentworth Halldmand Lincoln	S. E. Buck ( <i>Deputy</i> ) H. A. Burbidge Jas. McKay ( <i>Deputy</i> ) (c) H. Burville ( <i>Deputy</i> ) B. W. Hopkins H. D. Hallett ( <i>Deputy</i> ) J. B. Hopkins H. P. Innes	Hagersville Hamilton do do St. Catharines Niagara Falls Cayuga	20.00 per diem 7,000.00 7,000.00	7,000.00 7,000.00		46,861	430.80
6	York Halton Toronto	O. M. Martin K. M. Langdon A. H. Lightbourne ( <i>Dp.</i> ) (d) T. H. Moorehead	Toronto 57 Adelaide Georgetown Oakville Brampton	7,000.00 3,000.00 20.00 per diem 3,000.00		552.46 303.88	20,184 1,182 2,856	57,584.13 3,914.40 11,640.03





## MAGISTRATES, PROVINCE OF ONTARIO, (Conc'd)

No. OF MAGISTERIAL DIST.	COUNTIES AND DISTRICTS IN MAGISTERIAL DISTRICTS	NAMES OF MAGISTRATES IN DISTRICTS	ADDRESS	SALARY PAID BY PROVINCE	RATE OF SALARY PAID BY MUNICIPALITY	TRAVELING EXPENSES PAID BY PROVINCE	TOTAL NUMBER OF CASES	TOTAL FINES AND FEES PAID TO PROVINCE
11	Leeds and Grenville Dundas	G. A. Wright G. D. Loucks ( <i>Deputy</i> )	Brockville Almonte	5,000.00 20.00	per diem	409.68	2,540	10,572.87
12	Glenarry Prescott and Russell Stormont	P. C. Bergeron R. Labrosse J. S. Latchford ( <i>Deputy</i> )	Cornwall Vankleek Hill Cornwall	6,000.00 5,000.00 20.00	per diem	60.75 1,066.90	1,657 1,013	6,477.83 6,236.39
13	Cochrane Temiskaming	S. Atkinson E. R. Tucker S. C. Platus ( <i>Deputy</i> )	Haileybury Cochrane Timmins	7,000.00 6,000.00		2,082.79 1,487.31	5,838 2,175	2,354.05 10,272.85
14	Nipissing Parry Sound (East Portion)	M. G. Gould	North Bay	3,000.00		728.09	2,324	8,872.87
15	Sudbury Manitoulin Parry Sound (West Portion)	E. C. Facer ( <i>Deputy</i> ) W. M. Cooper W. F. Woodliffe W. J. Golden F. C. Powell	Sudbury Sudbury Sudbury Little Current Parry Sound	5,000.00 7,000.00 1,800.00 2,400.00		613.13 385.04 652.63 273.31	1,681 6,956 354 683	10,717.60 9,065.42 1,806.50 2,484.87
16	Algoma	W. J. Golden Jas. McEwen G. J. McArthur ( <i>Deputy</i> ) H. D. Peterson ( <i>Deputy</i> ) (a)	Espanola Sault Ste. Marie Blind River Bruce Mines	3,000.00 2,500.00		335.32 22.90 508.34	281 2,510 517	6,606.75 10,221.47 3,006.50
17	Thunder Bay Kenora Patricia	C. D. LeMay W. H. Russell ( <i>Deputy</i> ) T. H. Wolfe	Fort William Port Arthur Kenora	6,000.00 5,000.00 6,000.00		547.44 610.76 1,810.28	3,971 4,489 2,706	17,696.18 22,098.29 13,283.08
18	Rainy River	H. L. Cruso	Fort Frances	5,000.00		441.96	1,029	4,528.02

(a) H. D. Peterson appointed May 16th, 1947.

STATEMENT  
*respecting*  
JUVENILE COURTS

### JUVENILE COURTS AND OFFICERS, PROVINCE OF ONTARIO

The Juvenile Delinquents Act (1908 Canada) has been proclaimed and Juvenile Courts established in the following areas:

COUNTY OR DISTRICT	ADDRESS	JUVENILE COURT JUDGE	PROBATION OFFICERS	CHILDREN'S AID OFFICERS
Brant .....	Brantford ..	Judge D. J. Cowan ..	J. P. Temple ....	W. A. Goff
Carleton .....	Ottawa .....	A. J. Fraser .....	A. J. Fraser ....	C. Halliday
(including Ottawa)		J. P. Balharrie (Deputy)	M. Racette (Asst.) E. D. Walsh	
Cochrane .....	Cochrane .....	E. R. Tucker .....		D. C. VanCamp
Dufferin .....	Orangeville ..	Judge W. T. Robb ..		Mrs. I. B. Mac-
Essex (including Windsor)	Windsor ...	D. M. Brodie J. A. Hanrahan (Deputy)		Donald J. H. Dawson (Prot.) Roy J. Bondy (R.C.)
Grey .....	Owen Sound	E. C. Spereman .....		J. D. Adamson ..
Halton .....	Georgetown ..	K. M. Langdon .....	G. F. Thompson ..	G. F. Thompson
Haldimand .....	Dunnville ..	Judge Helen Kinnear		Mrs. E. O'Brien
Huron .....	Stratford ..	A. F. Cook (Acting).	H. T. Edwards ..	Mrs. M. P. Chaffee
Kenora .....	Kenora .....	T. H. Wolfe .....	Wm. Doherty ....	Mrs. L. Ronan
			A. Sheridan .....	
			J. G. Jenkins .....	
			H. S. Johns .....	
			E. Olsen .....	
Kent .....	Chatham .....	I. B. Craig .....		F. Apleyard
Lambton .....	Sarnia .....	C. S. Woodrow .....	Frank Rogers ...	W. F. Rogers
Lincoln .....	St. Catharines	Judge J. G. S. Stan-		L. S. Richardson
		bury		
Middlesex .....	London .....	D. B. Menzies .....	A. G. N. Brad-	F. Cristall
			shaw .....	
Nipissing .....	North Bay ..	J. H. McCurry .....		Ernest Majury
Norfolk .....	Simcoe .....	Judge G. A. P. Brick-		F. V. Miller
		enden		
Northumberland and Durham	Cobourg ...	R. B. Baxter (Deputy)		A. B. Finnie
Oshawa (City)	Oshawa ...	F. S. Ebbs .....		Miss M. M. Han-
				cock
Oxford .....	Woodstock ..	L. M. Ball .....	R. G. Clowes .....	R. G. Clowes
Perth .....	Stratford ..	A. F. Cook (Acting)	Murdock Keith ..	Miss M. V. Flem-
				ing
Peterborough	Peterborough	W. R. Philp .....	J. R. Twigg .....	Miss R. A. D. Young
Port Colborne (Town)	Niagara Falls	J. B. Hopkins .....		
Prescott and Russell	Vankleek Hill	R. Labrosse .....		Jos. Lacasse
Prince Edward	Picton .....	Judge W. S. Lane..		Miss Violet Ang'in
Stormont, Dundas and Glengarry	Cornwall ..	P. C. Bergeron .....		Mrs. R. Splane
Sudbury	Sudbury .....	E. C. Facer .....	E. B. Paquette ...	Mrs. G. A. Wigg
Temiskaming	Haliburton	S. Atkinson .....	J. R. McCarthy ..	Mrs. N. M. Fox
Thunder Bay	Fort William	B. J. McKittrick .....		H. W. Lang
Toronto (City)	Toronto .....	H. S. Mott .....	H. S. Mott and Staff .....	
		R. R. Hossack .....		
		J. A. Netterfield (Deputy Judge pro tem, Juvenile and Family Court)		
Waterloo	Galt .....	H. R. Polson, pro tem	K. D. Kayler ....	K. D. Kayler
Welland	Welland .....	Judge H. E. Fuller..	E. J. Barrett ....	Mrs. D. E. Young
Wellington	Guelph .....	C. L. Austen .....	D. Coughlin .....	Miss B. Dauphinee
Wentworth	Hamilton ..	H. A. Burbidge .....	J. H. Trusdale ..	Miss M. H. Milligan
		J. McKay .....	Mrs. E. L. Fair-	C. H. Vinnels
			field .....	
York	Toronto .....	D. Webster .....	J. A. Knowles ...	J. S. Driscoll (Asst.)

STATEMENT

*respecting*

DIVISION COURT CLERKS AND BAILIFFS

## DIVISION COURTS, ONTARIO

List of Clerks and Bailiffs, Their Post Office Address, Their County or District, Number of Court, Number of Cases and Gross Earnings

COUNTY OR DISTRICT	No. OF COURTS	ADDRESS POST OFFICE	No. OF CASES ENTERED	CLERK	GROSS EARNINGS	BAILIFF	GROSS EARNINGS	
Algonia	1	Sault Ste. Marie	737	H. Humphreys	2,889.65	George L. Allan	1,752.17	
	2	Bruce Mines	6	Wm. White	44.94	Wm. White ( <i>Act'g</i> )	25.10	
	3	Thessalon	9	Thos. E. Hill	62.00	John B. Hill	39.60	
	6	Richard's Landing	No rep't)		No Rep't)		(No rep't)	
	7	Blind River	26	J. Carlyle	102.05	J. H. Hicks	66.20	
	1	Brantford	1,076	F. J. Calbeck	4,105.75	F. J. Calbeck	1,864.73	
	3	St. George	87	J. B. Appleby	348.50	R. E. Haire	200.10	
4	Burford	34	G. F. Glaves	107.70	Alvin McIntyre	70.55		
5	Oakland	11	A. H. Beven	66.94	A. H. Beven	84.78		
		Scotland	10		41.41	L. Wilson	57.58	
Bruce	1	Walkerton	51	A. J. Brown	278.65	W. R. Binkley	158.30	
	2	Teeswater	12	John Good	60.40	G. R. Symons	51.75	
	3	Kincardine	27	E. A. Henry	123.50	W. R. Peter	102.81	
	4	Paisley	7	E. D. Elwes	37.28	E. D. Elwes ( <i>Act'g tp.</i> )	24.35	
	5	Port Elgin	30	J. J. Chapman	145.95	A. W. Travis	57.90	
	7	Tara	8	J. R. Van Dusen	20.05	T. W. Strong	49.95	
	8	Warton	54	G. W. Taylor	294.80	S. R. Rouse	164.10	
		Tobermory				D. A. S. Munn	38.00	
	11	Lucknow	17	E. H. Agnew	72.30	R. J. Moore	53.05	
	12	Chesley	17	H. Willoughby	94.85	John E. Beattie	68.80	
	Carleton	1	Ottawa, 74 Sparks St.	3,191	Thos. W. O'Neil	14,123.14	D. W. Wilson	9,184.96
		3	Carp	11	J. W. Humphries	67.00	J. W. Humphries ( <i>Act'g</i> )	63.10
4		Galetta	7	J. W. Dickson	21.00	C. Bidgood ( <i>Act'g temp.</i> )	26.45	
5		North Gower	19	M. R. Bariger	161.15	Thos. A. Harbison	200.85	
7		Ottawa, 48 Sparks St	1,308	E. A. Mason	5,977.75	J. M. Hoey	4,162.54	
1		Cochrane	70	J. L. deBlois	339.80	J. L. deBlois	359.85	
2		Timmins	1,594	E. H. Hill	5,832.40	M. C. Sullivan	3,785.33	
3	Matheson	27	John H. Cole	144.40	F. C. James	126.75		
4	Kapuskasing	123	G. Desloges	526.40	G. Desloges	364.10		

Dufferin	5	Hearst .....	33	L. D. Tanguay .....	39.40	L. D. Tanguay	45.85
	6	Ansonville .....	56	W. J. Kenney .....	224.55	W. J. Kenney ( <i>Act'g tp.</i> )	133.04
	1	Orangeville .....	52	W. C. Hopkins .....	249.50	Joseph Tindale	177.23
	2	Shelburne .....	11	F. B. Paget .....	31.36	C. A. Hodgson	14.75
	5	Grand Valley .....	8	Miss N. M. Foster ( <i>Act'g</i> )	32.00		18.10
Elgin	1	Aylmer .....	254	E. C. Monteith .....	1,425.30	C. R. Clark	929.53
	3	St. Thomas .....	600	F. R. Palmer .....	2,569.40	A. C. Schliehauf	1,162.15
	4	Dutton (W. Lorne) .....	50	N. J. Murray .....	229.72	N. J. Murray	144.31
	2	Amherstburg .....	109	R. W. Kenyon .....	419.20	T. M. Renaud	250.85
	3	Kingsville .....	33	J. E. Burrows .....	112.84	I. H. Lucas	159.85
	5	Leamington .....	47	Wm. E. Selkirk .....	279.45	C. G. Baker	252.35
	6	Belle River .....	37	Mrs. A. Wilkinson .....	131.55		86.60
	7	Windsor .....	1,149	D. C. Warnica .....	7,797.26	C. E. Bayley	4,802.37
	8	Essex .....	60	H. R. Johnston .....	264.00	H. R. Johnston ( <i>Act'g</i> )	242.40
9	Comber .....	14	F. E. Buchanan .....	92.75	F. E. Buchanan ( <i>Act'g</i> )	54.45	
Frontenac	1	Kingston .....	541	Miss G. L. Jenkin .....	1,863.79	I. C. Ainey	1,353.04
	4	Vernon & Kingston .....	40	H. W. Asseltine .....	124.00	b. Goodberry	98.00
	6	Sharbot Lake .....	No rept)	Arthur Reynolds .....	No Rept)	J. J. Harris	(No rept)
	1	Owen Sound .....	492	Geo. A. Wakeford .....	2,159.55	Leonard Hall	1,103.42
	2	Durham .....	40	P. Ramage .....	175.65	P. Ramage ( <i>Act'g tp.</i> )	131.07
	3	Meaford .....	73	Mrs. W. H. Chapple <i>Act'g</i>	340.45	G. E. Moore	221.43
Grey	4	Clarksburg .....	15	W. I. Field .....	79.85	M. J. Dillon	60.10
	5	Flesherton .....	17	J. A. Richards .....	109.05	M. S. McLeod	148.22
	6	Chatsworth .....	34	Allan Findlay .....	121.40	Allan Findlay ( <i>Act'g tp.</i> )	110.40
	7	Hanover .....	62	D. D. Brigham .....	233.23	R. P. Jones	229.80
	8	Markdale .....	12	W. J. Sherring .....	64.58	G. S. Dundas	68.15
	1	Caledonia .....	7	Miss H. J. McGregor .....	62.50	R. O. Ashbaugh	84.65
	2	Cayuga .....	30	Geo. L. Marshall .....	92.40	J. H. Young	147.13
	3	Dunnville .....	67	L. E. Weir .....	264.30	G. A. Nott	265.50
Haldimand	4	Hagersville .....	(No rept)	Gordon W. Slack .....	(No Rept)	Gordon W. Slack	(No rept)
	1	Minden .....	8	A. A. Rogers .....	40.05	J. H. Graham	41.15
	2	Haliburton .....	10	A. G. Schofield .....	41.66	A. G. Schofield	27.50
	4	Tory Hill .....	7	A. E. Boyce .....	36.50	A. E. Boyce ( <i>Act'g temp.</i> )	45.15
Halton	1	Milton .....	97	Charles Laundon .....	276.05	Charles Laundon	162.94
	2	Oakville .....	107	J. H. Chambres .....	396.90	A. Handy	397.00
	3	Georgetown .....	108	E. C. Thompson .....	321.65	T. F. Grievé	152.95

## DIVISION COURTS, ONTARIO

COUNTY OR DISTRICT	No. OF COURTS	ADDRESS POST OFFICE	No. OF CASES ENTERED	CLERK	GROSS EARNINGS	BAILIFF	GROSS EARNINGS
Hastings	4	Acton	148	James B. Adamson	350.10	James B. Adamson	186.50
	6	Burlington	169	C. D. Bull	719.42	C. D. Bull ( <i>Act'g temp.</i> )	343.35
	1	Belleville	1,079	G. M. Davison	4,125.48	Wm. Tice	2,202.81
	2	(Coe Hill)	22	J. F. Whitmore	129.55		
	4	(St. Oia)					
	5	Tweed	32	W. N. Hurst	167.05	C. E. Thompson ( <i>Act'g tp.</i> )	117.26
	6	Stirling	20	J. E. O'Donnell	145.03	R. B. Bell	148.75
	5	Madoc	122	E. T. Nayler	545.80	John N. Devolin	97.55
	7	Deseronto	6	Mrs. M. M. Babcooke	8.25	Mrs. M. M. Babcooke	390.97
	8	Frankford	48	W. N. Simmons	183.25	F. A. Ferguson	26.50
	9	Trenton	342	O. W. Pierce	1,387.15	O. W. Pierce	196.83
	10	Marmora	16	G. R. Hartley	123.10		868.76
	11	Maynooth	9	M. Flynn	63.75	Wm. Carswell	125.55
12	Bancroft	131	Balfour Vader	531.92	R. C. Robinson	97.95	
							498.25
Huron	1	Goderich	264	J. N. Kernighan	667.45	Arthur C. Ross	450.45
	2	Seaforth	52	E. C. Chamberlain	240.80	J. M. Govenlock	177.46
	3	Clinton	6	H. T. Rance	31.05		22.00
	4	Brussels	24	G. R. Campbell	109.95	Geo. Evans ( <i>Act'g tp.</i> )	92.95
	5	Exeter	24	Geo. W. Lawson	112.93	F. E. Willis	86.28
	8	Wingham	33	F. A. Templeman ( <i>Act'g</i> )	147.75	Milford Foxton	94.20
	9	Wroxeter	16	Thomas Brown	73.68	A. E. Gallaher	100.50
	10	Zarich	14	A. J. Kalbfleisch	79.15	W. Fritz	66.10
	11	Crediton	1	F. W. Morlock	34.00	Eli Lawson	41.40
	12	Blyth	14	Bernard Hall	90.30		70.00
	1	(Kenora)	93	L. D. MacCallum ( <i>Act'g</i> )	411.00	Harry S. Murphy ( <i>Act'g</i> )	129.35
	3	(Red Lake)	30	J. E. Gibson	119.95	Geo. W. Aiken	188.55
	4	Dryden	62	J. E. Cole	163.80	Dan Wright ( <i>Act'g</i> )	75.00
						M. H. Badger	104.15
Kent	1	Chatham	920	P. K. Morley	3,454.62	R. Thayer	2,380.87
	2	Ridgetown	53	H. P. Stennett	364.70	R. Priestley	238.10
	3	Dresden	36	H. E. Wells	214.20	Roy Snale	197.96
	4	Blenheim	62	W. Nudds	357.70	C. H. Cleveland	264.40
	5	Wallaceburg	201	G. F. Glassford	826.24	J. R. Myers	475.35





## DIVISION COURTS, ONTARIO (Cont'd)

COUNTY OR DISTRICT	No. OF COURTS	POST OFFICE ADDRESS	No. OF CASES ENTERED	CLERK	GROSS EARNINGS	BAILEIFF	GROSS EARNINGS
Middlesex	1	London (Richmond Bldg.)	1,230	W. P. Simpson	5,011.33	A. E. Sherlock	2,461.05
	2	Parkhill	42	Alex. G. Cameron	169.95	Alex. G. Cameron	117.35
	3	Lucan	18	J. R. Murray	103.95	J. R. Murray ( <i>Act'g</i> )	66.55
	4	Delaware	38	G. W. Ashby	197.15	G. W. Ashby	229.00
	5	Glencoe	28	S. G. Humphries	143.55	S. G. Humphries	106.00
	6	Strathroy	148	E. Dennis	448.19	Ed. Upton	173.70
	7	Dorchester	15	M. A. McIntyre	75.90	H. A. McIntyre ( <i>Act'g</i> )	82.10
Muskoka	1	Bracebridge	53	W. H. Smart	220.37	H. J. Read	242.10
	2	Gravenhurst	35	J. B. Lindsell	125.30	Elmer Sheehy	89.90
	3	Huntsville	52	A. W. Plowright	316.57	A. W. Plowright	294.10
Nipissing	1	Sturgeon Falls	84	Ls. Rod. Vannier	411.28	M. A. Cull	259.75
	2	Mattawa	15	C. A. Fink	70.65	C. A. Fink ( <i>Act'g</i> )	40.85
	3	North Bay	241	J. J. Dennis	928.38	J. J. Dennis ( <i>Act'g tp.</i> )	843.88
Norfolk	1	Simcoe	183	H. W. Jones	841.49	R. C. McMichael	700.56
	2	Waterford	15	J. E. Wright	76.26	R. C. McMichael	155.95
	4	Delhi	64	A. Aldrich	395.81	A. Aldrich ( <i>Act'g temp.</i> )	220.32
	6	Port Rowan	46	A. A. Foy	542.60	A. A. Foy	259.70
	7	Fairground	10	C. S. Burger	77.05	C. S. Burger	65.98
	8	Port Dover	24	W. E. Wicker	154.27	W. E. Wicker	101.00
Northumberland and Durham	1	Bowmanville	88	C. W. B. Tait	426.69	E. Lunn ( <i>Act'g temp.</i> )	372.82
	2	Newcastle	18	Miss I. M. Rinch	136.43	P. Williams	112.00
	3	Port Hope	63	Mrs. M. Ewart ( <i>Act'g tp.</i> )	320.25	C. Brooks ( <i>Act'g temp.</i> )	246.55
	5	Cobourg	163	Mrs. M. Ewart	706.95	D. Ewart	439.95
	8	Brighton	62	D. G. Smith	314.15	W. C. Adams	186.65
	9	Warkworth	22	W. Grant Allen	113.27	W. Grant Allen	97.07
	10	Wooler	5	E. Nelson	17.05	W. J. Stacey	25.05
	11	Campbellford	91	J. M. Bygott	332.55		133.40
Ontario	1	Whitby	183	Wm. K. Cooke ( <i>Act'g</i> )	1,178.84	Wm. K. Cooke	888.47
	2	Claremont (Balsam)	25	Thos. Gregg	129.50	Burnett Jamieson	118.60

3	(	Port Perry	41	Geo. R. Davey	190.02	G. R. Till	148.85
4	(	Greenbank	25	Geo. A. Linton	148.70	Geo. A. Linton	34.45
5	(	Uxbridge	1	S. F. Brandon	3.41	S. F. Brandon (Act'g)	5.20
6	(	Cannington	14	F. R. McMillan	51.06	F. R. McMillan (Act'g tp.)	34.75
8	(	Beaverton	1,154	R. B. Smith	3,950.25	P. H. Jobb	2,668.27
1	(	Oshawa	688	W. Chas Orum	2,706.60	F. L. Clarkson	1,375.99
2	(	Woodstock	22	L. E. Peterson	98.00	John McVittie	89.22
3	(	Drumbo	19	John A. McKay	110.00	Edwin Collins	86.80
4	(	Embro	47	Frederick Snell	302.98	Frederick Snell	247.02
5	(	Norwich	209	R. S. Clark	822.59	W. F. Markham	489.95
6	(	Ingersoll	108	H. Berry	641.72	H. Berry (Act'g temp.)	245.05
7	(	Tillsonburg	25	C. J. Kaufman	115.25	J. Schipping	64.65
1	(	Tavistock	267	Wm. J. Rightmyer	1,096.98	Thomas M. Horne	731.09
4	(	Parry Sound	46	Joseph Hilliar	223.25	R. Gibson	20.03
6	(	Dunchurch	8	L. G. Phillips	40.36	W. J. Maynard	260.60
7	(	Burks Falls	7		37.75	L. G. Phillips (Act'g tp.)	43.30
1	(	Powassan	96	T. W. Thomson	517.10	J. C. Carter	44.78
2	(	South River	61	D. E. Rowbotham	434.53	C. A. Firman	399.02
3	(	Brampton	5	Douglas Pattullo	43.12	Gordon A. Price	517.02
1	(	Cooksville	530	JAMES Stewart	1,674.99	George Giles	70.40
2	(	Caledon	50	J. T. Levy	200.15	D. W. Forbes	961.02
3	(	Stratford	19	H. Griffiths	80.87	Z. McCallum	173.65
5	(	Mitchell	56	J. Edgar Weir	175.53	J. C. Billings	98.15
6	(	St. Marys	79	Mrs. I. L. S. Heibin	351.80	Isaac Kipfer	174.70
1	(	Milverton	470	Grant G. Torrance	2,820.79	W. J. Roberts	143.95
2	(	Listowell	12	J. J. Stewart	86.84	W. J. G. McNabb	1,877.34
2	(	Peterborough	14	R. W. Morrison	58.30	John Marks	89.65
4	(	Norwood	25	F. Lapensee	98.05	Raoul Martin	67.00
4	(	Vankleek Hill	10	John McMillan	33.27	U. Chartrand	49.30
5	(	Plantagenet	42	H. G. Roy	150.72	H. D. MacMillan	51.45
6	(	Cumberland	144	Mrs. M. A. B. Roy	560.40	J. H. Bordeau	106.65
7	(	Embrun	9	Edgar Keough	52.46	H. H. Gelineau	339.05
8	(	Hawkesbury	25	J. D. Preseault	98.40	Ira Gates	62.41
9	(	Fournier	36	Lucien Regnier	184.35	L. Lamarche	58.00
9	(	St. Bernardin, R.R. 2	4	J. L. Quesnel	40.40	A. Therrien	165.70
10	(	Lefavre				A. L. MacDonald	26.45
10	(	Alfred					
11	(	Rockland					
11	(	Casselman					
11	(	Limoges					

## DIVISION COURTS, ONTARIO (Cont'd)

COUNTY OR DISTRICT	No. OF COURTS	POST OFFICE ADDRESS	No. OF CASES ENTERED	CLERK	GROSS EARNINGS	BAILIFF	GROSS EARNINGS
Prince Edward	1	Picton	87	H. R. Way	464.79	H. J. Ringer	329.85
	5	Wellington	59	A. E. Marvin	239.10	A. E. Marvin	234.25
Rainy River	1	Fort Frances	82	Mrs. C. E. Hollands	229.70	Mrs. C. E. Hollands (Ac.)	208.00
	3	Rainy River	18	Murray Johnson	84.10	Robt. Moir (Act'g temp)	8.45
Renfrew	1	Pembroke	183	John E. Fraser	842.15	A. E. Storie	461.65
	3	Renfrew	260	A. J. Devine	1,017.50	J. J. McNulty	768.38
	4	Arnprior	80	J. W. C. Tierney	404.60	A. S. McLaren	127.60
	5	Eganville	15		105.27		31.60
	6	Cobden	15	H. G. McGinn	90.40	W. J. McRay	83.34
	7	Killaloe	54	P. J. Harrington	327.94	W. O'Kum	289.38
Simcoe	1	Barrie	90	Wm. M. Dinwoody	409.99	Wm. M. Dinwoody	265.85
	2	Bradford	14	C. W. Jackson (Act'g tp.)	44.98	C. W. Jackson (Ac. tp.)	40.35
	3	Beeton	19	Wm. S. Robinson	103.39	D. W. Watson	111.60
	4	Collingwood	65	W. F. Toner	301.52	Hugh McLean	187.70
	5	Craighurst	6	T. C. Craig	43.15	T. C. Craig (Act'g)	46.85
	6	Orillia	346	A. E. Smith	1,597.75	W. D. Crow	830.74
	7	New Lowell	4	Mrs. R. Carter (Act'g)	63.77	J. H. Prosser	97.37
	8	Alliston	40	D. J. Gallagher	161.26	T. G. Armstrong	128.00
	10	Coldwater	68	C. M. Robinson	221.70	W. E. Jackman	71.77
	11	Midland	163	James A. Clarkson	717.70	James A. Clarkson	456.19
	Stormont, Dundas and Glengarry	2	Alexandria	82	P. J. Morris	361.15	P. J. Morris (Act'g)
		Lancaster				Francois Major	174.50
3		Cornwall	712	J. F. Denny	2,816.46	A. D. Snetsinger	1,581.98
4		Wales	7	A. A. Morrison	57.45	R. L. Duval	(Nil)
5		Morrisburg	23	M. A. Campbell	163.50		179.55
6		Iroquois	72	W. E. Fitzsimons	243.60	F. J. Hadley	172.90
7		Hallville	3	Edward Bush	54.43		45.85
8		Finch-Berwick	27	A. M. McDougall	91.04	Wm. Legault (Act'g tp.)	119.80
10		Chesterville	38	A. E. Turner	309.43	D. A. McDonald	296.53
11		Moose Creek	4	M. MacLeod	21.96	Wm. Legault	45.00
12		Maxville	18	Mrs. J. A. Munroe	92.41	C. H. MacKenzie	71.45

Sudbury	1	( Sudbury	1,516	D. Cameron	5,354.02	J. C. Gravelle	3,620.76
	(	Folycet	(No rept)	Miss M. T. Arthurs	No Rept	F. M. Lincker	(Nil)
	3	Espanola	12	R. H. Wilson	95.60	R. H. Wilson (Act'g)	(No rept)
	4	Warren		Mrs. M. E. Morris	463.95	D. Geroux	60.95
	5	Noelville	170	H. R. Jenkins	272.70	P. E. Scott	38.15
		Chapleau		J. H. Brown	429.40		211.85
Temiskaming	1	Haileybury	70	A. J. Cait	91.50	H. E. Blackwall	171.15
	2	New Liskeard	120	W. J. Cook	2,161.90	Thos. R. Mills (Act'g)	191.60
	3	Englehart	17	Mrs. A. M. Mageau	887.40	W. C. McPherson	44.70
	4	Kirkland Lake	499	Miss P. C. Mitchell	1,285.82	E. C. Carmichael	1,215.03
	5	Larder Lake	145	W. L. Wade	105.30	R. L. Paul	732.58
Thunder Bay	1	Port Arthur (Court House)	297	J. C. Bailey	3,110.65	John A. Richmond	567.94
	2	Nipigon	24	E. C. Skinner	282.12	W. L. Wade (Act'g tp.)	111.68
	3	Fort William	868	Leonard Dreany	385.30	John Scott	2,098.51
	4	Schreiber	53	J. J. Stewart	100.10	C. C. Skinner	245.56
	5	Geraldton	98	Wesley Mason	889.68	W. J. Molyneaux	(No rept)
Victoria	2	Fenelon Falls	24	Carl E. Pequegnat	5,942.60	J. J. Stewart (Act'g tp.)	110.80
	5	Lindsay	204	H. G. Marshall	978.10	J. N. Kennedy	527.45
Waterloo	1	Kitchener	1,551	Mrs. H. G. Clarke	1,045.40	John R. Smithson	3,602.89
	2	Preston	222	L. W. Ritz	175.80	H. G. Marshall (Ac. tp.)	538.75
	3	Galt	278	John Heinbuch	29.70	Mrs. H. G. Clark (Ac tp.)	595.75
	4	New Hamburg	50	O. A. Huehn	62.35	E. F. Scherer	117.80
	5	Linwood	8	H. J. Reilly	3,046.55	Elmer Schott	18.00
	6	Conestogo	9	Geo. E. Brent	952.86	H. Holle	66.58
Welland	1	Welland	531	E. M. McMurray	4,152.77	L. E. Taylor	1,515.00
	3	Fort Erie, North	218	D. J. C. Mumro	307.08	N. J. Clayton	782.84
	4	Niagara Falls	1,160	K. A. McAvoy	1,331.11	A. H. Collett	2,344.45
	5	Thorold	90	R. D. Stewart	3,284.30	M. Petrick	218.50
	6	Port Colborne	328	W. A. Nicoll	71.05	Fred Davies (Act'g tp.)	799.93
Wellington	1	Guelph	846	J. F. Beattie	316.20	C. L. Kearns	1,315.58
	2	Puslinch	9	Ewart Speirs	71.10	W. A. Nicoll	73.20
	4	Fergus	67	B. R. Amy	83.67	G. V. Robson	178.45
	5	Erin	15	G. F. Smith	63.65	Ewart Speirs	51.05
	7	Drayton	22	C. L. Eedy	188.15	M. S. Kelly	65.75
	8	Arthur	11	B. R. Morrison	140.51	W. R. B. Tindale	49.85
	10	Harriston	30			M. Neil	139.50
	11	Mount Forest	34			Stephen Flynn (Act'g tp.)	92.50

## DIVISION COURTS, ONTARIO (Cont'd)

COUNTY OR DISTRICT	No. OF COURTS	ADDRESS POST OFFICE	No. of CASES ENTERED	CLERK	GROSS EARNINGS	BAILIFF	GROSS EARNINGS
Wentworth	1	Hamilton 49 Main St. E.)	1,455	Miss K. M. White	6,327.80	A. B. Doughty	3,537.51
	2	Dundas	88	J. A. Dickson	233.35	Perry Rolfe	233.10
	3	Waterdown	108	M. Williamson	438.85	A. J. Lovejoy	65.75
	4	Lynden	27	A. R. Mannen	218.50	Perry Rolfe	204.65
	9	Hamilton (Court House)	1,561	R. C. Gardner	5,963.40	E. J. Kelly	3,072.30
York	1	Toronto (City Hall)	4,144	Miss F. M. Flanagan	22,134.57	C. H. Evans, 600 Bay St. F. F. Fowke, 430 Bay St.	6,358.21 6,145.40
	2	Markham	18	A. P. Graham	122.20	E. Wurm	128.65
	3	Richmond Hill	70	J. R. Herrington	319.50	L. E. Clement	397.75
	4	Newmarket	93	F. S. Thompson	305.85	G. W. Curtis	258.20
	5	Sutton	32	M. O. Tremayne	155.20	Wm. Burke	98.95
	6	Aurora	59	Mrs. M. R. Hodgkinson	291.45	H. E. Teasdale	222.00
	7	Woodbridge	29	W. M. Myers	122.55	W. M. Myers	76.20
	8	W. Toronto (2881 Dundas St. W.)	2,383	J. C. McFarlane	12,769.85	W. T. Bailey	9,303.54
	9	E. Toronto (299 Main St.)	1,788		8,978.73	A. O. Shingler	5,371.42
	11	New Toronto (238 Lake Shore Road, Mimico)	147	George D. Thomas	889.53	George D. Thomas	630.53

## APPOINTMENTS

## APPOINTMENTS

SHERIFFS, LOCAL REGISTRARS, DEPUTY REGISTRARS, COUNTY  
AND DISTRICT COURT CLERKS, SURROGATE REGISTRARS

- Charles Sale, Barrister-at-Law of Windsor, to be Local Registrar of the Supreme Court, Clerk of the County Court and Registrar of the Surrogate Court in and for the County of Essex.—*Gazette, 22nd February, 1947.*
- James Norris Marquis, Barrister-at-Law, of St. Catharines, to be Local Registrar of the Supreme Court, Clerk of the County Court and Registrar of the Surrogate Court in and for the County of Lincoln.—*Gazette, 8th March, 1947.*
- William H. C. Villiers, of the City of St. Catharines, to be Sheriff in and for the County of Lincoln.—*Gazette, 12th April, 1947.*
- Roberta Elizabeth Whitney to be Deputy Local Registrar of the Supreme Court, Deputy Clerk of the County Court and Deputy Registrar of the Surrogate Court in and for the County of Frontenac.—*Gazette 28th June, 1947.*
- Margaret Louise Whalen, to be Deputy Local Registrar of the Supreme Court, Deputy Clerk of the County Court and Deputy Registrar of the Surrogate Court in and for the County of Essex.—*Gazette, 26th July, 1947.*
- F. T. Egener, Barrister-at-Law, of Owen Sound, to be Sheriff, Local Registrar of Supreme Court, Clerk of the County Court and Registrar of the Surrogate Court for the County of Grey. Order-in-Council effective February 1st, 1947.
- T. W. Solmes, Belleville, appointed Sheriff, Local Registrar, S.C.O., County Court Clerk and Surrogate Registrar, County of Hastings. Order-in-Council effective October 1st, 1947.

## CROWN ATTORNEYS AND CLERKS OF THE PEACE

- Tobias Frederick Forestell, one of His Majesty's Counsel learned in the law, of Fort Erie, to be Crown Attorney and Clerk of the Peace in and for the County of Welland.—*Gazette, 4th January, 1947.*
- Lorne Withrow Jordan, Barrister-at-Law, of Lindsay, to be Crown Attorney and Clerk of the Peace in and for the County of Victoria and the Provisional County of Haliburton.—*Gazette 4th January, 1947.*
- Arthur Allison Wishart, K.C., of Sault Ste. Marie, to be Crown Attorney and Clerk of the Peace in and for the District of Algoma.—*Gazette, 25th January, 1947.*
- Ernest Lockburn Claridge, Barrister-at-Law, of Gore Bay, to be Crown Attorney and Clerk of the Peace in and for the District of Manitoulin.—*Gazette, 8th March, 1947.*



## LOCAL MASTERS, S.C.O., COUNTY AND SURROGATE JUDGES

- His Honour Judge Albert J. Gordon, Judge of the County Court for the County of Essex, to be Judge of the Surrogate Court in and for the County of Essex.—*Gazette, 4th January, 1947.*
- His Honour Judge J. C. Anderson, Judge of the County Court for the County of Hastings, to be Judge of the Surrogate Court in and for the County of Hastings.—*Gazette, 4th January, 1947.*
- Judge J. P. Madden, to be Local Master of the Supreme Court in and for the County of Lanark, for the month of July, 1947.—*Gazette, 2nd August, 1947.* . . . . .
- His Honour, Judge R. Stewart Clark, Judge of the County Court of the County of Wellington, to be Judge of the Surrogate Court in and for the County of Wellington.—*Gazette 29th November, 1947.*
- His Honour, Judge Duncan F. McCuaig, Judge of the County Court for the County of Elgin, to be Judge of the Surrogate Court and Local Master of the Supreme Court in and for the said County of Elgin.—*Gazette, 29th November, 1947.*
- His Honour, Judge Moore Armstrong Miller, Judge of the County Court of the United Counties of Northumberland and Durham, to be Judge of the Surrogate Court and Local Master of the Supreme Court in and for the said United Counties of Northumberland and Durham.—*Gazette, 29 November, 1947.*
- His Honour, Judge Edwin Arnold Shaunessy, Judge of the County Court of the County of Lambton, to be Judge of the Surrogate Court and Local Master of the Supreme Court in and for the said County of Lambton.—*Gazette, 29th November, 1947.*

## MAGISTRATES AND DEPUTY MAGISTRATES

- Charles Leroy Austen to be a Deputy Magistrate (and also a Deputy Police Magistrate within the meaning of the Criminal Code) for every municipality and all Municipalities and all territory without Municipal organization within the Province of Ontario.—*Gazette, 25th January, 1947.* . . . . .
- Harold Douglas Peterson, Barrister-at-Law of Bruce Mines, Ontario, to be appointed a Deputy Magistrate (and also a Deputy Police Magistrate within the meaning of the Criminal Code) for every Municipality and all Municipalities and all territory without Municipal organization within the Province of Ontario.—*Gazette, 31st May, 1947.*
- Osborn Shore Hollinrake, K.C., of the City of Toronto, to be a Magistrate (and also a Police Magistrate within the meaning of the Criminal Code) for every Municipality and all Municipalities and all territory without Municipal organization within the Province of Ontario.—*Gazette, 21st June, 1947.*
- A. H. Lightbourne, to be Deputy Magistrate (and also a Deputy Police Magistrate within the meaning of the Criminal Code) in and for the Province of Ontario.—*Gazette, 2nd August, 1947.*

Ernest Joel Robert Wright, to be Magistrate (and also a Police Magistrate with the meaning of the Criminal Code) for every Municipality and all Municipalities and all territory without Municipal organization within the Province of Ontario.—*Gazette, 23rd August, 1947.*

Beamer William Hopkins, one of His Majesty's Counsel learned in the law, of the City of Hamilton, Ontario, to be a Magistrate (and also a Police Magistrate within the meaning of the Criminal Code) for every Municipality and all Municipalities and all territory without Municipal organization within the Province of Ontario.—*Gazette, 27th December, 1947.*

#### JUVENILE COURT JUDGES AND PROBATION OFFICERS

Judge Helen Kinnear, to be a Judge of the Juvenile Court in and for the County of Haldimand.—*Gazette, 2nd August, 1947.*

His Honour Judge W. S. Lane, Picton, appointed Juvenile Court Judge for the County of Prince Edward by Order-in-Council June 5th, 1947.

#### LOCAL MASTERS OF TITLES AND REGISTRARS OF DEEDS

Harold Lloyd Bechill, of Glencoe, Ontario, to be Registrar of Deeds in and for the Registry Division of West Middlesex.—*Gazette 4th January, 1947.*

John R. Corkey, K.C., of Peterborough, to be Registrar of Deeds in and for the Registry Division of the County of Peterborough.—*Gazette 25th January, 1947.*

Marshall Vaughn of Welland, Ontario, to be Registrar of Deeds in and for the Registry Division of the County of Welland.—*Gazette 22nd February, 1947.*

Dr. John Allen Phillips, of Cornwall, to be Registrar of Deeds in and for the Registry Division of the County of Stormont.—*Gazette 29th March, 1947.*

Agnes Donnelly, to be Deputy pro tempore of the Local Master and Deputy Registrar of Deeds in and for the District of Rainy River.—*Gazette, 26th July, 1947.*

William Edward Towns, of Bracebridge, Ontario, to be Registrar of Deeds in and for the Registry Division of the District of Muskoka.—*Gazette, 18th October, 1947.*

William McKenzie Rogers, of Perth, Ontario, to be a Registrar of Deeds in and for the Registry Division of South Lanark.—*Gazette, 1st November, 1947.*

James Savage of Almonte, Ontario, to be a Registrar of Deeds in and for the Registry Division of North Lanark.—*Gazette, 1st November, 1947.*

William Alexander Elliott, Port Arthur, appointed Registrar of Deeds for Registry Division of Port Arthur by Order-in-Council effective October 1st, 1947.

Clive Murdoch Morris, London, appointed Registrar of Deeds for the Registry Division of East and West Middlesex, by Order-in-Council effective September 1st, 1947.

Miss Norma Ann Bannon, Parry Sound, appointed Deputy Local Master of Titles, pro tem, for the District of Parry Sound, by Order-in-Council effective December 4th, 1947.

Miss Isabel Anne Thomson, Bracebridge, appointed Deputy Local Master of Titles for District of Muskoka, by Order-in-Council effective October 1st, 1947.

#### BOARDS OF POLICE COMMISSIONERS

His Honour, Judge Albert J. Gordon, Judge of the County Court for the County of Essex, to be a Member of the Board of Commissioners of Police for the City of Windsor.—*Gazette, 4th January, 1947.*

Oliver M. Martin, Magistrate of Toronto, to be a member of the Boards of Commissioners of Police for the County of York, Township of York, Township of East York, Township of Etobicoke, Township of Scarboro and Town of Mimico.—*Gazette 8th March, 1947.*

His Honour, Judge W. S. Lane, Judge of the County Court for the County of Prince Edward to be a Member of the Board of Commissioners of Police for the Town of Picton.—*Gazette, 31st May, 1947.*

Gordon T. Walmsley, K.C., Crown Attorney and Clerk of the Peace in and for the said County of Prince Edward to be a Member of the Board of Commissioners of Police for the Town of Picton.—*Gazette, 31st May, 1947.*  
....

His Honour Judge H. D. Lang, and Magistrate A. F. Cook of Stratford, appointed to Board of Police Commissioners for the Town of Listowel by Order-in-Council, June 5th, 1947.

His Honour Judge J. C. Anderson and Magistrate T. Y. Wills of Belleville, appointed to the Board of Police Commissioners for the Town of Trenton by Order-in-Council May 15th, 1947.

#### CORONERS

Dr. Joseph Otto Ruddy, of Whiiby, Ontario, to be a Coroner in and for the County of Ontario.—*Gazette, 4th January, 1947.*

Dr. Kemlo Renwick Baxter, of Toronto, Ontario, to be a Coroner in and for the County of York.—*Gazette, 25th January, 1947.*

Dr. Roy Wilfred Hewson, of Forest, Ontario, to be a Coroner in and for the County of Lambton.—*Gazette, 25th January, 1947.*

Dr. William Dean Howe of Bright's Grove, Ontario, to be a Coroner in and for the County of Lambton.—*Gazette, 25th January, 1947.*

Dr. William Porte Marshall, of Colborne, Ontario, to be a Coroner in and for the United Counties of Northumberland and Durham.—*Gazette, 25th January, 1947.*

Dr. John Geldard Middlebro', Toronto, Ontario, to be a Coroner in and for the County of York.—*Gazette, 25th January, 1947.*

- J. F. Richardson of Tilbury to be Coroner in and for the County of Kent.—*Gazette, 22nd February, 1947.*
- Dr. Albert George Tellson, of Burford, Ontario, to be a Coroner in and for the County of Brant.—*Gazette, 29th March, 1947.*
- Dr. Moise Gendron, of Bourger, Ontario, to be a Coroner in and for the United Counties of Prescott and Russell.—*Gazette, 12th April, 1947.*
- Dr. Dearden Rigg, of Dunnville, Ontario, to be a Coroner in and for the County of Haldimand.—*Gazette, 3rd May, 1947.*
- Dr. Raymond E. Ives of Stayner, Ontario, to be a Coroner in and for the County of Simcoe.—*Gazette, 31st May, 1947.*
- Dr. William Sinclair Harper of Swansea, Ontario, to be a Coroner in and for the County of York.—*Gazette, 31st May, 1947.*
- Dr. Hugh William Allen of Sioux Lookout, Ontario, to be a Coroner in and for the District of Kenora.—*Gazette, 28th June, 1947.*
- Dr. Richard Thomas Potter of Belleville, Ontario, to be a Coroner in and for the County of Hastings.—*Gazette, 28th June, 1947.*
- Dr. Gordon Wesley Jones of Mallorytown, Ontario, to be a Coroner in and for the United Counties of Leeds and Grenville.—*Gazette, 28th June, 1947.*
- Dr. Wilfrid Grenville Riddell of Dryden, Ontario, to be a Coroner in and for the District of Kenora.—*Gazette, 28th June, 1947.*
- Dr. C. A. Bell, to be Coroner in and for the County of Elgin.—*Gazette, 26th July, 1947.*
- Dr. Marvin Lee Booth, of Wallaceburg, Ontario, to be a Coroner in and for the County of Kent.—*Gazette, 27th September, 1947.*
- Dr. Emerson Peter Titcombe, of Thornbury, Ontario, to be a Coroner in and for the County of Grey.—*Gazette, 27th September, 1947.*
- Dr. Alexander McPherson Calder of Forest, Ontario, to be a Coroner in and for the County of Lambton.—*Gazette, 8th November, 1947.*

#### DIVISION COURT CLERKS AND BAIFFS

- Stanley R. Rouse, of Wiarton, Ontario, to be Bailiff of the Eighth Division Court of the County of Bruce.—*Gazette, 11th January, 1947.*
- Isaac Henry Lucas, of Kingsville, Ontario, to be appointed Bailiff of the Third Division Court of the County of Essex.—*Gazette 25th January, 1947.*
- J. Henry Taylor, North Gower, Ontario, to be Clerk of the Fifth Division Court of the County of Carleton.—*Gazette, 25th January, 1947.*
- Henri Bourdeau, of Embrun, Ontario, to be Bailiff of the Sixth Division Court of the United Counties of Prescott and Russell.—*Gazette, 8th February, 1947.*

- Hector G. Roy, of Embrun, Ontario, to be Clerk of the Sixth Division Court of the United Counties of Prescott and Russell.—*Gazette 8th January, 1947.*
- WILLIAM Burke of Sutton West, to be Bailiff of the Fifth Division Court of the County of York.—*Gazette, 22nd February, 1947.*
- Thomas Marwood Renaud of Amherstburg, to be Bailiff of the Fifth Division Court of the County of York.—*Gazette, 22nd February, 1947.*
- Arnold Alexander Donnell, of St. Marys, Ontario, to be Clerk of the Third Division Court of the County of Perth.—*Gazette, 8th March, 1947.*
- Calvin Harold MacKenzie of Maxville, Ontario, to be Bailiff of the Twelfth Division Court of the United Counties of Stormont, Dundas and Glengarry.—*Gazette, 29th March, 1947.*
- Douglas E. Rowbotham, of Cooksville, Ontario, to be Clerk of the Second Division Court of the County of Peel.—*Gazette, 3rd May, 1947.*
- Leo Bernard O'Reilly, of Eganville, Ontario, to be Clerk and Bailiff of the Fifth Division Court of the County of Renfrew.—*Gazette, 3rd, 1947.*
- Ralph Leo Paul, of Larder Lake, Ontario, to be Bailiff of the Fifth Division Court of the District of Temiskaming.—*Gazette, 3rd May, 1947.*
- William Smith Robinson, of Beeton, Ontario, to be Clerk of the Third Division Court of the County of Simcoe.—*Gazette, 3rd May, 1947.*
- George Edward Brent, of Fort Erie North, to be Clerk of the Third Division Court of the County of Welland.—*Gazette, 3rd May, 1947.*
- Richmond Floyd Youn, of Listowel, Ontario, to be Bailiff of the Sixth Division Court of the County of Perth.—*Gazette, 10th May, 1947.*
- Jean Lomer de Blois, Cochrane, Ontario, to be Clerk and Bailiff of the First Division Court of the District of Cochrane.—*Gazette, 31st May, 1947.*
- .....
- Thomas Forsythe Grieve, of Georgetown, Ontario, to be Bailiff of the Third Division Court of the County of Halton.—*Gazette, 31st May, 1947.*
- Madeline McMillan Babcooke, of Deseronto, Ontario, to be Clerk and Bailiff of the Seventh Division Court of the County of Hastings.—*Gazette, 7th June, 1947.*
- Perry Rolfe, of Copetown, Ontario, to be Bailiff of the Second and Fourth Division Courts of the County of Wentworth at Dundas and Lynden.—*Gazette, 7th June, 1947.*
- Charles Launden, of West Mary Street, Milton, Ontario, to be Clerk and Bailiff of the First Division Court of the County of Halton.—*Gazette, 21st June, 1947.*
- Albert Oliver Shingler, of Manse Road, West Hill, Ontario, to be Bailiff of the Ninth Division Court of the County of York at Birch Cliff.—*Gazette, 21st June, 1947.*
- Murray Johnson, to be Clerk of the Third Division Court of the District of Rainy River.—*Gazette, 13th September, 1947.*

- Gordon A. Price, to be Bailiff of the Second Division Court of the County of Peel.—*Gazette, 13th September, 1947.*
- Oswald Alexander McPhail, to be Clerk and Bailiff of the Fifth Division Court of the County of Lanark.—*Gazette, 20th September, 1947.*
- James Cureton Bailey, of Fort William, Ontario, to be Clerk of the Third Division Court of the District of Thunder Bay.—*Gazette, 1st November, 1947.*
- Gordon W. Slack, of Hagersville, Ontario, to be a Clerk and Bailiff of the Fourth Division Court of the County of Haldimand.—*Gazette, 1st November, 1947.*
- George Louis Marshall, of Cayuga, Ontario, to be Clerk of the Second Division Court of the County of Haldimand.—*Gazette, 8th November, 1947.*
- Harper John Pettypiece, of Forest, Ontario, to be Clerk of the Fifth Division Court of the County of Lambton.—*Gazette, 22nd November, 1947.*
- Ralph Foster Robinson, of Prescott, Ontario, to be Bailiff of the Second Division Court of the United Counties of Leeds and Grenville.—*Gazette, 22nd November, 1947.*
- Robinson O. Ashbaugh, of Caledonia, Ontario, to be Bailiff of the First Division Court of the County of Haldimand.—*Gazette, 13th December, 1947.*
- Harvey Albert Russell Letherland, of Blyth, Ontario, to be Bailiff of the Twelfth Division Court of the County of Huron.—*Gazette 27th December, 1947.*
- Roy Godkin Morris, of Delta, to be Clerk of the Sixth Division Court of the United Counties of Leeds and Grenville.—*Gazette 27th December, 1947.*
- Lucien D. Tanguay, of Hearst, Ontario, to be Clerk and Bailiff of the Fifth Division Court of the District of Cochrane.—*Gazette, 27th December, 1947.*
- Albert Edward Turner, Winchester, Ontario, to be Clerk of the Tenth Division Court of the United Counties of Stormont, Dundas and Glengarry.—*Gazette, 27th December, 1947.*

# RULES

Made under

## THE LAND TITLES ACT

(Effective April 1st, 1948)

### THE LAND TITLES ACT

O. Reg. 45 48.  
New.  
General.  
Made—10th March, 1948.  
Filed—11th March, 1948, 3.15 p.m.

### RULES MADE UNDER THE LAND TITLES ACT

#### PART I

#### FIRST REGISTRATIONS

##### APPLICATIONS FOR FIRST REGISTRATIONS

1.—(1) The application for a first registration of land under the Act shall be in form 1.

(2) Where the application is for the registration of,

- (a) a nominee, under subsection 1 of section 5 of the Act; or
- (b) a person referred to in subsection 2 of section 5 of the Act.

the consent in writing of the nominee or his solicitor, or of the vendor or his solicitor, shall be lodged with the application.

(3) Where the application is made under subsection 1 of section 6 of the Act, the consent in writing of the persons, if any, whose consent is required shall be lodged with the application.

##### POSSESSORY TITLE

2.—(1) Where the application is for registration with a possessory title only, there shall be lodged in the office with the application an affidavit made by,—

- (a) (i) the applicant;
- (ii) one of the applicants, if more than one; or
- (iii) some person whose consent is required to the application; and
- (b) the solicitor where the application is made through a solicitor;

to the best of their respective knowledge, information and belief, verifying the description.

- (2) The affidavit shall be to the effect that,—

(a) the applicant, either alone or with the person, if any, consenting to the application and either subject or not to incumbrances, is well entitled for his or their own benefit, or as holding the land on trust for sale, or as a trustee, or otherwise having a power of selling the land, as the case may be, to an estate in fee simple, or the power of disposing by way of sale of an estate in fee simple in the land;

(b) the actual possession, or receipt of the rents and profits thereof is in accordance with the applicant's title, stating who is in actual occupation of the land and if a tenant of the applicant is in occupation for what term he claims to be entitled;

(c) the applicant or his nominee is entitled under the Act to be registered as the owner of the land; and

(d) the documents of title, if any, mentioned in the schedule to the affidavit comprise amongst others, if the fact be so, the last conveyance or other document under which the applicant's title is derived.

(3) The affidavit shall give,—

(a) the particulars of any mortgage or charge on the land; and

(b) where the mortgage or charge is registered in the registry office, the registration number.

3. The entry of the first registration shall state the title of the applicant to be subject to the incumbrances mentioned or so many of them as shall subsist at the time the entry is made.

4.—(1) Where the application is not made through a solicitor, the applicant shall file the certificate of a justice of the peace of the county or district in which the land is situate, stating that the justice is acquainted with the applicant, and that he believes him to be the owner of the land mentioned in his application, or is otherwise entitled thereto as set out in the certificate.

(2) Where the application is made through a solicitor, a certificate of the solicitor to the like effect or the certificate of the justice of the peace shall be filed.

## ABSOLUTE OR QUALIFIED TITLE

## EVIDENCE

5.—Where the application is for a first registration with absolute or qualified title it shall be supported, unless any be dispensed with by the master of titles at Toronto by the following particulars,—

- (a) the title deeds, if any, and all evidence of title relating to the land which is in the possession or power of the applicant;
- (b) certified copies of,—
  - (i) All other registered instruments affecting the land or of the memorials thereof; or
  - (ii) all since the last judicial certificate, if any, under *The Quieting Titles Act* was given;
- (c) the certificate of the registrar of deeds of the registry division in which the land lies, showing what instruments are registered affecting the land and giving shortly the particulars thereof;
- (d) proofs of any facts which are required to be proved in order to make out the title and which are not established by the other produced documents, unless dispensed with by the proper master of titles until a future stage of the investigation; and
- (e) an affidavit, form 2, of the person whose title is to be investigated.

## AFFIDAVIT OF APPLICANT

6. The affidavit may be made by some person other than the person whose title is to be investigated, or as to part may be made by one person and as to the other part by another person.

## MODE OF PROOF

7.—The proofs required may be,—

- (a) by affidavit or certificate;
- (b) given viva voce; or
- (c) in any other manner or form satisfactory to the proper master of titles.

## SHERIFF'S CERTIFICATE

8. Before the application is granted, the certificate of the proper sheriff shewing what writs are in his hands affecting the land shall be filed.

## PAYMENTS OF TAXES AND ASSESSMENTS

9. Before the application is granted, where an examination of title is required, satisfactory evidence shall be given by certificate, affidavit or otherwise, that all

taxes rates and assessments, for which the land is liable, prior to the date up to which it is desired that the land shall be declared free from taxes, have been paid or as the fact may be.

## PRODUCTION OF FURTHER EVIDENCE

10. Where the proper master of titles is not satisfied with the evidence of title produced in the first instance, he shall give a reasonable opportunity of producing further evidence or of removing defects in the evidence produced.

## PUBLICATION OF NOTICE

11.—(1) Before the completion of a first registration the proper master of titles shall direct that notice, form 3, of the application be published in *THE ONTARIO GAZETTE*, and may direct that the notice be published in any newspaper or newspapers for such period as he thinks expedient.

(2) Proof of the publication of the notice shall be in form 4.

(3) The registration shall not be completed until after the expiration of at least four weeks from the first publication of the notice, or such other period as the proper master of titles may appoint.

(4) Notice of any number of applications may be included in one publication if the proper master of titles thinks fit, and in that case the expense of the publication shall be borne by the applicants in such proportions as the proper master of titles may direct.

(5) The proper master of titles instead of causing notice of the application to be published shall direct that a printed or typewritten general notice, or several copies be,—

- (a) posted upon the property in a conspicuous place or places, and a copy left at the residence of the occupant of each contiguous property which is occupied; or
- (b) where any contiguous property is unoccupied, left at the residence of the occupant of the nearest occupied property lying at the same side as the unoccupied contiguous property.

(6) Where several persons belonging to the same family occupy any property, the head of the family for the time being shall be deemed the occupant within the meaning of this rule, and where there is any doubt as to the occupant the proper master of titles shall give directions in respect thereof.

(7) The proper master of titles may dispense with the notice,—



- (a) where the applicant,—
- (i) is the original grantee from the Crown;
  - (ii) produces all the title deeds by which the title is traced from that grantee; or
  - (iii) produces all the title deeds by which the title is traced for forty years by a registered title; or
- (b) where the applicant or some one through whom he claims has obtained a certificate of title under *The Quieting Titles Act*, or a tax deed which has been validated by an Act of the Legislature, and the applicant produces all the title deeds subsequent to the certificate or tax deed; and
- (c) where the applicant is in actual possession of the land or where every other person in actual possession of the land is notified or where the land is vacant.

## NOTICE TO ADVERSE CLAIMANT

12. Where there appears to exist any claim adverse to, or inconsistent with, that of the applicant to, or in respect of any part of the land, the proper master of titles shall direct a notice, form 5, to be mailed to or served upon the adverse claimant, his solicitor or agent.

## ADDITIONAL NOTICES

13. The proper master of titles, before granting the certificate of registration may require from time to time any further publication or any other notice to be mailed or served.

## OBJECTIONS

14.—(1) A person having an adverse claim, or a claim not recognized in the application may, at any time before the registration is completed, file and serve upon the applicant, his solicitor or agent, a short statement of his claim.

(2) The claim shall be verified by an affidavit to be filed therewith and shall contain an address in Ontario at which service upon the objector may be made.

## HEARING OF OBJECTIONS

15.—(1) The applicant or his solicitor shall obtain an appointment before the proper master of titles for hearing any objection which shall have been duly lodged in the office.

(2) Service of the appointment shall be made on the objector or his solicitor seven clear days before it is returnable.

(3) The parties may be heard in person or by counsel.

## COSTS

16.—(1) The proper master of titles may fix costs or order costs to be paid by any person after taxation by a taxing officer of the Court.

(2) Upon taxation the like fees shall be payable to the taxing officer in stamps as are payable upon a taxation under an order of a judge of the court and the practice and rules applicable to a taxation under a judge's order shall apply.

## CHANGE OF INTEREST

17.—(1) In case of death or change of interest pending registration, the proceedings shall, subject to the provision of the Act, be available to such person as the proper master of titles an application, having regard to the rights of the several persons interested in the land, may direct.

(2) The court or the proper master of titles may,—

(a) require notices to be given to persons becoming interested; or

(b) make an order for discontinuing or suspending or carrying on the proceedings, or otherwise in relation thereto, as under the circumstances may be just.

## CAUTION AGAINST FIRST REGISTRATION

18.—(1) A caution to be registered against first registration shall be in form 6 and an affidavit, form 7, in support shall be lodged therewith.

(2) The period to be limited by the notice, form 8, to be served on the cautioner shall be 7 days, or such other period of not less than 4 days as the proper master of titles may direct.

(3) The notice may be served either personally or by mail as the proper master may direct.

## PART II

## DEALINGS AFTER REGISTRATION

## NOTICE BY MASTER TO SHERIFF

19. The notice to be given under subsection 1 of section 162 of the Act shall be in form 9.

## CAUTION AGAINST DEALING WITH LAND

20.—(1) A caution to be registered under section 74 of the Act shall be in form 10 and an affidavit, form 11, in support of the caution shall be lodged therewith.

(2) The period to be limited by the notice, form 12, to be served on cautioner under section 75 of the Act shall be 7 days or such other period, not less than

4 days, as the proper master of titles may direct.

21.—(1) The proper master of titles may withdraw or cancel the entry of any caution upon receiving the consent in writing, form 13 of the cautioner or his solicitor.

(2) The consent shall be attested and verified by an affidavit in form 14.

(3) The application to terminate a caution shall be in form 15.

(4) At any time before the expiration of the period limited by the notice given under rule 20 or given on account of any dealing lodged for registration, or any extension thereof which may be granted by the master, the cautioner may show cause why the caution should be continued, or why the dealings should not be registered.

#### INHIBITIONS

22.—(1) An application to the proper master of titles for an inhibiting order under section 80 of the Act shall be in form 16.

(2) Where the application is to the court it shall be entitled "In the Supreme Court of Ontario."

#### RESTRICTIONS

23.—(1) An application under section 81 of the Act shall state the particulars of the directions or restrictions required to be entered on the register.

(2) An application to withdraw or modify a direction or restriction shall be attested and verified.

24. Before an entry is made upon the register under subsection 2 of section 99 of the Act the consent in writing of the persons to be entered as the registered owners of the land or charge, stating the particulars of the entry required, shall be lodged in the office.

#### CHARGE OF LAND

25.—(1) The instrument by which any charge of freehold or leasehold land, form 17, is made under section 29 of the Act shall be lodged in the office and the execution by the registered owner of the land shall be attested and verified.

(2) Where it is desired that an entry be made on the register,—

(a) negating the implied covenants referred to in sections 30 and 31 of the Act;

(b) contrary to the powers given to a registered owner of a registered charge by sections 32, 33 and 34 of the Act; or

(c) contrary to the provisions of section 35 of the Act;

a separate written application in that behalf shall be filed giving the particulars of the entry required to be made, and shall be signed, attested and verified.

(3) The verification may where practicable be made by the same affidavit as that verifying the charge

(4) Where a foreclosure or sale has been enforced by the registered owner of the charge, the proper master of titles shall, upon the application of the person entitled to the benefit of the foreclosure or sale, and upon proper proof, make all necessary entries in the register.

(5) The applicant shall lodge a draft of the entry to which he considers himself entitled.

#### TRANSFER OR POSTPONEMENT OF CHARGE

26. A transfer of charge, form 18, shall be attested and verified.

27. A postponement of charge shall be in form 19 attested and verified.

#### CESSATION OF CHARGE

28. Where a charge is created after the first registration of the land, the cessation thereof shall be in form 20 attested and verified.

29. Where the cessation of a charge entered on the register is required to be noted under section 36 of the Act, and the application, form 21, is not made or concurred in by the registered owner of the charge, proof of the satisfaction of the charge shall be lodged with the application.

#### CANCELLATION OF ENTRIES IN EXECUTION BOOK

30.—Where a copy of a writ of execution affecting the land of the registered owner has been received by the proper master of titles and there is afterwards filed by or on behalf of the owner or any person interested in the land,—

(a) a subsequent certificate of the sheriff shewing,—

(i) that there is at the date thereof no execution in his hands against the lands of the owner and that none is outstanding for renewal or outstanding with a return of lands on hand for want of buyers or to the like effect; and

(ii) that no lands have been sold by the sheriff under an execution against the owner within six months preceding the date thereof; or

- (b) any other certificate of the sheriff shewing that the executions previously entered in the execution book have ceased to affect the land of the owner,

the master may cancel in the execution book all previous entries of writs against the owner.

#### TRANSFER OF LAND

31. A transfer of land shall be in form 22 attested and verified, with an additional affidavit as to the identification of parties and marriage status in form 23.

#### LAND NOT REGISTERED BUT INCLUDED IN TRANSFER OR CHARGE

32.—(1) Where a transfer or charge affects land or a charge of which the transferor or chargor is the registered owner, and also land or a charge of which he is not then the registered owner, the proper master of titles may register the instrument in respect of the land or charge of which the transferor or chargor is the owner.

(2) Where the transferor or chargor subsequently becomes the registered owner of other land, or of another charge included in the transfer or charge, the master may register the transfer or charge as to the other land or charge.

#### ENTRY NEGATING IMPLIED COVENANTS ON TRANSFER OF LEASEHOLD LAND

33. An application requiring an entry to be made on the register negating the implied covenants under section 52 shall be in form 24, signed, attested and verified.

#### EVIDENCE OF TRANSMISSION OF REGISTERED OWNERSHIP

34. Where it is required to prove the fact of a person having become entitled to any land or charge, in consequence of the death of a registered owner, the application shall be in form 25 or 26.

#### RECORD OF DEATH OF OWNERS

35. Where application for the entry of a transmission upon death of a registered owner has been granted, and a copy of the will of the owner, or of letters of administration to his estate, has been filed upon the application, the name of the deceased owner shall be entered in the alphabetical index of owners in the column headed "owner" with the word "deceased" appended thereto, and in the column headed "no. of instrument" shall be inserted the number in the receiving book of the application for transmission.

#### DEATH OF REGISTERED OWNER, AND ESTATES IN DOWER OR BY THE CURTESY

36.—(1) An application for 25, 26 or 27 under section 56, 57, 58 or 73 of the Act, shall be supported by the affidavit of the applicant, shewing the existing rights of the persons interested in the land or charge, as the case may be.

(2) Where there is an intestacy the affidavit shall be in form 28.

#### REGISTRATION OF A LEASE OR NOTICE OF A LEASE

37.—(1) Where a notice of a lease or agreement for a lease is to be registered under section 72 of the Act, the lease or agreement, when verified and lodged with the application, form 29, shall be entered in full in a book to be kept for the entry of leases.

(2) Notice of the lease shall by a short memorandum be entered in the register of the land, stating the fact of the lease and the length of the term and referring to the entry in the book kept for the entry of leases.

(3) Where the registered owner of the land concurs he shall be a party to and sign the application, or consent in writing thereto, and his signature shall be attested and verified.

(4) Where the registered owner does not concur such notice shall be given him under section 72 of the Act as the proper master of titles deems reasonable.

#### TRANSFER OF LEASEHOLD LAND

38. A transfer of leasehold land shall be in form 30 signed attested and verified.

#### ENTRY AS TO EXCEPTIONS, ETC., UNDER SECTION 24 OF THE ACT

39.—(1) An application requiring an entry to be made on the register under section 24 of the Act shall state the particulars of the entry required.

(2) The evidence in support of the application shall be lodged therewith and the application shall be proceeded with in such manner as the proper master of titles directs.

#### CONDITIONS AND COVENANTS ANNEXED TO LANDS

40. An application under section 101 of the Act may be according to form 31.

#### LAND CERTIFICATES

41. A land certificate, form 32, shall,—  
(a) be under the seal of the office;  
(b) contain a copy of the registered description of the land;

- (c) contain the name and place of residence of the registered owner; and
- (d) contain a short statement of such other matters as may for the time being be entered on the register as affecting the land.

#### CERTIFICATE OF CHARGE

42. A certificate of charge shall be under the seal of the office, and may at the option of the applicant contain a copy of the entry on the register of the charge with a reference to or a copy of the registered description of the land or the like particulars as in a land certificate.

#### ABSTRACTS AND DOCUMENTS TO BE RETAINED IN OFFICE

43. Abstracts and copies of documents and documents for registration lodged in the office shall be retained pending completion of the registration to which they relate, and afterwards shall be dealt with as the proper master of titles directs.

#### APPLICATIONS, TRANSFERS, ETC., HOW WRITTEN AND FOLDED

44. Applications under the Act and material in support, and transfers, charges, cautions and other documents lodged for registration shall be written on one side of foolscap paper of good quality and shall be folded twice across, and neatly endorsed.

#### INSTRUMENTS EXECUTED UNDER POWERS OF ATTORNEY

45. Where a document lodged for registration has been executed under a power of attorney, the power of attorney, form 33, shall be produced and verified and evidence furnished in accordance with form 34.

#### LOGGING THE POWERS OF ATTORNEY

46.—(1) A power of attorney, of which the original with proof of the execution, or a copy certified by,—

- (a) a registrar of deeds under *The Registry Act*;
- (b) the master of titles, or a local master of titles;
- (c) the Provincial Secretary or his deputy or assistant; or
- (d) the Registrar under *The Loan and Trust Corporations Act* where the instrument is filed in his office;

lodged with the proper master of titles shall be copied into a book for that purpose, and the provisions of rule 45 shall, as far as may be, apply to the powers and instruments executed thereunder.

(2) The proper master of titles may use the same book for the entry of leases

under rule 37 and powers of attorney under this rule except where the Inspector otherwise directs.

#### DOCUMENTS EXECUTED BY CORPORATIONS

47.—(1) Where a document is executed by or on behalf of a corporation the execution shall be proved by the affidavit of a subscribing witness.

(2) An affidavit of an officer of the corporation, form 35, shall also be lodged.

(3) A copy of the by-laws conferring the authority to execute the documents shall be lodged.

#### TRANSFER BY SHERIFF

48. A transfer by a sheriff under section 67 of the Act shall be in form 36.

#### DESTRUCTION OF EFFETE INSTRUMENTS

49. A proper master of titles may direct the destruction of any instrument in his possession or custody where superseded by entries in the register or where it has ceased to have any effect.

#### STATIONERY CHARGES

50. All copies, entries, or engrossments or other writings and all stationery and forms supplied by the office in the course of registration, shall be paid for by the applicant.

#### VERIFICATION OF DOCUMENTS

51.—Where the signing or execution of any document is required to be verified, the signing or execution shall be attested and the verification shall be by affidavit,—

- (a) in form 37 in the case of a transfer of land where the transferor is unmarried, and
- (b) in form 38 in the case of execution of documents with bar of dower.

52.—(1) The register shall be made in such mode that where there is a registered owner of any parcel of land, that land and any transactions relating thereto authorized to be entered on the register shall be entered on a page or succession of pages so as to form a separate record in the register, hereinafter called the register of the parcel.

(2) Each parcel of land separately entered on the register shall be identified by a separate number, and where the land originally registered is dealt with in separate parcels, each new separate parcel shall refer to the number of the original parcel.

(3) The proper master of titles shall note upon the register of the parcel of the transferor the number of the parcel of the transferee's title, and upon that of the transferee the number of the parcel of the transferor.

(4) The proper master of titles may enter the whole or any part of a parcel of land as a new parcel either alone or with other land and may call in the outstanding land certificate for the purpose of making thereon all proper entries or memoranda or for cancellation, and upon making the entries shall note in the register of the old parcel the fact of the entries, shewing in the note the land so entered: and thereafter the page on which the land is newly entered and the page or pages succeeding it set apart for the entry of dealings in respect thereto, shall be deemed the register of the title of the land.

(5) The proper master of titles may withdraw from the register, by cancellation or otherwise, any notice or entry which he is satisfied no longer affects the registered land.

#### THE COMPANIES REGISTER

53.—(1) There shall be kept in every land titles office a register to be called "the companies register."

(2) There shall be entered in the companies register short particulars of the powers of companies in respect of land, of the amalgamation or absorption of companies or of changes in the names of companies or copies of or extracts from the instruments by which the amalgamation, absorption or changes are affected, in case a company affected by any such instrument desires the registration thereof, or in case any person interested requires the registration of an instrument.

(3) Where a company desires to be entered as owner of land or of a charge, or transfers or charges land it shall produce to the proper master of titles the charter or other instrument conferring the authority to hold mortgage or transfer land, or an exemplification, or a copy thereof, certified by the proper officer in that behalf, or shall produce such other evidence as is satisfactory to the proper master of titles.

(4) Where the original or exemplification is not lodged, a copy of the original or exemplification shall be lodged, and such copy shall be compared in the office with the original or exemplification, and a note of such comparison having been made shall be written upon the copy by the master or clerk who makes the comparison.

(5) The proper master of titles shall copy into the companies register any instruments produced as aforesaid, or shall enter into such register extracts therefrom, with such particulars as are required to show the powers of the company to hold, transfer or mortgage land.

(6) The entries by this rule authorized or required may in the offices at St. Thomas and Ottawa be made in the same book as powers of attorney until the Inspector otherwise directs.

#### DESCRIBING LANDS IN DOCUMENTS

54. Where land is described by courses which are not stated to be astronomic, the proper master of titles may require the governing line for such courses to be stated.

#### SUBSTITUTED DESCRIPTION IN REGISTER

55. Where the registered owner of any land is desirous that a revised description be substituted for the registered description, the proper master of titles may cause a revision of the description and the revised description shall henceforth be the registered description of the land.

#### WITHDRAWAL OF LAND

56. An application for the withdrawal of land from the operation of the Act shall be in writing, shall describe and identify the land proposed to be withdrawn, and shall set out the circumstances which render the withdrawal expedient.

#### PREPARATION AND SERVICE OF NOTICES

57.—(1) All notices and summonses required to be given or served shall be prepared by the applicant, and be legibly written.

(2) Copies of notices shall be under the seal of the office.

(3) If the service of a notice or summons is personal, it shall be proved by affidavit.

(4) Every notice required to be given shall, if sent by post and not returned, be deemed to have been received within seven days exclusive of the day of posting.

(5) On the return of a letter containing a notice, the proper master of titles shall direct service of the notice,—

- (a) personally;
- (b) substitutionally; or
- (c) by publication.

(6) Service on the solicitor or the solicitor's agent of any person shall be deemed good service on that person.

#### NOTICES TO BE PREPARED AND SERVED BY APPLICANT

58. Where in any proceeding a notice is required to be given the applicant shall pay the proper fees for preparing the notice, and prepare the requisite copies, and see that the notice is served.

## SERVICE WHERE A SOLICITOR ACTS

59.—(1) Where a party is represented in the office of a master by a solicitor, all notices, orders, appointments and other documents which do not require personal service, may be served,—

- (a) upon the solicitor; or
- (b) where the solicitor does not reside in the county or district where proceedings are conducted, upon his agent named in "The County Solicitors and Agents' Book" under rule 197 of the rules of practice and procedure of the Supreme Court, or upon his Toronto agent named in "The Toronto Solicitors' and Agents' Book" under rules 195 and 196 of the rules of practice of the Supreme Court.

(2) Where a solicitor has not named an agent in either of the books mentioned in subrule 1, the mailing of any notice, order, appointment or other document, addressed to the office of the solicitor, post-paid and registered, shall be deemed sufficient service as of the date of mailing.

## ADDRESS BOOK

60. The addresses furnished under section 115 of the Act shall be entered in an address book to be kept in each land titles office for that purpose.

## DISCRETIONARY POWER OF MASTER

61. Where the signing or execution of any document or instrument, or any act is required by these rules to be attested, verified or done by a solicitor, the proper master of titles if he thinks fit, may accept the document or instrument though not so attested or verified, or may give directions in respect of the act though not so done; and he may

- (a) accept an instrument though not verified by an affidavit of a subscribing witness if satisfied of the execution thereof;
- (b) accept a covenant or other indemnity to protect the Assurance Fund in respect of any matter as to which a question may arise; and
- (c) accept and register documents which are irregular in form.

## INDEXES, INSPECTION, COPIES AND EXTRACTS

62.—(1) The proper master of titles shall keep alphabetical indexes corresponding as nearly as may be to the indexes provided under The Registry Act.

(2) Any person may inspect the indexes.

(3) Subrule 1 shall not apply to,—

- (a) a transferor of land or the maker of a charge or document by virtue of which cessation of incumbrances or leases is noted;
- (b) a claimant of a mechanics' lien; or
- (c) a claimant under The Conditional Sale Act.

## CERTIFICATE OF SEARCH

63. The proper master of titles may issue a certificate of search in such form as he thinks fit.

## RECEIVING AND FEE BOOK AND SUSPENSE BOOK

64.—(1) The master of titles at Toronto and each local master shall keep books to be called the "receiving and fee book," and the "suspense book," in the form used in the office of land titles at Toronto.

(2) There shall be entered in the receiving and fee book forthwith upon receipt,—

- (a) all instruments lodged for registration; and
- (b) all fees, whether payable in money or stamps, shewing the separate items of service.

(3) Where the Inspector so directs the particulars of searches shall be entered in a separate book, and only the daily total of fees for searchers shall be entered in the receiving and fee book.

(4) Upon the completion of the entry of an instrument in the register, a note thereof shall be in the receiving and fee book, and from time to time the proper master of titles shall enter from that book into the suspense book all instruments where registration is delayed.

(5) As the registration of instruments entered on a page of the receiving and fee book or their transfer to the suspense book is completed, the master shall rule a diagonal line across the page of the receiving and fee book so as to indicate all instruments previously entered therein have been registered, rejected or entered on the suspense book.

(6) The pages of the suspense book shall be dealt with in like manner where the instruments entered are disposed of.

## BOOK FOR CAUTIONS BY EXECUTORS AND ADMINISTRATORS

## UNDER THE DEVOLUTION OF ESTATES ACT

65.—(1) In each land titles office there shall be kept a book called the "Executors and Administrators Caution Book,"

in which shall be entered all cautions lodged by executors and administrators under sections 12, 13 and 14 of The Devolution of Estates Act, and the caution need not be entered on the register of any particular parcel of land.

(2) The entries in the book shall be indexed under the name of the testator or intestate.

#### TARIFF OF FEES

66. The fees set forth in schedule 1 shall be the fees payable to the proper masters of titles.

#### FEES

67.—(1) Fees payable to the master of titles at Toronto shall be paid in law stamps and no entry shall be made on the register by him before the stamps have been affixed.

(2) Fees payable to local masters shall be paid in money.

68. Fees received in respect of applications for first registration and other matters entered in the procedure books shall, upon the application or other matter being disposed of, be entered in the receiving and fee book, and a note made in the procedure book.

69. The master of titles and every local master shall, on or before the 15th day of January in each year, make a return in duplicate to the Inspector of legal offices under oath of all fees received by him up to and including the 31st day of the previous December.

#### APPLICATIONS TO COURT AND APPEALS

70.—(1) On an application to the court being made on the requirement of, or appeal from, the proper master of titles or under section 118 or 119 of the Act, a statement, form 39, shall be prepared by the applicant and settled and signed by the master of titles at Toronto.

(2) Applications to the court and appeals from the proper master of titles shall be in the same manner and subject to the same rules as appeals from the master of the Supreme Court, except that the notice of appeal shall be served within 7 days after the decision complained of, or within such further time as may be allowed by a judge of the court or by the master of titles at Toronto and the motion shall be returnable within 14 days after the decision, or within such other time as may be allowed.

(3) No appeal from a decision or order of the proper master of titles or of the court shall affect any registered dealing for valuable consideration before a notice in writing of the appeal has been lodged and a note thereof made in the register.

#### HOURS OF ATTENDANCE

71.—(1) The office of Land titles at Toronto shall be open from 10 a.m. until 4 p.m. each day except Saturday and holidays.

(2) On Saturday the office shall be open from 10 a.m. until 1 p.m.

(3) Except on Saturday and holidays the office of a local master shall be open from 10 a.m. until 4 p.m.

(4) On Saturday the office of a local master shall be open from 10 a.m. until 1 p.m.

(5) During long vacation, the office at Ottawa shall be open from 9 a.m. until 1 p.m.

(6) Nothing in this rule shall limit the office hours of the office staff.

#### TERRITORY SEPARATED FROM REGISTRY DISTRICT

72.—(1) Where any territory has been separated from a registry district the local master of that district shall prepare and certify true copies of the existing registers of the parcels of land in the territory so separated and he shall state in his certificate whether there is in his office any execution which affects the land, and if there is any execution shall give the particulars.

(2) The proper master of titles shall deliver to the local master of titles of the registry district in which the separated territory is situate,—

- (a) all, original instruments in his hands relating exclusively to the lands;
- (b) certified copies of all documents relating to the lands and to other lands; and
- (c) a certified copy of executions affecting any of the lands so separated.

(3) The local master of titles of the separated territory shall upon the receipt of the certified copies of the registers, register as owners of the several parcels the persons who appear to be the owners thereof subject to the charges, cautions, inhibitions, qualifications and other incumbrances affecting the parcels

73. Land in unsurveyed territory shall not be registered unless the land is described in a manner that the proper master can lay it down on a map of the district in which it is situated.

#### SURVEYOR'S CERTIFICATE ON PLANS

74. The certificate and verification by an Ontario land surveyor under sections

107 and 109 of the Act shall be in form 40.

75. These rules shall come into force on the first of April, 1948.

### INDEXES OF FORMS

1. Application for first registration .....	(Rule 1)
2. Affidavit in support of application form 1 .....	(Rule 5-E)
3. Notice for publication .....	(Rule 11-1)
4. Affidavit of publication .....	(Rule 11-2)
5. Notice to adverse claimant .....	(Rule 12)
6. Caution against first registration .....	(Rule 18-1)
7. Affidavit in support of caution against first registration .....	(Rule 18-1)
8. Notice to cautioner against first registration .....	(Rule 18-2)
9. Notice by Master to Sheriff .....	(Rule 19)
10. Caution after registration .....	(Rule 20-1)
11. Affidavit in support of caution after registration .....	(Rule 20-1)
12. Notice to cautioner after first registration .....	(Rule 20-2)
13. Cessation of caution .....	(Rule 21-1)
14. Affidavit of execution cessation of caution .....	(Rule 21-2)
15. Application to terminate caution .....	(Rule 21-3)
16. Application for inhibition .....	(Rule 22-1)
17. Charge .....	(Rule 25-1)
18. Transfer of charge .....	(Rule 26)
19. Postponement of charge .....	(Rule 27)
20. Cessation of charge .....	(Rule 28)
21. Special application by owner for cessation of charge .....	(Rule 29)
22. Transfer of land by leasehold .....	(Rule 31)
23. Affidavit identifying parties to transfer of land .....	(Rule 31)
24. Application to negative of implied covenants .....	(Rule 33)
25. Application for transmission of land .....	(Rule 34)
26. Application for transmission of charge of leasehold .....	(Rule 34)
27. Application as to dower or the curtesy .....	(Rule 36-1)
28. Affidavit in support of transmission on death .....	(Rule 36-2)
29. Application for registration of notice of lease or agreement for lease .....	(Rule 37-1)
30. Transfer of leasehold .....	(Rule 38)
31. Application to annex conditions or covenants to land .....	(Rule 40)
32. Certificate of ownership .....	(Rule 41)
33. Power of attorney .....	(Rule 45)
34. Affidavit where execution by power of attorney .....	(Rule 45)
35. Affidavit as to execution by a corporation .....	(Rule 47-2)
36. Transfer by sheriff .....	(Rule 48)
37. Affidavit of execution where transferor unmarried .....	(Rule 51-A)
38. Affidavit of execution where bar of dower .....	(Rule 51-B)
39. Statement on application to court .....	(Rule 70-1)
40. Surveyors certificate on plan .....	(Rule 75)

### FORM 1

#### *The Land Titles Act*

To—

(name of proper master of titles at ) A.B., of , being entitled for his own benefit to an estate in fee simple in the land in ,

containing by estimation acres and described in the schedule appended applies to be registered (or where applicable, to have registered in his stead C.D., of ) as owner of the land (or leasehold land) with (in the case of freehold land) a possessory title (or with an absolute title, or, in the case of leasehold land with or without a declaration of the lessor's title to grant the lease, as the case may be).

Subject to the following charges and incumbrances (if any):

The address of the said A.B., (and C.D. respectively) for service is at (if the application is made through a solicitor, give his office address).

Dated at this day of 19 .

(Signature of the applicant or his solicitor)

C.D. approves this application.  
(Signature of C.D.)

### FORM 2

#### *The Land Titles Act*

I, of make oath and say:

1. I am the absolute owner in fee simple in possession (or as the case may be, repeating the words of the application) of the land mentioned in my application.

2. There is no charge or other incumbrance affecting my title to the land (except, stating any incumbrances).

3. I am not aware of any claim adverse to or inconsistent with my own to any part of the land claimed by me or to any interest therein (except, specify the adverse claim, giving the name and address of the claimant if known, and stating how the claim arises).

4. The deeds, instruments and evidence of title which I produce in support of my application, set out in schedule 1, are all the title deeds, instruments and evidence of title relating to the land which are in my possession or power.

5. The title deeds and evidence of title relating to the land, set out in schedule 2, are in possession or power of (naming the person and giving his address).

6. I do not know where, or in whose possession or power, are the title deeds and evidence of title set out in schedule 3. (Here set out the facts showing the searches made for the missing deeds upon which it is intended to rely as sufficient to let in secondary evidence; and where there are no other title deeds, or evidence except as in schedule 1, so state and omit sections 5 and 6).

7. I am (or A.B. is and show under what claim of title) in possession of the



land, and to the best of my knowledge and belief possession has always accompanied the title under which I claim, since the year                      when one                      , through whom I claim, took possession, and prior thereto the land was in a state of nature (if possession has not always accompanied the title under which the petitioner claims, state the facts as to the actual possession).

8. I am now in actual occupation of the land (or if a tenant of the applicant is in occupation, state how he claims to hold and how he in fact holds; and if the tenancy is under an instrument in writing produce it; and if no person is in actual occupation so state).

9. To the best of my knowledge, information and belief this affidavit discloses all facts material to my title.

10. There are no arrears of taxes against the land, (or according to the fact) nor has the land been sold for taxes during the past eighteen months, nor under execution during the past six months, and I do not know of any writ of execution in the hands of the sheriff against me, or affecting the land.

11. To the best of my knowledge, information and belief, no person has any right of way, or of entry, or of damming back water, or of overflowing, or of placing or maintaining any erection, or of preventing the placing or maintaining any erection on, in, to or over the land, (except, giving the names and addresses of any person having any easement or right, and stating the particulars and nature thereof); and the land is not subject to any right of way or to any other easement or other dominant right.

12. The land is not worth more than \$                      , including the buildings and fixtures thereon, and the buildings and fixtures are worth at least \$                      (Where more than one parcel is included in the application, give the value of each parcel).

13. I am married, and the name of my wife is (or I am not married); and we are each 21 years of age or over (as the case may be).

Sworn, etc.

FORM 3

*The Land Titles Act*

In the matter of (give a short description of the land).

Notice is hereby given that A.B. has made an application to the proper master of titles at                      for a certificate of title to this land of which he claims to be the owner in fee simple free from all incumbrances (except                      ).

Wherefore any other person having or claiming to have any title to or interest in the land or any part thereof is required on or before the                      day of                      19                      to file a statement of his claim in my office at the City of Toronto, and to serve a copy on A.B. (or on J.H. of                      , solicitor for the applicant).

The address of A.B. for service is

Dated at                      this                      day of                      19                      .

(Master of Titles)

FORM 4

*The Land Titles Act*

In the matter of the application of A.B.— and in the matter of (give a short description of the land) .

I, C.D. of                      make oath and say:

1. The advertisement of which a duplicate is annexed and marked A, was published in the issues of THE ONTARIO GAZETTE of the                      and                      days of                      19                      .

2. The advertisement of which a duplicate is annexed and marked B, was published in the issue of the (name of newspaper) of the                      day of                      19                      .

Sworn,

FORM 5

*The Land Titles Act*

To E.F.

In the matter of (give a short description of the land).

Take notice that A.B. of                      , has made an application to be registered under this Act, as the owner in fee simple with an absolute title of this land, and take notice that if you claim any interest therein you shall file your claim in writing stating the particulars thereof verified by affidavit in my office at the City of Toronto on or before the                      day of                      and shall serve a copy on A.B., at (give address for service or on J.H., of                      , solicitor for A.B.).

I have directed this notice to be served upon you because (state reason why notice is given).

Given under my hand this                      day of                      19                      .

(Master of Titles)

FORM 6

*The Land Titles Act*

To                      (the proper master of title at                      )

I, A.B., of                      , have such an interest in the land herein described as entitles me to object to any disposition thereof

being made without my consent, and I am entitled to notice of any application that may be made for the registration of the land.

The following is a description of the land;

My address for service is

Dated at this day of 19 .  
(Signature of cautioner)

FORM 7

*The Lands Titles Act*

I, A.B., of , make oath and say as follows:

My interest in the land described in the above (or annexed) caution entitles me to object to any disposition of the land being made without my consent, and the nature of my interest is as follows:

Sworn,

FORM 8

*The Land Titles Act*

To

Take notice that C.D., of , has applied to be registered (or to have registered in his stead E.E., of ,) as owner of the land in the of , in the , affected by the caution dated the day of , 19 , lodged by you in the office of land titles at ; and if you intend to oppose the registration, you are to attend either in person or by your solicitor or counsel for that purpose before me at my office on the day of 19 , at o'clock in the noon.

(Signature of proper master)

FORM 9

*The Land Titles Act*

To the sheriff of  
Take notice that I have entered of the patentee as owner of land in your bailiwick.

Dated at the day of 19 .  
(Signature

Local Master of Titles at )

FORM 10

*The Land Titles Act*

To

(the proper master of titles at )

I, A.B., of , being interested in the land registered in the name of G.H., as parcel in the register for (or in the charge registered as num-

ber , in the name of E., of , as owner and being on parcel ) require that no dealing with the land (or charge) be had on the part of the registered owner (or other named person who is shown to have an interest in the land) until notice has been served upon me.

My address for service is

Dated at this day of 19 .  
(Signature of cautioner)

FORM 11

*The Land Titles Act*

I, A.B., of , make oath and say as follows:

I am interested in the land (or charge) mentioned in the above (or annexed) caution and the particulars of my interest are as follows:

Sworn,

(NOTE—see section 74 as to the power of an agent or solicitor to make this affidavit).

FORM 12

*The Lands Titles Act*

To

Take notice that the caution registered by you in the office of land titles at , on the day of 19 , as number , requiring that no dealing with the land (or charge) registered in the name of should be had on the part of the registered owner until notice has been served upon you, will cease to have any effect after the expiration of days after this notice is served.

And I appoint the day after service hereof at my office, at 11 o'clock a.m., to hear the parties interested.

And I direct that this notice, with proof of service thereof, be filed with me before the day after service, and in case it is not filed, I do order that the caution shall not cease to have effect until the expiration of days from the filing of the notice and the proof.

(Signature of proper master)

FORM 13

*The Land Titles Act*

To

(the proper master of titles at )

I, A.B., of , the cautioner, named in a caution number in respect of the land registered as parcel in the register for , (or in respect of a charge registered as number , and being on parcel ,) hereby

authorize you to enter in the register a cessation of the caution.

Dated at the day of 19.

Witness:

E.F.

(Signature of A.B. or the solicitor)

FORM 14

*The Land Titles Act*

I, E.F., of , a solicitor of the Supreme Court of Ontario make oath and say:—

1. I am well acquainted with A.B. named in the above withdrawal of caution, and saw him sign the document, and the signature purporting to be his signature at the foot of the document is in his handwriting.

2. I believe A.B. to be the person who registered the caution referred to in the document.

3. A.B. is of the age of 21 years or over and is of sound mind and signed the document voluntarily at .

I am a subscribing witness to the document.

Sworn,

(Signature of solicitor)

FORM 15

*The Land Titles Act*

To

(the proper master of titles at )

A.B., the registered owner (or the transferee of C.D. the registered owner) of the land registered as parcel in the register of land titles for in the name of A.B. (or C.D.) applies for a notice to be served terminating caution number registered by E.G.

This application is made upon the following grounds;

The address of A.B. for service is .

Dated at this day of 19 .

(Signature of A.B. or his solicitor)

FORM 16

*The Land Titles Act*

To

(the proper master of titles at )

C.D., of , being interested in the land registered in the office of land titles at , in the name of as parcel number in the register for , (or in charge number registered the day

of 19 , in the name of ) hereby requests you to issue an order or make an entry inhibiting any dealing with the land (or charge) under section 80 of the Act.

In support of this application is the affidavit of the applicant or his solicitor filed.

The address of C.D. for service is .

Dated at this day of 19 .

(Signature of C.D. or his solicitor)

FORM 17

*The Land Titles Act*

I, A.B., the registered owner of the land entered in the office of land titles at , as parcel in the register for , in consideration of paid to me, charge the land with the payment to C.D., of , on the day of 19 , at the principal sum of dollars with interest at the rate of per cent per annum, and with a power of sale to be exercised after default, and month's subsequent notice of the intention to sell (as the case may be and add any covenants agreed to and not implied under the Act or otherwise).

I, E.B., wife of A.B., hereby bar my dower in the land.

This charge is made in pursuance of *The Mortgages Act* and *The Short Forms of Mortgages Act* (where it is desired to operate under either or both of those Acts).

Dated at this day of 19 .

(Signatures of A.B. and E.B.)

Witness:

X.Y.

FORM 18

*The Land Titles Act*

I, C.D., the registered owner of the charge dated the day of 19, made by A.B., and numbered charging the land registered as parcel , in consideration of , paid to me, transfer that charge to E.F., of as owner.

(Where the charge is transferred upon an agreement to re-transfer it upon the payment of a sum of money or upon the performance of any other conditions insert:

E.F., hereby agrees that he will, upon payment to him of the sum of \$ on the day of 19 , with interest thereon at per cent from the day of 19 , re-transfer the charge to C.D.)

Dated at the day of 19 .  
(Signature)

Witness:  
X.Y.

FORM 19

*The Land Titles Act*

I, A.B., the registered owner of charge number entered in the register of parcel number at , made by C.D., to me, (or to E.F., and transferred to me) hereby postpone the charge to charge number made by C.D., to G.H.

Dated this day of 19 .  
(Signature of registered owner of charge)

Witness:  
X.Y.

FORM 20

*The Land Titles Act*

To  
(the proper master of titles at )

I, A.B., of , the registered owner of the charge made by C.D. to me, (or to E.G. and transferred to me) dated , and registered as number on the land (or part of the land) registered in the office of land titles at as parcel in the register for . hereby request you to notify on the register the cessation of the charge.

(or I hereby request you to notify on the register the cessation of the charge as to the following land:)

Dated at this day of 19 .  
(Signature)

Witness:  
G.H.

FORM 21

*The Land Titles Act*

A.B., the registered owner of the land entered in the register for as parcel number requests the master to notify on the register the cessation of the charge made by the said A.B., dated the day of and numbered and now appearing as an incumbrance upon the land, the charge having been paid off and satisfied, as appears by the receipts and affidavits of C.D. and E.F. filed herewith.

Dated at the day of 19 .  
(Signature of A.B. or his solicitor)

FORM 22

*The Land Titles Act*

I, A.B., the registered owner of the freehold (or leasehold land) registered as parcel number at in con-

sideration of dollars paid to me, transfer to C.D., of , the land described as follows: (where the bar of dower necessary add): being the whole (or part) of the parcel.

And I, E.B., wife of A.B., hereby bar my dower in the land (where bar of dower is necessary).

Dated at the day of 19 .  
(Signatures)

Witness:

FORM 23

*The Lands Titles Act*

I, A.B., above (or within) named make oath and say, that I am unmarried, and am of the age of 21 years or over (or where applicable: I, A.B., above (or within) named make oath and say: C.B. who executed the above (or within) instrument is my wife and that we are each of the age of 21 years or over).

Sworn,

FORM 24

*The Land Titles Act*

To  
(the proper master of titles at )

A.B., the registered owner of the leasehold land registered as parcel number in the register for at and C.D., of the transferee named in the instrument of transfer dated the day of 19 , and lodged herewith, request you to make an entry on the register as in the following: (here state the implied covenants to be negative).

Dated at the day of 19 .  
(Signature of transferor and transferee)

Witness:

FORM 25

*The Land Titles Act*

To  
(the proper master of titles at )

A.B., the registered owner of the land entered in the register for at as parcel number died on the day of , 19 .

C.D., of , being interested in the land, applies to be registered (or to have E.F., of , registered) as owner of the land, as executor (or administrator as the case may be).

(State shortly the fact of any person having become entitled, and in case the registered owner died intestate as to the land, add a clause as in the following:

1. A.B. died intestate and a widower and left him surviving the following

children who are his next of kin, namely :  
C.B., D.B., and G.F., wife of H.F.

2. No other child of A.B. survived him and no child of A.B. predeceased him, leaving issue).

The evidence in support of this application consists of letters probate (or letters of administration) and the affidavits of the applicant and his solicitor.

The address of C.D. is .

Dated at the day of 19 .

(Signature of C.D. or his  
solicitor)

FORM 26

*The Land Titles Act*

A.B., the registered owner of the leasehold land registered as parcel number at (or charge number dated the day of 19 ), died on day of 19 .

C.D., of , is entitled to the leasehold land (or charge) and applies to be registered as the owner thereof.

(State shortly the facts which confer title).

The evidence in support of this application consists of the affidavit of the applicant and his solicitor and the letters probate (or letters of administration).

The address of C.D. is .

Dated at the day of 19 .

(Signature of C.D., or his  
solicitor)

FORM 27

*The Land Titles Act*

C.D., of , being entitled to an estate in dower (or by the curtesy), in the land registered as parcel number at in the register for , of which land A.B. is the registered owner, applies to have notice of the estate entered on the register

The existing rights of the several persons interested in the land are stated in the affidavits of C.D. and of G.H., the solicitor of C.D., filed herewith, and the other evidence in support of this application left herewith.

The address of C.D., for service is .

Dated at this day of 19 .

(Signature of C.D. or his  
solicitor)

FORM 28

*The Land Titles Act*

I, A.B., of , make oath and say:

1. I am the administrator of C.D., formerly of .

2. That C.D. was the registered owner of parcel number at and died on or about the day of 19 , intestate.

3. Here give the name of widow or widower and the name, address, and age of any child or issue of a deceased child who survived the intestate, and if none then of the next of kin.

Sworn,

FORM 29

*The Land Titles Act*

To

(the proper master of titles at )

C.D., of , being interested in the land entered in the register for as parcel number , of which A.B. is the registered owner, by reason of the lease (or agreement for a lease) produced herewith, applies to you to register notice of the lease (or agreement).

A.B., the registered owner of the land, concurs in this application (when that is the fact).

The address of C.D. for service is .

Dated at the day of 19 .

(Signatures)

Witness:

FORM 30

*The Land Titles Act*

I, of the of the registered owner of the leasehold land registered in the office of land titles at as parcel number in the register for in consideration of the sum of dollars paid to me, transfer to of , the land described as follows: being the whole of the parcel for the residue of the term and all rights of renewal and other privileges contained therein.

Dated at this day of 19 .

Witness:

I consent to this transfer

.....  
Deputy Minister  
(or as the case may be)

## FORM 31

*The Land Titles Act*

To \_\_\_\_\_  
(the proper master of titles at \_\_\_\_\_)

A.B., of \_\_\_\_\_, the registered owner of the land entered in the register as parcel number \_\_\_\_\_ at \_\_\_\_\_, requests the proper master of titles to register as annexed to the land the conditions (or covenants), a copy of which is lodged herewith.

Dated at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_ 19 \_\_\_\_\_  
(Signature of A.B.)

Witness:

## FORM 32

*The Land Titles Act*

This is to certify that A.B. is the owner (in terms of the entry in the register).

## FORM 33

*The Land Titles Act*

I, A.B., do appoint C.D., my attorney to transfer to E.F. absolutely (or to charge), all my lands as entered and described in the register in the office of lands titles at \_\_\_\_\_ as parcel number \_\_\_\_\_.

Dated at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_ 19 \_\_\_\_\_  
(Signature of A.B.)

Witness:

NOTE: Where it is desired to exercise a power under *The Powers of Attorney Act* insert an appropriate clause.

## FORM 34

*The Land Titles Act*

I, C.D., of \_\_\_\_\_, make oath and say:

1. That I am the attorney for A.B.

2. That the power of attorney under which I executed the within (or above) instrument on behalf of A.B., is unrevoked and in full force.

Sworn,

## FORM 35

*The Land Titles Act*

I, E.F., of \_\_\_\_\_, make oath and say:

1. I am the secretary of (name of company).

2. A.B. whose signature is affixed to the annexed (or within) document is the president of the Company, and C.D. whose signature is also affixed thereto is

the manager thereof (as the case may be), and the seal affixed thereto is the corporate seal of the Company.

3. Under the by-laws of the Company the president and manager are empowered to execute on behalf of the Company all deeds and other instruments requiring the seal of the Company.

4. I am well acquainted with A.B. and C.D., and saw them execute the document and I am a subscribing witness thereto.

5. The Company is, I verily believe, the owner of the land (or charge) mentioned in the document.

Sworn,

NOTE: If the officers executing are not authorized by by-law then state how they are authorized, and where an officer is the witness, one of the officers may make an affidavit as to the facts in section 1, 2 and 3 and the witness may make an affidavit as to the facts in sections 4 and 5.

## FORM 36

*The Land Titles Act*

I, \_\_\_\_\_, sheriff of \_\_\_\_\_, under a writ of fieri facias, tested the \_\_\_\_\_ day of \_\_\_\_\_, and issued out of the (insert name of court) in an action wherein \_\_\_\_\_ is the plaintiff, and \_\_\_\_\_ the defendant, whereby I was required to levy of the lands and tenements of the defendant certain money and who is registered owner of the freehold (or leasehold) land hereinafter described, subject to the exceptions, qualifications, mortgages and incumbrances noted in the parcel register, in consideration of the sum of \_\_\_\_\_ dollars paid to me, by E.F., of \_\_\_\_\_, transfer to E.F. all that parcel of freehold or leasehold land (here insert a sufficient description of the land and refer to the number of the parcel and section under which the property is registered).

Dated at \_\_\_\_\_ the \_\_\_\_\_ day of \_\_\_\_\_ 19 \_\_\_\_\_  
(Signature)

Witness:

NOTE: (Where the transfer is of leasehold land add: subject to an entry to be made on the register negating an implied covenant on the part of the sheriff under section 52 of the Act).

## FORM 37

*The Land Titles Act*

I, G.G., of \_\_\_\_\_, solicitor for \_\_\_\_\_ make oath and say:

1. I am well acquainted with A.B. named in the within document and saw

him sign the document, and the signature purporting to be his signature at the foot of the document is in his handwriting.

(When signed by mark (or by a blind person) substitute for \_\_\_\_\_ Number 1).

I am well acquainted with A.B. named in the within document and saw him sign the document by making his mark thereto in my presence, after the document had first been read over and explained to him who appeared fully to understand the document.

(When signed in characters other than Roman substitute for Number 1).

I am well acquainted with A.B. named in the within document and saw him sign the document in \_\_\_\_\_ (inserting whatever the characters may be, after the document had been read over and fully explained in \_\_\_\_\_ to him who appeared fully to understand the document.

I understand and can read both English and \_\_\_\_\_ languages, and know that the characters subscribed as the signature of A.B. at the foot of the document are equivalent to the name A.B. in English.

(When signed by an attorney substitute for Number 1).

I am well acquainted with C.D. of \_\_\_\_\_, the attorney for A.B. named in the within document, and saw him sign the within document as attorney, and the signature is in the handwriting of the attorney.

2. A.B. is as I verily believe the owner of the land within mentioned.

3. A.B. is of the age of 21 years or over; he is reputed to be, and as I believe is, unmarried; he is of sound mind and signed the document voluntarily at

4. I am a subscribing witness to the document.  
Sworn.

FORM 38

*The Land Titles Act*

I, G.H., of \_\_\_\_\_, solicitor for \_\_\_\_\_ make oath and say:

1. I am well acquainted with A.B. and C.B., named in the within document, and saw them sign the document, and the signatures purporting to be their signatures at the foot of the document are in their respective handwriting. (Use form 37 for substitutes for this paragraph where applicable).

2. A.B. is, as I verily believe, the owner of the land within mentioned, and C.B. is reputed to be, and is, as I verily believe, his wife.

3. A.B. and C.B. are each of the age of 21 years or over, are each of sound mind and signed the document voluntarily at

4. I am a subscribing witness to the document.

Sworn,

FORM 39

In the matter of *The Land Titles Act* and

In the matter of the application by A.B. for registration.

The Master of Titles at Toronto hereby humbly refers under section \_\_\_\_\_ of the Act the following matter to the Court:

(Here state briefly the difficulty which has arisen).

The parties interested, so far as the Master of Titles knows or has been informed, are:

Dated at Toronto this \_\_\_\_\_ day of \_\_\_\_\_ 19 \_\_\_\_\_

(Signature of Master of Titles)

FORM 40

*The Land Titles Act*

CERTIFICATE OF AN ONTARIO LAND SURVEYOR

I, (name in full), an Ontario Land Surveyor, certify that,—

(a) I was present at and did personally superintend the survey represented by this plan;

(b) this plan accurately shows the manner in which the land (or part of the land) (edged in red) entered in the office of Land Titles at \_\_\_\_\_ as Parcel number \_\_\_\_\_ in the register for \_\_\_\_\_, and being (give township lot and concession), has been surveyed and subdivided by me;

(c) every angle of the exterior boundary of the plan is defined in the survey thereof by a monument and a monument is placed at one angle of each street intersection shown on the plan;

(d) I have indicated on the plan the position and form of each of the monuments;

(e) the monuments conform in all respects to requirements of section 13 of *The Survey's Act*;

(f) the survey was made by me between the \_\_\_\_\_ day of \_\_\_\_\_ and the \_\_\_\_\_ day of \_\_\_\_\_; and

(g) the survey has been accurately made in accordance with all the provisions of *The Surveys Act* and *The Land Titles Act* relating thereto.

Dated at the day of  
 (Signature)  
 Ontario Land Surveyor

I, (name in full) of the of ,  
 the Ontario Land Surveyor above-named, make oath and say that the contents of this certificate are true.

Sworn,

7. For every appointment ..... .30  
 Each folio after the first ..... .20  
 8. For special proceedings, an hour or part thereof ..... 2.00  
 9. For administering oath ..... .20  
 10. For marking exhibit ..... .20  
 11. For returning documents of title deposited in support of application, on its withdrawal ..... .50  
 12. Where application for first registration is withdrawn, refused or abandoned, such amount not exceeding the fees in item 1 as the master considers reasonable.  
 13. Application to continue proceedings for first registration upon death or change of interest ..... 2.00

SCHEDULE 1

FIRST REGISTRATION

1.

Values of Property	Pos- sess- ory Title	Absolute or qualified title		
		Absolute where or quali- fied title	where examined in- stru- ments 10 or exceed under The Limita- tions Act	where examined in- stru- ments 10 or exceed under The Limita- tions Act
Where value \$2,000 or under	\$6	\$ 6	\$ 9	
Where value over \$2,000 and not over \$4,000	6	8	12	
Where value over \$4,000 and not over \$10,000	6	10	20	
Where value over \$10,000 and not over \$20,000	6	12	25	
Where value over \$20,000 and not over \$40,000	7	15	30	
Where value over \$40,000 and not over \$50,000	8	20	40	
Where value over \$50,000	8	20	50	

2. Where more than one property is included in one application, or where the titles are substantially different, the fees in item 1 shall be payable as if the registration of the properties had been applied for separately and where the fees chargeable would be in the opinion of the master of titles at Toronto unduly excessive, he may fix a smaller sum.

3. Additional fees shall be charged where oral depositions are taken or notices served upon persons appearing to have adverse claims or where there is a contest and also all disbursements of the master.

4. For entering and filing objection .....\$0.50

5. For every order summons or notice ..... .60  
 Each folio over 3 ..... .20

6. For comparing and authenticat- ing with office stamp copies of notices, every 3 folios ..... .05

FOR REGISTRATION OF DEALINGS

14. Under transfer, charge or other instrument (except where otherwise specified), including search on the parcel at the time of registration..... 3.00  
 Where the instrument including affidavits, is more than 10 folios, each additional folio ..... .10  
 Where the instrument affects more parcels than one, for each parcel after the first ..... .50  
 Where the instrument affects more parcels than three, for each parcel after the third ..... 1.00  
 These fees include certifying the duplicate of a charge or a charge-transfer, when lodged with the charge or transfer.  
 Where by the transfer minerals are severed from the surface additional ..... 1.00  
 Where the additional entries neces- sitated by the severance are more than 5 folios, per folio ..... .20  
 Where distinct lands held by dif- ferent owners are included in one instrument, or separate transfers are made to different transferees, the charges shall be as for separate in- struments.  
 Where the number of the existing parcel is not given, such searches as are necessary to ascertain the parcel or parcels affected, each parcel ..... .30  
 Where documents are sent for reg- istration by mail, each document ..... .20  
 15. Under transfer of charge, in- cluding search ..... 2.00  
 For each parcel after the first ..... .50  
 16. Where under *The Devolution of Estates Act* the concurrence of any person is required ..... .50  
 17. Examination of evidence to as- certain if the concurrence of the pro- per persons is lodged where such concurrence is lodged subsequent to the entry of transmission ..... 1.00  
 Where land is not worth more than \$500 ..... No charge





or not to incumbrances without setting them out, where not more than one folio, including search .....	1.00	60. Hearing application for a duplicate certificate of ownership where original is lost or mislaid .....	1.00
Each additional folio .....	.20	61. For hearing special application, an hour or part thereof .....	2.00
45. Certificate of search of a title of any parcel, including search in execution book, where not more than three folios .....	3.00	62. For each filing upon a special application .....	.10
Each additional folio .....	.20	63. Re-entry to consolidate lands; each parcel re-entered .....	1.00
45. For a copy or extract from any document filed or registered, per folio .....	.10	64. On account of closing of a street each entry of ownership .....	1.00
Certifying .....	.50	For a by-law changing the name of a street .....	1.00
47. For certifying a copy of a document where the copy is not made in the office, per folio .....	.10	Where the by-law covers more than one street, each additional street .....	.20
Minimum charge .....	.50	65. For instrument entry in the companies register .....	2.00
For comparing probate of will, letters of administration, charter or other document with a copy to be left in the office, per folio .....	.05	66. For subsequent change of name of a company .....	1.00
48. Each certificate by the master, where not otherwise specified, where not more than one folio .....	.50	67. Where an instrument is received by mail but on account of a defect in the description or proof of execution, or for some other reason cannot be registered letter explaining, besides necessary searches and postage .....	.50
Each additional folio .....	.20	68. For a proceeding upon a special application after the first registration the same fee shall be payable as is payable for a similar proceeding on an application for first entry of ownership.	
49. Where copies of tax notices are prepared in the office, including marking as office copies, per folio .....	.10	69. For similar proceedings to those herein otherwise provided for, the same fee. Where no similar proceeding the same fee as would be payable for proceedings in court but where the proceeding is similar to one under <i>The Registry Act</i> , the same fee as under that Act.	
50. For search on any one parcel .....	.30	70. Entry of ownership under foreclosure .....	4.00
51. Search where the number of the parcel is given .....	.20	Each parcel after the first .....	.50
Each volume examined .....	.20	71. Where a revised description is applied for, or is necessary before a certificate of ownership can be issued.	
52. For exhibiting plan .....	.10	For description .....	1.00
53. To inspect original instrument where applicant entitled .....	.30	Where more than three folios, each additional folio .....	.20
54. For search in execution index.		72. Where a master deems it advisable upon first registration, or subsequently, to enter lands in more parcels than one, each parcel after first .....	1.00
Each name .....	.20	(563)	13
55. For search in bankruptcy index.			
Each name .....	.25		
56. Search of alphabetical index.			
Each name .....	.20		
Where search goes back more than two years.			
Each prior year, each name .....	.10		
57. Search index of first registrations.			
Each lot .....	.20		
58. Where land or a charge, which is not owned by person assuming to transfer or charge the same is included in any transfer or charge. All searches necessary to ascertain the facts in accordance with this schedule.			
59. For inspection during application of any documents retained on land, being brought under this act.....	1.00		

**Recent Legislation**

and

**Rules**

The attention of all officials is directed to the following legislation passed in 1947:

The Children's Protection Amendment Act, 1947, chapter 13, which became effective on June 1, 1947.

The Coroners' Amendment Act, 1947, chapter 18, which increases the fees of a medical witness.

The County Courts Amendment Act, 1947, chapter 20, which increases the salary of the County Court Clerk for attendance at sittings of the court.

The County Judges Amendment Act, 1947, chapter 21, which provides for a percentage of Judge's fees payable in law stamps to the Surrogate Court Judge of the County or District on a yearly basis.

The Crown Attorneys Amendment Act, 1947, chapter 23, which increases the fees of the Crown Attorney on appeals from Magistrates.

The Highway Traffic Amendment Act, 1947, chapter 45, particularly Part 13A.

The Jurors Amendment Act, 1947, chapter 52, which deals with the number of jurors to be summoned in certain Counties and increases the per diem rate payable to the juror, as well as the mileage rate.

The Juvenile and Family Court Amendment Act, 1947, chapter 53, particularly clauses dealing with the expenses of the court.

The Planning Amendment Act, 1947, chapter 75.

The Police Amendment Act, 1947, chapter 77, and in connection with this, see also section 7 of the Statute Law Amendment Act, Number 2, 1947.

The Public Service Act, 1947, chapter 89, which became effective March 1st, 1948.

The Registry Amendment Act, 1947, chapter 95, which increases some of the fees on registration of documents, and in this connection, see the clauses in the Statute Law Amendment Act, chapter 101, 1947, sections 15 and 17, and see section 12, chapter 101, and section 4 of chapter 102, which deal with changes under the Land Titles Act. Section 6 of the same Statute dealing with changes under the Partnership Registration Act.

The Surrogate Courts Amendment Act, 1947, chapter 105, dealing with contested claims and jurisdiction.

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# SIXTY-FIRST ANNUAL REPORT

OF THE

# Niagara Parks Commission

# 1947

PRINTED BY ORDER OF  
THE LEGISLATIVE ASSEMBLY OF ONTARIO  
SESSIONAL PAPER No. 6, 1948



TORONTO

Printed and Published by Baptist Johnston, Printer to the King's Most Excellent Majesty  
1948





**THE NIAGARA PARKS COMMISSION**

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HON. CHARLES DALEY, Chairman, Toronto  
FRED M. CAIRNS, Vice-Chairman, Niagara Falls  
WM. B. ROLLASON, St. Catharines  
HAROLD G. FOX, K.C., Ph.D., St. Catharines  
T. H. LEWIS, Welland  
T. F. FORESTELL, K.C., Fort Erie  
CECIL SECORD, Grantham Township  
GEORGE R. INGLIS, Niagara Falls

---

GENERAL MANAGER AND SECRETARY

MAXIM T. GRAY, O.L.S.



# SIXTY-FIRST ANNUAL REPORT

OF THE

# Niagara Parks Commission

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TO THE HONOURABLE RAY LAWSON, O.B.E.,  
Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

The Niagara Parks Commission begs to submit for the information of the Ontario Legislature, the Sixty-First Annual Report, covering the fiscal year ending October 31, 1947.

One change occurred in the personnel of the Commission during the above period. Commissioner T. F. Forestell, K.C., was appointed Crown Attorney for the County of Welland and submitted his resignation to the Commission on November 16, 1946. This was accepted (to take effect on December 31st) after an expression of appreciation for the able services of Mr. Forestell, during his term of office. The Provincial Government appointed Mr. Carl D. Hanniwell, M.L.A., to succeed Mr. Forestell as a member of the Commission. Mr. Hanniwell was Alderman for the City of Niagara Falls during 1934, 1935 and 1936, Mayor of the City during 1937, 1938 and 1939, and has represented Niagara Falls riding in the Provincial Legislature since June, 1945.

The Commission continued under the Chairmanship of the Honourable Charles Daley, Minister of Labour for the Province of Ontario.

The fiscal year under review in this report, from the standpoint of numbers of visitors to the Park system and the use by them of Park facilities, was the busiest year in the history of Niagara Parks. Relieved of the fetters of wartime travel restrictions, visitors from both the United States and Canada visited Niagara Falls and Ontario's Niagara Parks in great numbers. No doubt, a large proportion of these consisted of a new generation of people, grown up during the war years, who were visitors to Niagara Falls and to the Province of Ontario for the first time. At practically all of the eight places of business operated directly by the Commission, revenues during this year exceeded those for the previous year, which was a record breaker. This was and is to be expected. After all, the population of the United States has increased considerably in the last ten years. Then, again, the general public is more "travel minded" than heretofore. Another point affecting travel from the United States is that schools and school organizations sponsor and direct many tours for students. Ontario, particularly the Niagara Falls area, is a tremendous magnet for travel tours of this nature. On one or two occasions, the Commission provided area and facilities for an overnight bivouac for these parties, all under careful supervision.

All of this, besides affording your Commission considerable general satisfaction, justifying in a great degree the effort put forward to maintain the Park at a high standard and to provide facilities for the comfort of visitors, also provides the Commission with substantial funds for Park maintenance and improvement. The extent of these funds, being the net revenue from the operation of our various stores, scenic attractions and restaurants, is shown in the financial statement attached hereto. It is not the major portion of the Commission's revenues, but it is considerable. Keeping pace, to some extent, with increases in revenues are increases in costs of general park maintenance, which are also reflected in the financial statement.

The Commission provided free band concerts again, this year. There were thirteen, in all. Included in these were two concerts provided by the Welland Citizens' Band, three by the Lincoln and Welland Regimental Band from St. Catharines, and two by the Canadian Legion Band from Fort Erie. The balance of the concerts were provided by the Niagara Falls Kiltie Band.

## PARK GUIDES

For many years, the Commission has given permission to certain individuals to act as guides for Park visitors and to solicit patronage of that nature. It came to the attention of the Commission that this privilege was being abused, in many cases, and the Commission decided that this enterprise, while providing to an extent a public service, was too difficult to control. The Commission decided to formally suspend this particular privilege, but to allow City licensed guides to escort visitors through or about the Park, if they also obtained a license from the Commission. Consideration of this matter of guides had some influence on the Commission's decision to erect a suitable building at the foot of Clifton Hill, where Park literature and information and advice to Park visitors might be given out under dignified conditions. Mention will be made of this, later.

## AGREEMENTS

An agreement was entered into between Blue Water Airways, Limited and the Commission, giving the Company permission to construct certain buildings and docks and to operate an air harbour at the Shipyards area, just south of Miller's Creek. The agreement was of a temporary nature, terminable at the end of the calendar year, 1947, at which time, the Commission can terminate the agreement if not satisfied with the operation and the Company must then remove all buildings, dock, etc., and restore the property to its original condition, at no expense whatever to the Commission.

An agreement was also entered into during the year, with the Town of Fort Erie, covering construction and maintenance of the boulevard through the Town and the removal of snow and the sanding of same, the main provisions being that the Commission will construct and maintain the roadway and sidewalks where and when necessary and the Town will remove the snow and sand where and when necessary.

The Commission had prepared an amendment to the Park regulations covering (a) the speed limit of motor vehicles through the Park and (b) the matter of permits for trucks desiring to travel over the Boulevard.

Several capital projects, some of a major and some of a minor nature, were undertaken during the year.

At Queenston Restaurant, some additional work was done on the inside to complete the work of enlarging the kitchen, consisting of the ceiling, painting and electrical wiring. The steam table was equipped with a new and larger electrical element. A new, wooden dish table was installed. An opening was made from the pantry to the dining room to facilitate service. A wire partition was installed in the basement so that stores could be locked up. A shower was installed in the men's lavatory in the basement and a new dressing room, with sanitary facilities, was installed in the basement, for the female employees. The service yard at the rear was enlarged and paved with crushed stone. A drinking fountain was installed in the Park to replace an old pump. Some re-arranging of equipment was done at the pavilion.

At Niagara Glen work was commenced on construction of an eighteen-hole golf course. A more detailed description will be found in the report of the Horticultural Department. There is an area here on the westerly side of the boulevard—between the boulevard and the Queenston power canal, bounded on the south by the Whirlpool road and on the north by the Gardeners' School property, which consists of approximately one hundred and fifty acres. It is quite rolling and has been looked on, for many years, as a logical site for a golf course. The property has been maintained in an ordinary way and your Commission decided that the additional cost of maintaining a golf course would not be exorbitant. As well, it will provide an important recreational feature and make the property accessible to the public. Stanley Thompson, well known golf architect, was retained to design the route plan and detail plans of the individual greens and tees and, having these, the intention is to do the construction work with our own forces. Time is not the essence of the matter and it is expected that two or three years will be required to complete the course.



Administration Building



Mather Arch at Fort Erie

## NEW PRINCESS ELIZABETH BUILDING

Work on the construction of this building commenced on October 1st. It is located at the northerly end of Queen Victoria Park, at the foot of Clifton Hill and practically at the head of the Incline Railway, which carries passengers to the Maid-of-the-Mist steamers. Care was taken in selecting the site to insure that the building would not interfere with a clear view of both cataracts from the Oakes Garden Theatre. Also, it is of a minimum height for the same reason. The Commission has operated, for several years, a small refreshment stand in the Incline Railway building, below ground. Park information and postcards, etc. have been dispensed in a tent at this point in the Park, all under rather crude conditions. This location is definitely a focal point in Niagara Parks. Toilet facilities have been desperately needed here. In the new building, there will be public toilets in the basement, a refreshment bar and souvenirs on the main floor, and a ticket booth for the Incline Railway and Maid-of-the-Mist tickets on the main floor. The new building will also be a headquarters for the issuing of Park literature and general information for Ontario visitors in collaboration with the Department of Travel and Publicity for the Province. It is expected that the building will be completed by May 1st, 1948.

At the request of the Commission, the Maid-of-the-Mist Company installed a drinking fountain and sanitary facilities on its leased dockage area.

The Commission also extended the Incline Railway building at the top of the bank, in order to provide cover accommodation for the incline railway cars, which now must stop at a more advanced point, due to complying with certain mechanical safety devices, installed upon the recommendation of the inspectors for the Ontario Department of Labour.

At the Park Restaurant, a new high pressure steam boiler, to supply steam for the laundry, was authorized and installation is presently taking place. This installation will eliminate the necessity of operating the low pressure heating boiler during the summer months.

The area under the building housing the female help was not excavated in the original construction. This resulted in an extremely damp condition affecting the first floor so that the first floor was not usable for dwelling purposes. Again, storage space for restaurant supplies was badly needed. Your Commission authorized the excavation of this area and this rather awkward work was carried out during the 1946-47 winter season by our own forces. It is a vast improvement. The intention is to install a furnace to provide separate heat for this building, in order to finally overcome this damp condition. A new Thermo-tainer unit was purchased for the cafeteria, in order to store prepared food from the kitchen above, to handle rush hours in the operation of the cafeteria.

In connection with the Park Restaurant, your Commission is investigating plans to remodel, in a major way, the restaurant areas, both in the cafeteria, where the major volume of business is done, and in the main dining areas above. To date, no decision has been reached as to ultimate plans. One of the main considerations is the necessity of providing more adequate public toilet facilities. In the present building space is not available for this. In addition to the restaurant patrons, there are the other vast numbers to be considered, including the patrons of the picnic grounds which are hard by.

At Fort Erie the bathing beach area at the northerly end of Mather Park was improved. Construction of a stone jetty was commenced. Improvement of the area has led to an extensive increase in its use by the public, so much so that the Commission employed during the summer season, a full-time police officer to maintain security and to enforce the Park regulations. A request was received from the local authorities for a lease of the area so that the beach could be operated by the Fort Erie Kinsmen Club and policed by the Fort Erie police, but the Commission refused this.

Mention has been made in previous reports of the earth fill operations at the southerly end of Mather Park, where it adjoins Old Fort Erie Park. This work has now been completed and rough grading for the road diversions here has been done. There remains now the completion of the stone parapet wall on top of the sea wall. The intention is to complete this during the 1948 season, with our own forces. Funds used for this work, earth fill and parapet wall, will come from the Mather Legacy funds.



Pergola, Oakes Garden Theatre



Whirlpool Rapids and Lower Arch Bridge

The property at the junction of the Dominion Boulevard and the Boulevard, directly across from Old Fort Erie, consisting of approximately two acres, was graded and seeded. This was also done with the three-acre parcel at the junction of Garrison Road and the Boulevard so that these two properties are now in shape to be properly maintained.

The custodian's dwelling over the pavilion at Old Fort Erie was altered to provide two small bedrooms, instead of just one. This work as of the end of this fiscal year, is proceeding.

At the greenhouses, the mower repair building was moved from its old location at the old greenhouses to the rear of the new greenhouses and a new garage and implement shed constructed adjoining, so that all of the mowing equipment and the horticultural department vehicles may be stored here and the equipment maintenance carried out here.

General maintenance work throughout the Park system was carried out; here again, some of the work was of a major and some ordinary maintenance. In Fort Erie, the boulevard roadway was resurfaced with two inches of sheet asphalt between Lewis Street and Gilmore Road. Surface treatment was carried out for approximately six miles at various points between Chippawa and Fort Erie, so that this entire stretch is now in good condition. Shore erosion protection involving the placing of approximately 7,000 tons of rubble was carried out between Fort Erie and Black Creek. To complete this work there remains now the area between Black Creek and Usher's Creek. Between Chippawa and Queen Victoria Park is the location where the large steel tower was constructed during the war in order to construct the submerged rock weir in the river. The Commission decided to leave the detour road at this point as it became very popular with the public as a vantage point from which to view the upper rapids. With this in mind, the original roadway was renewed and the detour roadway becomes a parking area. The resultant "island" between the two has been graded and the whole cleaned up and seeded, etc. Funds for this restoration were provided by the Hydro-Electric Power Commission.

Your Commission became concerned over the damage to foliage and trees throughout the Parkway, particularly in the Niagara Glen area and Paradise Grove area, and requested a thorough investigation and report from the Division of Botany and Plant Pathology of the Department of Agriculture at Ottawa. This was done, and the report received, the same stating that evidence shows considerable damage results from fumes and toxic gases from the plant of the North American Cyanamid Company. Other damage, particularly to the Oaks, is caused by a fungus disease which can be controlled by spraying.

#### STAFF

On January 24th, Mr. J. W. Archer, Chief Accountant, passed away, at the age of sixty-five. Mr. G. L. Anderson, a member of the accounting staff for many years, was appointed to replace him. Mr. Anderson is also purchasing agent for the Commission. Miss B. C. Martin, who was bookkeeper for the Commission, was appointed supervisor of the service department, work formerly done by Mr. Archer. Under the service department are co-ordinated the operations of the various stores, restaurants and scenic attractions which are directly operated by the Commission. All purchases of merchandise for sale—souvenirs, china and other items—will be approved by Miss Martin. As mentioned before, the work of the service department has increased through the years to a considerable extent, as can be seen from the annual financial statements.

Mr. James B. Liddell was engaged on a temporary basis as assistant to Mr. J. Oakes, who is superintendent of the horticultural department.

Wages of the staff in different categories were reviewed, in May of this year, and adjustments made.

The Chairman and the General Manager attended the Convention of the American Institute of Park Executives at San Francisco, California.

Early in the year, arrangements were made by the Honourable Charles Daley with the Netherlands' Ambassador to Canada, for the shipment to the Commission of a large quantity of rhododendrons, azaleas and other shrubs. This gift, under





Old Fort Erie Restored



Dufferin Islands

the title, "Flowers interpret Netherlands' Gratitude," was in turn, gratefully received. Several carloads were involved and the shrubs were planted in the area around the new greenhouses. Acceptance of this gift was made by Mr. Daley on behalf of the Canadian people, with an appropriate ceremony to which the public were invited and which took place on June 4th, at the new greenhouses.

Dr. J. H. van Roijen, Netherlands' Ambassador to Canada, made the presentation on behalf of the Dutch Government.

A description was given in previous reports of the construction of the new Park greenhouses, but it should be mentioned here that these were formally opened at a ceremony held at the greenhouses on November 9th, 1946.

Again, in October, 1947, a shipment of 30,000 tulip and daffodil bulbs were received from the Netherlands as a gift from the Netherlands' Government and have been planted in various locations throughout the Park system. More detailed description of these horticultural species will be found in the report of the horticultural department.

For the first time since prior to World War II, your Commission placed a flower exhibit, chiefly "Mums", at the Royal Winter Fair at Toronto.

The report from the horticultural department, which is under the supervision of John Oakes, follows:

Snow clearing, the removal of dead trees and branches, combined with maintenance, constitutes the work of the horticultural staff during the winter. A considerable amount of work was done during this period, clearing the rank undergrowth and dead wood from the woodlot south of the Queenston Power Plant and further clearance was undertaken at the Oak Grove, Niagara-on-the-Lake. This completes the clearing and grading of the grounds adjacent to the boulevard from Queenston Village to Niagara-on-the-Lake.

A severe sleet and ice storm visited the area on January 1st, causing considerable damage to the trees, particularly from Queen Victoria Park to Fort Erie. The clearing of the broken branches was commenced immediately, and much of the work had been completed before the heavy snows of late January and February suspended operations. The remainder of the work was carried out as soon as possible in the spring, and, before grass cutting commenced, the Boulevard had assumed much of its normal character.

A considerable amount of tree spraying was done during the summer months, commencing at the Oak Grove, Niagara-on-the-Lake, through to Queenston Village, using Bordeaux mixture. A small infestation of the Dutch Elm disease was noticed adjacent to the Jackson property, immediate steps were taken to control this outbreak, the trees being sprayed thoroughly. The affected trees will be kept under observation and further treatment applied as necessary.

The vegetation along the west side of the Boulevard in the vicinity of the Whirlpool is being seriously affected by the fumes and dust emanating from the Canadian Cyanamid plant. Trees and shrubs are being defoliated and killed in increasing numbers. The main reason for the high mortality in this area is due to the prevailing westerly winds driving the fumes in this direction, few days in the year being free from deposits of this nature.

Spring work was considerably delayed by the excessive rainfall, grass cutting equipment was bogged down and it was late in the season before the spring work and maintenance was brought under control. It was during this period that the National Committee of the Nurserymen of Holland presented the Parks Commission with approximately 6000 flowering and decorative shrubs, comprising Rhododendrons, Azaleas, Magnolias, Lilacs and conifers in many varieties. The consignment arrived on May 15th, in three box cars, and consisted of 120 cases.

Preparation of the ground in the vicinity of the Greenhouse was held up by constant rains, and it was with difficulty that planting could be completed in time to reap the benefit of the Rhododendron and Azalea flowers, which were well advanced.



River Path, Niagara Glen



Part of New Table Rock Tunnel Beneath Horseshoe Falls

A formal design was laid out immediately in front of the Greenhouse, using Rhododendrons, Azaleas and evergreens. The approaches were planted with an avenue of Magnolias and on the west side a mass planting of Azaleas was constructed with a background of evergreens for the formal pond.

Before accepting this gift, it was brought to the notice of our Dutch friends that the climate and soil conditions in this area are not ideal for the successful cultivation of Rhododendrons and Azaleas, and that a fair number of deaths must be expected the first season, and a gradual deterioration of the remainder. The planting plan was therefore arranged so that replacements of a suitable nature could be made without impairing the general layout.

The weather conditions, while they caused considerable delay, had their compensations. The resulting dull and damp weather proved ideal for the shrubs after their long journey in packing cases, so late in the year. The Azaleas and Rhododendrons gave a splendid display of colour when the formal presentation was made.

The plantings have been given a measure of protection for the winter, and with a fair amount of snow coverage, there is every indication of a good display in the spring of 1948.

A considerable amount of construction work was also carried out, some 200 maples being planted on the Golf course at Niagara-on-the-Lake, the new service entrance to the Park Restaurant was suitably designed with rock work and a field stone wall, planted to blend with the building and the grounds. The site of the hydro construction tower, between Dufferin Islands and Chippawa, was graded in preparation for spring seeding in 1948. The river bank in the Town of Fort Erie was given a much needed clearance of underbrush and a considerable quantity of debris removed, the result being much appreciated by the local inhabitants. The parcel of land at the intersection of Lakeshore Road and Albany Street, opposite the Peace Bridge, Fort Erie, was graded and seeded. Undergrowth and rubbish was cleared from the land adjoining the entrance to the Hydro canal at Chippawa, preparatory to the construction of a picnic ground in this area. The site of the proposed Princess Elizabeth Building was cleared of trees and shrubs in preparation for the construction work which is now in progress.

Spring and fall planting of the flower beds was carried out as in previous years, with the material propagated in the greenhouses.

This year, however, the fall planting has been greatly increased by the gift of bulbs, donated by the Dutch Bulb Growers' Association. This magnificent gesture was made up of some 30,000 bulbs, tulips predominating with narcissus also in quantity. With the addition of 12,000 bulbs purchased by the Park Commission, a brilliant display should be evident throughout the system in the spring of 1948.

Work was commenced in the fall on the construction of a golf course at Niagara Glen, in conformity with the plans and advice of Mr. Stanley Thompson, golf course architect. During the summer months the grass had been cut over the whole area and revealed a fair measure of turf over most fairways, which with the minimum of labour can be placed in playing condition. To date, satisfactory progress has been made in clearing the trees and underbrush from the fairways, and the sites of the proposed tees and greens. Materials for the raising of the tees and greens was obtained from the roadbed of the roadway used by the military on the Hydro canal during the war years. Number (1) tee and green has been raised and is ready for moulding and surfacing. Number (2) tee is raised and ready for top soil and the fairway cleared and stumped, the green which is in a depression is being raised by Cyanamid refuse, preparatory to being top dressed. Several thousand cubic yards are required to bring this to a suitable level. Number (3) tee is stumped and ready for grading, the fairway required considerable work, situated as it is on a rock pile, but is now graded ready for top dressing. The green is rough graded. Number (4) tee is raised and top dressed, the fairway clear, but as it comprises of a great deal of the old road, will need some additional work in the spring, the green is raised and ready for top dressing. Number (5) tee, a double tee, is raised and ready for top dressing, the fairway clear and the green which is sited on the side of the mound, has been rough graded. An 8" tile drain was placed under this green to take off the excessive water from the Hydro property. Number (6) tee on the mound has been graded. Number (7) green has been raised and is ready for top

dressing. Number (8) tee is in a similar state and the green ploughed and ready for completion. Number (11) tee is ploughed and ready for grading and seeding, the green (an armchair) is cut out from the mound and graded to the fairway. Number (12) green has been ploughed. Number (15) green cut out from the mound. Number (16) tee rough graded, fairway ploughed and the green cleared and stumped from the bush. Number (17) tee and part of the fairway has been stumped, cleared and ploughed.

The greens, tees and fairways not mentioned herein, are still awaiting attention, but with the exception of Number (14) fairway, all are clear of obstruction and ready for discing, rolling and seeding in the spring of 1948.

Following the official opening of the new greenhouses on November 9, 1946, when so many people were present, there has been a steady flow of visitors from all parts, more so on Sundays when the houses have been crowded. After the Chrysanthemum show, there followed a succession of floral displays, comprising Schizanthus, Cinerarias, Cyclamen, Bulbs, Begonias and a brilliant show of Calceolarias. In late summer the centre house was furnished with a display of coloured foliaged Caladiums, Ferns, Palms and exotics providing an interesting exhibit in the front wing houses at all times.

The labour involved in propagating and growing bedding plants has been reduced to a minimum and the results exceeded our expectations. All equipment is in a satisfactory condition, and with the addition of the new garage and machine shop, in the rear of the greenhouses, it will now be possible to centralize the activities of the horticultural department.

Equipment was extremely difficult to procure in the early part of the season and spares practically unobtainable, this refers particularly to grass cutting machinery. Later, however, it was possible to purchase a Toro Professional power mower for Mather Park and Fort Erie, a Toro 30" Parks Special for Queen Victoria Park, and a small Bob-o-Lawn for Lundy's Lane Cemetery. In the fall a five gang Toro mower and Worthington tractor were purchased for the golf course, a three gang Worthington mower and Ford tractor for Fort George and vicinity, and a Worthington three gang mower for Queenston Heights. This latter will be hitched to the McCormick-Deering tractor and will take care of both Queenston Heights and the school area.

The School for Apprentice Gardeners continues to fulfill its purpose. At the end of October, 1946, twenty-four students were in residence, of this number four left before the completion of their course. Fifteen of the remainder graduated in June, 1947, eleven of whom are gainfully employed in horticultural work. A further eleven students were admitted, bringing the total number in residence to fifteen, with one additional student taking post graduate work in the Parks greenhouses.

During the year under review, there has been a noticeable improvement in the work and interest of the students, and it is hoped that this standard will be maintained. This industry is not confined to the purely theoretical side, but is displayed in the interest taken in the practical work of the Parks and the greenhouse in particular.

The winter and summer schedules of instruction have been adhered to as closely as possible. Instruction both theoretical and practical has been given in vegetable growing, tree and shrub planting, grading and lawn making, drainage, greenhouse work, and the propagation of hardy trees and shrubs, as well as the normal subjects in the curriculum.

An active interest in sport was fostered and a keen and competitive interest was shown by the student body. The camera club had an added stimulus with the completion and equipping of a dark room. Instructional visits were arranged during the season, four members of the staff visiting the School of Horticulture, Farmingdale, Long Island. Their report indicated a worthwhile visit, where many interesting comparisons were made. Some students visited the lilac display at Rochester, New York, and all students the Canadian National Exhibition.

Outside work was greatly hindered by adverse weather conditions, particularly the growing of early vegetables, however, later crops showed very satisfactory results. Egg production and the raising of poultry for the table has proved a very profitable sideline at the school. Some 22,000 eggs were collected and 88 roosters and 100 hens graced the table. Six pigs were purchased and fattened on kitchen leavings, showing a profit on the investment.

Many improvements have been added to the school, making living conditions extremely comfortable. A tribute here to the dietician and her capable assistant would not be out of place.

Every effort is being made to maintain the present high level of the school and the curriculum is under constant revision. It is hoped by these efforts to raise the standard annually and to set the school in the position it should hold in the horticultural world.

### PARK HISTORY

Early in the fiscal year, your Commission received from the printers the two thousand copies of the Park history. Consisting of twelve chapters with appendices, this 338-page volume sets forth the activities of your Commission from the time of the first establishment of the original Commission in 1885. The book has since been widely distributed gratuitously to schools, libraries and public institutions, not only in Canada, but in the United States, England and in many foreign countries. Reprinting of the Foreword in the book, by the Chairman, would seem appropriate:

"Just sixty years ago, the foresight of Ontario's Government gave birth to the Niagara Parks. Located in the famous Niagara Peninsula of the Province of Ontario, they border the Canadian bank of the Niagara River for its full length from Lake Erie to Lake Ontario. Thirty-five miles of magnificent parklands include internationally famed gardens, rare floral displays, ancient fortifications, old battlefields and historic sites of interest and significance to the whole world. Sentiment and history are here combined with the handiwork of nature and man at their best. The places for viewing the full majesty of the Niagara Falls and the virile grandeur of the Niagara River, above and below the mighty cataracts, are preserved in a state of natural beauty for the pleasure and advantage of countless visitors from every part of Canada, the United States and the world. The following pages tell the story of Ontario's Niagara Parks, the struggle for their genesis, the romance of their growth and the achievement they represent.

I am indebted to the author, Ronald Way, M.A., for the untiring effort that has gone into the preparation of this volume.

CHARLEY DALEY,  
Chairman,  
The Niagara Parks Commission."

### PROPERTIES

There were no new purchases of property made during the year, but the Commission agreed to lease the Niagara Camp area from the Department of Mines and Resources at Ottawa. This property consists of 200 acres, closely, being the original camp grounds from which the buildings are now being removed. The lease is not yet prepared and therefore not finally closed. The property directly adjoins the Fort George Reservation and also adjoins, on the east, other lands already leased from the Federal Government.

The following grants were made during the year:

Niagara Falls Collegiate Vocational Institute—Scholarships of \$15.00  
and \$10.00 to Donald Dimond and John Carr, respectively.

Niagara Falls Illumination Board .....	\$3,250.00
Women's Wentworth Historical Society.....	800.00
Greater Niagara Chamber of Commerce .....	300.00
Niagara Falls General Hospital.....	200.00
Greater Fort Erie Chamber of Commerce.....	100.00

The Commission entertained the following visitors:

Czechoslovakian Ambassador, His Excellency Frantisek Nemeck and party.

President Truman.

Party of school boys from South Carolina.

#### NIAGARA FALLS BRIDGE COMMISSION

During this fiscal year a reorganization took place in connection with the membership of this Commission. The following new members were appointed to the Commission by the Ontario Government:

Hon. Roland Michener

Hon. Charles Daley

Thomas H. Lewis, M.L.A.

Carl D. Hanniwell, M.L.A.

No conclusion has been reached, yet, with regard to the transfer to The Niagara Parks Commission of the "L" shaped property adjoining the bridge by the Department of Highways.

#### NIAGARA SPANISH AEROCAR COMPANY, LIMITED

On September 19, 1946, the death occurred of Mr. James Schiller, Manager of this Company. The Commission authorized its solicitor to investigate and report on what might be the resultant corporate position of this company and an examination is now being made of the company's books and accounts, in accordance with the terms of the existing agreement, in order to establish the revenue, up-to-date, which your Commission might expect to receive over and above the minimum rental, all in accordance with the terms of the said agreement.

All of which is respectfully submitted to Your Honour by:

THE NIAGARA PARKS COMMISSION,

Hon. Charles Daley, Chairman,

Fred M. Cairns, Vice-Chairman,

Wm. B. Rollason,

Harold G. Fox, K.C., Ph.D.,

T. H. Lewis, M.L.A.,

Carl D. Hanniwell, M.L.A.,

Cecil Secord,

George R. Inglis.

## EXHIBIT 'A'

## BALANCE SHEET AS AT 31st OCTOBER, 1947

## ASSETS

**Current Assets:**

Cash on Hand and in Bank .....	\$204,667.34	
Water Rentals Due and Accrued .....	193,541.99	
Sundry Accounts Receivable .....	17,546.68	
Inventories of Saleable Merchandise, etc., at Cost, less Reserve of \$10,000.00 .....	85,346.01	\$501,102.02

**Fixed Assets:**

	Book Value	Reserve for Depreciation	Net Book Value	
Land, Landscaping, Road- ways, Buildings and Improvements	\$ 6,534,129.94	\$2,360,961.69	\$4,173,168.25	
Restaurant and Other In- terior Equipment and Furnishings	201,753.43	141,215.74	60,537.69	
Automobiles and Trucks	24,832.99	20,163.52	4,669.47	
Miscellaneous Outside Equipment and Tools	50,679.98	37,729.24	12,950.74	
Tableware, Linens and Utensils	32,074.00	20,835.94	11,238.06	4,262,564.21
	<u>\$6,843,470.34</u>	<u>\$2,580,906.13</u>		

**Deferred Charges:**

Publicity Supplies .....	\$ 5,227.39	
Maintenance and Other Supply Inventories .....	17,889.41	
Unexpired Insurance .....	5,328.95	
Prepaid Local Improvement Taxes .....	3,407.84	
Prepaid Workmen's Compensation Board Assessment .....	450.00	32,303.59

**Legacy Fund:**

For Improvements at Mather Park: Amount on Deposit in Province of Ontario Savings Office .....	36,903.10	
		<u>\$4,832,872.92</u>



## LIABILITIES

**Current Liabilities:**

Accounts Payable, Accrued Payroll, etc.	\$ 20,758.59	
Accrued Interest on Notes and Debentures	24,065.30	
Hold-back Payable on New Construction	375.00	
Principal due 1st December, 1947, on 4% Instalment Gold Debentures—final instalment	142,000.00	
Department of Highways, Province of Ontario (re extension of Oakes Garden Theatre)	135,629.61	\$322,828.50
		<hr/>
 <b>2% Three Year Bearer Coupon Notes</b> due 21st December, 1947		3,000,000.00
 <b>Reserve for Accident Pensions</b>		31,054.29
 <b>Surplus, as per statement attached</b>		1,442,087.03
 <b>Mather Legacy, as per Contra</b>		36,903.10
		<hr/>
		<b>\$4,832,872.92</b>
		<hr/>

## EXHIBIT 'B'

## SURPLUS ACCOUNT

FOR THE YEAR ENDED 31st OCTOBER, 1947

<b>Balance as at 31st October, 1946</b> .....		\$ 1,221,363.66
<b>Add:</b>		
Excess of Income over Expenses for the year ended 31st October, 1947, as per Exhibit 'C' .....	\$211,888.34	
Additional rental for the year ended 31st October, 1946— Niagara Spanish Aerocar Company, Limited .....	6,583.60	
Adjustment of inventory of Office Supplies at 1st Novem- ber, 1946 .....	2,251.43	220,723.37
		<hr/>
<b>Balance as at 31st October, 1947, carried to Exhibit 'A'</b> .....		\$ 1,442,087.03
		<hr/>

## EXHIBIT 'C'

## SUMMARY OF INCOME AND EXPENSES

FOR THE YEAR ENDED 31st OCTOBER, 1947

**Income:**

Water Rentals .....	\$555,622.68	
Profit from Operated Concessions after including Maintenance and Provision for Depreciation of Premises, but exclusive of any Portion of the Administrative Overhead of the Commission .....	184,106.04	
Privileges, Tolls and Fees .....	44,598.32	
Sundry Income including Cash Discount .....	3,848.17	
		<u>\$788,175.21</u>

**Expenses and Provisions:**

## Maintenance:

Maintenance of Parks, Grounds and Facilities .....	\$262,228.55	
Salaries and Expenses of Guards and Caretakers .....	34,588.25	296,816.80
Administration and General Expenses .....		84,431.40
Interest and Exchange on Debentures and Notes .....		75,363.10
Provision for Depreciation:		
Equipment and Tools .....	\$ 16,539.18	
Buildings, Roadways and Improvements, etc. ....	131,114.15	
	<u>\$147,653.33</u>	

**Less:**

Amount charged to Operated Concessions .....	27,977.76	119,675.57	<u>576,286.87</u>
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**Excess of Income Over Expenses for the year ended 31st October, 1947, carried to Exhibit 'B'**

\$ 211,888.34

## EXHIBIT 'D'

## SUMMARY OF FIXED ASSETS AND DEPRECIATION RESERVES

FOR THE YEAR ENDED 31st OCTOBER, 1947

## ASSETS

	Balance 31 Oct., 1946	Additions 1947	Deductions 1947	Balance 31 Oct., 1947
Land, Landscaping, Roadways and Improvements:				
Land and Landscaping	\$ 2,619,953.43	\$ 4,908.76	\$ 1,000.00	\$2,623,862.19
Roadways, Bridges and Park- ing Areas	1,640,594.41	2,282.13		1,642,876.54
Road Renewals (Reserve Only) Oakes Garden Theatre	364,670.15			364,670.15
Stone Parapets, Walls, Arches, etc.	347,167.35	231.42		347,398.77
Historical Structures and Sites	454,430.80	4,461.91		458,892.71
Golf Course (under Construction)		3,648.84		3,648.84
Park and Concession Buildings	1,068,422.71	24,358.03		1,092,780.74
	<u>\$6,495,238.85</u>	<u>\$39,891.09</u>	<u>\$1,000.00</u>	<u>\$6,534,129.94</u>
Restaurant and Other Interior Equipment and Furnishings	188,333.93	17,832.22	4,412.72	201,753.43
Automobiles and Trucks	23,234.81	2,588.43	990.25	24,832.99
Miscellaneous Outside Equipment and Tools	46,295.65	7,063.79	2,679.46	50,679.98
Tableware, Linens and Utensils	31,447.52	7,903.30	7,276.82	32,074.00
	<u>\$6,784,550.76</u>	<u>\$75,278.83</u>	<u>\$16,359.25</u>	<u>\$6,843,470.34</u>

NOTE: Further information regarding Additions to Assets totalling \$75,278.83 is set out in Schedule 6.

## SUMMARY OF FIXED ASSETS AND DEPRECIATION RESERVES

FOR THE YEAR ENDED 31st OCTOBER, 1947

## DEPRECIATION RESERVES

Balance 31 Oct., 1946	Provision 1947 Rate %	Amount	Deductions 1947	Balance 31 Oct., 1947
\$ 548,863.24	1	\$ 26,238.62		\$ 575,101.86
551,261.31	1	16,428.77		567,690.08
427,146.04	3	49,286.31		476,432.35
36,804.18	1	3,646.70		40,450.88
33,760.87	1	3,473.99		37,234.86
38,216.50	1	4,588.93		42,805.43
593,795.40	2½-5	27,450.83		621,246.23
<u>2,229,847.54</u>		<u>\$131,114.15</u>		<u>\$2,360,961.69</u>
136,545.36	10	9,083.10	\$4,412.72	141,215.74
18,784.95	25	2,368.82	990.25	20,163.52
37,095.96	10	3,312.74	2,679.46	37,729.24
26,338.24	10	1,774.52	7,276.82	20,835.94
<u>\$2,448,612.05</u>		<u>\$147,653.33</u>	<u>\$15,359.25</u>	<u>\$2,580,906.13</u>

## SCHEDULE 1 (a)

## STATEMENT OF WATER RENTALS

FOR THE YEAR ENDED 31st OCTOBER, 1947

Canadian Niagara Power Company, Limited .....	\$ 72,006.38
Ontario Power Company .....	119,353.94
Electrical Development Company, Limited .....	85,735.43
Hydro-Electric Power Commission — Queenston .....	278,526.93

**Water Rentals for the year ended 31st October, 1947, as per Exhibit 'C' \$ 555,622.68**

## SCHEDULE 1 (b)

## STATEMENT OF INCOME FROM PRIVILEGES, TOLLS AND FEES

FOR THE YEAR ENDED 31st OCTOBER, 1947

Niagara Spanish Aerocar Company, Limited .....	\$ 13,381.20
Niagara Concessions, Limited .....	1,000.00
Maid of the Mist Steamboat Company, Limited .....	2,500.00
Hy-Power Viewing Machines .....	19,609.00
Sundry Rentals .....	8,108.12
	<hr/>
<b>Income from Privileges, Tolls and Fees for the year ended 31 October, 1947, as per Exhibit 'C'</b> .....	<b>\$ 44,598.32</b>
	<hr/>

OPERATED CONCESSIONS  
STATEMENT OF INCOME AND EXPENSES  
FOR THE YEAR ENDED 31st OCTOBER, 1947

	Park Restaurant	Table Rock Souvenir Store and Scenic Tunnel	Queenston Restaurant and Pavilion
<b>Income:</b>			
Dining Room Meals	\$ 109,110.83		\$ 30,691.29
Lunch Room and Refreshments, Confectionery and Tobacco	79,123.75	12,118.73	12,891.69
	<u>\$188,234.58</u>	<u>\$ 12,118.73</u>	<u>\$ 43,582.98</u>
Souvenirs and Chinaware	40,751.08	161,921.50	1,983.68
Fares and Admissions		130,537.25	
	<u>\$228,985.66</u>	<u>\$304,577.48</u>	<u>\$ 45,566.66</u>
<b>Expenses:</b>			
Food, Refreshments, Confectionery and Tobacco	\$ 94,666.61	\$ 9,490.26	\$ 27,799.16
Souvenirs and Chinaware	20,538.70	87,542.20	1,386.10
Salaries and Wages	46,697.44	43,440.34	11,678.07
Fuel, Water, Power and Laundry	8,562.58	543.17	1,045.95
General Expenses, including Telephone, Insurance, etc.	11,240.82	5,957.32	4,735.85
Maintenance of Concession Buildings, Premises and Equipment	12,468.11	5,075.98	490.48
	<u>\$194,174.26</u>	<u>\$152,049.27</u>	<u>\$ 47,135.61</u>
Profit or Loss, before providing for Depreciation	\$ 34,811.40	\$152,528.21	\$ 1,568.95
<b>Deduct:</b> Provision for Depreciation of Buildings and Equipment	8,975.69	9,133.38	4,006.26
	<u>25,835.71</u>	<u>\$143,394.83</u>	<u>\$ 5,575.21</u>
Profit or Loss, exclusive of any Portion of the Administrative Overhead of the Commission	\$ 25,835.71	\$143,394.83	\$ 5,575.21



## SCHEDULE 2

## OPERATED CONCESSIONS

## STATEMENT OF INCOME AND EXPENSES

FOR THE YEAR ENDED 31st OCTOBER, 1947

Niagara Glen Restaurant	Clifton Gate Store and Incline Railway	Fort Erie Pavilion and Barracks	Fort George Trading Post	Brock's Monument	Total
					\$139,802.12
\$ 11,159.48	\$ 6,143.74	\$ 6,069.87	\$ 933.28		128,440.54
\$ 11,159.48	\$ 6,143.74	\$ 6,069.87	\$ 933.28		\$268,242.66
9,257.68	60,689.65	2,268.52	1,123.95		277,996.06
	8,056.30	1,494.05	3,057.05	\$ 4,957.85	148,102.50
\$ 20,417.16	\$ 74,889.69	\$ 9,832.44	\$ 5,114.28	\$ 4,957.85	\$694,341.22
\$ 6,575.01	\$ 4,726.04	\$ 4,640.19	\$ 609.13	\$	\$148,506.40
5,199.02	31,745.48	1,256.07	592.68		148,260.25
2,969.36	10,853.73	2,429.24	1,510.32	503.40	120,081.90
535.30	954.60	300.91	30.95		11,973.46
1,300.30	2,505.57	369.76	189.75	137.97	26,437.34
1,265.17	5,767.26	1,589.97	33.91	307.19	26,998.07
\$ 17,844.16	\$ 56,552.68	\$ 10,586.14	\$ 2,966.74	\$ 948.56	\$482,257.42
\$ 2,573.00	\$ 18,337.01	\$ 753.70	\$ 2,147.54	\$ 4,009.29	\$212,083.80
1,825.52	2,589.27	816.93	444.40	186.31	27,977.76
\$ 747.48	\$ 15,747.74	\$ 1,570.63	\$ 1,703.14	\$ 3,822.98	\$184,106.04

## SCHEDULE 3

## STATEMENT OF MAINTENANCE EXPENSES

FOR THE YEAR ENDED 31st OCTOBER, 1947

**Maintenance of Parks, Ground and Facilities:**

Grounds .....	\$117,091.27	
Driveways .....	47,636.28	
Buildings and Structures .....	\$ 50,617.52	

**Less:**

Amount Charged to Operated Concessions	18,589.90	32,027.62
Workshops .....	9,742.15	
Commissioners' Rooms .....	4,147.72	
Greenhouse .....	10,764.40	
Fort Relics .....	312.24	
Drainage and Water .....	1,036.17	
Equipment Upkeep .....	4,933.00	
Park Lighting .....	6,308.89	
Training School Wages, Supplies, etc. ....	28,505.82	
Water Leakage in Service to Queenston Area .....	2,348.85	
		<u>\$264,854.41</u>

**Deduct:**

Truck Expense Credit .....	2,625.86	\$262,228.55
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**Salaries and Expenses of Guards and Caretakers:**

Salaries of Commission's Staff .....	\$ 24,511.97	
Services of Ontario Provincial Police on Boulevard Patrol Duty .....	7,949.84	
Uniforms and Other Expenses .....	2,126.44	34,588.25

**Maintenance Expenses for the year ended 31st October,  
1947, as per Exhibit 'C'**

\$296,816.80

## SCHEDULE 4

STATEMENT OF ADMINISTRATION AND GENERAL EXPENSES  
FOR THE YEAR ENDED 31st OCTOBER, 1947**Administration Salaries and Expenses:**

Administration and Office Salaries .....	\$ 27,647.94	
Office Supplies .....	1,816.35	
Office Expense .....	1,910.18	
Travelling Expenses .....	2,414.14	
Commissioners' Expenses .....	3,232.25	\$ 37,020.86

**Miscellaneous and General Expenses:**

Insurance .....	\$ 5,942.99	
Publicity .....	13,445.68	
Meals for Members of Armed Services and Special Parties .....	27.97	
Pensions re Injury Awards .....	3,443.00	
Workmen's Compensation .....	\$ 3,205.39	
<b>Less:</b>		
Amount Charged to Concessions .....	1,080.74	2,124.65
Rentals and Taxes .....	1,272.76	
Car Mileage Allowance .....	3,481.58	
Telephone .....	1,636.77	
Commission's Contribution to Provincial Superannuation Fund (4%) .....	3,364.82	
Legal and Audit Fees .....	2,534.90	
Unemployment Insurance .....	209.67	
Group Life, Health and Accident Insurance .....	2,912.72	
Christmas Gifts to Staff .....	2,020.14	
Financial Expense .....	417.89	42,835.54

**Special Grants:**

The Niagara Falls Illumination Board .....	\$ 3,250.00	
The Niagara Falls General Hospital Trust .....	200.00	
The Greater Niagara Chamber of Commerce .....	300.00	
Women's Wentworth Historical Society .....	800.00	
Miscellaneous .....	25.00	4,575.00.

**Administration and General Expenses for the year ended 31st October, 1947, as per Exhibit 'C' .....** \$ 84,431.40

## SCHEDULE 5

STATEMENT OF INTEREST AND EXCHANGE ON DEBENTURES AND NOTES  
FOR THE YEAR ENDED 31st OCTOBER, 1947**Interest:**

On 2% \$3,000,000.00 Bearer Notes .....		\$ 60,000.00
On 4% Instalment Gold Debentures .....		6,133.33
On 5½% Sinking Fund Debentures .....	\$ 12,375.00	
<b>Less: Interest Earned on Sinking Fund .....</b>	8,531.53	3,843.47
		\$ 69,976.80

**U.S. Exchange:**

On Principal Instalment of \$136,000.00 paid as of 1st December, 1946 .....	\$ 680.00	
On Interest paid on 4% Instalment Gold Debentures .....	41.30	721.30

**Amortization of Debenture Discount:**

On 4% Instalment Gold Debentures .....	\$ 3,765.00	
On 5½% Sinking Fund Debentures .....	900.00	4,665.00

**Interest and Exchange on Debentures and Notes for the year ended 31st October, 1947, as per Exhibit 'C' .....** \$ 75,363.10

## SCHEDULE 6

## SUMMARY OF CAPITAL EXPENDITURES

Land, Landscaping, Roadways and Improvements:			
Landscaping at Park Restaurant .....	\$	1,083.07	
Landscaping at New Greenhouse .....		3,825.69	
Storm Sewer at Training School .....		2,282.13	
Addition to Parapet Wall, Queen Victoria Park .....		231.42	\$ 7,422.31
<hr/>			
Historical Structures and Sites:			
Ornamental Gates at Drummondhill Cemetery .....			4,461.91
Golf Course (under construction) .....			3,648.84
<hr/>			
Park and Concession Buildings:			
Alterations to Park Restaurant .....	\$	3,482.33	
Boiler and Chimney Construction at Park Restaurant .....		1,598.95	
Addition to Queenston Restaurant .....		2,213.70	
Incline Railway Building Extension .....		1,623.95	
Fort Erie Pavilion Alterations and Extension .....		2,290.66	
Lighting at Brock's Monument .....		1,863.12	
Princess Elizabeth Building (under construction) .....		3,228.32	
New Garage in Park Yards .....		1,982.92	
New Greenhouse, Queen Victoria Park .....		2,496.62	
New Garage and Machinery Sheds at Greenhouse .....		3,577.46	24,358.03
<hr/>			
			\$ 39,891.09
<hr/>			
Equipment and Furnishings:			
Restaurant and Other Interior Equipment and Furnishings .....	\$	17,832.22	
Automobiles and Trucks .....		2,588.43	
Miscellaneous Outside Equipment and Tools .....		7,063.79	
Tableware, Linens and Utensils for Restaurants .....		7,903.30	35,387.74
<hr/>			
<b>Capital Expenditures for the year ended 31st October, 1947, as per Exhibit 'D'</b> .....			<b>\$ 75,278.83</b>
<hr/>			

## SCHEDULE 7

## MATHER LEGACY FUND

FOR THE YEAR ENDED 31st OCTOBER, 1947

<b>Balance as at 31st October, 1946</b> .....			\$ 55,721.05
<b>Add:</b>			
Bank Interest to 30th September, 1947 .....			597.50
<hr/>			
			\$ 56,318.55
<b>Deduct:</b>			
Payments to Aiken and MacLachlan, Limited, on account of Contracts at Mather Park .....	\$	18,062.31	
Wages for employees of the Niagara Parks Commission .....		680.40	
Sundry Disbursements .....		672.74	19,415.45
<hr/>			
<b>Balance as at 31st October, 1947, as per Exhibit 'A'</b> .....			<b>\$ 36,903.10</b>
<hr/>			

NOTE: Holdback payable to Aiken and MacLachlan, Limited, amounts to \$5,809.97





# REPORT

OF THE

# Minister of Public Works

FOR THE

## Province of Ontario

FOR THE

## Twelve Months Ending March 31st, 1947

Printed by Order of  
THE LEGISLATIVE ASSEMBLY OF ONTARIO  
SESSIONAL PAPER No. 8 — 1948



ONTARIO

TORONTO

Printed and Published by Baptist Johnston, Printer to the King's Most Excellent Majesty 1948





TO:

The Honourable Ray Lawson, O.B.E., LL.D.,  
Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

As required by law, I submit for the information of Your Honour and the Legislative Assembly, the Annual Report of the works under the control of the Public Works Department, comprising the reports of the Deputy Minister, Chief Architect, Engineer, Secretary and Accountant for the twelve months ending the 31st of March, 1947.

Respectfully submitted,

GEO. H. DOUCETT,  
Minister of Public Works.

Department of Public Works, Ontario.  
Toronto, March 15, 1948.



# R E P O R T

OF THE

## Deputy Minister of Public Works

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THE HONOURABLE GEORGE H. DOUCETT, M.P.P.,  
Minister of Public Works,  
Parliament Buildings,  
Toronto, Ontario.

Sir:

I have the honour to submit to you the accompanying reports of the Chief Architect, Engineer, Secretary and Accountant for the financial year, April 1, 1946, to March 31, 1947.

These reports indicate increasing activities in the commencement of new projects and the preparation for an expanding programme of construction, to provide facilities for the various departments to adequately serve the people of Ontario.

### CHIEF ARCHITECT'S BRANCH

The construction of new mental hospitals, postponed during the war years, has been resumed and a new site selected in the Township of Montague. A contract has been awarded to Messrs. Anglin-Norcross, Ontario, Limited, and work is in progress for the erection of the first section of this Ontario Hospital School. This new Institution, when fully completed in accordance with present plans, will accommodate 1200 patients; these buildings now under way will have a capacity of 900 beds.

The work undertaken by this Branch has covered a multitude of varying jobs, but the transition from a wartime economy to peacetime, has brought many problems and the actual amount of work brought to completion has been limited by the available manpower and material shortages.

A considerable quantity of construction equipment and supplies was purchased from the Department of Mines and shipped from the Lignite Plant at Onakawana to the Stores Building at 1200 Sheppard Avenue and will be used as required on new construction projects.

While this report gives in detail the regular work carried out by this Branch, it should also be noted that a considerable amount of technical service has been rendered to assist other departments of the Government in administering Acts under their control.

## ENGINEER'S BRANCH

The usual repair and maintenance of locks and dams has been carried out where necessary and the following new dams were constructed:

Naiscoot River Dam — Parry Sound District

Dollars Dam (South) — Parry Sound District

Municipal drainage work was carried out in the Northern Districts and financial assistance was given for drainage works to the Town of Capreol, Township of Duro, Township of Matchedash, Township of Orillia and Township of Sunnidale.

Under the Provincial Aid to Drainage Act, (Chapter 70, R.S.O., 1937) eight Townships were given financial assistance towards the cost of nine drainage schemes.

Grants were made to the City of Sudbury towards the cost of a flood control and drainage scheme, known as the Nolin's and Junction Creek Drainage Works and aid was given to the Grand River Conservation Commission to carry out preliminary work in connection with the proposed construction of the Conestoga Dam and the Township of Harwick was given a grant towards the cost of the Shrewsbury Dock.

## SECRETARY AND ACCOUNTANT'S BRANCH

The statement of revenue shows an increase over the normal receipts which is occasioned by the sale of the following properties:

**Town of Leaside**

Sale of garage building. Sale price, \$75,000.00 less portion transferred to Department of Highways, \$14,610.00 .....\$ 60,390.00

**Toronto**

Sale of land, Peter and Wellington Streets ..... 3,200.00

**Gravenhurst**

Sale of Lot 23, North side of David Street, East side of Muskoka Road ..... 150.00

\$ 63,740.00

Expenditures for ordinary and capital purposes are summarized as follows:

Main Office .....	\$ 154,254.68
Maintenance and Repairs .....	987,350.22
Drainage Aid .....	27,687.89

Total Ordinary ..... \$ 1,169,292.79

Public Buildings, etc ..... 1,419,087.19

Total Expenditure ..... \$ 2,588,379.98

I have the honour to be, Sir,

Your Obedient servant,

GEORGE N. WILLIAMS,

Deputy Minister of Public Works and Chief Architect.

TORONTO, March 15, 1948.

## REPORT OF THE CHIEF ARCHITECT

The Honourable Geo. H. Doucett, M.P.P.,  
Minister of Public Works.

Sir:

I have the honour to report on the work done by the Architect's Branch of the Department of Public Works, Ontario, during the fiscal year, April 1st, 1946, to March 31st, 1947, as follows:

## ONTARIO GOVERNMENT INSTITUTIONS LOANED

To

## THE DEPARTMENT OF NATIONAL DEFENCE, CANADA

During this fiscal year the following Ontario Government Institutions, which were previously turned over, all or in part, to the use of the Department of National Defence for purposes of World War II, are still being retained for this purpose:

Ontario Hospital, London (portion of lands only)  
Industrial Farm, Monteith  
Normal School, Ottawa.

The following Institutions have been returned by the Department of National Defence to the Province following termination of lease arrangements:

Returned during this fiscal year:

Ontario Hospital, St. Thomas, as of May 31st, 1946  
Boys' Training School, Bowmanville, as of June 13th, 1946  
Ontario Hospital, Brampton, as of August 10th, 1946.

Returned previous to this fiscal year:

Ontario Hospital, Port Arthur (Administrative Bldg.) as of  
February 15th, 1944  
Ontario Reformatory, Mimico, as of May 1st, 1944  
Agricultural School, Kemptville, as of May 1st, 1944  
Normal School, Toronto, as of July 12th, 1944  
Ontario School for Deaf, Belleville, as of July 15th, 1944  
Training School for Technical Teachers, Hamilton, as of  
September 1st, 1944  
Ontario Agricultural College, Guelph, as of February 19th, 1945  
Girls' Training School, Galt, as of April 20th, 1945.

Further remarks regarding the return and reconversion of these Institutions will be found in the body of this report under their respective sub-divisions.

A considerable amount of work was rendered by this Branch of the Department, in connection with the continued use of the enumerated Institutions still on loan to the Department of National Defence, as well as in connection with the above Institutions referred to as being returned to the use of the Province during this fiscal year.

Construction work carried on by this Department during this fiscal year, was adversely affected by continual shortages of skilled labour, essential construction materials and equipment and many projects were of necessity, deferred awaiting more favourable condition in the construction industry.

Persistent efforts to obtain additional skilled technicians met with little success and as a result this very important phase of our work was greatly hampered.

## LEGISLATIVE AND DEPARTMENTAL BUILDINGS

Working drawings for the initial stages of remodelling the East Wing of the Parliament Buildings were further developed and preliminary arrangements to start the work were made. This work included plans for a new fire tower stairway at the north end of the east wing, new fire tower stairs and elevator shafts at the east entrance and at the grand stair case and plans for remodelling lavatories in this wing.

In this group of buildings, general routine repairs, replacements and changes were carried out in all trade branches but this work also was restricted by material and labour shortages referred to above.

Work in this category included general maintenance and repairs of roofs, plasterwork, masonry, windows, doors and other interior woodwork. A considerable amount of interior painting was done and storage shelves were built in offices and vaults as necessary.

General repairs and replacements were also carried out in connection with furniture, furniture upholstery, linoleum, blinds and other such equipment and finishes.

The mechanical systems and services throughout these buildings were kept in repair and general improvements were made, as required, in connection with plumbing, heating, ventilation, refrigeration and electrical systems and the elevators were regularly inspected.

The work of improving the electric lighting systems, started in the previous year, was continued and expanded during this fiscal year.

Numerous sectional partitions were installed in various offices throughout the Parliament Buildings and East Block to divide existing offices.

Included in the general work, as above described, the following items were considered of sufficient interest to warrant mention, for purposes of record, in this report:

### **Parliament Buildings:**

Improvements were made in the Legislative Chamber including rearrangement of platforms and seating layouts in the Speaker's Gallery and the galleries immediately below to provide more comfortable arrangements. The front railings of the Public Galleries were increased in height by addition of a safety rail.

Extensive repairs were made to the copper finials and ridges of the roof over the Chamber.

Alterations were made in a group of offices at the main entrance to provide suitable office accommodation for the Honourable the Provincial Secretary.

A dark room was installed for the Photographic Division of the Department of Travel and Publicity.

The names of the members of the 20th and 21st Legislatures were inscribed in the marble panels located on the ground floor of the North Wing.

### **East Block:**

The work of repointing the exterior stonework of this building was continued throughout this fiscal year, but progress was again limited by shortage of skilled labour.

Acoustical ceilings were applied in some offices where large groups of business machines were in operation and the noise level impaired the efficiency of the operators.

In addition to the routine maintenance and repair of office cabinetwork and other equipment, numerous items of special equipment were manufactured in the Department's workshops in the East Block, including special electrical installations for incubators, water baths and other laboratory equipment for the Department of Health. Packaging and crating of equipment and furniture, as required by various Departments for shipment to outside points, contributed a large volume of work to the carpenter shop.

The central boiler plant, located in the East Block, provides steam for heating and other special purposes to the Psychiatric Hospital and the Banting Institute as well as the Parliament Buildings and East Block and numerous smaller buildings in the vicinity. The plant was maintained and kept in repair for this important work.

#### **Subsidiary Buildings:**

General maintenance work and repairs in various trade branches were carried out in the following buildings:

Numbers 11, 13, 15 and 39 Queen's Park  
112 College Street  
454 University Avenue (Liquor Control Board)  
307 Richmond Street, West (Sewage Laboratory)  
Department of Highways' Garages, Surrey Place and Leaside  
Department of Health, Serology Laboratory Annex, Mimico  
Department of Health, Office Annex, 1011 Queen Street, West  
1200 Sheppard Avenue.

The following items are listed for purposes of record:

At No. 13 Queen's Park, alterations were made to provide quarters for the headquarters staff of the Ontario Provincial Police.

At 112 College Street, alterations were carried out to equip this building for use as an Outpatient Clinic to be operated in conjunction with the Psychiatric Hospital and to relieve the crowded conditions of the Clinic in the hospital building. The Farm Service Force Branch of the Department of Agriculture, formerly housed in this building, were removed to leased premises at 9 Richmond Street, East, Toronto, and the premises there were fitted out for this purpose.

At 178 Queen's Quay, two buildings of fire resisting construction, which formed part of the R.C.A.F. Equipment Depot at this point, were purchased and extensive alterations carried out to fit one building for use as a central repair garage for Ontario Provincial Police cars. Facilities provided include workshops and equipment for mechanical repairs, upholstery, spray painting, parts stores and offices. The second building was altered to provide dead storage for cars and parts. As these buildings were formerly heated from the R.C.A.F. central heating plant it was also necessary to install a new boiler plant in the main garage building together with washrooms and other service rooms for staff.

At 454 University Avenue, improvements were made to the electric lighting system in some offices, repairs and replacements were made to the plumbing and heating systems and the elevator was inspected and kept in repair.

At 1200 Sheppard Avenue, a group of buildings owned by the Dominion and formerly a part of the Dehavilland Aircraft Plant, were purchased and extensive alterations carried out to provide much needed additional space in this district for offices, draughting rooms, laboratories and stores all as required by various Departments to relieve the overcrowded conditions in the East Block and to take care of their expanding requirements.

At 455 Spadina Avenue, new sectional partitions were installed, the electric lighting improved and the rooms painted to fit these leased premises for use by the Venereal Diseases Division of the Department of Health.

At 501 Wellington Street, West, partitions were erected to form two offices for the Department of Lands and Forests in these leased premises.

#### **Osgoode Hall:**

General routine repairs, replacements and minor changes were carried out at these premises. The following items are mentioned for purposes of record:

The old, unused, kitchen and pantry on the second floor were cleaned out and alterations made to provide two additional offices for Judge's Chambers.

Repairs were made to mosaic tile floors in the main halls and some rotted timbers were removed and replaced with steel supports.

The plumbing, heating and electrical systems were repaired and improved and the elevator was inspected and kept in repair.

### EDUCATIONAL BUILDINGS

#### **Normal and Model School, Toronto:**

These premises were continued in use as a Rehabilitation Centre by the Department of Education under a Dominion-Provincial Training Programme.

Routine maintenance of these buildings was generally done by the School as part of the Vocational Training Programme but this Department arranged a contract and work was started on major repairs and replacements of roofing and sheet metal work over all buildings.

The former Earl Kitchener School on Pape Avenue, Toronto, leased from the City of Toronto during the war years as temporary quarters for Normal School work, was purchased during this fiscal year. General routine repairs were carried out including repairs and replacements of mechanical systems. The interior of the school, generally, was redecorated and the floors of the auditorium and ante rooms were sanded and refinished.

#### **Normal and Model School, Ottawa:**

These premises are still on loan to the Dominion Government and, as noted in my previous annual report, were loaned as of November 1st, 1939.

The Normal School classes are being carried on in temporary quarters located in the Mutchmor School, Ottawa.

#### **Normal School, London:**

Minor routine repairs were made to this building and to the master clock system and minor stoker replacements were made.



**Normal School, Hamilton:**

Minor repairs, as required, were made to this building; repairs were made to the programme clock system and the temperature controls were overhauled.

A new condensate return pump was installed on the heating system and minor repairs were made to the boiler.

Considerable damage was caused to the roof by a wind storm: this was repaired.

**Normal School, North Bay**

Routine repairs were carried out, the interior walls and ceilings were washed down and the auditorium seating was rearranged.

Fire brick lining of number 2 boiler was renewed, the room temperature control system was overhauled.

The electric lighting system was improved in some classrooms.

**Normal School, Peterborough:**

Routine repairs carried out at this school included the retubing of No. 2 boiler.

A new condensate pump was installed and improvements made to the heating system, generally.

**Normal School, Stratford:**

Routine repairs only were carried out at this School.

**Ontario School for Deaf, Belleville:**

General routine repairs and replacements were carried out including new shades for 124 windows and repairs to plaster in classrooms and Superintendent's Residence.

General repairs and replacements in connection with mechanical systems included, complete retubing of No. 1 and 2 boilers, rebuilding of front wall of No. 4 boiler, overhaul of boiler feed pump and installation of a new coal hoist. A new hot water convertor was installed in the Superintendent's Residence.

**Ontario School for Blind, Brantford:**

In addition to the normal routine repairs to buildings and mechanical systems at this Institution the following work was also carried out:

New roofs were laid over the gymnasium building and connecting passageways.

The brick and stone gable over the south entrance to the Main Building was taken down and rebuilt.

A new incinerator was erected at the base of the boiler plant chimney.

A new domestic hot water tank and heating element was installed in Main Building.

Two steam driven vacuum pumps were completely overhauled.

**Provincial Institute of Textiles, Hamilton:**

The former Ontario Technical Teachers' Training College at this location was converted during this year to provide facilities for the new Provincial Institute of Textiles under the control of the Department of Education. Routine repairs were carried out as usual.

**Provincial Institute of Mining, Haileybury:**

General Routine repairs were carried out in this building.

### AGRICULTURAL BUILDINGS

**Ontario Agricultural College, Guelph:**

The work of restoring, to their former condition, the buildings and grounds, loaned during the war to the Department of National Defense, was carried forward during this fiscal year. This work as noted in my previous annual report was done under agreement with the Dominion Government whereby the cost of such restoration work was reimbursed to the Province.

The work started at this College in the previous year, to provide accommodation, of a temporary nature, for the greatly increased student enrolment was continued during this fiscal year but progress again was limited by the general shortage of labour and materials.

Work under this heading, started in the previous year and now completed or substantially completed included:

Conversion of former R.C.A.F. outstation building, to provide new accommodation for Bacteriological Department.

The large addition to the Chemistry Building.

The large addition to the Soils Building.

The addition to the Biology Building.

Alterations to Mills Hall to provide additional living quarters for students.

Alterations to Horticultural Building, top floor, also for students' quarters.

Work was also started and substantially completed, during this fiscal year on:

A new Animal Husbandry Pavilion.

Alterations to second floor of existing Animal Husbandry Building to provide accommodation for Economics Department.

Alterations to old Power House Coal Storage Building to provide additional storage areas for vegetables.

A start was also made during this fiscal year on the following projects not previously mentioned:

Alterations to old Farm Mechanics Buildings to provide more suitable accommodation for the Agricultural Engineering Department.

Alterations to old Storage Building to provide workshops for plumbers, steam-fitters, painters and storage for their materials, also to provide accommodation for the Exhibits Department and general storage.

Contracts were awarded for the supply and installation of a large new steam generating unit, extensions to the overhead coal hopper, extension of the boiler house chimney and other improvements and extensions required in connection with the increased demand for steam.

In addition to the foregoing items of restoration work, alterations and extensions, this Department also carried out general maintenance and repair and replacement work in all branches of construction on the various buildings of the College, beyond the scope of the staff maintenance mechanics at the College.

#### **Ontario Veterinary College, Guelph:**

Construction of the large permanent addition and extensive alterations to the Main College Building, started in the last fiscal year, have been continued, but the work has been hampered by the prevailing shortages of labour and essential materials.

Work also was continued on the new Hog Clinic, the new Fox and Mink Building and the new Laboratories for poultry and small animals, all of which are now nearly completed.

A former army hut was dismantled at Brampton and will be re-erected at this College to provide temporary classroom accommodation.

A new residence for the Principal of the College was planned and the work started.

In addition to the foregoing, routine repairs were made to the existing buildings.

#### **Agricultural School, Kemptville:**

The restoration work, following return of this School to the Province from the Dominion Government, started in the previous year, was completed this year.

To provide much needed additional temporary accommodation at this School, 10 wooden buildings at Kingston were purchased from the War Assets Corporation, removed to Kemptville and re-erected complete with plumbing, heating and electrical systems.

Routine repairs were made to the permanent buildings including repairs to roofs of several buildings and repairs and replacements to mechanical systems as required.

#### **Experimental Farm, Ridgetown:**

Routine repairs were made as required.

#### **Demonstration Farm, Hearst:**

Routine repairs were made as required.

#### **Horticultural Experimental Station, Vineland:**

Extensive repairs and replacements were carried out at this Institution including:

New shingle roofs on three staff cottages.

New stucco finish on two staff cottages.

Glass was removed from East and West range greenhouses, general repairs made, the glass replaced and the whole painted.

The exteriors of the main barn, ice house and cold storage warehouse and elevated water storage tank were painted.

Three hundred tons of large stone boulders were placed along the lakeshore to resist further erosion.

Nos. 1 and 2 boilers were retubed and general repairs made to mechanical system.

**Demonstration Farm, New Liskeard:**

Routine repairs were made, as required.

**Fruit Inspection Building, Winona:**

Plans were prepared, contracts awarded and a building erected for fruit inspection purposes on the Queen Elizabeth Way.

**Rural Youth Training Centre, Cayuga:**

Alterations were made to an existing building to provide temporary facilities for training purposes.

DISTRICT BUILDINGS

**Algoma:**

Court House, Sault St. Marie: Routine repairs were made.

Gaol, Sault Ste. Marie: Routine repairs were made.

**Cochrane:**

Court House, Cochrane: Routine repairs were carried out.

Lock-up, Hearst: Minor repairs were carried out.

Lock-up and Office Building, Matheson: Routine repairs were made.

**Kenora:**

At Kenora, a parcel of land adjoining the Court House property was purchased as a site for a proposed new office building.

Court House, Kenora: Routine repairs were carried out.

Gaol, Kenora: Routine repairs were made.

Gaoler's Residence, Kenora: Routine repairs were made.

Government Office Building and Lock-up, Sioux Lookout: Routine repairs were made.

**Manitoulin:**

Court House and Registry Office, Gore Bay: Routine repairs were made.

Lock-up, Gore Bay: Routine repairs were made.

**Muskoka:**

Court House, Bracebridge: Routine repairs made at this place included slate roof repairs and a new set of grates for the heating boiler.

Gaol, Bracebridge: Routine repairs were made.

Registry Office, Bracebridge: Routine repairs were made and a new wood counter installed.

**Nipissing:**

Court House, North Bay: Routine repairs were made, a new railing was installed in the library of the Judge's Chambers and a new hot water boiler was installed.

Registry Office, North Bay: Routine repairs were made.

Gaol, North Bay: Routine repairs were made, paint was furnished for application by prisoners, a safety screen purchased last year was installed in the visiting room and a cooking range brought from the Boys' Training School, Galt, was installed.

**Parry Sound:**

Court House, Parry Sound: Routine repairs were made, new lighting fixtures were installed in the Sheriff's Office and Provincial Police Office, and a basin installed in the Crown Attorney's Office.

Registry Office, Parry Sound: Routine repairs were made and new lighting fixtures installed.

Gaol, Parry Sound: Routine repairs were made, paint supplied for application by prisoners and new window shades installed.

Lock-up, Burk's Falls: Routine repairs were made.

**Rainy River:**

Court House, Fort Francis: Routine repairs were made, a new cooking range was supplied for caretaker's apartment, shelving was installed in library, and extensive repairs made to heating system including retubing of No. 2 boiler.

Registry Office, Fort Francis: Routine repairs were made.

Gaol, Fort Francis: Routine repairs were made.

Lock-up, Fort Francis: Routine repairs were made and office spaces painted.

Provincial Police Quarters, Red Lake: A heating stove and some furniture were purchased for the temporary quarters at this location.

Lock-up and Constable's Residence, Atikokan: Routine repairs were made.

**Sudbury:**

Court House, Sudbury: Routine repairs were made, new lighting fixtures were installed in the Court Room and the walls and ceiling washed.

Registry Office, Sudbury: Routine repairs were made.

Gaol, Sudbury: Routine repairs were made.

Lock-up, Foleyet: Routine repairs were made, an oil burning space heater installed and a new bath tub purchased.

**Temiskaming:**

Court House, Haileybury: Routine repairs were made, parapet walls and roofs were repaired and all exterior sheet metal work painted. No. 1 boiler was retubed.

Registry Office, Haileybury: Routine repairs were made.

Gaol, Haileybury: Routine repairs were made and new locks supplied for some rooms.

Lock-up, Elk Lake: Routine repairs were made.

Lock-up, Englehart: Routine repairs were made.

Mining Recorder's Office, Swastika: Routine repairs were made.

**Thunder Bay:**

Court House, Port Arthur: The general programme of renovation of the interior of this building was continued during this year but progress was retarded by shortages of labour and materials.

Registry Office, Port Arthur: Routine repairs were made.

Gaol, Port Arthur: Routine repairs and replacements were made including a new cooking range, 60 new prison locks, a vent canopy was installed in the kitchen and improvements made to the laundry heating system.

Registry Office, Fort William: Routine repairs were made.

**ONTARIO HOSPITALS****Ontario Hospital, Brampton:**

This Institution, on loan to the Department of National Defence during World War II was returned to the Province on August 10th, 1946. The large army encampment was taken over with the property by arrangement with the Dominion Government as part of the settlement agreement. This Institution was then turned over to the Department of Reform Institutions for use as a reformatory for young prisoners as later referred to in this report.

**Ontario Hospital, Brockville:**

General routine repairs were carried out, a new pasteurizing machine installed and two food conveyors provided.

**Ontario Hospital, Cobourg:**

General routine repairs were made including repairs to boilers, chimneys and lightning rods on boiler room stacks.

**Ontario Hospital, Fort William:**

Routine repairs were made. The laundry was increased in size and equipment re-arranged. Arrangements were made to complete the new barn, work having been halted by material shortages during the previous year.

**Ontario Hospital, Hamilton:**

General routine repairs were made including repairs to the roofs of various buildings and repairs to passenger elevator in Infirmary Building.

Following a fire in the service wing of Orchard House, plans were made to remodel this wing including the kitchen and service rooms and the work was started immediately. Renovation of the staff dining room and servery in this building was also started.

A new pasteurizing machine was purchased for this Hospital.

**Ontario Hospital, Kingston:**

(Rockwood) General routine repairs were carried out including the application of insulating covering to two new domestic hot water storage heaters.

(Mowat) In addition to routine repairs at this division of this Institution a programme of renovation work was undertaken in pavilion No. 1. This work will include the complete rebuilding of the lavatory wings at the rear of this building, the structures of which have rotted out.

**Ontario Hospital, Langstaff and Concord:**

(Langstaff) General routine repairs were made including extensive repairs to plasterwork, repairs to roofs and the general overhaul of the deep wells and water pumps. Heating systems generally were repaired as required.

(Concord) Routine repairs were made as required and some new fencing material supplied.

**Ontario Hospital, London:**

Routine repairs were carried out including repairs to roof of rink and piggery. Defective tubes were removed from Nos. 3 and 4 boilers and replaced with new tubes.

**Ontario Hospital, New Toronto:**

General routine repairs were carried out.

In addition to the repair work the following items of major importance were also carried out:

The basement of cottage "A" was renovated to provide accommodation for workshops for clothing and shoe repairs.

The overhead primary electrical feeder supply line was found to be in poor condition and was replaced with a new underground service from the lake shore road to the main transformer station at the centre of the Institution.

A new hot water storage tank was installed in the laundry.

A system of underground piping was installed between the Nurses' Residence and the Greenhouse so that the Greenhouse could be heated from the central heating plant.

**Ontario Hospital, Orillia:**

General routine repairs were carried out including extensive repairs to metal flashings and eavestroughing on buildings generally, lightning rods were installed on the extension to the barn recently completed, No. 2 boiler was completely re-tubed and repairs made to the piggery boiler.

In addition to the foregoing, a wing of the Main Building, known as the Terrace Residence, was remodelled and equipped to provide necessary additional office space on the ground floor, a dispensary and drugs storage rooms in the basement and two apartments for married medical staff on the upper floors.

**Ontario Hospital, Penetang:**

General routine repairs were carried out.

**Ontario Hospital, Port Arthur:**

Routine repairs were carried out as required.

**Ontario Hospital, Toronto (999 Queen Street, West):**

Routine repairs were carried out.

In addition to the foregoing, a portion of the boundary wall at the south end of the hospital property was found to be leaning over and in serious condition, a contract was awarded and this section of the wall was rebuilt.

**Psychiatric Hospital, Toronto:**

General routine repairs were carried out and in addition the concrete pavement at the north and south entrances was removed and new pavement laid. Acoustical treatment was installed on the ceilings of single rooms, day rooms and corridors on the second floor of the south wing. New mastic tile flooring was laid in corridors on second floor.

**Ontario Hospital, St. Thomas:**

The arrangement made with the Dominion Government whereby the Province would take over the buildings as renovation work was completed by the Dominion Government, was continued during this fiscal year and the buildings, progressively taken over until this work was completed on May 31st, 1946.

General routine repairs were carried out on the buildings as taken over by the Province, the buildings were re-equipped and returned to the use of the Department of Health.

The work of repointing exterior stonework was continued during this fiscal year.

The work of changing the Chief Engineer's residence into a duplex residence with apartments for the Chief Engineer and his Assistant was carried on.

Plans were made and work started on the construction of a root house for this Institution.

An extensive programme of landscaping was undertaken including the purchase and planting of well developed trees.

Additional new laundry equipment was purchased and installed.



**Ontario Hospital, Whitby:**

General routine repairs were made including extensive repairs to tile roofs, tile entrance steps and interior tilework throughout the Institution. New roofs were laid over the garages and the roof of the piggery was repaired. Extensive repairs were made to the plasterwork in patients' dining halls.

**Ontario Hospital, Woodstock:**

General routine repairs were carried out including extensive repairs to brickwork of boilers Nos. 1 and 2.

Interior window guards were installed in 12 single room windows in the T. B. Division.

The farm under drainage system was extended by the installation of 1,850 feet of additional drainage tile.

**Ontario Hospital, Montague Township:**

Working drawings were completed, contracts awarded and a start made on the erection of the first section of this new Ontario Hospital School for mental defectives in Eastern Ontario.

Present plans call for an ultimate capacity of 1,200 beds for patients in this Hospital and the first projects now under way will provide beds for some 900 patients together with central dining halls and kitchen and other service wings.

**EXAMINATION OF PLANS FOR THE DEPARTMENT OF HEALTH**

Generally, plans were examined and recommendations forwarded to the Department of Health in connection with new construction, alterations and additions to General Hospitals, Hospitals for Incurables, Red Cross Hospitals, Sanatoria and Private Hospitals.

Proposals of various kinds were dealt with this fiscal year in connection with the following:

**General Hospitals**

Belleville, Belleville General  
Blind River, St. Josephs  
Brantford, General  
Clinton, Memorial  
Cochrane, Lady Minto  
Dunnville, Haldimand War Memorial  
Goderich, Alexandra Marine and General  
Guelph, St. Josephs  
Hamilton, General  
Hamilton, Mount Hamilton  
Hanover, Hanover Memorial  
Kenora, General  
Kingston, Hotel Dieu  
Kitchener, Waterloo

Kitchener, St. Josephs  
Leamington, District Memorial  
London, Victoria  
Mattawa, General  
Newmarket, York County  
Niagara Falls, General  
North Bay, Queen Victoria Memorial  
North Bay, General  
Oakville, Trafalgar Memorial  
Orillia, Soldier's Memorial  
Oshawa, General  
Ottawa, Civic  
Pembroke, Pembroke Cottage  
Petrolia, Charlotte E. Englehart  
Port Colborne, Memorial  
Southampton, Saugeen Memorial  
Stratford, General  
Sudbury, General  
Toronto, St. Josephs  
Toronto, Wellesley  
Toronto, 10 Maynard Avenue (Proposed Alcoholic Clinic)  
Toronto, Western  
Trenton, Memorial  
Walkerton, Bruce County  
Winchester and District Memorial

### **Convalescent Homes**

Fonthill, Devonia Convalescent  
Hamilton, Infants Home  
Kingston, St Mary's on the Lake  
Kilworthy, Ontario Society for Crippled Children "Woodeden"

### **Red Cross Hospitals**

Bancroft  
Espanola  
Huntsville  
Mindemoya  
Thessalon  
Wiarton

### **Sanatoria**

Fort William  
Cuelph, Homewood Sanatorium  
Ottawa, Royal Ottawa Sanatorium

**Private Hospitals**

Ajax, University of Toronto  
 Creemore, Proposed  
 Copper Cliff, International Nickel Company  
 Deep River, Village  
 Espanola, Espanola Private Hospital  
 Hagersville, Miss Ratcliff's Proposed Hospital  
 Kapuskasing, Sensenbrenner  
 Long Lac, Hospital  
 Lansing, Missionary Health Institute  
 London, Mason Villa  
 London, Salvation Army Bethesda  
 Markdale, Markdale Private  
 Milton, Dr. Stevenson's Hospital  
 Moose Factory, Newham Cottage  
 Moosonee, Assumption P. H.  
 Nobel, Nobel Works General  
 Ottawa, Graham Private Hospital  
 Ottawa, Hospital of the Good Shepherd  
 Port Colborne, Elsie Nursing Home  
 St. Thomas, Private Hospital  
 Stayner, Rest Home  
 Toronto, Oakwood Clinic  
 Toronto, Mrs. A. Milbury, 23 Woodside (proposed Rest Home)  
 Toronto, Homewood Rest Home  
 Toronto, Fenndale (proposed Private Hospital)  
 Toronto, Allen Rest Home  
 Toronto, St. Mary's  
 Vineland, Mennonite Brethren Bethesda Home  
 Prescott, Proposed Health Centre

**Department of Welfare**

Brantford, Day Nursery  
 Toronto, Bethel Home, Parkside Drive

**ONTARIO REFORMATORIES****Ontario Reformatory, Brampton:**

The former Ontario Hospital property at Brampton which was loaned to the Dominion Government during World War II was returned to the Province on August 10th, 1946, and turned over to the Department of Reform Institutions for use as a reformatory for young prisoners.

The administration building, which is of fire resisting construction and the only permanent building built on this property and intended as the first of a group of buildings in the hospital scheme, has now been completed for use as an administration building for the Reformatory.

The large encampment of wooden construction built by the Dominion Government for army purposes was retained by the Province under arrangement with the Dominion Government, some of these buildings were remodelled and are now in use by the Reformatory for housing prisoners and others are in course of remodeling for this purpose.

Some buildings will be dismantled and the materials used in connection with the erection of temporary buildings at the Ontario Agricultural College and the Ontario Veterinary College at Guelph.

#### **Industrial Farm, Burwash:**

Co-operation was given to the Superintendent of this Institution in the matter of their building programme which included the erection of staff residences being built from plans previously prepared by this Department.

A new boiler feed pump was supplied for camp No. 2 cell block.

#### **Ontario Reformatory, Guelph:**

At this Institution repairs were made to boilers generally and boilers Nos. 3 and 4 were completely retubed.

#### **Ontario Reformatory, Mimico:**

Working drawings were prepared and the work started in connection with complete overhaul and modernization of the brick and tile making plant as was required to increase the quality and production rate to meet the needs of this Department's future building programme.

Some new brick making equipment and machinery has already been ordered for this work.

#### **Industrial Farm, Monteith:**

This Institution as noted in previous reports is still on loan to the Department of National Defence and its occupancy was continued during this fiscal year.

#### **Andrew Mercer Reformatory, Toronto:**

Routine repairs were made and fire doors were installed on the paint shop.

#### **Boys' Training School, Bowmanville:**

On expiration of the Dominion Government's occupancy of this Institution it was arranged that they would undertake the work of restoring the buildings to the condition they were in when the Dominion Government first took over. This work has been done and the buildings and grounds returned to the use of the Province on June 13th, 1946. The Department of Reform Institutions took formal occupancy this date.

#### **Boys' Training School, Galt Division:**

General routine repairs were carried out. The boiler feed pump was completely overhauled and a motor was installed on the existing platform ash hoist.

A start was made on the preparation of working drawings for a residence for the Superintendent.

Assistance was given to the Institution in the matter of laying out an athletic field for the School and mechanical grading equipment was rented for grading purposes.

#### **Girls' Training School, Cobourg:**

General routine repairs were made including extensive repairs to the heating system and heating equipment in the McCook Residence and to the stoker and boiler in the Strathmore Residence.

The roof of the Gymnasium was re-shingled.

### DEPARTMENT OF LANDS AND FORESTS

#### **Saulte Ste. Marie:**

Working drawings were prepared, contracts awarded and the work started on a large addition and alterations to the Air Service Division hangar and workshops. The addition to the hangar will provide storage space for 50 planes together with a new engine test house, fabric shop and parts storage and office spaces and alterations and extensions of the present workshops, boiler plant, sea wall and ramps.

### DEPARTMENT OF TRAVEL AND PUBLICITY

In connection with the setting up of Tourist Reception Centres at various points of entry to the Province, the Public Works Department arranged for the purchase of prefabricated type buildings from the War Assets Corporation, prepared working drawings for the necessary alteration work and arranged for dismantling and removal of the buildings and their re-erection at the new sites.

Buildings, for this purpose, of the type referred to above, were purchased and construction started at the following locations:

Prescott,  
St. Catharines,  
Windsor, (Huron Line, Bridge Exit)  
Windsor, (Tunnel Exit)

At Ivy Lea, an existing building was purchased, plans prepared for necessary alterations and the work proceeded with.

Preliminary arrangements have been made and working drawings prepared for similar centres at:

Pigeon River, (Fort William District)  
Fort Francis,  
Kenora,  
Fort Erie.

### DEPARTMENT OF HIGHWAYS

Co-operation was given as usual to the Department of Highways in the matter of the preparation of working drawings and specifications for new Highways' buildings, and alteration to existing Highways' buildings. Supervision of the erection of these buildings was also undertaken by this Department and inspections were made of divisional headquarters and other buildings in connection with alteration work as required.

The work carried out in this connection included:

**Pembroke:**

Completion of double plow building.

**Huntsville:**

Survey and drawings made for minor alterations to garage building and installation of steam heating.

**Sudbury:**

Survey of garage and workshop in connection with proposed alterations.

**North Bay:**

Survey in connection with alterations to existing buildings and proposed new office building.

**Hamilton:**

Survey in connection with alterations and improvements to lighting system at the Divisional Headquarters buildings.

**Toronto District:**

Completion of Paint Shop building, Leaside.

Survey for minor alterations to building at Port Credit.

Survey for minor alterations to building at the Rouge River.

**ONTARIO GOVERNMENT OFFICE BUILDINGS****Ontario Government Building, Kingston:**

Extensive alterations were made to the Department of Health Laboratories in this building. The old lecture hall was subdivided, and additional laboratory and office spaces provided.

The electric lighting system was improved in the Highways Department offices and draughting room and also in the Health Department laboratories and offices.

**Ontario Government Building, New Liskeard:**

Routine repairs were made in this building.

**DRAWINGS AND REPORTS PREPARED AND OTHER WORK RENDERED FOR THE VARIOUS DEPARTMENTS OF THE GOVERNMENT**

In addition to the preparation of working drawings and specifications required for the various items of work carried out by this Department and recorded here-inbefore, the following items of work, of a special nature, and for projects not proceeded with during this fiscal year, are listed as a matter of record:

**For Department of Lands and Forests:**

Working drawings have been prepared for residences and workshops to be erected, next fiscal year, at various locations in Northern and North Western Ontario for the use of pilots at outpost stations of the Air Service Division.

Working drawings have also been prepared for a residence, ice house and workshop building for early construction at the White Lake Fish Hatchery.

Working drawings are now being made for a Fish Culture Research Laboratory at the Southern Experiment Station, Maple.

In addition to the foregoing working drawings we have also prepared sketch plans for the following work for future development:

Wildlife Building, Algonquin Park

Office Building, Kenora

Office Building, Eastern Forest Station, Kemptville

Block Plan of built up areas of Rondeau Park

**For Department of Agriculture:**

Working drawings were made and prices called in connection with the renovation of the mechanical refrigeration plant at the Brighton Cold Storage building.

A series of finished graphs and charts were made from layouts supplied by Department of Agriculture to show the flow of traffic and other data required in connection with the proposed new Food Terminal Warehouse, Toronto.

**For Department of the Attorney-General:**

Working drawings have been prepared for Radio Transmitter buildings to be built at eleven locations in South, South Eastern and South Western Ontario for the proposed new Provincial Police Radio System.

Working drawings were prepared for additions and alterations to the Provincial Police Lock-ups at Pickle Crow Lake and Geraldton.

Sketch plans were also made for a proposed addition to the Lock-up at Burk's Falls to provide living quarters for the constable.

**For Department of Health:**

Working drawings were prepared for extensive alterations and improvements to the central heating plant at the Ontario Hospital, Woodstock.

Working drawings are being made for a proposed new patients reception unit in the north building at the Ontario Hospital, London.

Sketch plans were made for a proposed extension of the laboratory facilities at Sault Ste. Marie.

**For Department of Prime Minister:**

Departmental organization charts were revised as required and photostatic copies arranged for.

**For Department of Reform Institutions:**

Working drawings were prepared for the following work at Reform Institutions:  
New Barn, Industrial Farm, Burwash.

Alterations to provide gymnasium at the Mercer Reformatory, Toronto.

Alterations to Administration Building, Ontario Reformatory, Guelph.

Alterations to Central Heating Plant, Ontario Reformatory, Mimico.

Residence for Principal, Boys Training School, Galt.

**For Department of the Provincial Treasurer:**

### PROVINCE OF ONTARIO SAVINGS OFFICES

Co-operation was given in the usual manner to the Head Office management of the Savings Offices in the matter of general routine maintenance and repair work at the branches where such work was requested and renewals of expiring leases were negotiated and arranged as directed.

### BOILER INSPECTION

The boiler inspection work of this Department, as in previous years, was carried out by the Heating Engineer, as an addition to his duties as Chief Stationary Engineer for the Parliament Buildings, assisted by the Inspector of Mechanical Services.

Excluding the plants which have been loaned to the Department of National Defence for their own operations and responsibility in connection with the Institutions loaned for purposes of World War II, the inspection work covered this year under the above heading may be described as follows:

The boilers and boiler equipment and heating equipment of the Legislative and Departmental Buildings, Osgoode Hall, Educational Buildings, Agricultural Buildings, District Buildings, Ontario Government Hospitals, Ontario Training Schools and Ontario Reformatories were inspected and reported upon for safety and proper operation and to determine the extent of the repairs and materials needed for such repairs to properly maintain and operate the power and heating plants in the various building groups referred to. In the case of the Ontario Hospitals and the Ontario Reformatories, the reports, as referred to, were sent to the Department of Health and Provincial Secretary, respectively, for their attention in the matter of making repairs recommended.

The recommendations contained in these reports regarding plants in all the other building groups, referred to in this section, were attended to by the Department of Public Works.

I have the honour to be, Sir,

Your obedient servant,

GEORGE N. WILLIAMS,  
Chief Architect.

Toronto, March 31st, 1947.



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# REPORT OF THE ENGINEER

---

Honourable G. H. Doucett, M.P.P.,  
Minister of Public Works.

January 29, 1948

Sir,—

I have the honour to report on the work done by the Engineer's Branch of the Department of Public Works, Ontario, during the fiscal year April 1, 1946, to March 31, 1947.

As usual, all work was done by day labour under local foremen, employing local men wherever possible.

The usual maintenance of locks, dams, docks and navigable channels was carried out. The South Dollars Dam, which was partly built in 1945, was completed, and a new stone and concrete dam was built on the Naiscoot River in Parry Sound District. Drainage work was done in eleven districts, and aid was given to nine drainage schemes under the Provincial Aid to Drainage Act.

Maintenance work was as follows:

All buoys taken out by the spring floods and ice were replaced to make the navigation channels safe for travel.

## **Pickernel River Dam, Parry Sound District**

A large hole had been washed out in the rock just below this dam and any further washing would have endangered one of the piers of the dam. This hole was filled with stone and concrete to prevent further erosion.

The earth dam on the ravine to the west of the main dam was strengthened by adding more fill on the upstream side.

## **Magnetawan Dams, Parry Sound District**

New plank decks were put on the dams at the locks and the dam on the south channel. A number of new stop logs were provided and all the piers of the dams were repaired as they had been damaged by the erosion of water and ice.

## **Walker Lake Dam, Muskoka District**

This timber dam had become badly decayed and was leaking so much that the lake could not be held at its proper level. The decayed timber was replaced, new sheeting put on the face, and gravel put on the sheeting to prevent leakage.

## **Deer Lake Dam, Parry Sound District**

This old timber dam was badly damaged by the spring floods and was leaking so much that the lake was very low most of the summer. Attempts to stop the leaks by sheeting and filling with brush, gravel and other material proved almost useless and it was decided that a new dam would have to be built before another season.

## **Port Sandfield Docks, Muskoka District**

Most of the top of these docks was renewed with new planking and made safe for traffic.

Minor repairs were made to several other docks, dams and locks.

### **Naiscoot River Dam, Parry Sound District**

This dam holds the water level up on Naiscoot Lake and Wilson Lake and makes possible a navigation route of about 10 miles for tourists. There was an old lumberman's timber dam at this site but it was badly decayed and could not hold the lakes at the proper level.

A new stone and concrete dam was built on the site of the old dam. The main dam is 40 feet long and 15 feet high at the centre. It has a sluiceway 8 feet wide and 8 feet deep and is provided with stop logs and winches to control the flow of water. There are two short wing dams on the east side and one on the west side of the main dam. A timber deck was provided to enable the operator to handle the stop logs.

### **Dollars Dam, Parry Sound District**

There are two dams on the Pickerel River at the outlet of Kawigamog Lake. Concrete dams have replaced both of the old timber dams. The north dam was built in 1943 and 1944. The south one was partly built in 1945 and completed in 1946. These dams are now in good condition and should require very little maintenance for many years to come.

### **Municipal Drainage**

Drainage work was carried out in the following districts: Sudbury, Nipissing, Algoma, South Renfrew, North Renfrew, Parry Sound, Frontenac, Victoria and Haliburton, Centre Simcoe, East Simcoe, and Peterborough.

### **Provincial Aid to Drainage**

#### **Ackert Drain, Kinloss Township**

This drain was repaired in accordance with the report, plans and specifications prepared by Mr. W. G. McGeorge, Civil Engineer, of Chatham, Ontario. These repairs consisted of deepening, widening and straightening the drain from the north limit of lot 7, Concession 11, to lot 12, Concession 5 in Kinloss Township, a total distance of  $5\frac{3}{4}$  miles. It was widened to a bottom width of 3 feet at the upper end and gradually widened to 18 feet at the lower end. The depth of cut averaged about  $2\frac{1}{2}$  feet except for a new section of ditch where it was moved off the road allowance between lots 10 and 11 for a distance of 2,000 feet. Here the depth of cut averaged a little over 5 feet. The side slopes were 1 to 1.

paid the Township of Kinloss according to the Act.

The total cost of the work was \$11,075.50, and on report a grant of \$2,215.10 was

#### **Tayside Drain, Roxborough Township**

This drain was improved in accordance with the report, plans and specifications prepared by the late Mr. F. Stidwell, Civil Engineer, of Cornwall, Ontario. The work consisted of deepening and widening the drain from the centre of lot 9, Concession 9, Roxburgh Township, to lot 14, Concession 1, South Plantagenet Township, a total distance of nearly  $5\frac{1}{2}$  miles. The depth of cut averaged about 2 feet and there were two rock bars which had to be blasted out. The bottom width was made 3 feet at the upper end, gradually widening to 5 feet at the lower end, and the side slopes were 1 to 1. Another trunk channel started at the middle of lot 11, Concession 9, and joined the main drain on lot 13, Concession 9, Roxborough Township. It has a total length of 4,875 feet, and a bottom width of 2 feet at the upper end and 3 feet at the lower end. The depth of cut averaged about 2 feet, with side slopes of 1 to 1.

The total cost of these trunk channels was \$10,937.65, and on report a grant of \$2,187.53 was paid the Township of Roxborough in accordance with the Act.

**McLeod Drain, Caledonia and Kenyon Townships**

This drain was repaired in accordance with the report, specifications and plans prepared by Mr. H. J. Walker, Civil Engineer, of Cornwall, Ontario. Work on the main channel started at the easterly limit of lot 17, Concession 9, Kenyon Township, and continued downstream to lot 24, Concession 8, Caledonia Township, a total distance of  $5\frac{3}{4}$  miles. It has a bottom width of 2 feet at the upper end and 6 feet at the lower end. The depth of cut varied from 4 to 8 feet, and there was considerable solid rock to blast out. Work on another trunk channel known as the West Branch started on lot 20, Concession 9, Kenyon Township, and continued north-easterly to lot 9, Concession 9, Caledonia Township, where it empties into the main channel. It has a total length of  $1\frac{1}{4}$  miles. The bottom width of this channel is  $2\frac{1}{2}$  feet throughout and the depth of cut about 3 feet. There was some rock to blast out on this channel. The side slopes on both channels were  $1\frac{1}{4}$  horizontal to 1 vertical.

The cost of both channels was \$25,171.71. On report a grant of \$5,034.34 was paid the Township of Caledonia, the initiating municipality, in accordance with the Act.

**Pollard Drain, Hullett Township**

This drain was repaired according to the report, specifications and plans prepared by Mr. F. A. Edgar, Civil Engineer, of Gorrie, Ontario. Work started on the main channel at the line between Concessions 13 and 14 on lot 17 and continued downstream to lot 25, Concession 10, Hullett Township, where it empties into the Maitland River, a total distance of a little over  $5\frac{1}{2}$  miles. It has a bottom width of 3 feet at the upper end and 6 feet at the lower end. The depth of cut averaged about 3 feet. Another channel starts on lot 20, Concession 11, and continues to lot 24, Concession 11, where it joins the main channel, a total distance of  $1\frac{3}{4}$  miles. It is 3 feet wide at the upper end and  $3\frac{1}{2}$  feet at the lower end. The depth of cut averaged about 3 feet. The side slopes were 1 to 1 for both channels.

The total cost of the work on both channels was \$12,221.73. On report a grant of \$2,444.35 was paid the Township of Hullett in accordance with the Act.

**No. 1 Government Drain, Tilbury East Township**

This drain was repaired in accordance with the report, specifications and plans prepared by Mr. C. G. R. Armstrong, Civil Engineer, of Windsor, Ontario. The repairs consisted of deepening and widening the old drain from the boundary road between Tilbury East and Romney Townships at the line between lots 9 and 10, Tilbury East, northerly across Tilbury East Township to its outlet into Jeannette's Creek at the boundary line between Tilbury East and Raleigh Townships, a total distance of  $11\frac{1}{2}$  miles. It has a bottom width of 5 feet at the upper end and gradually widens to 30 feet at the lower end. The depth of cut averaged about 2 feet and the side slopes are  $1\frac{1}{4}$  horizontal to 1 vertical.

The total cost of the work was \$26,051.80, and on report a grant of \$5,210.36 was paid to the Township of Tilbury East in accordance with the Act.

**Tunnel Drain, Romney Township**

This drain was repaired in accordance with the report, specifications and plans prepared by Mr. C. G. R. Armstrong, Civil Engineer, of Windsor. This drain has proven to be an expensive one to maintain as it is quite deep towards the lower end, being 35 feet deep where it enters the tunnel, which is an underground channel 1,000 feet long and carries the water to Lake Erie. The banks of the drain keep sliding in and filling it up so that it cannot drain the land. Work on the drain was started

at the line between lots 24 and 25 on the road between Concessions 2 and 3, Romney Township, and continued westerly, then southerly, to the tunnel, a total distance of 2 miles. In order to prevent the banks sliding in they were given a slope of 1½ horizontal to 1 vertical. This made considerable extra excavating and added greatly to the cost, especially in the deeper section of the drain. The bottom width was made 5 feet throughout and the depth of cut varied from 1 to 4 feet.

The cost of this work as reported by the Treasurer of the Township was \$15,705.85, and on report a grant of \$3,141.17 was paid to the Township of Romney according to the Act.

#### **Cole Drain, Niagara Township**

This drain was repaired according to the report, specifications and plans prepared by Mr. R. B. Erwin, Civil Engineer, of Niagara Falls, Ontario.

The work consisted of deepening and widening the old drain from lot 144 northerly and easterly to lot 108 where it empties into Four Mile Creek, a total distance of about 4 miles. It was widened to a bottom width of 4 feet at the upper end and gradually widening to 8 feet at the lower end. The depth of cut averaged about 4 feet and the side slopes are 1¼ horizontal to 1 vertical.

The cost of the work as certified to by the Treasurer of the Township was \$14,923.45. On report a grant of \$2,984.69 was paid to the Township of Niagara in accordance with the Act.

#### **Spring Creek Drain, Wallace Township**

This drain was repaired according to the report, specifications and plans prepared by Mr. R. W. Code, Civil Engineer, of London, Ontario. Work on this drain started at the town line between Wallace and Elma Townships on lot 34, Concession 1, Wallace, and continued northwesterly to lot 38, then southwestly to lot 42, Concession 1, Wallace Township, then south into Elma Township, then westerly across lots 10 to 1, Concession 1, Elma Township, and then westerly across lot 70, Concession 1, Grey Township, a total distance of a little over 4¼ miles. The drain has a bottom width of 3 feet at the upper end and 7 feet at the lower end. The average depth of cut was about 2 feet, and side slopes are 1 to 1.

The final cost of this work as reported by the Treasurer of Wallace Township was \$11,498.56, and on a report a grant of \$2,299.71 was paid to the Township of Wallace according to the Act.

#### **McDougall Drain, Tilbury East Township**

This drain was repaired according to the report, specifications and plans prepared by Mr. C. G. R. Armstrong, Civil Engineer, of Windsor. Work started on the old drain at the South Rear Road on the line between lots 12 and 13, and extended northerly and easterly to a point where the road between Concessions 5 and 6 meets the boundary road between Tilbury East and Raleigh Townships, where it empties into No. 1 Government Drain. The total length of drain improved was 6½ miles. It was widened to a bottom width of 3 feet at the upper end and gradually widened to 15 feet at the lower end. The side slopes are 1¼ horizontal to 1 vertical.

The cost of this work as reported by the Treasurer of Tilbury East Township was \$10,853.20, and on report a grant of \$2,170.64 was paid to the Township of Tilbury East in accordance with the Act.

I have the honour to be, Sir,

Your obedient servant,

J. W. HACKNER,

Engineer of Public Works.

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**STATEMENTS**  
OF THE  
**ACCOUNTANT**  
OF  
**Public Works Department**  
1946 - 1947

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Department of Public Works, Ontario,

TORONTO, March 31st, 1947.

The Honourable George H. Doucett, M.P.P.,  
Minister of Public Works.

Sir:—

I have the honour to submit detailed statements of Ordinary Expenditure of Civil Government and maintenance and repairs of Government Buildings and Public Works; also Capital Expenditure on Provincial Public Buildings and Public Works, during the fiscal year which ended on the 31st of March, 1947.

I have the honour to be, Sir,

Your obedient servant,

S. WOOD,  
Secretary and Accountant

## SUMMARY OF EXPENDITURE

FOR FISCAL YEAR APRIL 1st, 1946 to MARCH 31st, 1947

Service	Ordinary	Capital	Total
Main Office—Administration expenses, etc. ....\$	154,254.68		154,254.68
Maintenance and Repairs—Government Bldgs.	973,583.16		973,583.16
Public Works—Maintenance .....	13,767.06		13,767.06
Public Buildings .....		1,384,991.39	1,384,991.39
Public Works .....		14,557.12	14,557.12
Miscellaneous .....		19,538.68	19,538.68
Statutory — Drainage Aid .....	27,687.89		27,687.89
<b>TOTAL NET EXPENDITURE .....</b>	<b>\$ 1,169,292.79</b>	<b>1,419,087.19</b>	<b>2,588,379.98</b>

## STATEMENT OF REVENUE

Commissions on telegraphs and telephones. ....\$	4,581.96		4,581.96
Sale of materials .....	4,096.64		4,096.64
Rentals .....	31,697.05		31,697.05
Perquisites .....	1,866.00		1,866.00
Building equipment .....	249.50		249.50
Miscellaneous .....	440.55		440.55
Compensation from Dominion Government re. leasing of Provincial buildings for war purposes .....	5,725.00		5,725.00
Sale of property .....		63,740.00	63,740.00
Contract security deposits .....		38,033.40	38,033.40
	<b>\$ 48,656.70</b>	<b>101,773.40</b>	<b>150,430.10</b>

STATEMENT OF EXPENDITURE, MAIN OFFICE, MAINTENANCE  
REPAIRS and CONSTRUCTION of PUBLIC BUILDINGS  
FOR FISCAL YEAR ENDING MARCH 31st, 1947

## ORDINARY

## MAIN OFFICE:

Service	Amount	Amount
Salaries .....	\$ 114,062.07	
Travelling expenses .....	4,602.41	
Maintenance .....	8,399.21	
Insurance and lightning rods .....	21,105.00	
Local Improvement taxes .....	176.84	
Gratuities .....	5.00	
Compensation—medical, hospital and other accounts for workmen injured in Government work .....	3,171.08	
Cost-of-living bonus—entire Department .....	320.09	
Unemployment insurance stamps .....	2,412.98	154,254.68

## GENERAL SUPERINTENDENCE:

Salaries .....	\$ 26,572.12	
Services, travelling and other expenses .....	7,321.92	33,894.04

## LIEUTENANT-GOVERNOR'S APARTMENT:

Salaries .....	3,955.98	
Maintenance .....	999.74	4,955.72

## LEGISLATIVE and DEPARTMENTAL BUILDINGS:

## Administrative Services:

Salaries .....		36,513.11	
Telephone service .....		55,108.00	
Typewriter inspection and repairs—all Departments...		6,842.92	
Maintenance Staff—			
Salaries—Permanent .....	\$ 64,448.30		
Temporary .....	175,339.90		
Casual .....	45,036.32	284,824.52	

## Maintenance—

Fuel, light, gas, water and power .....	95,383.64		
Furniture, furnishings and equipment .....	3,069.41		
Cleaning supplies, upkeep of grounds .....	28,433.53	126,886.58	

## Mechanical Staff—

Salaries .....	86,967.94		
Repairs to buildings—Repairs and alterations .....	55,717.50	142,685.44	

		652,860.57	
Deduct Rentals .....		3,000.00	649,860.57

## OSGOODE HALL:

Salaries—Permanent .....	\$ 17,632.89		
Temporary .....	15,926.05		
Casual .....	4,593.63	38,152.57	

## Maintenance —

Fuel, light, water and power .....	6,051.62		
Furniture, furnishings and equipment .....	239.31		
Telephone service .....	2,875.88		
Cleaning of buildings and incidentals .....	1,268.62		
General repairs and alterations .....	11,175.13	21,610.56	59,763.13

## GOVERNMENT BUILDINGS:

Repairs, alterations and incidentals .....		25,023.57	
Educational Buildings .....			
To provide for expenses in connection with leasing of Normal School, Ottawa to Dominion Government. (Recurring charges recoverable from Dom. Government, in accordance with Agreement) .....		526.65	
Agricultural Buildings .....		30,979.85	
Training Schools .....		3,971.49	
District Buildings .....		28,003.06	
Salary of Caretaker—Temiskaming .....		1,174.92	
Government Building, Matheson—Maintenance .....		11.96	
Ontario Hospitals .....		65,461.62	155,153.12

## PUBLIC WORKS:

Maintenance—			
Salaries: Lockmasters, Supervising Foremen, etc. ....	\$ 5,273.35		
Repairs to locks, dams, etc. ....	7,291.92		
Equipment .....	120.07		
Maintenance of Hawkesbury-Grenville Bridge .....	1,081.72	13,767.06	



## ONTARIO GOVERNMENT OFFICE BUILDINGS:

## KINGSTON:

## Maintenance:

Salaries of Caretakers .....	1,460.64	
Cleaning supplies, fuel, electricity, water, repairs and incidentals .....	4,369.40	5,830.04
	<hr/>	

## GENERAL:

Rental and caretaking of leased premises and expenses in connection therewith .....	14,176.60	14,176.60
	<hr/>	

## MISCELLANEOUS:

To provide for the costs of moving patients, inmates and staffs of Provincial Institutions leased to the Dominion Government for war purposes, including repairs and alterations to buildings and all expenses in connection with providing quarters during the terms of the agreements and for restoring buildings under terminating agreements (lump sum payments received from Dominion, as per agreement, deposited as revenue) .....

	49,949.94	49,949.94
	<hr/>	

## STATUTORY — DRAINAGE AID:

## Townships of—

Hullett .....	2,444.35	
Caledonia .....	5,034.34	
Kinloss .....	2,215.10	
Romney .....	3,141.17	
Wallace .....	2,299.71	
Roxborough .....	2,187.53	
Tilbury East .....	7,381.00	
Niagara .....	2,984.69	27,687.89
	<hr/>	

TOTAL ORDINARY EXPENDITURE .....		<u>\$ 1,169,292.79</u>
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## CAPITAL

Service	Amount	Amount
<b>PUBLIC BUILDINGS:</b>		
To provide for the construction of new buildings and works, purchase of lands and other expenses, including additions, alterations, equipment and extension of services to existing buildings and works	\$ 1,384,991.39	1,384,991.39
<b>PUBLIC WORKS:</b>		
Municipal Drainage, including Grants in aid thereof	7,440.87	
Storage Dams and Docks	7,116.25	14,557.12
<b>MISCELLANEOUS:</b>		
Grant towards the cost of a flood control and drainage scheme known as the Nolins' and Junction Creek Drainage Works in the City of Sudbury	15,000.00	
Grant of 37 $\frac{1}{2}$ % of the cost of surveys and preparation of plans for further development of works of the Grand River Conservation Commission	2,312.50	
Grant to the Township of Harwich in the County of Kent towards the cost of the construction of Shrewsbury Dock	1,726.18	19,538.63
<b>TOTAL CAPITAL EXPENDITURE</b>		<u>\$ 1,419,087.19</u>

## SUMMARY

## ORDINARY EXPENDITURE:

Main Office and Maintenance and Repairs of Government Buildings	\$ 1,169,292.79
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## CAPITAL EXPENDITURE:

Public Buildings and Public Works	1,419,087.19
	<u>\$ 2,588,379.98</u>

TORONTO, March 31st, 1947.

**The Twenty-Eighth Report**  
of the  
**Department of Labour**  
**Province of Ontario**  
for the fiscal year ending March 31  
**1947**

Printed by Order of  
**THE LEGISLATIVE ASSEMBLY**  
(Sessional Papers Number 10, 1948)



TORONTO

Printed and Published by Baptist Johnston, Printer to the  
King's Most Excellent Majesty  
1947

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DEPARTMENT OF LABOUR  
 PROVINCE OF ONTARIO  
 PARLIAMENT BUILDINGS TORONTO  
 (EAST BLOCK)  
 ORGANIZATION CHART  
 WITH CHAIN OF RESPONSIBILITY

DATE	JUNE	1947
TOTAL PERSONNEL OF DEPARTMENT		
DEPARTMENT OF LABOUR (NOT INCLUDING PER DIEA STAFF)		191
WORKMEN'S COMPENSATION BOARD		439
TOTAL PERSONNEL		630

MINISTER OF LABOUR		
HON CHARLES DALEY	ROOM	TEL
	6902	773-4
SECRETARY		
MRS. K. M. BYRNES		

PERSONNEL 2

DEPUTY - MINISTER		
J. B. METZLER	ROOM	TEL
	6430	580
SECRETARY		
HELEN DAVIS		581

PERSONNEL ~ 19

WORKMEN'S COMPENSATION BOARD		
CHAIRMAN	ROOM	TEL
SECRETARY		
S. R. JOHNSTON		AD 7051
CANADA LIFE BUILDING		
ADMINISTERS THE WORKMEN'S COMPENSATION ACT		

PERSONNEL 439

BOARD OF EXAMINERS OF OPERATING ENGINEERS		
CHAIRMAN	ROOM	TEL
JOHN SWARP	6614	588-9
ADMINISTERS THE OPERATING ENGINEERS ACT		

PERSONNEL - 13

BOILER INSPECTION BRANCH		
CHIEF INSPECTOR	ROOM	TEL
J. N. DRIGGS	6906	583-4
ADMINISTERS THE STEAM BOILER ACT		

PERSONNEL - 24

CONCILIATION SERVICE		
CHIEF CONCILIATION OFFICER & INDUSTRIAL STANDARDS OFFICER	ROOM	TEL
LOUIS FINE	6407	599

PERSONNEL - 7

FACTORY INSPECTION BRANCH		
CHIEF INSPECTOR	ROOM	TEL
E. H. GILBERT	6503	585-4
MECHANICAL ENGINEER & EXAMINER OF PLANS	ROOM	TEL
G. G. GIBSON	6534	590 595
ADMINISTERS THE FACTORY, SHOP AND OFFICE BUILDING ACT		

PERSONNEL - 52

APPRENTICESHIP BRANCH		
DIRECTOR	ROOM	TEL
F. J. HAWES	6427	582 583
ADMINISTERS THE APPRENTICESHIP ACT UNDER DIRECTION OF THE INDUSTRY & LABOUR BOARD		

PERSONNEL - 38

THE INDUSTRY-LABOUR BOARD		
CHAIRMAN & INDUSTRIAL STANDARDS OFFICER	ROOM	TEL
ERIC BILLINGTON	6609	777-89
ADMINISTERS THE MINIMUM WAGE ACT, THE APPRENTICESHIP ACT, THE INDUSTRIAL STANDARDS ACT AND THE HOURS OF WORK AND VACATIONS WITH PAY ACT, 1944		

PERSONNEL ~ 9

MINIMUM WAGE BRANCH		
DIRECTOR	ROOM	TEL
PATTERSON FARMER	6602	552
ADMINISTERS THE MINIMUM WAGE ACT UNDER DIRECTION OF THE INDUSTRY & LABOUR BOARD		

PERSONNEL - 13

ONTARIO LABOUR RELATIONS BOARD		
CHAIRMAN	ROOM	TEL
HIS HON JUDGE IAN M. MACDONELL		
ALTERNATE CHAIRMAN		
P. M. DRAPER		
CHIEF EXECUTIVE OFFICER 15 QUEEN'S PARK		
D. V. MATHER	6	771-2
ADMINISTERS THE LABOUR RELATIONS BOARD ACT, 1944 AND THE LABOUR RELATIONS BOARD ACT, 1947		

PERSONNEL 14  
PER DIEA MEMBERS 7

NOTE:  
 Except As Noted ALL  
 Telephone Numbers are  
 Local on Adelaide Street



TO HIS HONOUR

THE LIEUTENANT-GOVERNOR IN COUNCIL

May It Please Your Honour:

The undersigned has the honour to present to Your Honour the twenty-eighth Report of the Department of Labour of the Province of Ontario for the fiscal year ending March 31, 1947.

All of which is respectfully submitted.

CHARLES DALEY,

Minister of Labour.



# REPORT OF THE DEPUTY MINISTER OF LABOUR For the Fiscal Year Ending March 31, 1947

TO THE HONOURABLE CHARLES DALEY,  
MINISTER OF LABOUR.

SIR:

I have the honour to submit to you a report on the work of the Department of Labour for the fiscal year ending March 31, 1947.

Each branch of the Department has given a detailed account of its activities which is appended hereto and such account should be taken as fulfilling any statutory requirement imposed on a branch or board to make an annual report on its work.

A perusal of the report of each branch will reveal that the volume of work handled by the Department of Labour in the past fiscal year has increased considerably. In large measure this has been due to a heavy programme of expansion which has been going on in industry. A glance at the report of the Factory Inspection Branch will indicate that the number and value of plans examined and approved for new or additional industrial construction have risen sharply. It may well be said that this is a good omen for the future in respect of employment and for the material welfare of the people of Ontario.

I am happy to be able to report that the Factory Inspection Branch and the Composite Inspection Branch are rapidly reducing the backlog of work which grew out of the heavy expansion of industry in the war years, and that the work will be caught up during the next few months. It is my confident hope that at the end of the next fiscal year we shall find that a reorganization of inspection districts will have been completed and that additional, trained, competent personnel will be available to meet the expanding requirements of the Branch. It should be said, in passing, that industry has co-operated whole-heartedly in connection with our factory inspection work.

A review of the work done by the Board of Examiners of Operating Engineers reveals that it has increased considerably. The number of persons holding current certificates is 18,486 which represents an increase of approximately 1,000 over the previous fiscal year. During the war years there was a serious shortage of qualified engineers of all categories, but in some measure this deficit has been met. It is interesting to note that veterans who have applied to qualify were markedly successful. It should be borne in mind, however, that the increase in qualified engineers which has taken place in the past year will not remove the opportunity for young men to find suitable employment and excellent prospects for advancement in this field as the industrial picture in this Province unfolds.

I wish to draw your attention to the activities of the Canadian Steam Boiler Institute and to its conference held in January, 1947, at which this Department was represented by the Chief Inspector of the Boiler Inspection Branch. It is expected that out of such discussions will come proposals which will be of assistance in seeing that the highest requirements in reference to safety will be made uniform in Canada in connection with boiler inspection.

A perusal of the report of the Chief Conciliation Officer indicates that a great measure of success has been attained in lessening and resolving industrial disputes. The work of conciliation, mediation and arbitration has continued its important role in the activities of the Department and the work is increasing in volume.

As you will note from the report made on behalf of the Ontario Labour Relations Board, the volume of work handled by the Board has increased, and it is likely to continue to do so with the termination of the arrangements between Ontario and the Dominion, which was forecast for March 31, 1947, in respect of the administration of the Wartime Labour Relations Regulations.

I feel that I should not let the occasion of the dissolution of the Regional War Labour Board for Ontario pass without paying tribute to the representatives of labour and management who served on it. Their conduct, their realistic viewpoints, and their confidence in one another have set an example of the high plane of co-operation which can be reached between management and labour in dealing with problems of mutual interest. I had the honour to have a close association with these gentlemen from March, 1943, until March, 1947, as Chief Executive Officer of the Board.

The activities of The Industry and Labour Board in reference to the administration of The Hours of Work and Vacations with Pay Act, 1944, The Industrial Standards Act and The Minimum Wage Act have had an important effect on the welfare of people engaged in industry in Ontario. The full details of the work of the Board, including that of the Minimum Wage Branch, during the year are set out in its report.

The report of the Apprenticeship Branch will prove gratifying. There is an ever-expanding field for young men and women to take training in trades and crafts which are vital to our progress. It is interesting to note that our apprenticeship training has expanded greatly and that more and more young people have realized that there are excellent opportunities for education and employment to be found as a result of training obtained under the apprenticeship scheme.

#### LEGISLATION

No major changes in legislation became effective in the fiscal year 1946-47, although several important matters were before the Legislature for consideration at its session which adjourned on April 3, 1947. Reference will be made to these in the next annual report.

During the year the trade of worker in servicing and installing air-conditioning or refrigerating equipment was designated under The Apprenticeship Act.

New regulations were also made under The Factory, Shop and Office Building Act for the improvement of working conditions in terminal and other large grain elevators.

#### PERSONNEL

It is with regret that I note the passing of several valued and esteemed members of the staff of the Department of Labour. Mr. Walter Thorne, an inspector in the Apprenticeship Branch, Miss Marion Findlay, who had been acting as Statistician to the Department, Mr. Norman S. Smith, an inspector in the Boiler Inspection Branch, and Mr. J. R. Prain, Chief Inspector of the Factory Inspection Branch, were long-service employees of the Department and watched it develop to its present, important position in the public service. Each of them contributed a full share to its progress. Their deaths are much regretted by their associates in the Department.

During the fiscal year the undersigned was appointed Deputy Minister of Labour.

Several of the valued employees of the Department retired on superannuation, namely, Mr. J. M. Kelly, Mr. Robert Albrough and Mrs. M. L. Ferguson, inspectors of the Composite Inspection Branch, Mr. A. E. Palmer, an inspector in the Apprenticeship Branch, and Mr. W. G. Kent, a clerk in the Main Office. The services of Mr. Kelly have been retained on a temporary basis.

All of which is respectfully submitted.

J. B. METZLER,

Deputy Minister of Labour.

## FACTORY INSPECTION BRANCH

CHIEF INSPECTOR, DEPARTMENT OF LABOUR: E. H. GILBERT

The sixty-first annual report of the Factory Inspection Branch covers the fiscal year ending March 31, 1947. It is with sincere regret that the death of Mr. J. R. Prain is reported. Mr. Prain served this Branch for over twenty-five years and was Chief Inspector since 1933. His knowledge and broad experience earned him the respect of employers and employees throughout the Province.

### INDUSTRIAL HAZARDS

Accidents reported under sections 59, 60 and 61 of The Factory, Shop and Office Building Act showed a further decline for the period under review, being approximately twenty per cent lower than during the previous twelve months. This reduction was noted in all classes of industry except in lumbering where a slight increase over the previous year was recorded. A reduction of about thirty per cent in the number of reportable accidents in the metal trades is of particular interest.

### HOURS OF WORK

The continual trend to shorter daily and weekly working hours is shown in the statistical section of this report. It is desirable that inspections should be made of industries during their peak seasonal period of production and accordingly many of those firms shown working in excess of the forty-eight-hour week are working on seasonal permits issued by The Industry and Labour Board. This trend to shorter hours has resulted in a further reduction of the number of overtime permits issued for the employment of women later than 6.30 p.m. Overtime permits were issued to 373 firms this fiscal year as compared with 530 firms during the previous year.

In an effort to maintain industrial production under these circumstances there is a wider use of the double-shift permit which enables the employment of women in factories on two shifts, neither to exceed eight hours. Two hundred firms used these permits as compared with 108 during the previous year and ninety-three in 1944-45.

### RESTAURANTS

One hundred and twelve additional permits under section 29 of The Factory, Shop and Office Building Act were issued to restaurant proprietors for the employment of women over eighteen years of age until 2 a.m. The issuance of such permits, however, does not release the employer from complying with the provisions of The Hours of Work and Vacations with Pay Act, 1944.

Under the provisions of these permits the daily period of employment must be completed within twelve consecutive hours, and transportation direct to the worker's home must be provided, and a bonus of thirty cents a night paid in addition to regular wages. Court action was resorted to in one instance when a restaurant proprietor was convicted for violation of this regulation.

### CHILD LABOUR

The problem of child labour was not a major one during the year. Only seventy-three cases of alleged violations of the section of the Act prohibiting child labour were reported as compared with 238 in 1945-46 and 444 in 1944-45. In most instances these cases develop during the school recess and are corrected immediately without recourse to prosecution. Regulations governing

the employment of children are understood generally. The violations are due mainly to false statements of age being made by young persons and carelessness of employers in checking these statements.

#### HOMEWORK

During the year 524 employers' permits were issued under section 49 of The Factory, Shop and Office Building Act to different firms authorizing them to give out work to be done in homes at rates approved by The Industry and Labour Board. Homeworkers' permits were issued to 2,302 persons undertaking manufacturing or assembling of household articles or articles of wearing apparel. Premises, where the work is undertaken, are inspected to ensure that conditions in the home are satisfactory.

#### GENERAL

Extensive regulations for the improvement of working conditions and control of hazards in grain elevators were approved during the year as a result of which the operators will be compelled to undertake large expenditures to improve the conditions and the safety appliances in such structures.

Three members of the field inspection staff were superannuated during the year and these vacancies were filled by transfer and appointment. Plans will be put into effect shortly to revise the inspectorial districts throughout the Province which will reduce district boundaries and ensure more frequent inspections of industrial premises.

All inspectors met in convention with officials of the Department of Labour and Division of Industrial Hygiene, Department of Health, during the winter and opportunity was offered for discussion of the problems which confront them in the field.

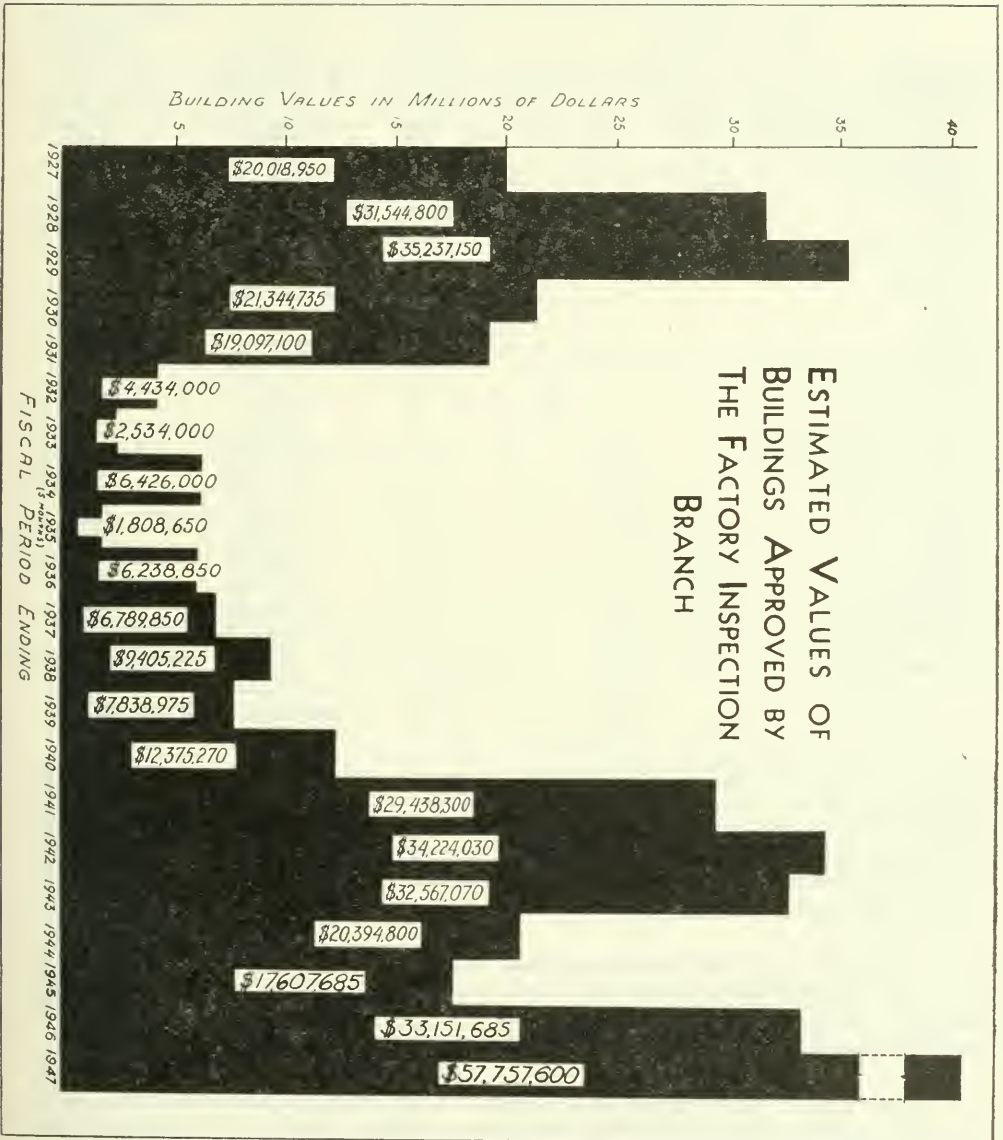
Sincere appreciation is expressed to the Director, Division of Industrial Hygiene, and to the members of his staff for their expert and efficient services made available to this Branch in the prevention of accidents and industrial diseases.

#### PLANS FOR BUILDINGS

The plans of 1,199 new factories, shops and office buildings, or additions and alterations to such buildings, were approved during the fiscal year. The total estimated construction cost amounted to \$57,757,600. During the preceding fiscal year 913 plans had been approved for construction work valued at \$33,151,685.

The number and the value of the approved construction projects exceeded all previous maxima shown in the Branch's records. The total value of \$35,237,150 for 1929 was exceeded by \$22,520,450.

The total values during the fiscal years 1927 to 1947 are shown on the graph on page 9. One hundred and eleven approvals or 10.8 per cent of the total were for buildings which cost \$100,000 or more.



The following table has been compiled to compare the growth of the various industries and trades in the Province during the year:

CLASSIFICATION OF APPROVED BUILDING PLANS

Trade or Industry	Number of plans	Value of buildings	Percentage of total value
Bakeshops.....	14	\$ 554,300	.96
Chemicals.....	135	6,362,500	11.01
Clay, glass and stone.....	34	1,136,100	1.96
Clothing.....	46	1,126,300	1.95
Conveyances.....	10	866,500	1.51
Food.....	122	6,505,200	11.22
Garages.....	96	2,424,200	4.22
Laundries and cleaners.....	29	440,200	.76
Leather.....	12	259,300	.45
Lumber.....	12	69,500	.12
Metals.....	298	8,937,000	15.46
Offices.....	43	6,675,300	11.55
Paper trades.....	31	9,236,200	16.02
Plastic working.....	11	268,900	.47
Printing and publishing.....	33	3,128,200	5.42
Restaurants.....	8	201,000	.35
Rubber.....	19	1,348,600	2.33
Shops.....	37	1,561,100	2.71
Textiles.....	36	2,801,900	4.86
Warehouses.....	62	1,859,800	3.21
Wholesale.....	12	716,300	1.24
Woodworking.....	77	865,400	1.50
Unclassified.....	22	413,800	.72
<b>TOTAL.....</b>	<b>1,199</b>	<b>\$57,757,600</b>	<b>100.00</b>

The metals industries had the largest number of plans approved and the total value of the projects immediately followed the paper trades. In the two preceding years the metal-working industries had had the largest number and the highest value of approved projects. There has been continued improvement in working conditions in foundries, brought about by the installation of mechanical ventilation and by mechanizing the sand preparation, moulding and shake-out operations as much as practicable.

Construction of new office buildings is shown to be in third place in value. The majority of this type of construction was done in Toronto. Included in this group are new buildings for telephone services which are now being expanded to compensate for the entirely restricted construction of such buildings during the war years.

The chemical industry dropped from its second place last year to fourth place this year in the list of construction values although the difference was only slightly over \$1,000,000. The extension of paint and varnish factories, for the second successive year, comprised the largest proportion of the chemical industries' building projects.

On July 20, 1946, the regulations for grain elevators were published in the Ontario Gazette and Ontario became the first province to enact specific legislation for the improvement of working conditions in terminal and other large grain elevators. The industry has been supplied with the basic requirements and as quickly as the materials and trained workmen become available, the

necessary improvements in existing elevators are being made. The installation of mechanical dust-control equipment involves large expenditures and systems costing one to two hundred thousand dollars for each elevator are not uncommon. However, the great reduction of possible dust explosions and the increase of healthier working conditions generally more than compensate for these capital expenditures. A large elevator was approved for construction in Toronto and every requirement of the new regulations has been incorporated in the filed drawings.

Twelve hundred and thirty-one office interviews with architects, engineers and employers were held regarding the approval of building plans. This number represents an increase of 228 over last year's total of 1,003 interviews and is the maximum number recorded to date.

One hundred and eight field inspections were made by the Examiner of Plans to facilitate plan approvals and to investigate the unsafe buildings, insufficient exits, hazardous processes and other questions requiring special technical knowledge.

### INSPECTION STATISTICS

The following is the distribution of the services rendered by the inspectors of the Composite Inspection Branch:

FACTORY INSPECTION BRANCH:	1946	1947
First inspection.....	17,070	18,219
Second inspection.....	5,604	4,175
Visits re fruit camps.....	42	23
	22,716	22,417
Apprenticeship Branch.....	1,158	1,178
Industrial Standards Branch.....	361	327
Main Office.....	1,169	2,938
Minimum Wage Branch.....	384	512
Operating Engineers Branch.....	773	355
Steam Boiler Branch.....	2,346	963
	6,191	6,273
TOTALS.....	28,907	28,690

In addition there were investigations of accidents and the usual visits, office calls and conferences incidental to inspections.

The number of orders issued relating to various requirements of The Factory, Shop and Office Building Act totalled 11,050 as compared with 17,017 during the previous year.

Employees in the above-visited industries, mercantile establishments and office buildings number 494,983, classified as follows:

Fiscal years	Males over 16	Males 14-16	Females over 18	Females 14-18	Totals	Children under 14 dismissed
1946	400,946	3,287	214,194	3,953	622,380	238
1947	339,665	1,386	151,840	2,092	494,983	73

## WEEKLY HOURS OF LABOUR

## Male Employees

Hours	Up to 49	50-53	54-57	58 and over	Totals
Firms 1946 . . . . .	10,075	1,011	204	633	11,923
Firms 1947 . . . . .	11,067	362	261	312	12,002
Employees 1946 . . .	357,591	18,902	7,911	11,551	395,955
Employees 1947 . . .	312,321	12,336	6,560	3,767	334,984

## Female Employees

Hours	Up to 49	50-53	54-57	58 and over	Totals
Firms 1946 . . . . .	8,152	155	42	94	8,443
Firms 1947 . . . . .	8,244	124	37	29	8,434
Employees 1946 . . .	201,562	5,712	1,912	5,081	214,267
Employees 1947 . . .	144,411	3,594	1,196	1,952	151,153

## Total Employees

Hours	Up to 49	50-53	54-57	58 and over	Totals
1946 . . . . .	559,153	24,614	9,823	16,632	610,222
1947 . . . . .	456,732	15,930	7,756	5,719	486,137

Also 499 firms employ 6,067 males and 364 firms employ 2,779 females working approximately fifty hours a week.

## VIOLATIONS

Violations of the acts in the enforcement of which the inspectors have a responsibility were reported as follows:

	1946	1947
The Adolescent School Attendance Act . . . . .	44	1
The Minimum Wage Act . . . . .	2,394	3,095
The Operating Engineers Act . . . . .	145	152
The Steam Boiler Act . . . . .	5	....
<b>TOTALS . . . . .</b>	<b>2,588</b>	<b>3,248</b>

Violations of The Minimum Wage Act were chiefly cases of carelessness on the part of employers in neglecting to keep minimum-wage cards posted in their establishments.



## COMPLAINTS

One hundred and twenty-seven complaints were received during the fiscal year. Upon investigation, sufficient grounds for complaint were found in seventy-three cases, insufficient grounds in fifty-two cases and two cases concerned matters not under the jurisdiction of the Factory Inspection Branch. Some investigations covered more than one complaint. Subjects of complaint were as follows:

	1946	1947
Adolescents.....	8	17
Child labour.....	14	14
Dust.....	3	8
Elevators.....	6	6
Fire hazards.....	6	3
Fumes.....	9	8
Guarding machinery.....	6	3
Lack of heat.....	13	12
Long hours.....	15	13
Lunch period.....	3	..
Lunch- and dressing-rooms.....	2	1
Miscellaneous.....	23	17
Multiple.....	5	1
Exits.....	3	1
Sanitation.....	11	5
Toilet accommodation.....	16	14
Ventilation.....	3	4
Totals.....	146	127

## PROSECUTIONS

Three charges were laid against one employer under section 29 of The Factory, Shop and Office Building Act for the employment of females in his restaurant later than 2 a.m. and convictions were recorded on each charge and fines assessed.

## ACCIDENTS

During the year 10,977 accidents were reported to the Factory Inspection Branch as compared with 13,466 in 1946. Forty-two of the accidents proved fatal as compared with sixty-two for the preceding year, and 601 of the total accidents happened to female workers.

Fatalities were due to,—

Burns and scalds.....	3
Cranes and derricks.....	5
Elevators.....	1
Electricity.....	5
Engines and cars.....	1
Explosions.....	2
Falling substances.....	1
Falls.....	8
Jammed between articles.....	2
Belts, pulleys and shafting.....	3
Saw.....	2
Trucking.....	1
Other machinery.....	4
Miscellaneous causes.....	2
Fumes.....	2
Total.....	42

**PROVINCE OF ONTARIO -  
Summary of Accidents for the**

Cause of Injury	Head and Face				Upper Extremities							Trunk							
	Face	Head	Eyes	Ears	Hand	Fingers	Thumb	Arm	Shoulder	Wrist	Elbow	Other	Ribs	Thigh	Back	Stomach	Chest	Side	Hips
Burns and scalds.....	15	7	38	3	41	20	5	43	5	11	1	4	...	1	4	...	...	...	...
Cranes and derricks.....	...	4	...	...	5	11	7	...	...	...	...	2	...	...	2	1	...	...	...
Elevators.....	1	4	...	...	5	7	3	3	2	2	1	...	...	...	6	1	...	1	...
Electricity.....	1	...	9	...	...	...	1	...	...	...	...	3	...	...	1	...	...	...	...
Engines and cars.....	...	2	...	...	1	5	...	2	...	2	1	3	...	...	2	1	...	...	...
Explosions.....	4	1	4	...	3	3	1	1	...	...	...	2	...	...	1	...	...	...	...
Falling substances.....	11	45	2	...	53	109	21	27	15	21	5	9	13	5	17	1	5	2	5
Falls.....	10	32	5	1	33	17	11	44	43	67	31	38	106	3	102	20	39	15	...
Flying missiles.....	17	7	292	1	11	7	2	9	...	3	1	5	...	...	...	2	...	3	...
Foreign substances in eyes.	...	...	34	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hand tools.....	4	3	3	...	37	41	23	3	...	2	3	3	2	...	...	1	1	...	...
Hooks, chains, cables.....	1	3	1	...	10	12	1	4	...	3	1	1	...	1	1	...	...	...	...
Infected wounds.....	3	3	10	...	142	292	85	35	...	20	14	6	...	1	2	...	...	1	...
Jammed between articles.....	...	1	...	...	69	316	67	10	2	7	1	3	2	3	2	2	2	2	2
Sprains and strains.....	...	...	...	...	17	17	14	53	83	63	7	35	2	5	548	7	23	136	11
Rolls.....	...	...	...	...	14	28	5	3	...	1	...	...	...	...	...	1	...	...	...
Gears, cogs, sprockets.....	...	...	...	...	7	23	3	1	...	...	...	1	...	...	...	...	...	...	...
Belts, pulleys, shafting.....	...	3	...	...	17	29	7	13	2	1	1	...	...	...	1	...	1	...	...
Saws.....	1	2	...	...	33	74	38	3	...	1	...	2	1	...	...	1	...	1	...
Planer.....	...	...	...	...	3	16	5	1	...	...	...	...	...	...	...	...	...	...	...
Drill.....	...	3	...	...	10	21	11	7	...	3	...	...	...	...	...	...	...	...	...
Milling machinery.....	...	...	...	...	3	10	4	1	...	1	...	...	...	...	1	...	...	...	1
Shears.....	...	...	1	...	2	23	4	2	...	1	...	...	...	...	...	...	...	...	...
Emery wheel.....	...	...	...	...	4	13	6	1	...	...	...	...	...	...	...	...	...	...	...
Press.....	...	...	...	...	17	107	7	2	...	1	...	1	...	...	1	...	1	...	...
Punch.....	1	...	...	...	4	95	8	1	...	1	...	1	...	...	...	...	...	...	...
Dies.....	...	...	...	...	2	31	3	2	...	...	...	...	...	...	...	...	...	...	...
Barker.....	...	...	...	...	2	6	...	...	...	...	...	...	...	...	...	...	...	...	...
Calendar.....	...	...	...	...	3	6	...	3	...	...	...	...	...	...	...	...	...	...	...
Cutter knives.....	...	...	...	...	14	37	9	6	...	1	...	...	...	...	...	...	...	...	...
Conveyers.....	...	...	...	...	2	8	2	1	...	1	1	...	...	...	...	...	...	...	...
Hammers.....	...	...	...	...	4	12	3	...	...	...	...	...	1	...	...	1	...	...	...
Jointers.....	...	1	...	...	1	10	2	...	...	1	...	...	...	...	...	...	...	...	...
Stitcher.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Loom.....	...	...	...	...	1	3	...	...	...	...	...	...	...	...	...	...	...	...	...
Centrifugal machinery.....	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Paper machinery.....	...	...	...	...	12	23	2	6	...	1	...	...	...	1	...	...	...	...	...
Spinning machinery.....	...	...	...	...	...	4	3	6	...	...	...	...	...	...	...	1	...	...	...
Winders.....	...	...	...	...	2	3	2	2	...	1	...	...	...	...	...	...	...	...	...
Grinding wheels.....	1	...	...	...	16	38	14	4	...	...	...	1	1	...	...	...	...	...	...
Lathes.....	...	1	...	...	12	23	3	...	...	2	1	...	...	...	...	1	...	...	...
Machinery connections.....	1	1	1	...	39	136	38	11	...	7	2	...	2	...	...	3	...	1	...
Wiredrawing, etc.....	...	...	...	...	...	3	...	1	...	...	...	1	...	1	...	...	...	1	...
Trucking.....	4	4	3	...	18	34	14	5	6	6	5	2	19	1	10	3	3	2	2
Other machinery.....	...	4	1	...	31	138	18	22	1	6	3	2	1	1	...	...	...	2	...
Miscellaneous causes.....	8	29	18	...	172	253	70	55	8	54	59	19	24	13	25	5	7	12	3
Spoolers.....	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Industrial diseases.....	7	1	2	...	44	9	1	20	...	2	...	8	...	...	...	...	...	...	...
Fumes.....	1	...	3	...	...	...	...	...	...	...	...	8	...	...	...	...	...	...	...
<b>TOTALS.....</b>	<b>92</b>	<b>161</b>	<b>427</b>	<b>5</b>	<b>917</b>	<b>2073</b>	<b>523</b>	<b>413</b>	<b>167</b>	<b>293</b>	<b>137</b>	<b>160</b>	<b>175</b>	<b>36</b>	<b>725</b>	<b>17</b>	<b>76</b>	<b>199</b>	<b>45</b>

FACTORY INSPECTION BRANCH  
Fiscal Year Ending March 31, 1947

Groin	Lower Extremities						Multiple	FATAL	TOTALS	Class of Industry														
	Abdomen	Legs	Foot	Toes	Knee	Ankle				Pulp and Paper Trades	Metal Trades	Rubber and Rubber Goods	Textiles	Food	Lumber	Laundries	Chemicals	Conveyances, etc.	Transportation	Clay, Glass and Stone	Unclassified Trades	Leather Goods	Woodworking	Wearing Apparel
...	1	31	124	7	1	23	191	3	579	40	337	21	4	56	5	31	17	21	24	16	2	5	..	
...	..	11	5	3	3	4	8	5	71	6	43	1	..	1	..	..	7	6	3	..	..	..	..	
...	..	..	5	6	1	4	7	1	60	7	9	2	8	..	..	1	..	2	18	1	3	1	..	
...	..	..	..	..	..	1	19	5	40	4	20	1	..	5	1	1	3	2	1	1	1	..	..	
...	..	4	3	3	3	1	10	1	44	13	14	1	..	1	..	4	4	7	2	2	..	..		
...	1	3	1	1	..	..	43	2	71	9	29	2	..	5	..	8	3	2	6	4	2	1	..	
...	6	88	375	731	41	34	79	1	1722	208	879	63	27	98	33	28	141	96	54	52	7	36	..	
...	12	2	75	50	15	94	53	256	8	1182	149	899	29	50	145	33	46	74	53	56	96	17	28	..
...	..	3	8	1	3	6	8	..	391	40	207	14	21	17	12	..	3	24	17	9	8	3	16	..
...	..	..	..	..	..	..	..	..	34	6	17	..	..	1	1	..	..	..	2	1	2	1	3	..
...	1	..	6	10	1	7	2	..	154	21	60	3	5	6	11	..	2	15	15	2	7	7	..	
...	..	8	6	1	10	3	4	..	71	34	17	..	3	3	2	..	1	5	..	2	..	2	..	
...	2	..	30	19	6	8	3	..	687	79	268	18	28	105	12	..	11	44	11	26	34	16	27	8
...	1	2	25	34	14	4	7	5	602	68	281	33	3	30	24	..	12	67	32	21	12	5	14	..
...	257	34	19	23	3	90	171	53	1671	178	653	72	62	159	29	..	48	169	73	72	91	26	38	1
...	..	1	..	2	..	..	6	..	61	22	15	4	2	4	4	..	1	..	1	1	1	1	6	..
...	..	..	..	..	..	..	1	..	38	10	11	2	7	3	1	..	2	..	..	..	..	..	..	..
...	..	3	2	1	..	..	6	3	91	14	26	3	6	11	6	..	1	3	3	8	5	..	5	..
...	1	3	3	2	1	1	7	2	177	21	48	5	2	3	27	..	7	7	..	2	17	4	40	..
...	..	..	..	..	..	..	25	..	4	10	..	..	..	1	..	..	2	..	..	..	1	1	4	..
...	..	..	2	1	1	..	61	..	2	43	1	1	2	..	..	..	3	5	1	2	..	1	..	
...	1	..	..	..	..	..	23	..	..	21	..	..	..	..	..	..	2	..	..	..	..	..	..	
...	..	2	..	..	..	..	35	..	..	31	..	..	..	..	..	..	1	..	..	..	..	2	..	
...	..	..	..	..	..	..	24	..	1	13	..	..	..	..	..	..	7	3	..	..	..	..	..	
...	1	1	..	..	..	..	140	18	96	5	1	2	1	..	..	..	8	1	2	4	5	1	..	
...	..	..	..	1	..	..	115	5	82	1	2	1	..	..	..	1	13	1	1	6	1	1	..	
...	..	..	..	..	..	..	41	4	28	1	3	..	..	..	..	..	3	..	..	2	..	..	..	
...	..	..	..	..	..	..	8	6	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
...	..	..	..	..	..	..	13	5	..	6	1	..	..	..	..	..	..	..	..	..	..	1	..	
...	..	..	..	..	..	..	68	9	16	4	9	8	..	..	..	..	1	..	..	5	3	10	3	
...	..	2	3	2	1	1	7	..	31	8	8	1	..	7	..	..	5	..	1	1	..	..	..	
...	..	..	3	1	1	..	2	..	28	2	15	2	..	1	..	..	1	5	..	2	..	..	..	
...	..	..	..	..	..	1	16	..	..	5	..	1	..	1	..	..	4	..	..	..	5	..	..	
...	..	..	..	..	1	..	6	..	..	1	..	4	..	..	..	..	..	..	1	..	..	..	..	
...	..	1	..	1	1	..	1	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	
...	..	..	1	1	..	..	5	..	53	50	1	..	..	..	..	1	1	..	1	..	..	..	..	
...	..	..	1	..	..	..	16	..	11	..	14	..	2	..	..	..	..	..	..	..	..	..	..	
...	1	..	..	..	..	..	13	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	
...	..	1	..	..	..	..	81	4	57	2	..	1	..	..	..	11	..	1	2	1	2	..	..	
...	..	1	..	..	..	..	46	2	35	..	..	..	1	..	..	3	..	..	..	..	5	..	..	
...	4	1	7	6	2	4	9	..	275	23	118	16	19	24	6	..	16	12	9	7	10	12	3	
...	..	1	..	..	..	..	10	..	..	10	..	..	..	..	..	..	..	..	..	..	..	..	..	
...	6	2	34	52	58	18	15	18	1	345	54	139	15	6	36	8	8	18	13	12	16	9	10	1
...	1	..	2	1	2	1	2	21	4	264	16	102	22	24	33	3	2	20	1	5	9	14	11	2
...	11	3	76	82	48	83	27	59	2	1225	131	441	50	42	175	42	24	87	27	40	88	22	43	13
...	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
...	..	6	4	..	..	4	144	..	252	7	84	25	14	36	..	6	33	4	14	12	11	6	..	
...	..	..	..	..	..	..	1	2	15	4	5	2	..	2	..	1	..	1	..	..	..	..	..	..
299	58	442	817	917	381	362	1018	42	10977	1295	4698	427	371	987	266	239	825	414	379	526	167	345	38	

## EXPLOSIONS

Fifty-eight explosions were reported during the year, two of which took place at the close of the previous fiscal year. Fifty-six of these explosions caused injuries to seventy-one employees, and injuries proved fatal to two employees.

Explosions causing injuries were as follows:

- March 13, 1946... Entering bar into furnace the billet exploded in middle.
- March 12..... Holding gauge on acetylene torch when it exploded.
- April 1..... Tube connections on welder exploded.
- April 2..... Pulled the plug in the exhaust pipe to examine for fire, and an explosion occurred.
- April 2..... Bottle of soft drink exploded.
- April 3..... When starting motor, carburetor back-fired causing slight explosion.
- April 6..... Explosion occurred while hardening steel shanks.
- April 7..... High-pressure cylinder on compressor blew off.
- April 15..... Molten metal pouring from furnace into a tank of water caused a series of explosions.
- April 22..... Filling gas generator with carbide in gas house, where gas for acetylene welding is made, caused an explosion.
- April 26..... Explosion when cleaning and tightening square "D" switches.
- May 2..... Bottom of fuel tank feeding hardening furnace blew off.
- May 17..... Gasoline tank exploded while being welded to seal leaks.
- June 7..... Firing cap of shell exploded.
- June 13..... Dip tube froze, stuck rod into it and in doing so metal exploded.
- June 16..... Dust exploded in fire box of boiler.
- June 18..... Torch back-fired and flame travelled into hose and exploded at connections.
- June 26..... Explosion occurred when furnace burnt out.
- June 27..... When filling lubricator it blew back.
- June 28..... Lacquer can exploded when being burnt.
- July 2..... Fumes inside creosote tank exploded when welding tank.
- July 3..... Gas burner exploded when it was lit.
- July 20..... Gas oven exploded.
- July 30..... Bottle exploded in pasteurizer.
- August 1..... Relighting blow torch caused explosion.
- September 10.... Minor explosion in fuel oil burner.
- September 12.... Bottle exploded.
- September 19.... Fumes of ether at gas boiler caused explosion.
- September 30.... Core exploded while metal was being poured.
- October 5..... Explosion occurred when attempting to relight torch from previous cut.
- October 9..... Bottle exploded in pasteurizer.
- October 12..... Slake lime exploded..
- October 15..... Dynamite exploded.
- October 21..... Iron exploded when being emptied into pit.
- October 25..... Spray painting machine exploded.
- October 31..... Tank exploded.
- November 14.... Gas backed up from wash-box and exploded when it hit the air.
- November 15.... Heat from grill exploded gas accumulations.
- November 18.... Oxygen valve on torch exploded.
- November 24.... Molten steel in mould exploded.
- November 26.... Chemicals exploded.
- December 2.... Accumulation of steam on ladle caused explosion.
- December 6.... Moisture on the metal caused explosion.

## EXPLOSIONS—Continued

- December 9. . . . . Acetylene cutting torch caused explosion.
- December 29. . . . . Water in steam line driven ahead and when it struck separator leading to harlem drive separator exploded.
- January 21, 1947. . . . . While poking blow in furnace a slight explosion occurred.
- February 3. . . . . Water got into mould and exploded.
- February 4. . . . . While moulding metal it exploded.
- February 4. . . . . Acetone instead of alcohol used in burner caused an explosion.
- February 5. . . . . Lighting gas drum, and threw lighted piece of paper in drum, causing an explosion.
- February 11. . . . . Explosion occurred inside the tumbler filled with overalls in the process of drying.
- February 13. . . . . Explosion occurred in the laboratory.
- February 17. . . . . Bottle exploded.
- February 24. . . . . Furnace was cold so in order to see struck a light and the gas exploded.
- February 25. . . . . Gas back-fired in open hearth furnace, causing an explosion.
- March 3. . . . . Checking oil on a bus, pulled dip stick out and it exploded.
- March 4. . . . . Explosion occurred when two kettles of varnish were being reduced with petroleum solvents.
- March 19. . . . . Tap on pile of metal exploded.

**BOARD OF EXAMINERS OF OPERATING ENGINEERS**

CHAIRMAN: JOHN SHARP

MEMBERS OF THE BOARD: W. J. SCOTT, A. L. LACEY

The Board of Examiners, in accordance with the requirements of subsection 3 of section 2 of The Operating Engineers Act, presents the thirty-eighth annual report of the activities of this Branch of the Department of Labour for the fiscal year ending March 31, 1947.

The net revenue of \$37,464.35, shown in the attached statement, is the largest in the history of the Branch, being an increase of \$3,654.15 over the fiscal year 1946. It represents an increase in revenue derived from the sale of text books and fees collected for examinations, certificate renewals and plant registrations.

The demand for engineering text books sold by the Department shows a continuous growth, the net revenue for the year from this source being \$5,451.

During the year 1,184 applications from candidates for examination and 573 applications for re-examination were submitted for the approval of the Board. Ninety-four of the applications for examination were rejected as they did not comply with the requirements of the regulations.

A total of 3,402 candidates wrote examinations, 1,840 at the Toronto office and 1,562 at outside centres, which is the largest number to be recorded within a single year. This is an increase of 920 over the preceding twelve months. While the percentage of examination failures is slightly higher, a substantially greater number obtained certificates than ever before for a corresponding period.

The number of certificates issued was 18,815 of which 18,486 were to operating engineers for the current year and 329 were plant registration certificates. The figure for plant registrations represents an increase of forty-four over the preceding year.

Students from the Ontario Training and Re-establishment Institute have shown a high degree of proficiency due to their specialized training and illustrated by the results they obtained when writing the regular examinations set by the Board. One hundred and forty wrote examinations and obtained a sufficient percentage to be eligible for certificates.

The inspector for the Branch made 731 inspection calls during the year. Cases of violation, numbering 250, were reported and proceedings instituted in each case for adjustment to comply with the regulations.

The assistance and co-operation of the operating engineers have aided appreciably in enforcing the regulations and the Board takes this opportunity to express its grateful acknowledgment.

## REPORT OF REVENUE FOR FISCAL YEAR

APRIL 1, 1946, TO MARCH 31, 1947

<b>Fees collected for:</b>		<b>Moneys refunded on:</b>	
Examinations.....	} \$32,823.22	Examinations.....	} \$ 1,181.10
Re-examinations.....		Renewals.....	
Renewals.....		Penalty renewal fees.....	
Penalty renewal fees.....		Plant registrations.....	
Provisional certificates.....		Duplicate certificates.....	
Duplicate certificates.....	} 329.00	Miscellaneous.....	} 31.75
Plant registrations.....		Text books.....	
	<hr/>	Total refunds.....	<hr/> \$ 1,212.85
<b>Revenue by:</b>			
Certificate and examination fees.....	\$33,152.22		
Sale of text books.....	5,482.75		
Miscellaneous.....	42.23		
	<hr/>		
Gross revenue.....	\$38,677.20		
Total refunds.....	1,212.85		
	<hr/>		
Net revenue.....	\$37,464.35		

## REPORT OF CERTIFICATES FOR FISCAL YEAR

Number of certificates issued.....	18,815
Number of certificates refused.....	1,702

Certificates issued							Certificates refused owing to low percentage	
	By examination	By re-examination	Provisional	Duplicate	Renewals	Totals	Refused	
Compressor.....	42	15		1	286	344	21	
Fireman.....	77	17	1		392	487	49	
4th class.....	771	176	12	8	5,715	6,682	562	
3rd class.....	199	141	14	8	4,486	4,848	541	
2nd class.....	30	62	10	1	2,140	2,243	312	
1st class.....	2	15			333	350	93	
Hoisting.....	131	11	5	6	2,040	2,193	112	
Traction.....	16	2		3	931	952	12	
Duplex.....	10			1	376	387		
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	
TOTALS.....	1,278	439	42	28	16,699	18,486	1,702	
Plant registrations.....						329		
						<hr/>		
Total of certificates issued.....						18,815		

## REPORT OF EXAMINATIONS HELD FOR FISCAL YEAR

Number of candidates examined at Toronto.....	1,840
Number of candidates examined at other centres.....	1,562

Total number of candidates examined..... 3,402

Class	At Toronto	At other centres	Totals
Compressor.....	5	45	50
Fireman.....	54	55	109
4th class.....	867	672	1,539
3rd class.....	460	419	879
2nd class.....	227	183	410
1st class.....	73	36	109
Hoisting.....	140	130	270
Traction.....	14	22	36
Totals.....	1,840	1,562	3,402

Examinations were held in Toronto every day except holidays, and at outside centres as follows:

	No. of exami- nations	No. of candi- dates		No. of exami- nations	No. of candi- dates
Brantford.....	2	48	Niagara Falls.....	2	68
Belleville.....	2	43	North Bay.....	1	24
Brockville.....	2	36	Ottawa.....	2	169
Chatham.....	2	33	Orillia.....	1	21
Cornwall.....	1	31	Parry Sound.....	1	4
Fort Francis.....	1	13	Peterborough.....	2	22
Fort William.....	2	121	Renfrew.....	1	19
Haileybury.....	1	14	Sault Ste. Marie.....	1	22
Huntsville.....	1	6	Sudbury.....	2	75
Hamilton.....	3	134	Sarnia.....	1	60
Kenora.....	1	17	St. Catharines.....	3	54
Kirkland Lake.....	2	41	Timmins.....	2	64
Kingston.....	2	38	Windsor.....	3	161
Kitchener.....	2	82	Other centres.....	3	43
London.....	2	99			
Total at outside centres.....				51	1,562
Total at Toronto.....					1,840
Total during fiscal year.....					3,402



## BOILER INSPECTION BRANCH

CHIEF INSPECTOR: J. N. BRIGGS

The Boiler Inspection Branch administers The Steam Boiler Act for the purpose of promoting greater safety to life and property by securing concerted action and maintaining uniformity in the construction, installation and inspection of steam boilers and other pressure vessels, and their appurtenances.

In the administration of this Act the results have been more than anticipated during the fiscal year ending March 31, 1947. The thirty-fourth annual report covering this period reflects the trend of activities exceeding those of the previous year, 1946. For comparison the following figures indicate the percentage of increase for the fiscal year 1947:

Monies transferred to the Treasury Department . . . . .	15 per cent
Designs and specifications surveyed and registered . . . . .	23 per cent
Inspections under The Steam Boiler Act and regulations . . . . .	11 per cent
The Factory, Shop and Office Building Act . . . . .	8 per cent
Vessels accepted on affidavit of manufacturer without shop inspection . . . . .	68 per cent
Examinations of welding operators . . . . .	26 per cent

The year's survey of 840 designs delineating the construction of boilers and pressure vessels, including plans of installations, represented the handling and stamping of over 3,300 blueprints. There were also sixty-nine designs rejected or returned to manufacturers for revision.

The replenishment of manufacturers' steel stocks for post-war production increased the number of shop inspections of boilers and pressure vessels during construction. It also had the effect of increasing the number of vessels accepted on affidavit of the manufacturer without shop inspection.

An increase is shown in the annual inspections of uninsured boilers and pressure vessels, although this branch of work was apparently affected by the greater effort expended in meeting the demands made by new construction.

Owing to the number of small firms entering into the production of small welded boilers and tanks for the first time, there has been a decided increase in plants visited and welding procedure established. The work involved in connection with qualifying welding procedures and operators for the calendar year ending December 31, 1946, is summarized as follows:

Total number of firms visited . . . . .	395
Increase over calendar year ending December 31, 1945 . . . . .	152 per cent
Total number of welding operators examined . . . . .	1,465
Increase over calendar year ending December 31, 1945 . . . . .	26 per cent
Number of operators examined in,-	
Metallic arc process . . . . .	1,289
Operators qualified . . . . .	858
Operators failed . . . . .	431
Number of operators examined in,-	
Oxygen-acetylene process . . . . .	176
Operators qualified . . . . .	78
Operators failed . . . . .	98

During the month of August the resignation of one inspector was accepted. It is with regret that the death of Mr. N. S. Smith is reported. He gave many years of valued service on the inspection staff.

For the purpose of promoting uniform boiler laws throughout Canada the Canadian Steel Boiler Institute held a conference in Winnipeg, Manitoba, on January 20 and 21, 1947, which the chief boiler inspectors of the provinces and insurance interests attended. All discussions were approached in a co-operative spirit and one outstanding point given special consideration was the proposal to establish a central board for surveying designs and specifications of boilers and pressure vessels under the administration of the Canadian Standards Association, Ottawa. Final registration or rejection of the design will be made by the province in which the boiler or pressure vessel is to be installed.

The following investigations were made of explosions during the fiscal year:

An exploding H. R. T. boiler, 66-inch diameter by 15-foot 9-inch length, demolished a one-floor brick building of a textile mill in Appleton at 4 a.m. on April 16, 1946. Investigations revealed that the blow-down pipe developed leakage through corrosion of threads in the coupling which lowered the water level in the boiler sufficiently to cause overheating. The boiler, estimated forty years old, ruptured at the longitudinal seam of the centre course. Insurance and annual inspections had been maintained.

Oil fuel storage tank used in connection with a heat treating furnace in Toronto exploded on May 2, 1946. The spraying oil became ignited by the furnace and the resulting fire caused property damage. Excess air pressure caused by a defective pressure regulator blew out the head of the tank. This accident may have been avoided if protection had been afforded by installing a pressure relieving device on the tank as required by regulations.

Interference with a safety valve by some person or persons unknown was apparently the cause of a boiler failure on March 2, 1946, in a laundry located in the Kirkland Lake district. The damage caused by the explosion was confined to the water legs of the boiler and the building. Examination of the safety valve after it had failed to open under test pressure of 150 pounds showed that the spring had been fully compressed by the adjusting screw.

An investigation made on May 6, 1946, disclosed the fact that over-pressure caused the separation of a concave to pressure head from the shell of a water heater located in a country club in Essex County. The heater originally designed for a maximum working pressure of thirty pounds was improperly connected to a water system of seventy-pound pressure. The explosions resulted in property damage only.

Accumulation of gas in furnace of a water tube boiler located in an oil refinery in Toronto resulted in an explosion that wrecked the entire brick setting. The boiler itself was not damaged. The cause of gas accumulation was undetermined as every precaution had been taken to ventilate the furnace before lighting up.

Three men were injured on July 2, 1946, when a creosote tank in Sudbury blew up after welding repairs were commenced. The neglect to steam out the tank before commencing to weld was the cause of the explosion. The tank was wrecked beyond repair. There was other property damage.

Fire flash in a cast iron after-cooler shell of a large compressed air system operating at one hundred pounds per square inch in Hamilton fortunately did not result in an explosion. The possible cause of the flash may be attributed to a collapsed tube permitting air pressure to force the circulating water out of the system. The resulting rise in temperature ignited vapours from the lubricating oil. Heat from the fire melted all the 50 three-quarter-inch brass tubes in the cooler.

Upon investigating a supposed explosion of an acetylene tank at Bala it was discovered that no pressure equipment had failed but due to sparks emanating from an acetylene torch and falling through open cracks in the floor of a garage, an explosion occurred which unfortunately resulted in the death of one man. It appears that a quantity of gasoline had previously been pumped out of old storage tanks and allowed to seep through the ground and under the floor of the garage.

In the month of December, 1946, a cast iron separator installed on a steam line in a paper mill located in the Port Arthur district exploded and caused fatal burns to an operating engineer. Apparently the steam had been shut off the line for a short time in order to make repairs and when turned on again the drain at the bottom of the separator, through not being opened, allowed the separator to fill with condensate. Water hammer caused the separator to rupture.

Responding to a report of a boiler explosion in a cleaning and pressing establishment, Kingston, the inspector discovered another case of furnace explosion caused through delayed ignition in an oil burning system. The boiler was not damaged by the explosion.

#### SUMMARY OF WORK FOR FISCAL YEAR ENDING MARCH 31, 1947

##### Drawings and specifications surveyed, registered and re-registered:

	Designs	Fees
Boilers, unfired pressure vessels, boiler accessories and power plant piping.....	840	\$ 4,955.00

##### New boilers and pressure vessels:

	Inspections	Fees
Boilers.....	1,415	
Unfired pressure vessels.....	1,469	
Totals.....	2,884	\$16,718.50
Travelling expenses.....		\$ 377.60
Qualification tests of welding operators, expenses.....		\$ 2,110.00
Pressure piping installations.....	39	\$ 295.00
Travelling expenses.....		331.45

##### Used boilers and pressure vessels inspected:

Boilers.....	847	
Unfired pressure vessels.....	382	
Totals.....	1,229	\$ 6,965.50

Second and final inspections.....	3,385	
Travelling expenses.....		\$ 3,472.80

##### Certificates issued:

	Number
Class A—new boilers and unfired pressure vessels.....	2,041
Class B—used boilers and unfired pressure vessels.....	963
Class C—low pressure boilers accepted by affidavit.....	541
Class D—pressure vessels accepted by affidavit.....	2,370
Class E—boilers under 3 H.P. accepted by affidavit.....	80
Duplicate certificates.....	19
Total.....	6,014

## Annual inspections:

	Inspections	
Uninsured boilers.....	2,975	
Uninsured unfired pressure vessels.....	4,760	
	<hr/>	
Total.....	7,735	
Fees.....		\$20,369.50
Expenses.....		291.17
Certificates issued.....	3,482	
Fees for—survey and registration of designs.....		\$ 4,955.00
inspections of new boilers and pressure vessels.....		16,718.50
pressure piping installation inspections.....		295.00
inspections of used boilers and pressure vessels.....		6,965.50
heating boilers accepted by affidavit.....		1,082.00
pressure vessels accepted by affidavit.....		4,740.00
boilers under 3 H.P. accepted by affidavit.....		160.00
duplicate certificates.....		2.00
transfer scale for tanks.....		1,193.00
regulations.....		10.50
Travelling expenses.....		4,181.85
Qualification tests of welding operators—expenses.....		2,110.00
Fees for annual inspections.....		20,369.50
Expenses for annual inspections.....		291.17
		<hr/>
Total.....		\$63,074.02
Total amount of monies transmitted to the Treasury of Ontario.....		\$62,727.91

## CONCILIATION, MEDIATION AND ARBITRATION

CHIEF CONCILIATION OFFICER: LOUIS FINE

CONCILIATION OFFICERS: JAMES HUTCHEON, G. L. FENWICK

The tenth annual report of the Conciliation, Mediation and Arbitration Branch of the Department of Labour for the fiscal year ending March 31, 1947, shows an all-time record for the number of cases handled.

The conciliation staff of the Province of Ontario consists of the Chief Conciliation Officer and two conciliation officers. During the fiscal year three federal labour relations officers co-operated with this Branch in carrying out the various duties coming under its jurisdiction.

The duties of the officers of this Branch include all matters relating to,-

- (a) conciliation, mediation and arbitration;
- (b) acting as referees and returning officers in plant elections as directed by the Ontario Labour Relations Board;
- (c) making arrangements for and acting as returning officers in plant elections held with the consent of all parties;
- (d) investigating and reporting on all cases referred to this office by the Regional War Labour Board for Ontario with reference to wages, hours of work, etc.; and
- (e) conducting conferences under The Industrial Standards Act.

### CONCILIATION

During the fiscal year 185 conciliation cases were referred to this Branch. In seventy-four of these cases certification had been granted to the bargaining committees of various unions but the parties were not able to reach an agreement within the stipulated thirty-day period as provided in P.C. 1003. In twenty-nine of these cases the conciliation officer appointed was able to affect a satisfactory agreement between the parties concerned. One case is still pending and in the other forty-four cases boards of conciliation were recommended and established. The conciliation officers' reports show that in all of these forty-four cases the parties were in disagreement in five to fifteen clauses in the agreements being considered. As a result of meeting with the conciliation officer many of the points at issue were settled, which reduced and clarified the number of issues finally placed before the board of conciliation.

Fifty-two cases were handled under P.C. 4020 where it was alleged that employees had been dismissed for union activity or union membership. As a result of the investigations made and evidence produced commissioners were appointed in twenty-six of these cases and made their report direct to the Minister of Labour.

In eight of the remaining twenty-six cases the employees were immediately reinstated and wages paid in full for time lost. The settlement in the other eighteen cases falls under many categories. Some were withdrawn and others, as a result of mediation, were settled, the employees rehired and the time lost counted as a suspension or, in a few cases, the conciliation officer reported that he had not been presented with sufficient evidence to warrant the appointment of a commissioner.

The other sixty cases came direct to this office without reference to any Order-in-Council or board and were settled satisfactorily. In approximately forty cases this office had advance notice of strikes pending either through the employer or the union and in some cases both parties asked for the service of an officer. Meetings were immediately arranged and satisfactory agreements signed. In the other twenty cases where no strike action was indicated, officers were requested to meet with the parties and old agreements were renewed.

## ARBITRATION

Nearly every agreement signed between union and management provides for arbitration as the final step of the grievance procedure and for the appointment of an arbitrator by the Minister. During the fiscal year the Minister was called upon to make a number of such arbitration appointments. However, many agreements do not contain this provision and it has been necessary for the officers of this Branch to act in this capacity upon the joint request of employers and employees. During the year thirty-two cases were handled, involving 110 grievances. In all of these cases the decision of the arbitrator has been accepted. Most of the complaints coming to arbitration deal with the interpretation of a clause or clauses in the agreement and come under categories of seniority, promotion, classification, discipline and plant rules.

It is of interest to note, in considering the scope of arbitration proceedings, that for the first time in the history of this Department an agreement was reached between a company and a union which, while it contained the provisions that all employees must become members of the union and all new employees become members within a certain period, provided that any employee employed at the time the agreement was signed, who for conscientious reasons claimed he could not become a member of the union, was entitled to place his case before the Chief Conciliation Officer of the Province of Ontario who would decide whether his objections were valid or not and the decision of this officer would be accepted as final. One such case has been heard under this agreement.

## PLANT VOTES

Forty plant votes were conducted during the year. Thirty-two came from the Ontario Labour Relations Board and eight as a result of a joint request from the employer and the union. It is now a matter of record that agreements were completed in all of these cases. Six thousand and seven hundred and ninety-four employees were involved in these plant votes.

## REGIONAL WAR LABOUR BOARD FOR ONTARIO AND INVESTIGATIONS

One hundred and thirty-four investigations were made during the year. One hundred and one of these assignments were from the Regional War Labour Board for Ontario, and while this is a decrease from last year, the items referred to this Branch were of a more complicated nature and involved visits to plants in all parts of the Province. Investigations were made and reports submitted dealing with wages and hours of work. Twenty-seven reports were requested by the Minister's or the Deputy Minister's office and six by the federal Department of Labour. All these assignments were duly completed.

## STRIKES

The services of this Branch were requested in forty-four strikes which involved 19,379 employees and resulted in a time loss of 482,245 working-days. In checking the records of settlement it would appear that there was a definite indication that in approximately ten per cent of these cases matters were settled equally in favour of employers and employees. In the other ninety per cent of the cases with the use of conciliation and mediation the parties concerned ultimately gave way on various points and, when the final agreement was made, it was impossible to credit one or the other with achieving their aims.

## THE INDUSTRIAL STANDARDS ACT

Forty-three conferences were held during the year under The Industrial Standards Act and schedules were agreed to and approved by the Minister of Labour in thirty-eight cases. Three schedules are still pending and in two cases schedules were not made effective. One of these two cases was refused because of the disagreement in the trade itself with respect to the definition of the industry and the other because of the size of the zone and the conditions therein.

One investigation was held under the terms of the Act in the retail gasoline service industry, Windsor. The industries covered by these conferences include barbering, bricklaying and stonemasonry, carpentry, common labourers construction, electrical repair and construction, retail gasoline service, logging, painting and decorating, plastering, plumbing and heating, sheet-metal workers' construction and taxicab.

#### OFFICE WORK

The volume of work handled in this office increases year by year. Enquiries are made daily to the office by telephone or personal calls on matters in dispute. As a result of these enquiries the officers of this Branch have been able to advise, counsel and assist many employers and employees in connection with their problems. It has been necessary during the year to see that at least one of the officers remains on duty in Toronto to handle matters of this type.

**ONTARIO LABOUR RELATIONS BOARD**

CHAIRMAN: HIS HONOUR JUDGE IAN M. MACDONELL

This report of the Ontario Labour Relations Board covers the fiscal year ending March 31, 1947. The Board carried on throughout the year within its allocated sphere of jurisdiction its administration of the Wartime Labour Relations Regulations. On January 30, 1947, the Dominion Government passed Order-in-Council P.C. 302 amending and enlarging the regulations in several substantive respects (effective February 15, 1947), revoking Order-in-Council P.C. 4020 (effective February 15, 1947) and revoking Schedule A to the regulations and the sections of the regulations having reference thereto (effective March 31, 1947). The latter provision had the effect of cancelling the category of enterprises usually referred to as "war industries", leaving only two categories corresponding generally to the respective legislative jurisdictions of the Dominion and the Province. The amending provisions of P.C. 302 were not made applicable by the Province to employers and employees whose relations with each other fall within the legislative jurisdiction of the Province. The Province has, since the end of the fiscal year, enacted legislation providing for the application of the regulations throughout the sphere of provincial jurisdiction.

The first changes in the personnel of the Board since the commencement of its activities early in 1944 took place this fiscal year. On February 13, 1947, the resignation of the Chairman, Professor Jacob Finkelman, was accepted by the Minister. An evaluation of the contribution of Professor Finkelman to the cause of peaceful labour relations in the Province first as Registrar of The Labour Court of Ontario and, later, as Chairman of the Ontario Labour Relations Board will not be attempted in this report. The Board, however, takes this opportunity to record its recognition and appreciation of the high quality of the service rendered by Professor Finkelman during his tenure of office as Chairman of the Board. Professor Finkelman was succeeded by His Honour Judge Ian M. Macdonell, a Judge of the County Court of the County of York, who had been serving as Chairman of the recently-disbanded Regional War Labour Board for Ontario.

Mr. C. E. Shumaker of the Goodyear Tire and Rubber Company Limited, one of the original employer representatives on the Board, resigned on January 31, 1947. His colleagues on the Board wish to express their high regard for the sound judgment which characterized his work and their regret at his withdrawal. Mr. Shumaker was succeeded by Mr. W. N. Bourke of Modern Methods.

The remainder of the personnel of the Board, namely W. J. Corbett, G. R. Harvey, E. J. Hopcraft, R. W. Teagle and H. J. Padget, was unchanged at the end of the fiscal year.

The Board held 85 sessions during the year. The "average board member" attended 76 sessions. On April 17, 1946, Mr. P. M. Draper, assistant to the Chairman, was appointed Alternate Chairman of the Board, and presided at board hearings and executive sessions in the absence of the Chairman. The volume of business before the Board having continued to mount steadily during the year, the need for a second examiner became apparent and the appointment of Mr. J. M. Flannery followed in November, 1946. Since then it has been possible to refer a greater number of certification cases for preliminary inquiry and report and 400 cases were so referred during the year.

Seven hundred and forty-four applications of all types were filed with the Board during the year, an increase of 232 over the previous fiscal period. The figures comprised of 627 petitions for certification, 96 requests for the appointment of a conciliation officer, 18 applications for leave to institute a prosecution, 2 petitions for establishment of a grievance procedure and 1 petition requesting the appointment of an arbitrator.

Trades and Labor Congress of Canada—American Federation of Labor affiliates were concerned in 348 petitions for certification, Canadian Congress of Labour—Congress of Industrial Organizations affiliates in 282 petitions, Canadian Federation of Labour affiliates in 11 petitions and unaffiliated employees organizations in 77 petitions. Eighty-eight of the certification cases



involved a contest between two or more trade unions or employees' organizations. Jurisdictional disputes between Trades and Labor Congress of Canada—American Federation of Labor affiliates and Canadian Congress of Labour—Congress of Industrial Organizations affiliates occurred in 19 cases which came before the Board. Petitions for certification granted numbered 378, withdrawals 99, dismissals 133 and transfers to the Wartime Labour Relations Board (National), 1. Of the 378 certificates granted, 228 went to Trades and Labor Congress of Canada—American Federation of Labor affiliates, 143 to Canadian Congress of Labour—Congress of Industrial Organizations affiliates and 7 to unaffiliated employees' organizations. Representation votes were taken in 112 of the certification cases which were finally disposed of during the fiscal year as a result of which 76 certificates were issued, 34 petitions were dismissed and 2 were withdrawn.

Ninety-six requests for the appointment of a conciliation officer were filed with the Board, 31 by Trades and Labor Congress of Canada—American Federation of Labor affiliates, 64 by Canadian Congress of Labour—Congress of Industrial Organizations affiliates and 1 by a Canadian Federation of Labour affiliate. Of the total, 78 were referred to the Minister, 8 were dismissed, 5 were withdrawn and 1 was transferred to the Wartime Labour Relations Board (National).

Petitions for leave to prosecute were filed in 18 instances. Leave was granted in 4 cases, 4 were dismissed and 12 were withdrawn.

Two petitions for the establishment of a grievance procedure were received and in each case the request was granted.

**REGIONAL WAR LABOUR BOARD FOR ONTARIO**

CHIEF EXECUTIVE OFFICER: J. B. METZLER

The activities of the Regional War Labour Board for Ontario continued unabated from the beginning of the fiscal year 1946-47 until December 1, 1946. On that date the Wartime Wages Control Order, P.C. 9384, as amended, was revoked by the Dominion Government and from then until the end of the fiscal year the Board was engaged in cleaning up the work which remained outstanding.

During the five-year period in which wage control was effective the Regional War Labour Board for Ontario disposed of almost 60,000 applications.

At its peak the staff of the Board reached a total of thirty-four. It is interesting to note that, with few exceptions, the members of the staff have found new employment or returned to their former activities.

In large measure the success of the Board in discharging its functions was based on the close and whole-hearted co-operation of the representatives of labour and management on the Board.

## THE INDUSTRY AND LABOUR BOARD

CHAIRMAN: ERIC BILLINGTON

MEMBERS: E. G. GIBB, J. F. NUTLAND

The Industry and Labour Board administers The Hours of Work and Vacations with Pay Act, 1944, The Industrial Standards Act, The Apprenticeship Act and The Minimum Wage Act.

### THE HOURS OF WORK AND VACATIONS WITH PAY ACT, 1944

This Act provides that in any industrial undertaking the working hours of an employee shall not exceed eight in the day and forty-eight in the week and that every employee shall be given a vacation of at least one week with pay after each year of employment.

#### REGULATIONS—EXEMPTIONS

Regulations made under the Act apply to every establishment and undertaking and all work in or about any business, trade or occupation except to members, students and apprentices of certain professions, the business of funeral directing and embalming, farming and domestic service, and to the hours of work of employees of municipal fire departments, of steamship and railway companies, stevedores and others loading and unloading ships, persons working in grain elevators and persons employed in commercial fishing.

#### REGULATIONS—OVERTIME

An employer may provide, with the approval of the Board, for overtime of not more than twelve hours a week for each employee in the case of engineers, watchmen, firemen, shippers and other persons engaged in non-productive work, and in the case of all other employees, overtime of not more than one hundred hours in each calendar year for each employee.

#### EMERGENCIES

Overtime may be worked by employees in an industry in cases of accident or work urgently required to be done to machinery or plant which cannot be completed during the eight-hour day or the forty-eight-hour week and which, otherwise, would interfere with the ordinary working of the undertaking. Where work of this nature is undertaken the employer shall, within thirty days of the performance of the work, report it to the Board, stating the reasons therefor, and the emergency work so required shall not reduce the amount of overtime which may ordinarily be worked with the consent of the Board.

#### SPECIAL CIRCUMSTANCES

The Board may authorize overtime in respect of an industrial undertaking where the Board is satisfied that overtime work is necessary because of the nature of the work or the perishable nature of the raw material being processed.

#### VACATIONS WITH PAY

Every employee granted a vacation with pay under the Act shall be entitled to receive a minimum of two per cent of his total annual earnings.

Amendments to the Act passed at the 1947 session of the Legislature of the Province of Ontario, to come into force on June 1, 1947, authorize an employer to determine the period when each employee may take the vacation provided for by the Act but such period shall not be later than ten months after the conclusion of the working year. The amendments further authorize the making of regulations providing for the payment of vacation credits on a pro-rata basis to an employee who does not complete a year of employment with an industrial undertaking, for a system of vacation-with-pay credit stamps for use in such industrial undertakings as may be designated and also for the sale and redemption of such stamps

The amendments also provide that in addition to the penalty imposed on any employer for failure to grant a vacation with pay to any employee, the magistrate entering a conviction may order the employer to pay to such employee an amount equal to the pay he would have received for such vacation or the amount to which he would be entitled under the regulations.

#### CONSTRUCTION INDUSTRY

Employees engaged in the construction industry have received vacation credits on a pro-rata basis since July 1, 1944.

An employee who is employed for less than a year by an employer may obtain a vacation-with-pay stamp book from his employer, association of employees or from the Department of Labour at a charge of twenty-five cents.

The employer may purchase at any provincial savings office vacation-with-pay credit stamps in denominations ranging from one cent to one dollar and at the end of each working day, week or regular pay period he is required to affix these stamps in an amount equivalent to two per cent of each employee's total earnings during the working period to the employee's vacation-with-pay stamp book. In this manner the employer contributes his proper share of vacation pay of his employees and employees build up a vacation-with-pay credit in proportion to their earnings and irrespective of the number of employers for whom they have worked during the year.

On and after June 30 in each year employees may present their books at any branch of a chartered bank or provincial savings office and, upon proper identification, shall be entitled to receive the cash equivalent of the stamps contained therein.

Under this plan of vacation-with-pay credits for employees in the construction industry, the sale to employers in the industry of vacation-with-pay credit stamps to March 31, 1947, is as follows:

July 1, 1944, to March 31 1945. . . . .	\$ 377,236.20
April 1, 1945, to March 31, 1946. . . . .	969,366.62
April 1, 1946, to March 31, 1947. . . . .	1,465,139.63
	<hr/>
Total for period. . . . .	\$2,811,742.45

During the same period 246,350 vacation-with-pay stamp books were sold to employees in the construction industry. The revenue from the sale of these books was \$61,587.50.

#### PROSECUTIONS

For contraventions of the provisions of The Hours of Work and Vacations with Pay Act, 1944, a total of \$1,675 has been levied by the courts.

#### GENERAL

During the fiscal year The Industry and Labour Board met numerous delegations representing employers and employees of almost every type of industry in respect to the administration of The Hours of Work and Vacations with Pay Act, 1944, The Industrial Standards Act, The Apprenticeship Act and The Minimum Wage Act.

## THE INDUSTRY AND LABOUR BOARD

## THE INDUSTRIAL STANDARDS ACT

The Industrial Standards Act provides a definite procedure for collective bargaining in any industry designated or defined by the Minister by providing a legal means for calling a conference of employers and employees in any industry in a pre-defined zone or zones. The conference may submit to the Minister in writing a schedule of wages and hours and days of labour and the Minister may approve of the schedule if, in his opinion, it has been agreed to by a proper and sufficient representation of employers and employees.

Upon the recommendation of the Minister an Order-in-Council may be passed approving that the schedule be in force during pleasure, or for a stipulated period not exceeding twelve months, within the designated zone and be binding upon the employers and employees in the industry, and also approving the date on which the schedule is to come into force. The schedule is then published in the Ontario Gazette under The Regulations Act, 1944.

During the fiscal year conferences were held under the Act to renew existing schedules in the following industries and zones:

INDUSTRY AND ZONE	DATE OF CONFERENCE	DATE SCHEDULE EFFECTIVE
Barbering:		
Barrie	December 11, 1946	(no schedule)
Brantford	May 17, 1946	July 11, 1946
Chatham	October 24, 1946	December 24, 1946
Cobourg	July 24, 1946	September 14, 1946
Fergus and Elora	August 6, 1946	October 15, 1946
Galt-Hespeler	August 7, 1946	October 15, 1946
Gananoque	June 11, 1946	July 30, 1946
Kitchener-Waterloo	April 24, 1946	June 18, 1946
Lindsay	June 24, 1946	August 13, 1946
Orillia	October 18, 1946	December 31, 1946
Paris	May 21, 1946	July 11, 1946
Port Hope	July 31, 1946	September 17, 1946
Prescott	October 16, 1946	December 24, 1946
St. Mary's	July 4, 1946	October 1, 1946
St. Thomas	May 22, 1946	July 23, 1946
Simcoe	April 17, 1946	October 29, 1946
Stratford	May 15, 1946	July 11, 1946
Bricklaying and stonemasonry:		
Ottawa	October 15, 1946	December 31, 1946
Carpentry:		
Ottawa	October 15, 1946	December 31, 1946
St. Catharines	August 14, 1946	October 15, 1946
Common labourers construction:		
Ottawa	October 15, 1946	December 24, 1946
Electrical repair and construction:		
London	January 28, 1947	April 22, 1947
Ottawa	October 16, 1946	December 31, 1946
Logging:		
Thunder Bay	June 24, 1946	(no schedule)

## Painting and decorating:

Ottawa . . . . . December 10, 1946 . . . . . March 4, 1947

## Plastering:

Ottawa . . . . . October 15, 1946 . . . . . January 21, 1947

## Retail gasoline service:

Windsor . . . . . February 21, 1947 . . . . . (pending)

## Taxicab:

Toronto . . . . . November 5, 1946 . . . . . December 31, 1946

Conferences were held to introduce new schedules in the industries and zones as follows:

INDUSTRY AND ZONE	DATE OF CONFERENCE	DATE SCHEDULE EFFECTIVE
Barbering:		
Aylmer . . . . .	October 3, 1946 . . . . .	December 31, 1946
Tillsonburg . . . . .	April 24, 1946 . . . . .	October 29, 1946
Carpentry:		
Guelph . . . . .	May 15, 1946 . . . . .	July 23, 1946
Kenora-Keewatin . . . . .	February 26, 1947 . . . . .	April 22, 1947
Orillia . . . . .	May 14, 1946 . . . . .	September 3, 1946
Oshawa-Whitby . . . . .	February 10, 1947 . . . . .	May 6, 1947
Sarnia . . . . .	May 16, 1946 . . . . .	July 23, 1946
Painting and decorating:		
Guelph . . . . .	March 13, 1947 . . . . .	May 6, 1947
Plumbing and heating:		
Belleville . . . . .	October 17, 1946 . . . . .	January 21, 1947
Kitchener-Waterloo . . . . .	December 12, 1946 . . . . .	February 25, 1947
Retail gasoline service:		
Brantford . . . . .	August 19, 1946 . . . . .	(no schedule)
Sheet-metal workers' construction:		
Ottawa . . . . .	October 16, 1946 . . . . .	December 31, 1946
Windsor . . . . .	December 5, 1946 . . . . .	(pending)

Forty-one conferences were held from April 1, 1946, to March 31, 1947. With the exception of the logging industry, Thunder Bay zone, the barbering industry, Barrie zone, the sheet-metal workers' construction industry, Windsor zone, and the retail gasoline service industry, Brantford and Windsor zones, these conferences resulted in schedules under the Act.

## PAYROLL ASSESSMENT OF INDUSTRIES

Under the Act, The Industry and Labour Board has designated the ladies' cloak and suit industry and the men's and boys' clothing industry as interprovincially competitive, and has approved provisions in the respective schedules regarding the collection of assessment from employers and employees. The purpose of this assessment is to provide revenue for the enforcement of the schedule.

## ARREARS OF WAGES

Arrears of wages amounting to \$205.37 were collected from six employers and on instructions from The Industry and Labour Board were paid to the eight employees affected.

## COURT CASES

During the fiscal year forty-two prosecutions for alleged violations of the Act were instituted as follows:

Plumbing and heating industry, Port Arthur—Fort William zone:

One employer was charged with violation of the schedule, found guilty and fined \$25.

Retail gasoline service industry, Toronto zone:

Seventeen employers and six employees were charged with violations of the schedule. Charges against three of the employers were withdrawn for lack of evidence. The remaining fourteen employers and six employees were found guilty as charged and fined a total of \$555.

Retail gasoline service industry, Windsor zone:

Eight employers and ten employees were charged with violations of the schedule. The charge against one employee was withdrawn and two other employees were found not guilty. Convictions were registered against the others and fines levied totalled \$380.

The total of all fines levied was \$960.

## SCHEDULES IN FORCE

At the close of the fiscal year there were 119 schedules in force in Ontario under The Industrial Standards Act, as follows:

TRADES AND INDUSTRIES:	Number of schedules	Zone
(a) Schedules covering local zones:		
Baking.....	1	Ottawa
Barbering.....	62	Covering 119 municipalities
Bricklaying and stonemasonry.....	1	Ottawa
Bricklaying, stonemasonry and plastering.....	1	Galt
Building industry.....	1	Kitchener-Waterloo.
Carpentry.....	20	Belleville, Brantford, Brockville, Cornwall, Galt, Goderich, Guelph, Kirkland Lake, Kitchener, Ottawa, Owen Sound, Orillia, Peterborough, Port Arthur-Fort William, Sarnia, St. Catharines, St. Thomas, Sault Ste. Marie, Timmins, Windsor
Coal.....	1	Toronto
Coal hoisting.....	1	Toronto
Common labourers construction.....	2	Ottawa, Windsor
Electrical repair and construction...	5	Kingston, Kirkland Lake, London, Ottawa, Windsor
Painting and decorating.....	5	Hamilton, Kingston, Kitchener, Ottawa, Oshawa-Whitby
Plastering.....	2	Ottawa, Toronto
Plumbing and heating.....	8	Belleville, Hamilton, Kitchener, Ottawa, Port Arthur-Fort William, St. Thomas, Township of Teck, Windsor
Retail gasoline service.....	2	Toronto, Windsor
Sheet-metal workers' construction...	1	Ottawa
Soft furniture.....	1	Toronto
Taxicab.....	1	Toronto
(b) Schedules covering Ontario zone:		
Brewing.....	1	
Hard furniture.....	1	
Ladies' cloak and suit.....	1	
Men's and boys' clothing.....	1	
Total.....	119	

## THE INDUSTRY AND LABOUR BOARD

## APPRENTICESHIP BRANCH

DIRECTOR OF APPRENTICESHIP: FRED J. HAWES

The past fiscal year was one of increased opportunities and responsibilities, there being a large increase in the registration of apprentices and a very large number of placements of discharged members of the Armed Forces in trades designated under The Apprenticeship Act.

## BUILDING TRADES

The increased registration of apprentices in building trades for 1946 and 1947 created larger school-training classes and in January, 1947, there was the largest group of apprentices ever to be provided with school training. In 1946 there were 513 building-trade apprentices in school whereas in 1947 accommodation was provided for 719 apprentices. To take care of the increased number of apprentices eligible for school training, more accommodation was obtained at rehabilitation training centres. The greatest number was trained in Toronto and Hamilton trade-training centres, but additional classes were provided in the Central Technical School and the Northern Vocational School, Toronto. The opportunity to use rehabilitation training centres provided more complete course of instruction and the training classes held during January and February, and March and April were most successful. Boys in the second year of the term of apprenticeship attended training classes during January and February, and first-year boys reported for March and April classes. At the close of the training periods prizes were distributed to successful students. Trade unions, employers' and employees' organizations and supply houses donated the prizes and their representatives attended the presentation ceremonies.

The Provincial Advisory Committee for Building Trades in considering the importance of training a sufficient number of apprentices for all building trades realized the difficulty to provide school training for the increased number during the winter months only. To place before the Government for immediate consideration the necessity of training establishments being available where trade training could be given throughout the year, on February 17, 1947, the committee met the Honourable Charles Daley, Minister of Labour, and the Honourable D. R. Michener, Provincial Secretary and Acting Minister of Education, and representatives of the Department of Education. The committee explained the trade-training classes were now far beyond the experimental stage and were a most important development in the industrial life of Ontario. Since the war, trade-training centres have been established for training discharged members of the Armed Forces, which project has been most successful and has provided basic trade training for a large number of men. This training will be completed in the near future and the committee urged the Ministers of Labour and Education that one or more of these fully-equipped training establishments, including trained and experienced personnel, should continue to operate. The steady production of skilled mechanics, so badly needed now, depends upon the opportunities provided for training young men. Instruction in trade-training schools and experience on the job are co-related to produce a well-trained, skilful mechanic.

The trade-training programme conducted by this Branch in co-operation with the federal Department of Veterans Affairs has developed according to plan and a great many discharges have completed school training and have been placed in employment for additional training and experience. Finding employment for so many partially trained men has presented difficulties but with the co-operation of employer organizations and trade unions 1,749 men have been placed in building trades. Now that materials are available in larger quantities the building programme for the Province has expanded which has enabled the rehabilitation section of the Branch to find employment for trainees.



PROVINCIAL ADVISORY COMMITTEE FOR THE BUILDING TRADES

The Provincial Advisory Committee for the Building Trades supervised the placement in building trades of those released from rehabilitation training centres. The return to Canada of the discharged members of the Armed Forces had been accomplished more rapidly than was anticipated with the result that trainees were entering trades in greater numbers during a shorter period. Placement in employment to provide additional training and experience became increasingly difficult. The number of trainees and apprentices who may be employed in trades at one time is limited. It is impossible to teach efficiently or provide favourable opportunities when the number of those learning a trade is greater than may be absorbed by the trade. While it was most desirable that discharges should be returned to civilian occupation quickly, the speed of demobilization complicated the training and placement of these persons. The rehabilitation programme and the large increase in apprentice registration required the committee to meet monthly to discuss all matters in respect to trade training in school and on the job.

The personnel of this committee is as follows:

CHAIRMAN: JOSEPH M. PIGOTT

MEMBERS: Employers' Representatives

H. J. Ball  
J. Kenyon  
H. C. Nicholls  
P. C. Mansell  
E. F. Longfellow

Employees' Representatives

A. J. Crawford  
Cecil M. Shaw  
John W. Bruce  
A. Cooper  
William Jenoves

REPRESENTING THE DEPARTMENT OF EDUCATION: A. M. Moon, Assistant Director of Vocational Education

SECRETARY: FRED J. HAWES

MOTOR VEHICLE REPAIR TRADE

The amendment made in 1944 to the regulations governing the Motor Vehicle Repair Trade has increased the number of apprentices to 923 and those holding certificates of qualification to 16,358. These numbers are in addition to the 1945 ex-service men who received basic training in rehabilitation training centres and have been placed in employment for additional training and experience. These discharges received two years' credit on their term of apprenticeship for school training. In addition to trainees placed in employment hundred of discharges with experience in the trade had their qualifications evaluated and received full credit.

PROVINCIAL ADVISORY COMMITTEE FOR THE MOTOR VEHICLE REPAIR TRADE

The Provincial Advisory Committee for the Motor Vehicle Repair Trade has met on numerous occasions during the year and has expressed appreciation for the co-operation of the Department of Highways. The committee is of the opinion that regulations should be amended and systematized school training should become an important part of apprenticeship training in the trade. The personnel of the committee is as follows:

CHAIRMAN: FRED J. HAWES

MEMBERS: Employers' Representatives

Howard B. Moore  
J. L. Stewart  
H. W. Harper  
George Beattie  
E. Wadham  
W. Forsyth  
J. A. Hearn

Employees' Representatives

John Munro  
William Farley  
Charles Lambert  
D. Lyons  
R. D. Salmund  
F. Lehmann

## BARBER TRADE

The Industry and Labour Board has met several delegations representing barbers' organizations which repeated their request for compulsory certificates of qualification.

Sufficient numbers of apprentices have not entered this trade to maintain an adequate supply of capable replacements. During the fiscal year only four apprentices were registered. The trade relies on barber schools for its supply of competent operators. There is only one civilian barber school in Ontario which trains approximately fifty barbers a year which is not enough. Rehabilitation centres have trained a large number of ex-service men. One hundred and ninety-two have passed through the schools and have been placed on the job for additional experience. If it were not for men trained in rehabilitation schools there would be a shortage of barbers. Therefore, the Board did not give favourable consideration to the petition for compulsory certificates of qualification.

## PROVINCIAL ADVISORY COMMITTEE FOR THE BARBER TRADE

The personnel of the Provincial Advisory Committee for the Barber Trade is as follows:

CHAIRMAN: FRED J. HAWES

MEMBERS: Employers' Representatives

C. D. Stevenson  
L. J. McKerral  
Otto Maluske

Employees' Representatives

George Macdonald  
P. C. Hollier  
William Craig

## HAIRDRESSING TRADE

During the year the thirteen hairdressing schools in the Province were filled to capacity and practically all the graduates found employment as hairdressers. Students examined totalled 1,173 and of this number 1,073 were successful in passing. A large number of men and women enrolled in the course for hairdressers at the rehabilitation training centres. Three hundred and eighty-three have completed their training and have been placed in the trade.

The large number of persons registered in civilian schools in addition to those in rehabilitation schools indicates that the trade will be adequately supplied with replacements.

## PROVINCIAL ADVISORY COMMITTEE FOR THE HAIRDRESSING TRADE

The Provincial Advisory Committee for the Hairdressing Trade continues to meet on call. The personnel of this committee is as follows:

CHAIRMAN: FRED J. HAWES

MEMBERS: Employers' Representatives

W. O. Wiegand  
J. D. Adams

Employees' Representatives

Jean McKay  
G. Duncan

## REHABILITATION

The evaluation of experience, the placement and inspection of discharges desiring to enter designated trades reached its peak during the fiscal year. Although the greater part of this work has been completed it will continue for some time. The rehabilitation section of the Apprenticeship Branch is under the supervision of Mr. J. F. Marsh. On the authority of the Honourable Charles Daley, Minister of Labour, the Director of Apprenticeship addressed conferences of the Ontario Rehabilitation Committee on "Rehabilitation in Designated Trades" in London, Toronto, Hamilton, North Bay, Ottawa and Kingston.

In the building trades 381 discharges had their previous experience evaluated and are now employed as journeymen or are to acquire additional experience. Sixteen hundred and forty-two discharges who accepted school training have received two years' credit on their term of apprenticeship and have been placed under contract with employers who will provide the experience necessary to complete their apprenticeship training. On completing their contract satisfactorily trainees receive a diploma.

Many discharges from the mechanized forces made application to enter the motor vehicle repair trade. A large number who applied for evaluation in this trade obtained certificates of qualification. To date 1,304 have been evaluated and placed on the job for additional experience. Sixteen hundred and fifty-two trainees were placed under contract on completion of school training. If they pass the examination required on completion of their term of apprenticeship they will be eligible for certificate of qualification.

The hairdressing course of approximately six months was attractive to a large number of male and female discharges. When the director of the training school reports favourably on graduates they are eligible for certificate of qualification.

Barbering provides also an opportunity for many. Trainees who have finished the course have found no difficulty in obtaining employment. Certificates of qualification are available to graduates with favourable reports.

#### GENERAL

The apprentice training programme for the planing mill, sash and door manufacturing industry has made steady progress. Continual training classes for apprentices have been held in the new mill-room at the Training and Re-establishment Institute, Toronto, since September, 1946.

The co-operation of the committee for this industry and of the Ontario Retail Lumber Dealers' Association has stimulated interest in the need for apprenticeship, the result being that thirty-eight apprentices received training during the fiscal year and applicants have been registered for the next class which commences in May, 1947.

The trade of worker in servicing and installing air-conditioning or refrigerating equipment became a designated trade on February 19, 1947.

The trades of steamfitter and worker in servicing and installing air-conditioning or refrigerating equipment have petitioned for compulsory certificates of qualifications. Numerous meetings have been held and The Industry and Labour Board has received delegations supporting the appeal which is still under consideration.

The trade union representing granite cutters has petitioned that their trade be brought under the Act. A preliminary survey has been made and the employers' organization, Canadian Association of Memorial Craftsmen, discussed the matter at their annual convention. This petition is still under consideration.

Petition was received again this fiscal year from the International Association of Machinists, Tool and Die Makers for their trades to be brought under The Apprenticeship Act. The Board again instructed the Director to make a survey of the industry and report. Upon the completion of the survey a meeting was convened of the union representatives and another meeting of employer and union representatives was called and was well attended. After considerable discussion the Board ruled that the petition remain in abeyance pending a more favourable reaction from employers and evidence of greater unanimity of opinion between employer and employee representatives.

The definite shortage of skilled mechanics in numerous trades has increased the interest of employers in trade training and apprenticeship and enquiries are received continually in respect to these matters. Rehabilitation training centres have demonstrated the possibilities and benefits which may be available to those desiring to learn trades.

It is with regret that the death of Mr. Walter Thorne is reported. Mr. Thorne died on August 28, 1946, after a prolonged illness. Appointed district inspector in 1928, he worked faithfully in the Toronto district since then. Mr. C. J. Ratchford, a casualty of World War II, succeeded Mr. Thorne.

Mr. A. E. Palmer, representative in western Ontario since February 1, 1944, resigned on June 30, 1946. Mr. W. T. McHugh, a dischargée with overseas experience and formerly of the rehabilitation section, replaced Mr. Palmer on October 1, 1946.

The following tables indicate the activities of the Apprenticeship Branch for the fiscal year:

**Table No. 1**

REGISTRATION OF APPRENTICES BY TRADES

AS AT MARCH 31, 1947

Trade	Registrations		Cancellations		Completions		Active
	During year	Total	During year	Total	During year	Total	
Building trades:							
Bricklaying.....	39	320	4	41	5	191	88
Masonry.....	1	18	—	6	—	8	4
Carpentry.....	57	525	19	77	15	250	198
Painting and decorating.....	12	232	6	51	4	139	42
Plastering.....	5	159	2	22	1	113	24
Plumbing.....	100	1,075	26	247	18	490	338
Steamfitting.....	19	258	14	86	1	116	56
Sheet metal work.....	23	362	14	77	12	178	107
Electric wiring and installation ..	80	810	24	133	32	332	345
Total, 1947.....	336	3,759	109	740	88	1,817	1,202
Total, 1946.....	330	3,423	33	631	49	1,729	1,063
Motor vehicle repairing (a).....	372	1,655	67	326	105	537	792
(b).....	40	167	12	39	12	55	73
(c).....	26	168	11	35	14	75	58
Hairdressing.....	76	1,510	42	431	69	857	222
Barbering.....	4	91	2	19	3	59	13
Total, all trades, 1947.....	854	7,350	243	1,590	291	3,400	2,360
Total, all trades, 1946.....	695	6,496	85	1,347	201	3,109	2,040

**Table No. 2**  
 DISTRIBUTION OF APPRENTICES BY TRADES  
 FOR FISCAL YEAR ENDING MARCH 31, 1947

Trade	First year	Second year	Third year	Fourth year	Fifth year	Total
Building trades:						
Bricklaying.....	14	34	23	17	—	88
Masonry.....	1	1	—	2	—	4
Carpentry.....	24	85	58	31	—	198
Painting and decorating.....	6	16	9	11	—	42
Plastering.....	2	10	4	8	—	24
Plumbing.....	35	87	92	89	35	338
Steamfitting.....	2	18	12	14	10	56
Sheet metal work.....	5	27	37	38	—	107
Electrical wiring and instal- lation.....	17	95	127	106	—	345
Total.....	106	373	362	316	45	1,202
Motor vehicle repairing.....	65	234	242	226	156	923
Hairdressing.....	29	68	125	—	—	222
Barbering.....	2	5	6	—	—	13
Grand total.....	202	670	735	542	201	2,360

Plumbing, steamfitting and motor vehicle repair trades are the three designated trades with an apprenticeship period of five years.

Hairdressing and barbering have an apprenticeship period of three years.

Table No. 3

REGISTRATION OF APPRENTICES BY TRADES  
FOR THE FISCAL YEAR ENDING MARCH 31, 1947

Trade	Active at beginning of year	Registration during year	Cancellation of registration	Unsatisfactory completions	Diplomas awarded	Active at close of year
Building trades:						
Bricklaying.....	58	39	4	—	5	88
Masonry.....	3	1	—	—	—	4
Carpentry.....	175	57	19	1	14	198
Painting and decorating.....	40	12	6	—	4	42
Plastering.....	22	5	2	—	1	24
Plumbing.....	282	100	26	—	18	338
Steamfitting.....	52	19	14	1	—	56
Sheet metal work.....	110	23	14	—	12	107
Electric wiring and installation.....	321	80	24	3	29	345
Total.....	1,063	336	109	5	83	1,202
Motor vehicle repairing (a)....	592	372	67	8	97	792
(b)....	57	40	12	1	11	73
(c)....	57	26	11	—	14	58
Hairdressing.....	257	76	42	17	52	222
Barbering.....	14	4	2	—	3	13
Grand total.....	2,040	854	243	31	260	2,360

Table No. 4

REPORT OF EXAMINATIONS  
FOR THE FISCAL YEAR ENDING MARCH 31, 1947

Number of candidates examined:	At Toronto	At other centres	Totals
Motor vehicle repair trade.....	360	640	1,000
Hairdressing.....	712	461	1,173
Hairdressing teachers.....	22	—	22
Barbering.....	83	31	114
Barbering teachers.....	—	—	—
Grand totals.....	1,177	1,132	2,309

Table No. 4—Continued

Examinations were held in Toronto and other centres in accordance with arrangements made through local apprenticeship committees as follows:

Centres		Number of examinations	Number of candidates
Motor vehicle repair	Barrie.....	1	16
	Belleville.....	2	17
	Brantford.....	1	9
	Brockville.....	2	8
	Camp Borden.....	1	15
	Chatham.....	2	21
	Cobourg.....	1	4
	Cornwall.....	1	5
	Fort William.....	7	44
	Goderich.....	1	14
	Guelph.....	1	11
	Hamilton.....	4	67
	Kingston.....	2	19
	Kirkland Lake.....	1	4
	Kitchener.....	1	7
	Leamington.....	1	1
	Lindsay.....	2	10
	London.....	3	64
	Niagara Falls.....	1	10
	North Bay.....	1	7
	Oshawa.....	1	10
	Ottawa.....	3	80
	Owen Sound.....	1	10
	Peterborough.....	2	5
	Renfrew.....	1	11
	St. Catharines.....	2	16
	St. Thomas.....	2	22
Sarnia.....	1	8	
Smith's Falls.....	2	10	
Sudbury.....	1	9	
Timmins.....	1	8	
Toronto.....	25	360	
Welland.....	1	4	
Windsor.....	5	84	
Woodstock.....	1	10	
	Totals.....	85	1,000
Hairdressing	Hamilton.....	10	176
	London.....	6	108
	Ottawa.....	5	56
	Timmins.....	2	16
	Toronto.....	31	712
	Windsor.....	5	105
	Totals.....	59	1,173

Table No. 4—Continued

	Centres	Number of examinations	Number of candidates
Barbering	Fort William.....	2	2
	Hamilton.....	5	5
	Lindsay.....	3	3
	Ottawa.....	2	2
	Pembroke.....	1	1
	Toronto.....	83	83
	Windsor.....	15	15
	Woodstock.....	3	3
	Totals.....	114	114
Hairdressing teachers	Toronto.....	20	22
Barbering teachers	— .....	—	—
	Grand totals.....	278	2,309

Table No. 5

REPORT OF CERTIFICATES ISSUED  
FOR THE FISCAL YEAR ENDING MARCH 31, 1947

	Motor vehicle			Totals
	repair	Barbering	Hairdressing	
First certificate.....	1,325	79	52	1,456
By examination.....	596	116	1,046	1,758
By duplicate.....	77	1	13	91
By renewal.....	13,026	2,980	5,877	21,883
By miscellaneous.....	45	16	18	79
By rehabilitation.....	1,289	100	197	1,586
	16,358	3,292	7,203	26,853

Table No. 6

REPORT OF SCHOOL LICENSES  
FOR THE CALENDAR YEAR ENDING DECEMBER 31, 1946

	Hairdressing schools	Barbering schools
Number of schools in operation at close of previous year.....	13	1
Number of new licenses issued during year.....	—	—
Number of schools in operation at close of year.....	13	1

Table No. 7

REPORT ON TRAINING AND PLACEMENT OF DISCHARGED MEMBERS  
OF THE ARMED FORCES IN DESIGNATED TRADES  
FOR THE FISCAL YEAR ENDING MARCH 31, 1947

Building trades:	
At present under contract.....	1,642
Attained journeyman status after training, to date.....	62
*Discontinued training, to date.....	45
	1,749
Placed under contract, to date.....	381
Evaluated for previous experience and placed in employment.....	2,130



Table No. 7—Continued

Motor vehicle repair trade:	
At present under contract.....	1,652
Attained journeyman status after training, to date.....	156
*Discontinued training, to date.....	137
	1,945
Placed under contract, to date.....	1,304
Evaluated for previous experience and placed in employment.....	1,304
	3,249
Evaluated and trained.....	5,379
Dischargees who have attained journeyman status:	
Barbering.....	192
Hairdressing.....	383
Building trades.....	62
Motor vehicle repair trade.....	156
	793

\*NOTE: Discontinued training due to the following reasons: hospitalization, deceased, returned to previous home outside of the Province of Ontario, returned to previous employment, or unsuitable.

Remarks: In addition to the above approximately 800 dischargees have been placed with employers on probation, contracts pending.

Table No. 8

DISCHARGED MEMBERS OF THE ARMED FORCES TAKING COURSES  
IN ONTARIO TRAINING INSTITUTES AS OF MARCH 31, 1947

	Toronto	Hamil- ton	Wind- sor	Kitch- ener	Brock- ville	Lon- don	Fort William	Ottawa	Total
Building trades:									
Bricklaying.....	37	75	11	8	21	—	—	—	152
Carpentry.....	105	90	24	34	39	—	13	—	305
Painting and decorating.....	29	28	1	—	—	—	7	—	65
Plastering.....	18	20	—	—	—	—	—	—	38
Plumbing.....	30	35	11	8	23	—	7	—	114
Steamfitting.....	20	21	—	—	—	—	—	—	41
Sheet metal work....	19	19	—	—	—	—	8	—	46
Electric wiring and installation.....	46	118	9	—	18	—	6	—	197
Total.....	304	406	56	50	101	—	41	—	958
Motor vehicle repairing.	87	114	23	25	53	—	8	—	310
Barbering.....	30	14	9	10	11	11	6	—	91
Hairdressing.....	94	31	14	—	—	—	4	8	151
Grand total.....	515	565	102	85	165	11	59	8	1,510

Table No. 9

## REPORT OF REVENUE

FOR THE FISCAL YEAR ENDING MARCH 31, 1947

	Gross revenue	Refunds	Net revenue
Motor vehicle repair trade.....	\$21,221.00	\$367.00	\$20,854.00
Barbering trade.....	3,722.00	64.00	3,658.00
Hairdressing trade.....	9,581.00	172.00	9,409.00
Miscellaneous.....	40.86	—	40.86
Totals.....	<u>\$34,564.86</u>	<u>\$603.00</u>	<u>\$33,961.86</u>

## THE INDUSTRY AND LABOUR BOARD

## MINIMUM WAGE BRANCH

DIRECTOR: PATTERSON FARMER

The Minimum Wage Act was first passed in 1920 and the first order came into force in May, 1921. All orders under the original Act applied only to female employees. In 1937 a new minimum wage Act was passed permitting the issuance of orders covering male employees as well as female employees.

From time to time orders under the minimum wage Acts were put into force. The employment of upwards of 250,000 females in the Province was affected in each of the last several years by these orders. In the aggregate, these orders covered most of the occupational classifications in which females are employed.

New minimum wage orders, applying to all females in the Province except those exempt by section 16 of The Minimum Wage Act and by order 2 of these new orders, were published as Ontario Regulations 24/47 in the issue of the Ontario Gazette dated March 29, 1947, under The Regulations Act, 1944. When these orders come into force on June 1, 1947, those made under the Act in the past and enumerated in order 16 of Ontario Regulations 24/47 will be revoked.

## WAGE RETURNS

Wage information is collected for the purpose of checking compliance with the provisions of the orders in force under the Act. Employers are divided into groups and for further consolidation these groups are placed in twenty-one classes. A summary of the wage rates paid throughout the Province is given in tables appended to this report.

The total number of employers reporting for the fiscal year 1947 was about 1,100 more than for the year 1946 but only slightly more than those reporting in each of the three preceding years. The total number of employees reported was higher than in any year except 1943. The total number of female employees reported was approximately the same as for the years 1943, 1944 and 1946 but is approximately 20,000 below the peak year of 1945. From 1942 to March 31, 1947, inclusive, the employment of females in Ontario has been very high, 70,000 to 100,000 in excess of the pre-war years.

	Fiscal Years					
	1942	1943	1944	1945	1946	1947
Employers reporting.....	16,264	22,781	21,798	21,404	20,874	21,949
Employees of reporting firms	631,631	714,451	578,442	682,836	674,142	703,927
Female employees of reporting firms.....	210,257	224,879	224,459	243,234	223,175	221,883

## WAGE ADJUSTMENTS

Increases in wage rates were ordered for twenty-three employees in fourteen establishments as compared with wage increases ordered for twenty-five employees in twenty establishments for the previous year.

## ARREARS OF WAGES

Arrears of wages amounted to \$14 and were collected from two employers on behalf of two employees as compared with \$147.27 collected from five employers on behalf of twelve employees during the previous year.

### COMPLAINTS AND PROSECUTIONS

Four complaints of failure to pay the required minimum wage rates were received as compared with five complaints during the previous year.

No prosecutions were taken under the Act as compared with one prosecution the previous year.

### HOMework

Applications for approval of rates for homework were submitted by 449 employers. These applications were dealt with and approved rates were issued. This compares with applications from 422 employers the previous year. For approval, rates must in no case be lower than minimum rates prescribed in the orders under The Minimum Wage Act.

### HANDICAPPED WORKERS

Permits to employers authorizing the employment of handicapped workers at rates lower than the prescribed minimum rates were issued to twenty-six employers affecting thirty-five employees. In 1946 the corresponding figures were thirty-five employers and forty-six employees.

## Analyses of Wage Returns for Fiscal Year Ending March 31, 1947

## Autos, Accessories, Aircraft and Electrical Trades

Population Zones	Toronto		Other cities over 50,000		5,000 to 50,000		Under 5,000	
	Women	Girls	Women	Girls	Women	Girls	Women	Girls
Number of Employers:								
(a) Reporting female employees..	256		118		110		67	
(b) Having no female employees..	38		10		17		6	
(c) With no employees, out of business, or failing to report.....	58		15		10		19	
(d) Total questionnaires sent.....	352		143		137		92	
Number of Employees:								
(a) Male.....	10,437		28,489		20,699		5,831	
(b) Women.....	5,266		4,636		4,177		2,094	
(c) Girls—under 18 years.....	312		213		298		142	
(d) Total reported.....	16,015		33,338		25,174		8,067	
Average hours per week (normally)..	42		42		42		42 $\frac{3}{4}$	
Weekly rates of wages:								
Under \$8.00 per week.....	..	..	..	..	..	..	..	..
8.00—10.00.....	..	..	..	..	..	..	1	..
10.00—12.00.....	..	..	..	1	..	..	1	..
12.00—14.00.....	4	4	27	4	17	2	8	1
14.00—16.00.....	1	3	51	6	54	30	6	5
16.00—20.00.....	510	90	619	91	618	128	239	43
20.00—25.00.....	1,696	150	1,320	64	1,704	114	711	56
25.00—30.00.....	1,521	43	1,639	43	1,204	18	579	31
30.00 and up.....	1,534	22	980	4	580	6	549	6

## Auto Sales and Service

Population Zones	Toronto		Other cities over 50,000		5,000 to 50,000		Under 5,000	
	Women	Girls	Women	Girls	Women	Girls	Women	Girls
Number of Employers:								
(a) Reporting female employees..	57		44		101		49	
(b) Having no female employees..	5		21		10		10	
(c) With no employees, out of business, or failing to report.....	..		2		4		1	
(d) Total questionnaires sent.....	62		67		115		60	
Number of Employees:								
(a) Male.....	2,059		1,177		1,359		289	
(b) Women.....	276		135		193		84	
(c) Girls—under 18 years.....	3		5		6		..	
(d) Total reported.....	2,338		1,317		1,558		373	
Average hours per week (normally)..	40		40 $\frac{1}{2}$		40		41 $\frac{1}{2}$	
Weekly rates of wages:								
Under \$8.00 per week.....	..	..	..	..	..	..	..	..
8.00—10.00.....	..	..	..	..	..	..	..	..
10.00—12.00.....	..	..	..	1	3	..	2	..
12.00—14.00.....	..	..	1	1	9	..	3	..
14.00—16.00.....	4	..	3	2	28	5	13	..
16.00—20.00.....	29	1	26	1	49	1	13	..
20.00—25.00.....	103	2	55	..	49	..	21	..
25.00—30.00.....	93	..	35	..	36	..	16	..
30.00 and up.....	47	..	15	..	19	..	16	..

## Beverages, Drugs, Tobacco

Population Zones	Toronto		Other cities over 50,000		5,000 to 50,000		Under 5,000	
	Women	Girls	Women	Girls	Women	Girls	Women	Girls
<b>Number of Employers:</b>								
(a) Reporting female employees. . . . .	279		91		97		73	
(b) Having no female employees. . . . .	10		9		5		1	
(c) With no employees, out of business, or failing to report . . . . .	21		8		5		1	
(d) Total questionnaires sent. . . . .	310		108		107		75	
<b>Number of Employees:</b>								
(a) Male. . . . .	6,450		4,232		4,236		3,177	
(b) Women. . . . .	3,628		1,827		1,001		1,343	
(c) Girls—under 18. . . . .	142		113		73		118	
(d) Total reported. . . . .	10,220		6,172		5,310		4,638	
Average hours per week (normally) . . . . .	41½		43½		44½		43½	
<b>Weekly rates of wages:</b>								
Under \$8.00 per week. . . . .	..		..		..		..	
8.00—10.00. . . . .	..		..		..		..	
10.00—12.00. . . . .	..		..		..		1	
12.00—14.00. . . . .	3		24		2		2	
14.00—16.00. . . . .	73		15		13		3	
16.00—20.00. . . . .	705		45		257		43	
20.00—25.00. . . . .	1,256		41		497		46	
25.00—30.00. . . . .	764		9		507		19	
30.00 and up. . . . .	827		8		552		1	

## Brokers

Population Zones	Toronto		Other cities over 50,000		Remainder of Province	
	Women	Girls	Women	Girls	Women	Girls
<b>Number of Employers:</b>						
(a) Reporting female employees. . . . .	169		61		27	
(b) Having no female employees. . . . .	7		3		1	
(c) With no employees, out of business, or failing to report . . . . .	13		1		2	
(d) Total questionnaires sent. . . . .	189		65		30	
<b>Number of Employees:</b>						
(a) Male. . . . .	1,669		114		29	
(b) Women. . . . .	1,068		139		67	
(c) Girls—under 18 years. . . . .	35		3		2	
(d) Total reported. . . . .	2,772		256		98	
Average hours per week (normally) . . . . .	39		36		37½	
<b>Weekly rates of wages:</b>						
Under \$8.00 per week. . . . .	..		..		..	
8.00—10.00. . . . .	..		..		..	
10.00—12.00. . . . .	..		..		..	
12.00—14.00. . . . .	1		1		4	
14.00—16.00. . . . .	4		2		5	
16.00—20.00. . . . .	36		17		26	
20.00—25.00. . . . .	242		14		48	
25.00—30.00. . . . .	440		1		41	
30.00 and up. . . . .	345		..		19	

## Clothing and Needle Trades

Population Zones	Toronto		Other cities over 50,000		5,000 to 50,000		Under 5,000	
	Women	Girls	Women	Girls	Women	Girls	Women	Girls
Number of Employers:								
(a) Reporting female employees..	747		106		116		32	
(b) Having no female employees..	4		1		1		..	
(c) With no employees, out of business, or failing to report...	36		18		7		..	
(d) Total questionnaires sent.....	787		125		124		32	
Number of Employees:								
(a) Male.....	7,270		534		1,379		257	
(b) Women.....	10,927		1,087		3,195		582	
(c) Girls—under 18 years.....	168		42		242		51	
(d) Total reported.....	18,365		1,663		4,816		890	
Average hours per week (normally)..	41		45		44		45	
Weekly rates of wages:								
Under \$8.00 per week.....	..	..	1	..	3	1	2	..
8.00—10.00.....	..	..	..	1	15	5	6	2
10.00—12.00.....	5	1	4	..	53	14	10	1
12.00—14.00.....	24	7	21	4	86	29	60	12
14.00—16.00.....	181	29	97	5	269	43	105	15
16.00—20.00.....	1,840	76	356	29	1,158	120	194	15
20.00—25.00.....	2,689	40	303	2	859	23	132	4
25.00—30.00.....	2,321	12	181	1	419	6	49	1
30.00 and up.....	3,867	3	124	..	333	1	24	1

## Construction and Engineering Contractors—Office Employees

Population Zones	Toronto		Other cities over 50,000		5,000 to 50,000		Under 5,000	
	Women	Girls	Women	Girls	Women	Girls	Women	Girls
Number of Employers:								
(a) Reporting female employees..	58		36		32		10	
(b) Having no female employees..	1		1		1		..	
(c) With no employees, out of business, or failing to report....	3		1		1		..	
(d) Total questionnaires sent.....	62		38		34		10	
Number of Employees:								
(a) Male.....	4,852		3,492		1,132		677	
(b) Women.....	257		102		52		61	
(c) Girls—under 18 years.....	34		5		2		3	
(d) Total reported.....	5,143		3,599		1,186		741	
Average hours per week (normally)..	38½		43		40		44	
Weekly rates of wages:								
Under \$8.00 per week.....	..	..	..	..	..	..	..	..
8.00—10.00.....	..	..	..	..	..	..	..	..
10.00—12.00.....	..	..	..	..	..	..	..	..
12.00—14.00.....	..	..	2	..	4	..	..	..
14.00—16.00.....	1	..	2	1	1	1	2	..
16.00—20.00.....	21	29	12	3	7	1	9	3
20.00—25.00.....	53	4	45	1	25	..	25	..
25.00—30.00.....	119	1	25	..	8	..	13	..
30.00 and up.....	63	..	16	..	7	..	12	..

## Food and Food Products (including seasonal canning)

Population Zones	Toronto		Other cities over 50,000		5,000 to 50,000		Under 5,000	
Number of Employers:								
(a) Reporting female employees..	237		138		317		369	
(b) Having no female employees..	2		16		17		21	
(c) With no employees, out of business, or failing to report....	6		11		10		24	
(d) Total questionnaires sent.....	245		165		344		414	
Number of Employees:								
(a) Male.....	14,010		6,105		10,643		10,761	
(b) Women.....	5,761		2,281		4,156		5,563	
(c) Girls—under 18 years.....	479		200		327		368	
(d) Total reported.....	20,250		8,586		15,126		16,692	
Average hours per week (normally)..	42		46		45		46	
	Women	Girls	Women	Girls	Women	Girls	Women	Girls
Weekly rates of wages:								
Under \$8.00 per week.....	..	..	..	..	..	..	1	2
8.00—10.00.....	..	..	..	..	..	1	8	2
10.00—12.00.....	..	..	5	9	9	24	34	5
12.00—14.00.....	11	19	39	13	49	18	161	28
14.00—16.00.....	90	26	156	67	207	40	470	48
16.00—20.00.....	1,609	287	760	56	1,276	135	1,759	108
20.00—25.00.....	2,210	107	581	43	1,230	95	1,317	62
25.00—30.00.....	1,216	38	550	10	1,161	13	1,220	104
30.00 and up.....	625	2	190	2	224	1	593	9

## Furniture, Upholstering, Lumber and Wood Products

Population Zones	Toronto		Other cities over 50,000		5,000 to 50,000		Under 5,000	
Number of Employers:								
(a) Reporting female employees..	151		60		181		182	
(b) Having no female employees..	33		14		27		29	
(c) With no employees, out of business, or failing to report....	6		9		14		18	
(d) Total questionnaires sent.....	190		83		222		229	
Number of Employees:								
(a) Male.....	3,593		1,809		9,010		8,712	
(b) Women.....	610		199		1,004		1,062	
(c) Girls—under 18 years.....	21		11		112		91	
(d) Total reported.....	4,224		2,019		10,126		9,865	
Average hours per week (normally)..	41 $\frac{3}{4}$		43		43 $\frac{1}{2}$		44 $\frac{3}{4}$	
	Women	Girls	Women	Girls	Women	Girls	Women	Girls
Weekly rates of wages:								
Under \$8.00 per week.....	..	..	..	..	..	..	..	..
8.00—10.00.....	..	..	..	..	..	..	..	..
10.00—12.00.....	..	..	..	..	3	2	3	4
12.00—14.00.....	1	..	..	..	10	8	27	6
14.00—16.00.....	3	1	8	..	24	18	49	10
16.00—20.00.....	41	6	39	9	258	56	359	44
20.00—25.00.....	203	8	35	2	362	22	340	21
25.00—30.00.....	163	4	53	..	172	3	177	5
30.00 and up.....	199	2	64	..	175	3	107	1



## Hairdressing and Beauty Parlours

Population Zones	Toronto	Other cities over 50,000	10,000 to 50,000	5,000 to 10,000
<b>Number of Employers:</b>				
(a) Reporting female employees..	273	134	140	64
(b) Having no female employees..	45	15	17	14
(c) With no employees, out of business, or failing to report....	10	7	8	5
(d) Total questionnaires sent.....	328	156	165	83
<b>Number of Employees:</b>				
(a) Male.....	80	64	12	6
(b) Women.....	946	470	339	133
(c) Girls—under 18 years.....	...	...	...	...
(d) Total reported.....	1,026	534	351	139
Average hours per week (normally)..	45	47	47	47
	Women	Women	Women	Women
<b>Hourly rates of wages:</b>				
Under 17 cents per hour.....	1	6	8	2
17 - 21 cents.....	2	1	7	4
21 - 25 ".....	6	2	25	3
25 - 29 ".....	25	28	43	12
29 - 33 ".....	54	80	59	33
33 - 42 ".....	172	109	74	27
42 - 52 ".....	302	134	75	29
52 - 62 ".....	219	74	37	18
62 and up.....	165	36	11	5

## Insurance and Real Estate

Population Zones	Toronto		Other cities over 50,000		5,000 to 50,000		Under 5,000	
<b>Number of Employers:</b>								
(a) Reporting female employees..	251		153		203		12	
(b) Having no female employees..	16		6		5		2	
(c) With no employees, out of business, or failing to report....	4		3		2		..	
(d) Total questionnaires sent.....	271		162		210		14	
<b>Number of Employees:</b>								
(a) Male.....	3,068		547		459		6	
(b) Women.....	5,144		1,195		977		23	
(c) Girls—under 18 years.....	287		75		50		1	
(d) Total reported.....	8,499		1,817		1,486		30	
Average hours per week (normally)..	39½		39½		38½		40	
	Women	Girls	Women	Girls	Women	Girls	Women	Girls
<b>Weekly rates of wages:</b>								
Under \$8.00 per week.....	..	..	..	..	..	..	..	..
8.00 - 10.00.....	..	..	..	..	1	..	1	..
10.00 - 12.00.....	..	..	..	..	2	..	..	..
12.00 - 14.00.....	6	7	2	..	23	10	4	..
14.00 - 16.00.....	41	25	17	3	98	14	1	1
16.00 - 20.00.....	1,237	226	183	35	297	24	7	..
20.00 - 25.00.....	1,925	27	309	35	276	2	6	..
25.00 - 30.00.....	1,079	2	314	2	179	..	3	..
30.00 and up.....	856	..	370	..	101	..	1	..

## Jewellery, Leather Goods and Rubber

Population Zones	Toronto		Other cities over 50,000		5,000 to 50,000		Under 5,000	
	Women	Girls	Women	Girls	Women	Girls	Women	Girls
Number of Employers:								
(a) Reporting female employees..	225		59		106		40	
(b) Having no female employees..	21		6		10		4	
(c) With no employees, out of business, or failing to report....	33		6		6		8	
(d) Total questionnaires sent.....	279		71		122		52	
Number of Employees:								
(a) Male .....	7,845		2,609		12,818		3,417	
(b) Women .....	3,604		840		4,583		936	
(c) Girls—under 18 years.....	258		46		522		205	
(d) Total reported.....	11,707		3,495		17,923		4,558	
Average hours per week (normally)..	41½		43		43		44	
Weekly rates of wages:								
Under \$8.00 per week.....	..	..	..	..	..	..	..	..
8.00—10.00.....	..	..	..	..	..	..	..	..
10.00—12.00.....	..	..	..	..	1	3	13	13
12.00—14.00.....	2	1	3	1	10	9	23	11
14.00—16.00.....	9	4	21	1	27	19	55	43
16.00—20.00.....	375	52	95	12	679	189	241	71
20.00—25.00.....	1,245	111	260	32	1,453	174	307	45
25.00—30.00.....	917	37	307	..	1,336	86	182	17
30.00 and up.....	1,056	53	154	..	1,077	42	115	5

## Laundries, Dyers and Cleaners

Population Zones	Toronto		Other cities over 50,000		Remainder of Province	
	Women	Girls	Women	Girls	Women	Girls
Number of Employers:						
(a) Reporting female employees.....	235		143		194	
(b) Having no female employees.....	3		2		4	
(c) With no employees, out of business, or failing to report.....	6		2		2	
(d) Total questionnaires sent.....	244		147		200	
Number of Employees:						
(a) Male .....	1,797		1,567		1,526	
(b) Women .....	2,720		1,931		2,069	
(c) Girls—under 18 years.....	95		89		99	
(d) Total reported.....	4,612		3,587		3,694	
Average hours per week (normally).....	45		45		46½	
Hourly rates of wages:						
Under 17 cents per hour.....	..	..	..	..	2	..
17—21 cents.....	..	..	1	..	8	1
21—25 “.....	..	..	2	..	29	9
25—29 “.....	13	4	72	5	156	16
29—33 “.....	147	36	221	35	246	19
33—42 “.....	1,433	43	907	42	972	42
42—52 “.....	836	12	465	6	467	11
52—62 “.....	178	..	182	1	135	1
62 and up.....	113	..	81	..	54	..

## Machinery and Metal Products

Population Zones	Toronto		Other cities over 50,000		5,000 to 50,000		Under 5,000	
	Women	Girls	Women	Girls	Women	Girls	Women	Girls
Number of Employers:								
(a) Reporting female employees..	401		215		286		117	
(b) Having no female employees..	74		38		48		22	
(c) With no employees, out of business, or failing to report....	66		32		35		18	
(d) Total questionnaires sent.....	541		285		369		157	
Number of Employees:								
(a) Male.....	23,601		24,565		37,740		10,215	
(b) Women.....	4,313		2,927		4,374		1,607	
(c) Girls—under 18 years.....	221		148		299		81	
(d) Total reported.....	28,135		27,640		42,413		11,903	
Average hours per week (normally)..	42½		43		42		42½	
Weekly rates of wages:								
Under \$8.00 per week.....	..	..	..	..	..	..	..	..
8.00 - 10.00.....	1	..	..	..	..	..	..	..
10.00 - 12.00.....	..	1	1	1	8	8	3	2
12.00 - 14.00.....	9	1	1	3	25	13	21	6
14.00 - 16.00.....	11	4	23	6	67	25	49	11
16.00 - 20.00.....	542	71	433	74	695	134	276	27
20.00 - 25.00.....	1,394	89	964	40	1,616	109	563	25
25.00 - 30.00.....	1,236	27	747	19	1,052	10	429	8
30.00 and up.....	1,120	28	758	5	911	..	266	2

## Mining and Quarrying, Non-Metallic and Miscellaneous

Population Zones	Toronto		Other cities over 50,000		5,000 to 50,000		Under 5,000	
	Women	Girls	Women	Girls	Women	Girls	Women	Girls
Number of Employers:								
(a) Reporting female employees..	433		152		210		157	
(b) Having no female employees..	47		38		37		27	
(c) With no employees, out of business, or failing to report....	70		26		23		21	
(d) Total questionnaires sent.....	550		216		270		205	
Number of Employees:								
(a) Male.....	11,221		5,057		15,244		23,031	
(b) Women.....	6,119		2,082		4,164		1,675	
(c) Girls—under 18 years.....	289		150		351		100	
(d) Total reported.....	17,629		7,289		19,759		24,806	
Average hours per week (normally)..	41¼		44½		43½		43½	
Weekly rates of wages:								
Under \$8.00 per week.....	..	..	..	..	1	7	1	..
8.00 - 10.00.....	..	..	..	..	6	3	3	..
10.00 - 12.00.....	..	1	..	1	2	4	9	4
12.00 - 14.00.....	6	4	7	2	27	3	63	11
14.00 - 16.00.....	74	8	47	10	127	46	94	10
16.00 - 20.00.....	1,300	146	425	..	936	153	384	34
20.00 - 25.00.....	2,323	108	669	88	1,241	85	433	39
25.00 - 30.00.....	1,268	18	524	8	1,006	39	372	2
30.00 and up.....	1,148	4	410	2	818	11	316	..

## Paper, Paper Products, Advertising, Photography and Printing

Population Zones	Toronto		Other cities over 50,000		5,000 to 50,000		Under 5,000	
	Women	Girls	Women	Girls	Women	Girls	Women	Girls
<b>Number of Employers:</b>								
(a) Reporting female employees..	541		177		224		118	
(b) Having no female employees..	42		21		15		7	
(c) With no employees, out of business, or failing to report....	40		28		146		21	
(d) Total questionnaires sent.....	729		278		279		153	
<b>Number of Employees:</b>								
(a) Male.....	13,402		5,075		18,252		9,079	
(b) Women.....	7,266		2,588		2,548		1,475	
(c) Girls—under 18 years.....	460		198		195		138	
(d) Total reported.....	21,128		7,861		20,995		10,692	
Average hours per week (normally)..	42½		45		44¼		45¼	
<b>Weekly rates of wages:</b>								
Under \$8.00 per week.....	..	..	..	..	..	3	..	..
8.00 - 10.00.....	..	..	..	..	2	5	1	..
10.00 - 12.00.....	3	1	1	..	9	4	5	1
12.00 - 14.00.....	3	1	47	14	57	14	15	10
14.00 - 16.00.....	38	13	93	8	199	25	23	5
16.00 - 20.00.....	1,081	194	662	96	580	99	274	31
20.00 - 25.00.....	2,259	212	717	61	684	35	515	66
25.00 - 30.00.....	1,943	37	661	19	490	8	405	24
30.00 and up.....	1,939	2	407	..	527	2	237	1

## Professional Services

Population Zones	Toronto		Other cities over 50,000		5,000 to 50,000		Under 5,000	
	Women	Girls	Women	Girls	Women	Girls	Women	Girls
<b>Number of Employers:</b>								
(a) Reporting female employees..	414		321		373		77	
(b) Having no female employees..	28		16		20		2	
(c) With no employees, out of business, or failing to report....	21		19		19		7	
(d) Total questionnaires sent.....	463		356		412		86	
<b>Number of Employees:</b>								
(a) Male.....	691		104		105		13	
(b) Women.....	1,106		607		700		128	
(c) Girls—under 18 years.....	43		20		52		8	
(d) Total reported.....	1,840		731		857		149	
Average hours per week (normally)..	41		41		40½		43	
<b>Weekly rates of wages:</b>								
Under \$8.00 per week.....	..	..	..	..	..	..	..	..
8.00 - 10.00.....	..	..	..	..	2	2	..	..
10.00 - 12.00.....	..	..	1	2	5	4	1	2
12.00 - 14.00.....	11	3	12	2	25	18	11	1
14.00 - 16.00.....	28	8	27	5	66	22	15	2
16.00 - 20.00.....	60	17	86	7	178	6	47	2
20.00 - 25.00.....	158	12	192	4	227	..	29	..
25.00 - 30.00.....	425	3	201	..	153	..	15	1
30.00 and up.....	424	..	88	..	44	..	10	..

## Recreation and Amusement

Population Zones	Toronto		Other cities over 50,000		Remainder of Province	
Number of Employers:						
(a) Reporting female employees.....	167		60		180	
(b) Having no female employees.....	4		1		2	
(c) With no employees, out of business, or failing to report.....	11		1		3	
(d) Total questionnaires sent.....	182		62		185	
Number of Employers:						
(a) Male.....	2,273		460		1,144	
(b) Women.....	1,348		479		792	
(c) Girls—under 18 years.....	18		8		76	
(d) Total reported.....	3,639		947		2,012	
Average hours per week (normally).....	3—47; 43		5—48; 47		5—48; 45	
	Women	Girls	Women	Girls	Women	Girls
Hourly rates of wages:						
Under 17 cents per hour.....	..	..	..	..	..	..
17—21 cents.....	..	..	..	..	1	5
21—25 “.....	..	..	..	..	1	..
25—29 “.....	2	..	10	3	102	19
29—33 “.....	51	3	39	2	98	12
33—42 “.....	275	8	217	3	278	33
42—52 “.....	425	6	131	..	179	5
52—62 “.....	331	1	55	..	71	1
62 and up.....	264	..	27	..	62	1

## Restaurants and Hotels

Population Zones	Toronto	Other cities over 50,000	10,000 to 50,000	4,000 to 10,000
Number of Employers:				
(a) Reporting female employees..	670	376	548	265
(b) Having no female employees..	35	22	12	9
(c) With no employees, out of busi- ness, or failing to report....	31	16	31	11
(d) Total questionnaires sent....	736	414	591	285
Number of Employees:				
(a) Male.....	7,711	3,109	2,953	1,065
(b) Women.....	7,219	3,705	4,160	1,615
(c) Girls—under 18 years.....	..	..	..	..
(d) Total reported.....	14,930	6,814	7,113	2,680
Average hours per week (normally)..	46	46	47½	47
	Women	Women	Women	Women
Hourly rates of wages:				
Under 17 cents per hour.....	..	..	..	..
17—21 cents.....	..	..	2	2
21—25 “.....	..	..	68	48
25—29 “.....	390	195	589	318
29—33 “.....	641	558	1,044	436
33—42 “.....	3,081	1,964	1,660	504
42—52 “.....	2,189	702	563	219
52—62 “.....	596	180	156	54
62 and up.....	322	106	78	34

Telephone and Transports

Population Zones	Toronto		Other cities over 50,000		10,000 to 50,000		4,000 to 10,000		Over 300 lines		50 to 300 lines	
	Women	Girls	Women	Girls	Women	Girls	Women	Girls	Women	Girls	Women	Girls
<b>Number of Employers:</b>												
(a) Reporting female employees.....	50		44		78		37		51		197	
(b) Having no female employees.....	7		3		1		..		..		9	
(c) With no employees, out of business, or failing to report.....	..		2		..		..		1		8	
(d) Total questionnaires sent.....	57		49		79		37		52		214	
<b>Number of Employees:</b>												
(a) Male.....	9,860		2,629		2,488		303		155		165	
(b) Women.....	3,154		1,648		1,779		614		480		861	
(c) Girls—under 18 years.....	485		358		564		130		87		98	
(d) Total reported.....	13,499		4,635		4,831		1,047		722		1,124	
Average hours per week (normally).....	39		39		39½		43½		40½		44	
<b>Hourly rates of wages:</b>												
Under 17 cents per hour.....	..	..	..	..	..	..	..	..	..	..	..	..
17 - 21 cents.....	..	..	..	..	..	..	..	..	3	1	11	1
21 - 25 ".....	..	..	..	..	..	..	1	..	..	..	24	5
25 - 29 ".....	..	..	..	..	..	..	9	3	16	6	88	8
29 - 33 ".....	1	..	..	2	20	15	45	24	55	41	128	47
33 - 42 ".....	79	12	231	225	512	471	168	88	181	37	355	35
42 - 52 ".....	1,206	466	533	129	606	76	236	14	149	2	160	1
52 - 62 ".....	864	7	493	2	416	1	100	1	47	..	61	..
62 and up.....	1,004	..	391	..	225	1	55	..	29	..	26	..

## Trade and Distribution

Population Zones	Toronto		Other cities over 50,000		5,000 to 50,000		Under 5,000	
Number of Employers:								
(a) Reporting female employees..	1,473		1,113		1,894		1,226	
(b) Having no female employees..	7		33		35		19	
(c) With no employees, out of busi- ness, or failing to report....	62		50		72		113	
(d) Total questionnaires sent.....	1,542		1,196		2,001		1,358	
Number of Employees:								
(a) Male.....	18,984		8,596		9,471		3,203	
(b) Women.....	20,479		9,380		11,039		3,641	
(c) Girls—under 18 years.....	2,139		1,006		1,541		514	
(d) Total reported.....	41,602		18,982		22,051		7,358	
Average hours per week (normally)..	43		44½		44½		44	
	Women	Girls	Women	Girls	Women	Girls	Women	Girls
Weekly rates of wages:								
Under \$8.00 per week.....	..	..	..	..	..	..	..	3
8.00 - 10.00.....	..	..	1	..	16	20	80	79
10.00 - 12.00.....	..	2	7	6	228	109	312	132
12.00 - 14.00.....	77	86	408	242	1,045	373	824	167
14.00 - 16.00.....	888	809	1,314	325	2,161	618	793	68
16.00 - 20.00.....	8,688	1,081	3,438	291	4,179	373	950	47
20.00 - 25.00.....	6,545	153	2,599	118	2,243	47	430	17
25.00 - 30.00.....	2,429	7	943	24	782	1	153	..
30.00 and up.....	1,852	1	670	..	385	..	99	1

## Trust and Loan Companies

Population Zones	Toronto		Other cities over 50,000		Remainder of Province	
Number of Employers:						
(a) Reporting female employees.....	15		10		11	
(b) Having no female employees.....	...		1		...	
(c) With no employees, out of business, or failing to report.....	2		1		...	
(d) Total questionnaires sent.....	17		12		11	
Number of Employees:						
(a) Male.....	579		125		72	
(b) Women.....	675		125		114	
(c) Girls—under 18 years.....	24		3		2	
(d) Total reported.....	1,278		253		188	
Average hours per week (normally).....	37		39		38½	
	Women	Girls	Women	Girls	Women	Girls
Weekly rates of wages:						
Under \$8.00 per week.....	..	..	..	..	..	..
8.00 - 10.00.....	..	..	..	..	..	..
10.00 - 12.00.....	..	..	..	..	1	..
12.00 - 14.00.....	..	..	..	..	2	..
14.00 - 16.00.....	1	3	..	1	4	1
16.00 - 20.00.....	123	11	29	1	35	1
20.00 - 25.00.....	261	8	58	1	44	..
25.00 - 30.00.....	199	2	28	..	18	..
30.00 and up.....	91	..	10	..	10	..

## APPENDIX

STRIKES AND LOCKOUTS IN ONTARIO  
DURING THE FISCAL YEAR ENDING MARCH 31, 1947

(From figures published in The Labour Gazette)

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in man-working days
			IN PROGRESS PRIOR TO FISCAL YEAR		
Niagara Falls	Metal factory workers	Feb. 25 1946	For a union agreement providing for union shop, check-off, etc.; terminated May 11; conciliation; provincial; compromise.	33	1,180
Windsor	Electricians	Mar. 22	Against inclusion of clause in agreement that wage increases would be subject to approval of Regional War Labour Board; terminated April 5; conciliation; provincial; return of workers pending reference to Regional War Labour Board; indefinite.	120	600
			COMMENCING DURING FISCAL YEAR		
Carleton Place	Woollen factory workers	April 2	For increased wages, union shop, check-off, two weeks' vacations with pay, etc.; terminated June 11; conciliation; federal, and return of workers pending further negotiations; indefinite.	160	9,200
Brantford, Guelph and Toronto	Carpet factory workers, weavers	April 29	For reduced hours, increased wages and two weeks' vacations with pay, etc.; terminated July 13; conciliation, provincial; compromise.	113	4,860
Oshawa	Automotive parts factory workers	April 25	For increased wages, piece rates; terminated April 26; return of workers pending further negotiations; indefinite.	100	200
Guelph	Foundry workers	April 30	Against dismissal of two workers for infraction of company rules; terminated May 20; negotiations; in favour of workers.	250	4,375
Windsor	Bricklayers and masons	April 16	For increased wages; terminated April 30; return of workers pending decision of Regional War Labour Board; indefinite.	53	580
Teeswater	Telephone operators	April 22	For increased wages; terminated April 24; negotiations; in favour of workers.	4	10



## APPENDIX—Continued

## STRIKES AND LOCKOUTS IN ONTARIO

DURING THE FISCAL YEAR ENDING MARCH 31, 1947

(From figures published in The Labour Gazette)

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in man-working days
Kingston	Cemetery workers	April 1	For increased wages; terminated April 2; negotiations; compromise.	10	20
Carleton Place	Textile factory workers	May 1	In sympathy with strike at Carleton Place, commencing April 2, 1946; terminated May 1; return of workers; in favour of employer.	250	250
Brantford	Twine factory workers	May 23	For increased wages; terminated May 31; conciliation; provincial; return of workers pending further reference to Regional War Labour Board; indefinite.	321	1,926
New Toronto	Brass factory workers	May 18	For increased wages, reduced hours, union shop, seniority in lay-offs, etc.; terminated October 26; conciliation, federal and provincial; compromise.	1,000	84,000
St. Catharines	Carpenters	May 1	For increased wages; terminated May 1; return of workers pending decision of Regional War Labour Board; in favour of workers.	150	150
Toronto	Plasterers	May 15	For payment for all statutory holidays and two weeks' vacations with pay instead of one; terminated May 31; negotiations and reference to arbitration; indefinite.	160	2,080
Bowmanville, Hamilton, Kitchener, New Toronto, Oakville and Toronto	Rubber factory workers	June 23	For increased wages, reduced hours, overtime rate for Saturdays, Sundays and holidays, etc.: (plant at Oakville resumed operations August 23) terminated October 18 to 19; conciliation, federal and provincial, followed by negotiations; compromise.	10,146	800,000
Toronto	Fur factory workers	June 10	For increased wages, reduced hours, two weeks' vacations with pay, etc.; terminated June 29; conciliation, provincial; and reference to Regional War Labour Board; indefinite.	274	4,500

## APPENDIX—Continued

## STRIKES AND LOCKOUTS IN ONTARIO

DURING THE FISCAL YEAR ENDING MARCH 31, 1947

(From figures published in The Labour Gazette)

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in man-working days
Welland	Cotton factory workers, spinners	June 3	For increased wages; terminated June 8; return of workers pending decision of Regional War Labour Board; compromise.	26	125
Brantford	Twine factory workers	June 11	Against dismissal of female worker for infraction of company rules; terminated June 17; negotiations; in favour of employer.	321	1,525
Toronto	Knitting factory workers	June 25	For increased wages and reduced hours; terminated August 10; conciliation, provincial; compromise.	630	22,150
Lindsay	Saw and planing mill workers	June 3	For increased wages; terminated June 3; return of workers pending reference to Regional War Labour Board; indefinite.	44	44
Forest	Box and basket factory workers	June 14	For increased wages; terminated June 25; return of workers pending decision of Regional War Labour Board; compromise; monthly efficiency bonus approved.	68	680
Chatham and Windsor	Motor vehicle factory workers	June 18	For increased wages, reduced hours, two weeks' vacations with pay, etc.; terminated October 19; conciliation, federal, followed by negotiations; compromise.	3,440	267,250
Windsor	Steel products factory workers	June 27	For a new agreement providing for increased wages, reduced hours, two weeks' vacations with pay, etc.; terminated October 29; negotiations; compromise.	224	14,572
Brantford	Roofing products factory workers	June 25	Against dismissal of worker for absenteeism; terminated June 27; negotiations; in favour of employer.	80	200
Windsor	Chemical factory workers	June 27	For a new agreement providing for increased wages, reduced hours, union shop, check-off, two weeks' vacations with pay, etc.; terminated October 15; negotiations; compromise.	531	33,793

## APPENDIX—Continued

## STRIKES AND LOCKOUTS IN ONTARIO

DURING THE FISCAL YEAR ENDING MARCH 31, 1947

(From figures published in The Labour Gazette)

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in man-working days
Windsor	Bakery workers	July 20	For a union agreement and against dismissal of two workers allegedly for union activity; terminated July 26; conciliation, provincial; in favour of workers.	17	72
Toronto	Fur factory workers	July 4	For increased wages, reduced hours and two weeks' vacations with pay; terminated July 10; negotiations and reference to arbitration; indefinite.	350	1,400
Waterloo	Glove factory workers	July 12	For a union agreement providing for preferential shop, check-off, etc.; terminated August 14; conciliation, provincial, compromise.	10	275
Toronto	Clothing factory workers	July 9	For increased wages, reduced hours, etc.; terminated July 13; return of workers pending settlement; indefinite.	1,400	7,000
Oshawa	Motor vehicle factory workers	July 2	For increased wages, piece rates; terminated July 3; return of workers pending negotiations; indefinite.	120	200
Hamilton	Electrical apparatus factory workers	July 5	For increased wages, reduced hours, two weeks' vacations with pay, payment for statutory holidays, etc.; terminated October 28; conciliation, federal; compromise.	4,375	320,000
Welland	Metal factory workers	July 8	For increased wages and reduced hours; terminated October 12; conciliation, provincial; compromise.	1,280	78,000
Toronto	Electrical apparatus and wire factory workers	July 8	For increased wages, reduced hours, two weeks' vacations with pay, etc.; terminated October 31; reference to a commissioner appointed by federal government at request of provincial government; compromise.	1,896	112,500
Brampton	Foundry workers	July 11	For a new agreement providing for increased wages, reduced hours, closed shop, etc.; terminated July 27; conciliation, provincial, and return of workers pending further negotiations; indefinite.	51	610

## APPENDIX—Continued

## STRIKES AND LOCKOUTS IN ONTARIO

DURING THE FISCAL YEAR ENDING MARCH 31, 1947

(From figures published in The Labour Gazette)

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in man-working days
Kingston	Storage battery factory workers	July 16	For increased wages, reduced hours, two weeks' vacations with pay, union shop, check-off, etc.; terminated August 6; negotiations and reference to Regional War Labour Board; in favour of workers (draft agreement signed).	41	690
Welland	Metal factory workers	July 25	Protest against "wage policy" of federal government; terminated July 25; return of workers; in favour of employer.	600	300
Amherstburg	Chemical factory workers	July 12	For a new agreement providing for increased wages, reduced hours, union security, etc.; terminated October 11 to 17; negotiations; compromise.	438	28,000
Sudbury and Copper Cliff	Electric railway workers	July 8	For a new agreement providing for increased wages and reduced hours; terminated July 10; return of workers pending further negotiations; indefinite.	37	85
St. Catharines	Canning factory workers	Aug. 29	For increased wages and time and one-half for overtime; terminated August 29; negotiations; compromise.	230	175
London	Leather factory workers	Aug. 12	For a new agreement providing for increased wages, reduced hours, union security, etc.; terminated August 12; conciliation, provincial, and return of workers pending reference to Regional War Labour Board; indefinite.	200	200
Swastika	Planing mill workers	Aug. 29	Against dismissal of a worker for alleged incompetence; terminated August 31; conciliation, provincial; in favour of workers.	15	30
Hamilton	Steel products factory workers	Aug. 24	Protest against bringing in Dominion and Provincial police in connection with steel strike commencing July 14; (one plant resumed operations August 28 and three plants resumed operations during September) terminated October 5; return of workers; in favour of employers (five).	515	8,625

## APPENDIX—Continued

## STRIKES AND LOCKOUTS IN ONTARIO

DURING THE FISCAL YEAR ENDING MARCH 31, 1947

(From figures published in The Labour Gazette)

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in man-working days
London	Foundry workers	Aug. 27	Against dismissal of two workers for alleged union activities during working hours; terminated August 28; conciliation, provincial; in favour of workers.	21	35
Oshawa	Plastic factory workers	Aug. 20	For a new agreement providing for increased wages, reduced hours, union security, two weeks' vacations with pay, etc.; terminated October 2; conciliation, provincial; compromise.	315	10,640
Toronto	Carpenters	Sept. 16	Jurisdictional dispute as to whether carpenters or lathers should apply gyproc board, and for transportation allowance for foreman; terminated September 19; negotiations; in favour of workers.	41	123
Kitchener	Bus and street car operators	Sept. 9	Against working with bus dispatcher because of testimony given in investigation of dismissal of union officer; terminated September 12; return of workers; in favour of employer.	80	240
Township of York	Hydro electric distribution workers	Sept. 10	For a new agreement providing for increased wages, reduced hours, three weeks' vacations with pay for senior employees, etc.; terminated September 18; return of workers pending further negotiations; indefinite.	81	526
Timmins and the Lakehead	Logging and lumber camp workers	Oct. 11	For a union agreement providing for increased wages and improved camp conditions; terminated November 2; conciliation, provincial; compromise.	5,750	50,000
St. Catharines	Canning factory workers	Oct. 16	For a union agreement; terminated October 17; return of workers pending further negotiations; indefinite.	175	90
Cornwall	Textile factory workers	Oct. 2	Inter-union dispute re bargaining agency; terminated October 2; return of workers; in favour of employer.	523	375

## APPENDIX—Continued

## STRIKES AND LOCKOUTS IN ONTARIO

DURING THE FISCAL YEAR ENDING MARCH 31, 1947

(From figures published in The Labour Gazette)

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in man-working days
London	Metal factory workers	Oct. 28	Protesting appointment of new plant superintendent; terminated October 31; return of workers and replacement; in favour of employer.	17	50
Hawkesbury	Labourers	Oct. 24	For increased wages; terminated October 24; negotiations and reference to Regional War Labour Board; compromise.	50	35
Preston	Textile factory workers	Nov. 12	For increased wages; terminated November 16; return of workers pending further negotiations; compromise.	150	500
Toronto	Farm implement factory workers	Nov. 22	Protest against piece-work rates set for combine assembly in new plant; terminated November 25; return of workers; in favour of employer.	250	375
Toronto	Construction workers	Nov. 18	Inter-union dispute over working with members of another union; terminated November 18; return of workers pending further negotiations; indefinite.	70	70
Toronto	Steel erectors	Nov. 22	Inter-union dispute over working with members of another union; terminated November 22; return of workers pending further negotiations; indefinite.	7	7
Cornwall	Textile factory workers	Dec. 3	Protest against proposed operating time, pay for lunch periods, etc., in new agreement under negotiations; terminated December 4; return of workers; in favour of employer.	230	230
Chatham	Bus drivers and mechanics	Dec. 27	For increased wages, time and one-half for overtime, payment for statutory holidays and improved working conditions; terminated January 11; replacement; in favour of employer.	15	190
Kitchener	Shoe factory workers	Jan. 14	For a union agreement providing for union shop check-off, reduced hours, etc.; terminated February 12; negotiations; compromise.	36	830

## APPENDIX—Continued

## STRIKES AND LOCKOUTS IN ONTARIO

DURING THE FISCAL YEAR ENDING MARCH 31, 1947

(From figures published in The Labour Gazette)

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in man-working days
Sarnia	Foundry workers	Feb. 11	Protesting refusal of a worker to join union, terminated February 12; return of workers; in favour of workers (worker resigned).	65	75
Ottawa	Metal factory workers	Feb. 24	For a new agreement providing for increased wages, vacations with pay, union security, etc.; untermiated at close of fiscal year.	184	4,900
Toronto	Costume jewelry factory workers	Feb. 20	For a union agreement providing for increased wages, two weeks' vacations with pay, and other changes; terminated March 29; conciliation, provincial; compromise.	30	810
Hamilton and Toronto	Burglar and fire alarm protection workers	Feb. 25	For union recognition, against dismissal of 10 workers allegedly for union activity, and for increased wages; terminated March 3; conciliation, provincial, followed by negotiations; in favour of workers.	85	415
Cornwall	Metal factory workers	Mar. 14	Protest against reduction in wages, piece rates, following change in one operation; terminated March 14; negotiations; compromise.	41	10
St. Catharines	Metal factory workers	Mar. 20	For a union agreement providing for increased wages, reduced hours, pay for statutory holidays, union security, etc.; terminated March 23; conciliation, provincial; in favour of workers.	242	484
Cornwall	Carpenters	Mar. 31	For increased wages; untermiated at close of fiscal year.	50	40
TOTALS—66 strikes				38,591	1,883,482

## APPENDIX—(Continued)

## STRIKES AND LOCKOUTS IN ONTARIO

DURING THE FISCAL YEAR ENDING MARCH 31, 1947

(From figures published in The Labour Gazette)

INDUSTRIES:	Number of disputes in progress	Number of workers involved	Time loss in man-working days
<b>MANUFACTURING:</b>			
Boots and shoes (leather) . . . . .	1	36	830
Fur and leather products . . . . .	4	834	6,375
Metal products . . . . .	22	14,775	899,241
Miscellaneous wood products . . . . .	3	127	754
Non-metallic minerals, chemicals . . . . .	4	1,364	72,633
Rubber and its products . . . . .	1	10,146	800,000
Textiles, clothing . . . . .	11	4,124	48,141
Vegetable foods . . . . .	2	405	265
Vegetable products . . . . .	1	17	72
<b>CONSTRUCTION:</b>			
Buildings and structures . . . . .	9	701	3,685
LOGGING . . . . .	1	5,750	50,000
<b>SERVICE:</b>			
Business and personal . . . . .	2	95	435
<b>TRANSPORTATION AND PUBLIC UTILITIES:</b>			
Electric railways and local bus lines . . . . .	3	132	515
Electricity and gas . . . . .	1	81	526
Telegraph and telephone . . . . .	1	4	10
Totals—1947 . . . . .	66	38,591	1,883,482
" 1946 . . . . .	69	42,705	1,180,417
" 1945 . . . . .	67	32,999	263,621
" 1944 . . . . .	90	31,497	134,840
" 1943 . . . . .	98	32,582	171,178
" 1942 . . . . .	109	28,690	298,393
" 1941 . . . . .	55	9,188	36,318
" 1940 . . . . .	36	6,075	50,468
" 1939 . . . . .	54	5,795	86,997
" 1938 . . . . .	127	22,749	294,906
" 1937 . . . . .	78	13,251	148,929
" 1936 . . . . .	50	9,120	78,511
N.B.—1935 omitted because the "fiscal period 1935" was five months only—when fiscal year was changed.			
" 1934 . . . . .	94	18,198	256,311
" 1933 . . . . .	39	7,380	109,240
" 1932 . . . . .	26	2,432	50,401
" 1931 . . . . .	18	2,827	66,268
" 1930 . . . . .	21	4,315	50,513
" 1929 . . . . .	43	5,175	75,870
" 1928 . . . . .	52	5,622	59,889
" 1927 . . . . .	25	4,403	56,695
" 1926 . . . . .	17	1,839	46,402
" 1925 . . . . .	21	2,499	27,447
" 1924 . . . . .	19	3,943	95,196
" 1923 . . . . .	16	1,946	198,319
" 1922 . . . . .	23	2,712	367,893
" 1921 . . . . .	53	10,800	521,210



## APPENDIX—Continued

INTERPROVINCIAL STRIKES AND LOCKOUTS  
DURING THE FISCAL YEAR ENDING MARCH 31, 1947

(From figures published in The Labour Gazette)

Locality	Occupation	Commenced	Particulars	Number of employees involved	Time loss in man-working days
Ottawa, Hamilton, Ontario, and Edmonton, Alta., and Vancouver, B.C.	Compositors, etc.	May 30	In sympathy with strike of compositors at Winnipeg, Man., commencing November 8, 1945; untermiated at close of fiscal year.	257	17,110
Quebec, Ontario, Nova Scotia, New Brunswick, Prince Edward Island	Seamen	May 24	For an eight-hour day and three watch system; terminated June 22; government assumed control pending settlement; indefinite.	2,500	50,000
Hamilton, Sault Ste. Marie, Ont., Sydney, N.S.	Steel mill workers	July 14	For increased wages, reduced hours, union security, two weeks' vacations with pay, etc.; terminated October 3 (re-employment continued throughout the month as plants made ready for production; operations well under way at Hamilton and Sault Ste. Marie by October 16, and at Sydney by October 31); controller appointed by federal government; compromise.	11,538	700,000







UNIVERSITY OF TORONTO  
REPORT  
OF THE  
BOARD OF GOVERNORS  
FOR THE  
YEAR ENDED 30th JUNE  
1947

Printed By Order of  
THE LEGISLATIVE ASSEMBLY OF ONTARIO  
SESSIONAL PAPER No. 12, 1948



ONTARIO

TORONTO

Printed and Published by Baptist Johnston, Printer to the King's Most Excellent Majesty  
1948



UNIVERSITY OF TORONTO

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REPORT OF THE  
BOARD OF GOVERNORS

FOR THE YEAR ENDED 30TH JUNE, 1947

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*To His Honour the Lieutenant-Governor-in-Council:*

The Governors of the University of Toronto have the honour to present their forty-first annual report of the financial administration of the University, both for Queen's Park and the Ajax Divisions, together with a comprehensive review by the President of the academic work of the University and its Colleges for the Session 1946-47, and the reports of various officers and departments.

The financial report shows the funds and assets, including investments, receipts and expenditures, etc., as they stood at the close of business at 30th June, 1947, and the certificate of audit of the same by Clarkson, Gordon & Company.

The general revenue for the year amounted to \$4,878,102.29, which together with the Special Legislative Grant of \$1,100,000.00 and an amount of \$478,549.70 appropriated from a Special Grant of \$750,000.00, made a gross total of \$6,456,651.99. Expenditures under the appropriations made by the Board for salaries and maintenance (exclusive of the Ontario College of Education which is maintained by a separate vote) totalled \$6,456,651.99, being an amount equal to the revenue for the year. Additional funds totalling \$406,184.41 for research and other purposes were administered during the year.

During the year under review there has been a continued increase in operating costs and the University has used its best endeavours to minimize the effect of price increases by a careful control of expenditures.

All of which is respectfully submitted.

W. E. PHILLIPS,  
*Chairman.*

February 28th, 1948.

UNIVERSITY OF TORONTO  
QUEEN'S PARK AND AJAX DIVISIONS

FINANCIAL STATEMENTS  
YEAR ENDED 30TH JUNE 1947

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## AUDITORS' CERTIFICATE

*To the Governors of the University of Toronto:*

GENTLEMEN:

We have examined the balance sheet of the University of Toronto (Queen's Park and Ajax Divisions) as at 30th June 1947 and the statement of general endowment and income and expenditure for the year ended on that date. In connection therewith we examined or tested accounting records of the University and made a general review of the accounting methods and of the operating accounts for the year but we did not make a detailed audit of the transactions.

The supplementary grant payable by the Department of Veterans' Affairs of the Dominion Government is shown in the attached statement of income and expenditure in the amount of \$1,120,235.81, which amount has been calculated by the comptroller of the University as being the grant recoverable in accordance with the order-in-council and regulations governing such payment. The amount is, however, subject to confirmation by the Department. Subject to such confirmation being obtained and to the recoverability of the unamortized balance of the expenditures on leased premises at Ajax, we report that in our opinion the accompanying balance sheet and related statements of general endowment and income and expenditure read in conjunction with the footnotes thereto have been drawn up so as fairly to present the state of the University's affairs at 30th June 1947 and the results of its operations for the year, according to the best of our information, the explanations given to us and as shown by the books.

CLARKSON, GORDON & Co.  
*Chartered Accountants.*

Toronto, Canada, 30th January, 1948.

STATEMENT 1  
UNIVERSITY OF TORONTO  
QUEEN'S PARK AND AJAX DIVISIONS

Balance Sheet, 30th June, 1947

I. General Funds

Assets

Current and working assets:			
Cash on hand and in banks .....			\$ 2,339,387.67
Accounts receivable—			
Fees and residence dues (after deducting \$2,714.65 provision for doubtful accounts) .....	\$	104,421.92	
Due from associated and ancillary bodies .....		97,557.26	
Other .....		118,825.16	
Department of Veterans' Affairs—balance of supplementary grant .....		237,950.00	
			558,754.34
Stores and supplies—at cost .....			95,060.32
Prepaid charges, advances and deposits .....			88,792.78
			<u>1,082,667.44</u>
Total current assets .....			\$ 3,081,995.11
Deferred:			
Recoverable expenditures on altering, improving and equipping leased premises at Ajax, Ontario—			
Expenditures to 30th June, 1946 .....	\$	1,044,530.80	
Expenditure during year ended 30th June, 1947 .....		417,633.91	
			<u>1,462,164.71</u>
Less amounts written off—			
To 30th June, 1946 .....	\$	8,783.13	
During year ended 30th June, 1947 .....		678,950.00	
Nominal value assigned to certain assets transferred to Hart House—Ajax, 30th June, 1947 .....		1.00	
			<u>687,734.13</u>
			774,430.58
Annuities receivable from the Province of Ontario 5% due 1948 .....			49,674.06
Fixed:			
Site lands, buildings and properties—at book values .....	\$13,197,498.68		
Construction in progress—at cost .....		838,773.62	
Properties leased to others—at book values .....		666,842.11	
Unproductive lands—at book values .....		2,812.00	
Investment in Royal Ontario Museum .....		248,376.30	
			<u>14,954,302.71</u>
			<u>\$18,860,402.46</u>

II. Trust Funds

Assets

Trust assets:			
Cash in bank .....	\$	807,863.54	
Doninion, Provincial and Municipal bonds held against pooled trust liabilities—at market value at time of acquisition ad- justed for subsequent amortization and including accrued interest (market value at 30th June, 1947 \$10,146,833.79) schedule A .....		10,115,877.24	
Bonds, shares and mortgage allocated to specific trusts—at cost or values assigned at acquisition—schedule A .....		1,053,581.94	
Due from general funds (per contra) .....		1,115,370.58	
			<u>\$13,092,693.30</u>
Trust endowment assets:			
Bonds and shares held against trust endowment—at cost plus accrued interest—schedule A .....	\$	2,278,455.08	
Due from general funds (per contra) .....		341,603.53	
			<u>2,620,058.61</u>
Securities held for safekeeping .....			1,857,199.33
			<u>\$17,569,951.24</u>

STATEMENT 1—CONTINUED  
UNIVERSITY OF TORONTO  
QUEEN'S PARK AND AJAX DIVISIONS

**Balance Sheet, 30th June, 1947**

**I. General Funds**

**Liabilities**

Current:

Accounts payable, commitments outstanding and accrued charges .....	\$	221,840.20	
Deposits .....		27,387.61	
Due to associated and ancillary bodies .....		56,241.05	
Due to trust funds (per contra)—			
Re trust liabilities .....	\$1,115,370.58		
Re trust endowment .....	341,603.53		
		1,456,974.11	
			\$ 1,762,442.97
Unearned fees and fees paid in advance .....	\$	22,969.79	
Provision for alterations to buildings .....		198,523.45	
Unexpended appropriations and departmental credit balances carried forward .....		74,089.07	
Portion of special Provincial grant carried forward .....		271,450.30	
		567,032.61	
Total current liabilities .....			\$ 2,329,475.58

Deferred:

Annuity debentures payable—4%, 4½% and 5% due 1948–1955 .....	\$	248,457.20	
Mortgage payable—460 Avenue Road .....		4,800.00	
		253,257.20	

Reserve:

Reserve for pensions .....	\$	165,000.00	
Less recoverable from associated bodies .....		32,000.00	
		133,000.00	
General endowment .....			16,144,669.68

Represented by—

Lands, buildings and annuities receivable, less deferred liabilities and reserve .....	\$14,617,719.57		
Balance of expenditures on premises and equipment at Ajax, Ontario .....		774,430.58	
Excess of current assets over current liabilities .....		752,519.53	
		\$16,144,669.68	
			\$18,860,402.46

**II. Trusts Funds**

**Liabilities**

Trust liabilities:

Funds received for scholarships, prizes, endowments, research, etc., only the income from which may be used for the purposes designated—schedule B—			
Principal .....	\$	4,533,345.75	
Unexpended income .....		326,469.49	
Reserve for guaranteed income .....		222,409.40	
		\$ 5,082,224.64	
Funds received for scholarships, prizes, research, pension fund, new buildings, etc., which may be expended for the purposes designated—schedule C .....		8,010,468.66	
			\$13,092,693.30
Trust endowment—schedule D .....			2,620,058.61
Securities held for safekeeping .....			1,857,199.33
			\$17,569,951.24

NOTE: The above balance sheet does not incorporate the assets and liabilities of the following ancillary and associated bodies: Connaught Medical Research Laboratories, Insulin Committee, University of Toronto Press, Royal Conservatory of Music of Toronto, University of Toronto Athletic Association, Hart House, The Health Service, The Royal Ontario Museum and Ontario College of Education (except to the extent that the buildings used by certain of these bodies are included in the fixed assets shown above and securities owned by certain of these bodies held for safekeeping are included in the total amount shown above).

## STATEMENT 2

## UNIVERSITY OF TORONTO

Statement of General Endowment  
Year Ended 30th June, 1947

General endowment at 30th June, 1946.....		\$14,781,508.24
Add:		
Reduction of annuity debenture principal outstanding.....	\$ 101,451.91	
Land and buildings transferred from Royal Conservatory of Music of Toronto at 30th June, 1947—at values at which transferred—		
Land.....	\$118,000.00	
Buildings.....	290,788.40	
	<u>\$408,788.40</u>	
Less:		
Depreciation on buildings accumulated to date of transfer.....	\$ 20,000.00	
Mortgage on part of property.....	4,800.00	
	<u>\$ 24,800.00</u>	
		383,988.40
Net increase in library books in respect of acquisitions included in the expenditure for the year ended 30th June, 1947.....		41,812.51
Portion of special grant from Province of Ontario applied against expenditures to 30th June, 1947 on construction in progress..		838,773.62
		<u>\$ 1,366,026.44</u>
Less loss on sale of unproductive lands.....		2,865.00
		<u>1,363,161.44</u>
Net increase in general endowment during year.....		1,363,161.44
General endowment 30th June, 1947.....		<u>\$16,144,669.68</u>
Represented by:		
Land, buildings and annuities receivable less deferred liabilities and reserve.....	\$14,617,719.57	
Balance of expenditures on premises and equipment at Ajax, Ontario.....	774,430.58	
Excess of current assets over current liabilities.....	752,519.53	
		<u>\$16,144,669.68</u>

STATI  
UNIVERSITY  
QUEEN'S P  
Analysis of Academic  
For the Year En

	Salaries, wages, etc.
<b>UNIVERSITY COLLEGE:</b>	
Administration .....	\$ 14,831.45
Classics .....	39,629.15
English .....	66,096.48
French .....	56,484.60
German .....	29,568.97
Oriental languages .....	27,088.99
	<hr/> \$ 233,699.64 <hr/>
<b>FACULTY OF ARTS, etc.:</b>	
Dean's office .....	\$ 2,800.00
Anthropology .....	14,109.27
Art and archaeology .....	23,772.51
Astronomy .....	24,338.84
Botany .....	81,810.32
Chemistry .....	112,933.29
Geography .....	21,289.27
Geological sciences .....	52,097.59
History .....	83,008.43
Italian and Spanish .....	36,869.40
Mathematics .....	85,166.59
Military studies .....	4,806.21
Philosophy .....	45,166.88
Physics (including geo-physics) .....	140,669.14
Political economy .....	137,238.71
Psychology .....	57,714.42
Summer course in Arts .....	.....
Zoology .....	110,675.73
	<hr/> \$1,034,466.60 <hr/>
Faculty of Household Science .....	46,687.92
Faculty of Music .....	11,217.58
School of Law .....	32,049.94
School of Social Work .....	60,931.39
Institute of Child Studies .....	25,322.36
	<hr/> \$1,210,675.79 <hr/>
<b>FACULTY OF MEDICINE, etc.:</b>	
Administration .....	\$ 25,358.95
Anatomy .....	63,186.15
Art service .....	7,860.00
Bio-chemistry .....	43,938.66
Hygiene and preventive medicine .....	29,162.36
Medical jurisprudence .....	350.00
Medicine and clinical medicine .....	53,490.73
Neuro-pathology .....	13,670.53
Obstetrics and gynaecology .....	20,087.75
Ophthalmology .....	8,769.86
Oto-laryngology .....	3,867.00
Paediatrics .....	9,937.50
Pathological chemistry .....	27,276.66
Pathology and bacteriology .....	51,725.74
Pharmacy and pharmacology .....	28,661.49
Physiology .....	47,027.27
Post graduate course .....	5,414.35
Psychiatry .....	7,882.85
Radiology .....	2,350.00

## STATEMENT 3

UNIVERSITY OF TORONTO  
QUEEN'S PARK AND AJAX DIVISIONSStatement of Income and Expenditure  
For the Year Ended 30th June, 1947

	Queen's Park Division	Ajax Division	Total	Comparative 1946 total
<b>EXPENSES:</b>				
Academic departmental expenses (statement 4)—				
Salaries and wages.....	\$3,034,334.48	\$ 459,968.40	\$3,494,302.88	\$2,770,268.77
Supplies and apparatus.....	394,074.31	38,260.36	432,334.67	291,174.95
Sundry.....	72,512.32	41,890.15	114,402.47	75,495.61
Less special funds applied.....	\$3,500,921.11	\$ 540,118.91	\$4,041,040.02	\$3,136,939.33
	146,349.31	146,349.31	146,349.31	181,553.74
Scientific and special research (less applied from special funds \$29,399.44).....	\$3,354,571.80	\$ 540,118.91	\$3,894,690.71	\$2,955,385.59
Royal Ontario Museum (half of annual budget).....	76,800.00	76,800.00	76,800.00	61,998.09
Academic building expenses (statement 5).....	98,500.00	98,500.00	98,500.00	91,000.00
Written off recoverable expenditures on leased premises at Ajax.....	405,985.05	119,538.09	525,523.14	398,509.83
Provision for alterations to buildings.....	678,950.00	678,950.00	678,950.00	8,783.13
General and administrative expenses (statement 6).....	641,322.74	132,182.54	773,505.28	529,151.72
Net loss of operating departments (statement 7).....	70,488.49	70,930.63	141,419.12	489,935.87
Principal and interest on borrowings and interest allowed on uninvested trust funds.....	120,914.43	120,914.43	120,914.43	145,050.07
	\$4,768,582.51	\$1,541,720.17	\$6,310,302.68	\$4,884,146.70
<b>INCOME:</b>				
Fees.....	\$2,008,798.44	\$ 910,900.00	\$2,919,698.44	\$2,084,593.35
Interest received.....	21,842.90	21,842.90	21,842.90	158,973.30
Miscellaneous income.....	135,658.75	17,317.08	152,975.83	130,993.28
Profit from sale of investments.....				106,733.00
	\$2,166,300.09	\$ 928,217.08	\$3,094,517.17	\$2,481,292.93
Balance to be covered by Government grants.....	\$2,602,282.42	\$ 613,503.09	\$3,215,785.51	\$2,402,853.77
<b>GOVERNMENT GRANTS:</b>				
Province of Ontario—				
Statutory grant.....	\$ 517,000.00		\$ 517,000.00	\$ 517,000.00
Other grants less \$271,450.30 carried forward as a reserve.....	1,578,549.70		1,578,549.70	1,300,000.00
Dominion of Canada—				
Department of Veterans' Affairs (after deducting \$2,714.19 in 1947 being adjustment of prior year's grant).....	506,732.72	\$ 613,503.09	1,120,235.81	594,103.54
	\$2,602,282.42	\$ 613,503.09	\$3,215,785.51	\$2,411,103.54

NOTES: (1) The above statement does not include the income and expenditure of the following ancillary and associated bodies:

Connaught Medical Research Laboratories	Royal Conservatory of Music of Toronto	The Health Service
Insulin Committee	University of Toronto Athletic Association	Royal Ontario Museum
University of Toronto Press	Hart House	Ontario College of Education

- (2) The above statement does not include capital expenditures during the year totalling \$1,226,446.83 and consisting of—
- \$746,249.02 expended on construction in progress the funds for which were provided out of a special grant for building purposes received from the Province of Ontario.
  - \$417,633.91 expended on altering, improving and equipping leased premises at Ajax, Ontario, the funds for which were provided out of general funds. These have been classified on the balance sheet as recoverable expenditures.
  - \$62,563.90 expended on the purchase of certain property in the City of Toronto the funds for which were provided out of general funds.
- (3) Operating expenses shown above include net additions to the library inventory valued at \$41,812.51.

## STATEMENT 4

## UNIVERSITY OF TORONTO

## QUEEN'S PARK DIVISION

Analysis of Academic Departmental Expenses  
For the Year Ended 30th June, 1947

	Salaries, wages, etc.	Supplies and apparatus	Sundry	Total	Special fund applied (credit)	Comparative 1946 total
<b>UNIVERSITY COLLEGE:</b>						
Administration .....	\$ 14,831.45	\$ 956.48	\$ 644.37	\$ 16,432.30	\$ .....	\$ 14,616.90
Classics .....	39,629.15	143.01	.....	39,772.16	.....	35,737.77
English .....	66,096.48	143.89	.....	66,240.37	.....	40,173.85
French .....	56,484.60	278.53	.....	56,763.13	.....	41,740.70
German .....	29,568.97	54.63	.....	29,623.60	.....	20,844.51
Oriental languages .....	27,088.99	56.50	.....	27,145.49	.....	21,412.77
	<u>\$ 233,699.64</u>	<u>\$ 1,633.04</u>	<u>\$ 644.37</u>	<u>\$ 235,977.05</u>	.....	<u>\$ 174,526.50</u>
<b>FACULTY OF ARTS, etc.:</b>						
Dean's office .....	\$ 2,800.00	\$ 458.55	\$ 48.34	\$ 3,306.89	.....	\$ 1,100.16
Anthropology .....	14,109.27	13.84	.....	14,123.11	.....	8,996.00
Art and archaeology .....	23,772.51	1,100.29	26.10	24,898.90	.....	23,813.76
Astronomy .....	24,338.84	2,176.05	.....	26,514.89	.....	17,384.59
Botany .....	\$1,810.32	10,682.52	.....	92,492.84	.....	78,657.91
Chemistry .....	112,933.29	21,042.26	1,030.86	135,006.41	.....	115,759.66
Geography .....	21,289.27	588.38	145.08	22,022.73	.....	16,892.27
Geological sciences .....	52,097.59	2,567.52	450.00	55,115.11	.....	45,237.01
History .....	83,008.43	239.95	12.25	83,260.63	.....	58,010.78
Italian and Spanish .....	36,869.40	306.39	.....	37,175.79	.....	36,051.98
Mathematics .....	83,166.59	812.49	.....	83,979.08	.....	69,365.56
Military studies .....	4,806.21	73.22	.....	4,879.43	.....	4,129.33
Philosophy .....	43,166.88	299.93	.....	45,466.81	.....	31,707.14
Physics (including geo-physics) .....	140,669.14	27,982.78	956.45	169,608.37	.....	127,700.08
Political economy .....	137,238.71	1,312.21	.....	138,550.92	.....	93,267.25
Psychology .....	57,714.42	2,574.29	67.01	60,355.72	.....	47,368.96
Summer course in Arts .....	.....	.....	.....	.....	.....	29,174.33
Zoology .....	110,675.73	17,758.48	8,411.81	136,846.02	.....	103,550.00
	<u>\$1,034,466.60</u>	<u>\$ 89,989.15</u>	<u>\$11,147.90</u>	<u>\$1,135,603.65</u>	.....	<u>\$ 908,468.77</u>
Faculty of Household Science .....	46,687.92	4,370.19	.....	51,058.11	5,000.00	42,721.15
Faculty of Music .....	11,217.58	2,998.93	.....	13,316.51	.....	7,780.23
School of Law .....	32,049.94	343.78	.....	32,393.72	.....	26,509.73
School of Social Work .....	60,931.39	4,340.71	771.54	66,043.64	9,389.43	41,753.97
Institute of Child Studies .....	25,322.36	3,840.48	517.36	29,680.20	15,000.00	29,681.60
	<u>\$1,210,675.79</u>	<u>\$104,983.24</u>	<u>\$12,436.80</u>	<u>\$1,328,095.83</u>	<u>\$29,389.43</u>	<u>\$1,056,915.45</u>
<b>FACULTY OF MEDICINE, etc.:</b>						
Administration .....	\$ 25,358.95	\$ 5,294.80	\$ 657.96	\$ 31,311.71	.....	\$ 19,346.71
Anatomy .....	63,186.15	8,575.11	.....	71,761.26	.....	55,673.64
Art service .....	7,800.00	475.76	159.64	8,495.40	.....	7,809.92
Bio-chemistry .....	43,938.66	4,608.55	.....	48,547.21	.....	44,831.38
Hygiene and preventive medicine .....	29,162.36	4,032.36	.....	33,194.72	.....	28,645.50
Medical jurisprudence .....	350.00	.....	.....	350.00	.....	387.37
Medicine and clinical medicine .....	53,490.73	3,046.86	.....	56,537.59	.....	51,764.46
Neuro-pathology .....	13,670.53	850.29	.....	14,520.82	.....	.....
Obstetrics and gynaecology .....	20,087.75	1,901.96	.....	21,989.71	.....	13,963.27
Ophthalmology .....	8,769.86	332.98	.....	9,102.84	.....	4,640.63
Oto-laryngology .....	3,867.00	115.33	.....	3,982.33	.....	3,461.50
Paediatrics .....	9,937.50	1,417.80	.....	11,355.30	.....	11,918.64
Pathological chemistry .....	27,276.66	2,229.83	.....	29,506.49	.....	25,448.15
Pathology and bacteriology .....	51,725.74	4,352.14	.....	56,077.88	.....	65,062.15
Pharmacy and pharmacology .....	28,661.49	3,093.06	.....	31,754.55	.....	24,007.00
Physiology .....	47,027.27	3,587.80	.....	50,615.07	.....	42,632.84
Post graduate course .....	5,414.35	.....	.....	5,414.35	.....	2,217.10
Psychiatry .....	7,882.85	.....	.....	7,882.85	.....	7,045.94
Radiology .....	2,350.00	1,000.00	.....	3,350.00	.....	3,720.90

Forward—

## MENT 4

## OF TORONTO

## RK DIVISION

Departmental Expenses  
ended 30th June, 1947

Supplies and apparatus	Sundry	Total	Special fund applied (credit)	Comparative 1946 total
\$ 956.48	\$ 644.37	\$ 16,432.30	\$ .....	\$ 14,616.90
143.01	.....	39,772.16	.....	35,737.77
143.89	.....	66,240.37	.....	40,173.85
278.53	.....	56,763.13	.....	41,740.70
54.63	.....	29,623.60	.....	20,844.51
56.50	.....	27,145.49	.....	21,412.77
<u>\$ 1,633.04</u>	<u>\$ 644.37</u>	<u>\$ 235,977.05</u>	.....	<u>\$ 174,526.50</u>
\$ 458.55	\$ 48.34	\$ 3,306.89	.....	\$ 1,100.16
13.84	.....	14,123.11	.....	8,996.00
1,100.29	26.10	24,898.90	.....	23,815.76
2,176.05	.....	26,514.89	.....	17,384.59
10,682.52	.....	92,492.84	.....	78,657.91
21,042.26	1,030.86	135,006.41	.....	115,759.66
588.38	145.08	22,022.73	.....	16,892.27
2,567.52	450.00	55,115.11	.....	45,237.01
239.95	12.25	83,260.63	.....	58,010.78
306.39	.....	37,175.79	.....	36,051.98
812.49	.....	85,979.08	.....	69,365.56
73.22	.....	4,879.43	.....	4,129.33
299.93	.....	45,466.81	.....	31,707.14
27,982.78	956.45	169,608.37	.....	127,700.08
1,312.21	.....	138,550.92	.....	93,267.25
2,574.29	67.01	60,355.72	.....	47,368.96
.....	.....	.....	.....	29,174.33
17,758.48	8,411.81	136,846.02	.....	103,850.00
<u>\$ 89,989.15</u>	<u>\$11,147.90</u>	<u>\$1,135,603.65</u>	.....	<u>\$ 908,468.77</u>
4,370.19	.....	51,058.11	5,000.00	42,721.15
2,098.93	.....	13,316.51	.....	7,780.23
343.78	.....	32,393.72	.....	26,509.73
4,340.71	771.54	66,043.64	9,389.43	41,753.97
3,840.48	517.36	29,680.20	15,000.00	29,681.60
<u>\$104,983.24</u>	<u>\$12,436.80</u>	<u>\$1,328,095.83</u>	<u>\$29,389.43</u>	<u>\$1,056,915.45</u>
\$ 5,294.80	\$ 657.96	\$ 31,311.71	.....	\$ 19,346.71
8,575.11	.....	71,761.26	.....	55,673.64
475.76	159.64	8,495.40	.....	7,809.92
4,608.55	.....	48,547.21	.....	44,831.38
4,032.36	.....	33,194.72	.....	28,645.50
.....	.....	350.00	.....	387.37
3,046.86	.....	56,537.59	.....	51,764.46
850.29	.....	14,520.82	.....	.....
1,901.96	.....	21,989.71	.....	13,963.27
332.98	.....	9,102.84	.....	4,640.63
115.33	.....	3,982.33	.....	3,461.50
1,417.80	.....	11,355.30	.....	11,918.64
2,229.83	.....	29,506.49	.....	25,448.15
4,352.14	.....	56,077.88	.....	65,062.15
3,093.06	.....	31,754.55	.....	24,007.00
3,587.80	.....	50,615.07	.....	42,632.84
.....	.....	5,414.35	.....	2,217.10
.....	.....	7,882.85	.....	7,045.94
1,000.00	.....	3,350.00	.....	3,720.90





STATEMENT 4—PAGE 2

UNIVERSITY OF TORONTO

QUEEN'S PARK DIVISION

Analysis of Academic Departmental Expenses  
For the Year Ended 30th June, 1947

Forward

	Salaries, wages, etc.	Supplies and apparatus	Sundry	Total	Special fund applied (credit)	Comparative 1946 total	
<b>FACULTY OF MEDICINE, etc. (Continued):</b>							
Special lectures.....	\$ 700.00	\$ .....	\$ .....	\$ 700.00	\$ .....	\$ 620.72	
Summer session.....	.....	.....	.....	.....	.....	3,824.97	
Surgery and clinical surgery.....	35,911.09	1,171.23	579.57	37,661.89	.....	41,340.16	
Therapeutics.....	7,660.20	582.08	.....	8,242.28	.....	6,708.76	
Special funds not allocated to departments.....	.....	.....	.....	.....	45,753.13	.....	
	<u>\$ 494,289.14</u>	<u>\$ 46,667.94</u>	<u>\$ 1,397.17</u>	<u>\$ 542,354.25</u>	<u>\$ 45,753.13</u>	<u>\$ 465,071.71</u>	
<b>School of Hygiene:</b>							
Administration.....	10,470.46	1,451.80	.....	11,922.26	.....	} 47,828.05	
Epidemiology and biometrics.....	12,720.98	262.80	.....	12,983.78	.....		
Physiological hygiene.....	8,888.40	3,173.45	.....	12,061.85	.....		
Chemistry in relation to Hygiene.....	5,278.32	455.38	.....	5,733.70	.....		
Public Health Administration.....	5,071.87	67.36	.....	5,139.23	.....		
Public Health Nutrition.....	8,449.04	180.21	.....	8,629.25	.....		
Parasitology.....	2,900.00	984.27	.....	3,884.27	.....		
Virus infections.....	2,974.93	97.50	.....	3,072.43	.....		
Diploma course.....	3,225.00	.....	.....	3,225.00	.....		
Special funds not allocated to departments.....	.....	.....	.....	.....	39,746.45		.....
	<u>\$ 554,268.14</u>	<u>\$ 53,340.71</u>	<u>\$ 1,397.17</u>	<u>\$ 609,006.02</u>	<u>\$ 85,499.58</u>		<u>\$ 512,899.76</u>
<b>FACULTY OF APPLIED SCIENCE AND ENGINEERING:</b>							
Dean's office.....	\$ 8,280.00	\$ 1,500.00	\$ .....	\$ 9,780.00	\$ .....	\$ 8,340.82	
Secretary's office.....	15,250.78	5,791.19	.....	21,041.97	.....	19,559.84	
Applied physics.....	23,448.94	2,624.36	.....	26,073.30	.....	24,515.97	
Architecture.....	40,817.28	3,786.85	142.73	44,246.86	.....	26,561.48	
Chemical Engineering and Applied Chemistry.....	57,273.43	14,142.80	.....	71,416.23	.....	74,197.35	
Civil Engineering—Municipal and Structural.....	47,544.50	1,716.54	.....	49,261.04	.....	39,255.49	
—Survey and Geodesy.....	25,537.40	941.63	4,366.76	30,845.79	.....	29,935.98	
Electrical engineering.....	58,206.39	12,739.06	.....	70,945.45	.....	68,833.01	
Engineering drawing.....	25,405.39	430.02	.....	25,835.41	.....	40,030.95	
Mechanical engineering.....	82,945.47	14,286.66	.....	97,232.13	.....	65,496.69	
Metallurgical engineering.....	29,278.76	5,365.32	.....	34,644.08	.....	32,812.86	
Mining engineering.....	26,660.65	2,347.23	.....	29,007.88	.....	30,459.99	
Research, fellowship, scholarships, etc.....	.....	.....	2,013.59	2,013.59	.....	.....	
Special lectures.....	1,800.00	.....	.....	1,800.00	.....	1,443.88	
Summer course in applied science.....	.....	.....	.....	.....	.....	10,770.17	
Special funds not allocated to departments.....	.....	.....	.....	.....	2,013.59	.....	
Portion of expenses charged to Ajax division.....	67,900.00 Cr.	1,000.00 Cr.	.....	68,900.00 Cr.	.....	.....	
	<u>\$ 374,048.99</u>	<u>\$ 64,671.66</u>	<u>\$ 6,523.08</u>	<u>\$ 445,243.73</u>	<u>\$ 2,013.59</u>	<u>\$ 472,214.48</u>	
<b>FACULTY OF DENTISTRY.....</b>							
	\$ 163,820.78	\$ 49,101.03	\$ 583.77	\$ 213,505.58	\$ .....	\$ 161,942.02	
<b>FACULTY OF FORESTRY.....</b>							
	\$ 38,508.50	\$ 4,263.29	\$ 9,622.15	\$ 52,393.94	.....	\$ 41,936.80	
<b>SCHOOL OF NURSING.....</b>							
	\$ 57,654.58	\$ 38,895.58	\$ 3,180.68	\$ 99,730.84	9,689.97	\$ 93,001.56	
<b>SCHOOL OF PHYSICAL AND HEALTH EDUCATION.....</b>							
	\$ 33,249.68	\$ 3,054.58	\$ 2,814.30	\$ 39,118.56	.....	\$ 26,164.37	
<b>SCHOOL OF CHINESE STUDIES.....</b>							
	\$ 9,725.41	\$ 412.08	\$ .....	\$ 10,137.49	.....	\$ 9,953.16	
<b>SCHOOL OF GRADUATE STUDIES.....</b>							
	\$ 5,582.75	\$ 1,092.20	\$ 50.00	\$ 6,724.95	.....	\$ 5,885.28	
<b>INSTITUTE OF INDUSTRIAL RELATIONS.....</b>							
	\$ 6,301.57	\$ 2,911.30	\$ 10,845.44	\$ 20,058.31	19,756.74	\$ 5,819.15	
<b>UNIVERSITY EXTENSION AND PUBLICITY.....</b>							
	\$ 179,574.40	\$ 9,494.83	\$ 7,385.64	\$ 196,454.87	.....	\$ 194,480.24	
<b>LIBRARY.....</b>							
	\$ 101,289.77	\$ 55,350.00	\$ 975.71	\$ 157,615.48	.....	\$ 137,861.67	
<b>ATHLETICS AND PHYSICAL TRAINING.....</b>							
	\$ 47,195.24	\$ 2,081.68	\$ 1,008.11	\$ 50,285.03	.....	\$ 42,315.31	
<b>SENIOR SCHOOL OF MUSIC.....</b>							
	\$ 18,739.24	\$ 2,789.09	\$ 15,045.10	\$ 36,573.43	.....	.....	
<b>TOTAL.....</b>	<u>\$3,034,334.48</u>	<u>\$394,074.31</u>	<u>\$72,512.32</u>	<u>\$3,500,921.11</u>	<u>\$146,349.31</u>	<u>\$2,935,913.75</u>	

NOTE: Salaries and wages shown above include the University's contribution to the pension fund applicable to academic employees.

## STATEMENT 4A

## UNIVERSITY OF TORONTO

## AJAX DIVISION

**Analysis of Academic Departmental Expenses  
For the Year Ended 30th June, 1947**

Departments	Salaries	Supplies	Sundry	Total	Comparative 1946 total
Applied Physics .....	\$ 22,450.00	\$ 623.51	.....	\$ 23,073.51	.....
Architecture .....	10,187.50	327.70	.....	10,515.20	\$ 6,473.12
Chemical Engineering .....	90,785.43	27,045.95	.....	117,831.38	72,934.70
Civil Engineering M. & S....	49,561.07	1,391.97	.....	50,953.04	13,700.00
Civil Engineering S. & G....	23,626.96	330.41	1,135.61	24,432.16	4,191.82
Electrical Engineering .....	38,155.02	1,609.28	.....	39,764.30	6,333.31
Engineering Drawing .....	89,698.70	1,588.91	.....	91,287.61	39,925.30
Mechanical Engineering .....	27,295.00	175.10	.....	27,470.10	1,700.00
Metallurgical Engineering...	1,200.00	.....	.....	1,200.00	.....
Mining Engineering .....	4,000.00	.....	.....	4,000.00	.....
Geological Sciences .....	6,850.00	214.32	.....	7,064.32	1,950.00
Physics .....	15,604.35	1,295.78	.....	16,900.13	4,088.00
Chemistry .....	3,760.00	.....	.....	3,760.00	.....
Political Economy .....	7,225.50	.....	.....	7,225.50	800.00
Mathematics .....	37,621.50	.....	.....	37,621.50	13,440.00
Special Lectures .....	650.00	.....	.....	650.00	300.00
Faculty Office .....	31,297.37	4,318.25	564.00	36,179.62	12,513.43
Scholarships .....	.....	.....	395.00	395.00	.....
	<u>\$459,968.40</u>	<u>\$38,260.36</u>	<u>\$ 2,094.61</u>	<u>\$500,323.37</u>	<u>\$178,349.68</u>
Superintendent's charges:					
Transportation and superintendent's expenses charged to Academic Department .....			39,795.54	39,795.54	22,675.90
			<u>\$41,890.15</u>	<u>\$540,118.91</u>	<u>\$201,025.58</u>



## STATEMENT 5

UNIVERSITY OF TORONTO  
QUEEN'S PARK DIVISIONAnalysis of Building Expenses and Superintendent's Expenses  
For the Year Ended 30th June, 1947

	Salaries and wages	Materials and supplies	Miscellaneous	Charged to outside organizations and services (Cr.)	Less expenses not allocated to specific buildings (transferred to general administra- tion statement 6)	Net expense allocated to specific buildings	Comparative 1946 net expense allocated to specific buildings
Alterations and equipment.....	\$ 75,420.71	\$ 75,420.71	\$.....	\$.....	\$ 42,176.35	\$ 33,244.36	\$ 21,780.90
Central power plant.....	33,563.20	138,497.10	\$46,926.88	\$ 83,058.20	718.95	135,210.03	120,059.66
Gas, city current and occasional fuel.....	.....	44,633.99	.....	501.42	.....	44,132.57	42,329.00
Water.....	.....	19,154.66	.....	10,972.70	.....	8,181.96	10,481.47
Cleaning and janitors.....	204,155.08	.....	.....	15,417.04	.....	188,738.04	147,815.37
Repairs and renewals.....	103,425.80	.....	.....	.....	3,015.98	100,409.82	77,367.92
Workmen's compensation.....	.....	.....	3,015.98	.....	.....	3,015.98	.....
Telephone.....	9,277.07	.....	14,507.73	.....	22,645.62	1,139.18	917.03
Grounds.....	26,207.26	.....	.....	.....	26,207.26	.....	.....
Protective service.....	29,922.60	602.60	.....	.....	30,525.20	.....	.....
Post office.....	5,251.87	.....	.....	1,917.34	3,334.53	.....	.....
Stores.....	7,390.31	9,233.22	.....	8,279.00	8,344.53	.....	.....
Administration.....	64,796.78	3,534.70	59.55	.....	68,391.03	.....	.....
Sundries.....	1,753.90	.....	2,578.36	.....	1,753.90	2,578.36	.....
	<u>\$485,743.87</u>	<u>\$291,076.98</u>	<u>\$67,088.50</u>	<u>\$120,145.70</u>	<u>\$207,113.35</u>	<u>\$516,650.30</u>	<u>\$420,751.35</u>

Allocated to specific buildings as follows:

Academic buildings (statement 3).....	\$405,985.05	\$336,988.77
Administrative buildings (statement 6).....	30,351.90	24,102.89
Buildings used by operating departments (statement 7).....	80,313.35	59,659.69
	<u>\$516,650.30</u>	<u>\$420,751.35</u>

## STATEMENT 5A

## UNIVERSITY OF TORONTO

## AJAX DIVISION

**Analysis of Academic Building Expenses  
For the Year Ended 30th June, 1947**

	1947	Comparative 1946 expenses
Steam . . . . .	\$ 45,181.36	\$32,972.99
Electricity . . . . .	3,877.24	1,587.13
Water . . . . .	1,686.57	484.33
Sewage . . . . .	536.48	270.92
Garbage . . . . .	718.58	519.13
Fire protection . . . . .	2,674.46	872.42
Protective services . . . . .	9,587.37	2,432.64
Grounds . . . . .	9,325.27	3,299.44
Cleaning . . . . .	32,775.24	12,410.10
Repairs and renewals . . . . .	13,166.44	6,671.96
Transportation . . . . .	9.08	. . . . .
	<u>\$119,538.09</u>	<u>\$61,521.06</u>
	<u>\$119,538.09</u>	<u>\$61,521.06</u>



STATEMENT 6

UNIVERSITY OF TORONTO  
QUEEN'S PARK DIVISION

Analysis of General and Administrative Expenses  
For the Year Ended 30th June, 1947

	Salaries and wages	Supplies	Miscel- laneous	Total	Comparative 1946 total
President's office	\$ 24,039.51	\$ 1,418.20	\$ 1,418.20	\$ 26,522.12	\$ 21,096.72
Comptroller's office	12,142.00	394.04	1,332.50	13,868.54	5,828.34
Bursar's office	12,099.28	735.97	1,643.94	14,479.19	73,467.00
Chief accountant's office	70,707.41	9,034.86	2,268.42	82,010.69	
Registrar's office	66,469.53	11,683.14	6,000.00	84,152.67	62,736.17
Audit			7,750.00	7,750.00	3,000.00
Insurance			24,176.35	24,176.35	9,547.39
Legal			6,340.13	6,340.13	2,484.86
Taxes			7,500.00	7,500.00	7,215.80
Unemployment insurance			5,183.89	5,183.89	4,329.33
Convocation expenses (including reception)			1,907.62	1,907.62	1,596.14
Examinations	17,792.20	20,957.81		38,750.01	28,315.38
Hart House—warden's salary	5,430.40			5,430.40	5,000.00
Pensions and retiring allowances (unallocated portion)			13,228.80	13,228.80	49,469.66
Employees' group insurance			10,109.29	10,109.29	
Vacation pay (non-permanent employees)			6,034.24	6,034.24	4,541.93
Wartime bonus (non-academic employees)					24,142.99
Building expenses applicable to administrative buildings					24,102.89
Advisory board	12,508.55	696.23	30,351.90	43,556.68	10,388.40
Bursaries			13,400.00	13,400.00	11,760.00
Free tuition			11,590.32	11,590.32	
Contingencies			10,000.00	10,000.00	8,204.07
Publications and societies			6,623.28	6,623.28	4,297.56
Receptions to societies and university visitors			2,606.08	2,606.08	3,664.31
Russian studies			959.91	959.91	348.64
Travelling expenses			7,467.98	7,467.98	3,168.77
Purchases from war assets		18,040.00		18,040.00	6,399.89
Received from OVC, OAC and OCE for degrees, etc.					6,871.00
Equipment inventory control	3,367.98	98.62		3,466.60	
University development			400.00	400.00	
Provision for uncollectible fees of prior years			2,288.13	2,288.13	
	<u>\$224,556.86</u>	<u>\$62,705.08</u>	<u>\$182,125.49</u>	<u>\$469,387.43</u>	<u>\$368,235.24</u>
Building and superintendent's expenses not allocated to specific buildings (from statement 5):					
Telephone			\$ 22,645.62		\$ 16,215.30
Central power plant			718.95		
Grounds			26,207.26		21,962.89
Protective service			30,525.20		23,209.31
Stores			8,344.53		5,250.00
Sundries			1,753.90		
Administration			68,391.03		45,771.72
Post Office			3,334.53		4,062.24
Workmen's compensation			3,015.98		3,176.68
Charges and provisions for deferred maintenance			42,176.35	\$207,113.35	
Total general and administrative expenses				\$676,500.78	\$487,883.38
Less charged to operating departments				35,178.04	21,352.73
Balance transferred to statement of income and expenditure (statement 3)				<u>\$641,322.74</u>	<u>\$466,530.65</u>



## STATEMENT 6A

UNIVERSITY OF TORONTO  
AJAX DIVISIONAnalysis of General and Administrative Expenses  
For the Year Ended 30th June, 1947

	1947	Comparative 1946 expenses
Director's office .....	\$ 10,248.45	\$ 6,429.27
Bursar's office .....	30,485.99	14,860.34
Superintendent's office and stores .....	37,591.07	19,557.02
Circulating library .....	2,720.27	1,471.37
Advisory bureau for ex-Service students.....	2,750.00	.....
Rental of Ajax property .....	50,000.00	25,000.00
Unemployment insurance .....	4,348.72	2,736.94
Workmen's compensation .....	2,333.85	970.63
Pensions and retiring allowances .....	2,303.42	713.68
Provision for uncollectible fees of prior years.....	235.71	.....
Insurance (except vehicles) .....	3,097.42	1,199.14
Audit and legal fees .....	2,204.21	2,114.71
Publicity and public relations .....	120.12	.....
Sundry .....		1.00
Administration buildings—cleaning .....		3,284.47
General contingencies.....		200.00
Administration buildings—repairs and renewals .....		7,045.57
Vacation pay .....	4,220.08	141.83
	<u>\$152,659.31</u>	<u>\$85,725.97</u>
Transportation and superintendent's expenses charged to General and Administrative.....	45,068.87	
	<u>\$197,728.18</u>	
Less:		
Charged to outside organizations.....	\$ 8,880.32	412.77
Charged to superintendent's expenses.....		21,504.55
Charged to operating department (Statement 7A) .....	56,665.32	40,403.43
	<u>65,545.64</u>	<u>40,403.43</u>
Balance of expenses transferred to (Statement 3).....	<u>\$132,182.54</u>	<u>\$23,405.22</u>

Statement of Profit and Loss  
For the Year End

	Revenue	Direct charges	
Student residences . . . . .	\$230,051.75	\$133,728.65	total
Employees' residences . . . . .	10,583.42	8,703.90	rect
Tenant buildings . . . . .	7,030.85	2,866.91	ense
Laundry . . . . .	36,827.84	30,896.70	0.00
	<u>\$284,493.86</u>	<u>\$176,196.16</u>	0.00
Health Service . . . . .	.....	.....	...
Hart House . . . . .	* 27,191.64	.....	9.48
Athletic Association . . . . .	* 1,453.85	.....	2.47
	<u>\$313,139.35</u>	<u>\$176,196.16</u>	1.88
			<u>8.59</u>

\*Represents university's portion of profit for year to be app

3.38  
1.95  
3.84  
3.59  
ation

## STATEMENT 7

UNIVERSITY OF TORONTO  
QUEEN'S PARK DIVISIONStatement of Profit or Loss of Operating Departments  
For the Year Ended 30th June, 1947

	Direct expenses				Building expenses	Adminis- tration expenses	Total expenses	Total income	Portion of income carried forward	Loss or profit (Cr.) from operations	Comparative 1946 loss or profit (Cr.) from operations
	Salaries and wages	Materials and supplies	Miscellaneous	Total direct expenses							
Men's residences:											
University residences .....	\$ 500.00	\$ .....	\$ .....	\$ 500.00	\$30,695.68	\$ 5,101.73	\$ 36,297.41	\$ 21,702.10	.....	\$14,595.31	\$ 4,703.44
University College residences .....	110.00	.....	.....	110.00	6,607.65	1,098.60	7,816.25	14,337.95	.....	6,521.70 Cr.	4,701.32
78 Queen's Park .....	.....	.....	.....	.....	10,810.21	1,767.90	12,578.11	.....	.....	12,578.11	2,986.19
Women's residences:											
Whitney Hall .....	33,607.42	49,722.06	.....	83,329.48	18,286.12	16,618.20	118,233.80	108,918.95	*5,080.78	14,395.63	30,641.93
Hutton House .....	1,572.69	1,266.16	13.62	2,852.47	3,476.05	1,034.96	7,363.48	5,691.22	.....	1,672.26	2,322.29 Cr.
5 Willcocks Street .....	950.55	462.44	28.89	1,441.88	2,482.82	641.84	4,566.54	3,161.79	.....	1,404.75	3,161.98 Cr.
146 St. George Street .....	927.67	640.36	20.56	1,588.59	2,111.26	605.07	4,304.92	2,877.49	.....	1,427.43	2,928.59 Cr.
Women's Union .....	1,526.42	1,591.20	81.76	3,199.38	5,843.56	1,478.88	10,521.82	6,352.00	.....	4,169.82	4,987.72 Cr.
Photographic Service .....	13,505.72	4,842.23	.....	18,347.95	.....	3,000.62	21,348.57	11,506.78	.....	9,841.79	24,318.76
Hart House Theatre .....	12,141.19	5,066.51	6,213.14	23,420.84	.....	3,830.24	27,251.08	10,325.99	.....	16,925.09	.....
TOTAL .....	<u>\$64,841.66</u>	<u>\$63,590.96</u>	<u>\$6,357.97</u>	<u>\$134,790.59</u>	<u>\$0,313.35</u>	<u>\$35,178.04</u>	<u>\$250,281.98</u>	<u>\$184,874.27</u>	<u>\$5,080.78</u>	<u>\$70,488.49</u>	<u>\$53,951.06</u>

\*Operating profit of women's residences before deducting administration expenses has been carried forward as a reserve against future expenditures.

STATEMENT 7A  
UNIVERSITY OF TORONTO  
AJAX DIVISION

Statement of Profit and Loss of Operating Departments  
For the Year Ended 30th June, 1947

	Revenue	Direct charges	Profit before indirect charges	Superintendent charges	Administrative overhead (Statement 6A)	Net loss	Comparative 1946 net loss
Student residences .....	\$230,051.75	\$133,728.65	\$ 96,323.10	\$ 83,697.43	\$45,889.15	\$33,263.48	\$13,484.22
Employees' residences .....	10,583.42	8,703.90	1,879.52	7,369.38	4,065.72	9,555.58	4,033.63
Tenant buildings .....	7,030.85	2,866.91	4,163.94	4,784.40	2,763.17	3,383.63	243.05
Laundry .....	36,827.84	30,896.70	5,931.14	5,376.16	3,947.28	3,392.30	8,293.39
	<u>\$284,493.86</u>	<u>\$176,196.16</u>	<u>\$108,297.70</u>	<u>\$101,227.37</u>	<u>\$56,665.32</u>	<u>\$49,594.99</u>	<u>\$26,054.29</u>
Health Service .....	.....	.....	.....	5,883.72	.....	5,883.72	8,553.11
Hart House .....	* 27,191.64	.....	27,191.64	36,119.09	.....	8,927.45	44,409.61
Athletic Association .....	* 1,453.85	.....	1,453.85	7,978.32	.....	6,524.47	12,079.00
	<u>\$313,139.35</u>	<u>\$176,196.16</u>	<u>\$136,943.19</u>	<u>\$151,208.50</u>	<u>\$56,665.32</u>	<u>\$70,930.63</u>	<u>\$91,096.01</u>

\*Represents university's portion of profit for year to be applied against superintendent's charges.

OF TORONTO  
VISION

of Operating Departments  
and 30th June, 1947

Profit before indirect charges	Superintendent charges	Administrative overhead (Statement 6A)	Net loss	Comparative 1946 net loss
\$ 96,323.10	\$ 83,697.43	\$45,889.15	\$33,263.48	\$13,484.22
1,879.52	7,369.38	4,065.72	9,555.58	4,033.63
4,163.94	4,784.40	2,763.17	3,383.63	243.05
5,931.14	5,376.16	3,947.28	3,392.30	8,293.39
<u>\$108,297.70</u>	<u>\$101,227.37</u>	<u>\$56,665.32</u>	<u>\$49,594.99</u>	<u>\$26,054.29</u>
.....	5,883.72	.....	5,883.72	8,553.11
27,191.64	36,119.09	.....	8,927.45	44,409.61
1,453.85	7,978.32	.....	6,524.47	12,079.00
<u>\$136,943.19</u>	<u>\$151,208.50</u>	<u>\$56,665.32</u>	<u>\$70,930.63</u>	<u>\$91,096.01</u>

ded against superintendent's charges.

**Funds Received for Scholarships, Pri  
Only the Income From Which May be  
30th Jun**

Trust princip

Name of Trust	Balance 30th June 1946	Bene- factions and other additions	Transfer income etc.
Harvey Aggett Memorial (Applied Science)	\$ 1,500.00	\$ . . . . .	\$ . . . . .
Aikins Scholarship (English Literature)	5,000.00		
Alexander Lectureship (English Literature)	13,785.23		
All Souls' Historical Essay Prize	1,747.06		
Allen-McKellar Memorial (French)	1,000.00		
A. A. A. S. Scholarship (Physics)	2,350.00		
Ardagh Prize (Chemical Engineering)	500.00	500.00	
George H. Armstrong (History)	2,250.00		
Balfour Lectureship (Surgery)	4,130.00		
Jean Balmer (Science)	1,014.00		
Bankers' Scholarship (Political Science)	1,200.00		
Banting Research Foundation	752,740.13		
Banting Research Foundation (Research)	39,489.44		3,000.00
Margaret W. Baptie (Medicine and Science)	4,000.00		
Alma Anderson Bastedo Memorial Prize (English)	500.00		
George Bean Memorial Scholarship (U.T.S.)	1,000.00		
T. H. Bickle Bursary	1,000.00		
Blake Scholarships (Matriculation)	20,000.00		
Blake Scholarships (Science and Moderns)	3,750.00		
Booth Scholarship (University Schools)	1,000.00		
Sara Borsook Bursary	1,500.00	500.00	
H. K. Box—Medals—Dentistry	1,000.00		
Reg. N. Boxer, U.T.S. Junior School	1,000.00		
Reg. N. Boxer, U.T.S. Senior School	1,000.00		
George Sidney Brett Memorial	15,239.09	3,260.00	
Rabbi Brickner (Social Science)	1,000.00		
Margaret A. Brock (Matriculation, English and History)	1,000.00		
George Brown Memorial (Medical Science)	9,929.50		
George Brown (Modern Languages)	1,054.82		
Graham Campbell Psychology Fund	3,000.00		
Walter F. Chappell Prize (Medicine or Surgery)	500.00		
Chisholm Memorial Fund		5,000.00	
G. R. R. Cockburn—Matriculation	1,000.00		
Cody Medals in Medicine	1,300.00		
Henry John Cody (Matriculation)	2,500.00		
Florence Cody (Matriculation)	2,500.00		
Maurice Cody Memorial (Modern History)	3,000.00		
Maurice Cody Memorial Prize (Modern History)	1,050.00		
Maurice Cody Memorial (University Schools)	240.00		
Arthur Cohen (English Languages and Literature)	5,000.00		
The Arthur Cohen Scholarship U.C.		5,000.00	
The Jacob Cohen Memorial Scholarship U.C.		5,000.00	
The Alfreda Cole Memorial Prize		72.09	
Coleman Medal (Geology)	1,000.00		
John Copp Memorial Fund (Medicine)	5,025.00		
Allen Rudyard Crawford (University Schools)	500.00		
Henry Job Crawford (University Schools)	1,000.00		
R. O. Daly Prize (French)	1,700.00		
R. O. Daly—Men's Residence, U.C.	1,340.83		
Gertrude Davis Exchange Fellowship		10,150.00	
Alfred T. DeLury (Mathematics)	3,514.06		
Dentistry Class of 1923 Scholarship	3,500.00		
Dentist Supply Co. Fellowship	2,500.00		
Marion E. Dickenson (Household Science)	4,000.00		
Dunlap Bequest (Medical Research)	90,830.85		

Forward

## SCHEDULE A

## UNIVERSITY OF TORONTO

**Summary of Trust Investments**  
(excluding investments held for safekeeping)

30th June, 1947

Bonds held against pooled trust liabilities—including accrued interest:

Issued by	Par value	Book value (see note)	Market value 30th June, 1947	Accrued interest
Dominion of Canada (including guaranteed by the Dominion of Canada).....	\$6,668,300.00	\$ 6,992,242.28	\$ 7,016,426.57	\$48,169.12
Province of Ontario (including guaranteed by the Province of Ontario).....	2,323,500.00	2,482,845.32	2,488,031.25	24,852.52
Other provinces.....	265,000.00	276,345.43	277,755.00	2,591.70
Cities (including guaranteed by cities).....	198,000.00	214,894.00	214,830.00	2,609.94
Towns.....	12,589.80	15,068.21	14,868.87	142.89
Counties.....	20,725.40	22,782.44	23,212.45	681.35
Townships.....	1,038.90	1,041.50	1,044.09	30.03
Other.....	31,300.00	31,420.00	31,427.50	160.51
		<u>\$10,086,639.18</u>	<u>\$10,067,595.73</u>	<u>\$79,238.06</u>
Accrued interest.....		79,238.06	79,238.06	
		<u>\$10,115,877.24</u>	<u>\$10,146,833.79</u>	

NOTE: Book value is amortized cost. In the case of each security taken into the pool at its inception 30th June, 1946, the cost was equal to the market value at that date.

Securities allocated to specific trusts:

BONDS—	Par value	Amortized cost or value assigned at acquisition
Issued by		
Dominion of Canada (including guaranteed by the Dominion of Canada).....	\$688,500.00	\$ 692,076.30
Province of Ontario (including guaranteed by the Province of Ontario).....	185,886.00	177,113.23
Other provinces.....	11,000.00	11,191.40
Cities.....	64,000.00	64,109.38
Towns.....	4,000.00	3,994.43
Other.....	3,900.00	2,901.00
		<u>\$ 951,385.74</u>
SHARES—		
Various preferred and common shares.....		99,996.20
MORTGAGE.....		2,200.00
		<u>\$1,053,581.94</u>

Securities held against trust endowments:

BONDS—	Par value	Amortized cost or value assigned at acquisition	Accrued interest
Issued by			
Dominion of Canada (including guaranteed by the Dominion of Canada).....	\$1,661,350.00	\$1,707,238.77	\$10,155.61
Province of Ontario (including guaranteed by the Province of Ontario).....	465,000.00	468,758.34	5,292.81
Other provinces.....	27,000.00	26,914.95	173.73
Cities.....	15,968.16	17,863.17	235.67
Towns.....	41,161.09	41,434.57	386.46
		<u>\$2,262,209.80</u>	<u>\$16,244.28</u>
Accrued interest.....		16,244.28	
		<u>\$2,278,454.08</u>	
SHARES—			
Mississippi Land Co.....			1.00
		<u>\$2,278,455.08</u>	





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TORONTO

s, Endowments, Research, etc.,  
 used for the Purposes Designated  
 1947

Disbursements	Trust income					Reserve for guaranteed income 30th June 1947
	Balance 30th June 1947	Unexpended income 30th June 1946	Income earned during year	Expended	Unexpended income 30th June 1947	
	\$ 1,500.00	\$ 122.74	\$ 70.85	\$ 75.00	\$ 118.59	\$ 33.39
	5,000.00	410.81	264.78	250.00	425.59	236.38
	13,785.23	3,336.77	725.27	519.50	3,542.54	1,947.25
	1,747.06	1,656.74	121.50	50.00	1,728.24	123.65
	1,000.00	52.89	36.93	35.00	54.82	43.52
	2,350.00		149.25	149.25		90.54
	1,000.00	53.70	51.32	50.00	55.02	23.55
	2,250.00	317.69	105.54		423.23	302.08
	4,130.00	777.54	350.77	200.00	928.31	189.14
	1,014.00	219.37	36.34	50.00	205.71	52.50
	1,200.00	253.92	75.81		329.73	56.02
1,000.00	751,740.13					
	42,489.44					
	4,000.00	89.11	205.88	200.00	94.99	178.84
	500.00	100.97	29.07	25.00	105.04	76.20
	1,000.00	19.81	31.52	51.33		44.61
	1,000.00	193.32	35.07	30.00	198.39	44.04
	20,000.00	11,349.22	1,200.00	1,300.00	11,249.22	1,207.84
	3,750.00		240.00	240.00		144.49
	1,000.00	24.73	46.25	70.98		.70
	2,000.00		52.49		52.49	57.79
	1,000.00	47.30	31.83	39.06	40.07	43.28
	1,000.00	15.46	37.76	53.22		80.15
	1,000.00	15.46	37.76	53.22		80.15
	18,499.09		429.25		429.25	652.31
	1,000.00	84.11	50.00	50.00	84.11	41.77
	1,000.00	28.44	80.00	80.00	28.44	
	9,929.50	2,659.81	396.25		3,056.06	572.98
	1,054.82	73.52	60.00	60.00	73.52	43.47
	3,000.00	601.14	1,151.19	1,020.67	731.66	130.13
	500.00	10.09	50.00		60.09	19.66
	5,000.00		59.39		59.39	
	1,000.00	50.00	29.03	100.00	20.97	Dr. 40.46
	1,300.00	249.83	52.50		302.33	
	2,500.00	Dr. 45.45	199.43	150.00	3.98	
	2,500.00	Dr. 45.44	199.42	150.00	3.98	
	3,000.00	183.39	103.31	150.00	136.70	
	1,050.00	327.78	43.50	40.00	331.28	
	240.00	Dr. 25.88	45.88	20.00		
	5,000.00	204.61	162.63	150.00	217.24	236.83
	5,000.00		75.00		75.00	
	5,000.00		75.00		75.00	
	72.09					
	1,000.00	109.39	35.81	31.93	113.27	23.08
	5,025.00	700.70	181.97		882.67	261.10
	500.00	35.20	27.65	25.00	37.85	82.14
	1,000.00	161.75	34.68	46.93	149.50	49.43
	1,700.00	66.19	53.99	50.00	70.18	86.33
	1,340.83		41.19		41.19	57.03
	10,150.00		20.99		20.99	
	3,514.06	52.87	121.00	125.00	48.87	151.33
	3,500.00		100.62	90.00	10.62	134.85
2,500.00						
	4,000.00	2,380.86	190.73		2,571.59	272.32
	90,830.85	25,353.69	4,203.40	3,500.00	26,057.09	5,606.40

## SCHEDULE

## UNIVERSITY

Funds Received for Scholarships,  
Only the Income From Which Ma  
30th J

Name of Trust	Trust prin		
	Balance 30th June 1946	Bene- factions and other additions	Trans incon etc.
Forward			
Geo. H. Locke Memorial (Library School)	\$ 3,633.98	\$	\$
Lillian Lucas Scholarship (English)	5,000.00		
Pearson Kirkman Marfleet Lectureship	5,000.00		
Meds 2T4 Scholarship Fund	6,155.74	275.00	
Charles Mickle Fellowship (Medicine)	25,000.00		
Ellen Mickle Fellowship (Medicine)	25,000.00		
J. Vera Moberly Lectureship		1,500.00	
Moss Scholarship (Classics)	2,000.00		
Mount Sinai Masonic Lodge Silver Jubilee Loan Fund	2,118.00		
Mary Mulock (Classics)	2,000.00		
William Mulock (Classics and Mathematics)	2,000.00		
W. P. Mustard Scholarship (Classics)	3,003.75		
McCaul Medal (Classics)	500.00		
McCaul Scholarship (Classics)	2,500.00		
McCharles, Aeneas, Prize	10,226.04		
John McCraw (Matriculation)	10,000.00		
Caroline Macdonald Bursary Fund	2,817.82		
John Macdonald (Philosophy)	2,000.00		
Garnet W. McKee-Lachlan Gilchrist Geophysics Scholarships	12,040.00		
Garnet W. McKee Loan and Scholarship Fund	50,000.00		
Alexander Mackenzie Memorial (Political Science)	16,435.00		
J. J. Mackenzie Fellowship (Pathology)	5,000.00		
J. S. McLean (Matriculation University College)	5,000.00		
Sir John Cunningham McLellan Prize (Mathematics and Physics)	300.00		
McLennan-MacLeod Memorial Prize (Applied Science)	500.00		
Angus MacMurchy Medal (Law)	1,123.50		
Alexander McPhedran Research Fellowship (Medicine)	25,254.79		
H. A. McTaggart Prize (Physics)	1,500.00		
Florence M. Neelands Prize (French)	500.00		
Wallace Nesbitt Medals (University Schools)	500.00		
Nipissing, Mining Research Fellowship	20,550.00		
Ontario Hockey Association War Memorial (Matriculation)	2,000.00		
The William Pakenham Bequest		25,000.00	
Pakenham Memorial Prize (O.C.E.)	1,000.00		
George A. Peters (surgery)	2,500.00		
T. M. Porter (University Schools)	6,300.00		
T. M. Porter Memorial Scholarship (Corrigan) (University Schools)	1,099.89		
T. M. Porter Bequest	11,499.23		
H. W. Price Research Fellowship (Electrical Engineering)	10,000.00		
Prince of Wales (Matriculation)	900.00		
Quebec Bonne Entente Prize (French)	1,000.00		
William Ramsay (Political Economy)	1,009.42		
William Ramsay (Physics)	1,000.00		
A. C. Ransom (Applied Science)	5,000.00		
Anne Howe Reeve Prize (Household Science)	625.00		
R. A. Reeve Bequest (Not allocated)	9,655.20		
James H. Richardson Research Fellowship (Anatomy)	10,000.00		
Rockefeller Foundation: Medical Endowment	1,031,189.52		
Hygiene Endowment	919,918.31		
School of Nursing Endowment	250,000.00		

Forward





—CONTINUED

UNIVERSITY OF TORONTO

Prizes, Endowments, Research, etc.,  
to be Used for the Purposes Designated  
in the Year 1947

Disbursements	Balance 30th June 1947	Trust income			Unexpended income 30th June 1947	Reserve for guaranteed income 30th June 1947
		Unexpended income 30th June 1946	Income earned during year	Expended		
\$ . . . . .	\$ 3,633.98		\$ 118.50		\$ 118.50	\$ 169.60
	5,000.00	\$ 209.28	158.66	\$ 150.00	217.94	217.75
	5,000.00	6,165.12	346.87		6,511.99	484.85
	6,430.74		188.65		188.65	265.14
	25,000.00	5,335.65	1,022.39		6,358.04	1,126.48
	25,000.00	9,417.34	1,123.50		10,540.84	1,301.19
	1,500.00		8.91		8.91	
	2,000.00	120.00	120.00		240.00	81.68
	2,118.00		642.10	300.00	342.10	81.60
	2,000.00	838.74	120.00	120.00	838.74	109.38
	2,000.00		60.00	60.00		77.06
	3,003.75	522.87	104.95	100.00	527.82	146.31
	500.00	48.33	16.01	32.20	32.14	23.32
	2,500.00	129.88	85.92	75.00	140.80	135.43
	10,226.04	19,058.97	1,313.16		20,372.13	1,386.92
	10,000.00	3,572.36	579.14	550.00	3,601.50	136.56
	2,817.82	169.12	131.02	100.00	200.14	84.96
	2,000.00	830.00	100.00	50.00	880.00	109.03
	12,040.00	520.16	390.78	300.00	610.94	541.21
	50,000.00	2,809.31	1,628.60	666.66	3,771.25	2,558.14
	16,435.00	602.50	1,200.00	1,337.50	465.00	656.43
	5,000.00	1,215.94	281.93		1,497.87	129.22
	5,000.00	4,200.00	1,000.00	900.00	4,300.00	
	300.00	43.07	11.13		54.20	17.43
	500.00	17.70	25.67	25.00	18.37	22.64
	1,123.50	80.68	52.13	2.10	130.71	76.50
	25,254.79	11,594.39	1,171.64	1,200.00	11,566.03	1,562.33
	1,500.00	52.40	47.41	45.00	54.81	67.88
	500.00	58.84	15.78	20.00	54.62	22.35
	500.00	129.67	18.70	13.13	135.24	26.18
	20,550.00	5,412.85	1,150.30		6,563.15	331.81
	2,000.00	25.00	100.00	100.00	25.00	78.02
	25,000.00					
	1,000.00	112.56	38.87	54.59	96.84	78.39
	2,500.00	2,306.34	139.65		2,445.99	185.18
	6,300.00	176.01	197.00	373.01		275.42
	1,099.89	12.25	33.57	45.82		47.31
	11,499.23	5,651.98	603.89		6,255.87	1,435.78
	10,000.00	1,370.93	348.22		1,719.15	596.26
	900.00	100.00	50.00	50.00	100.00	38.53
	1,000.00	50.00	50.00	50.00	50.00	40.45
	1,009.42	712.50	71.82		784.32	66.34
	1,000.00	201.21	60.13	50.00	211.34	46.28
	5,000.00	250.04	188.33	170.00	268.37	380.06
	625.00	95.52	30.05	25.00	100.57	27.76
	9,655.20	8,930.56	810.29	500.00	9,240.85	666.64
	10,000.00		290.55		290.55	385.28
	1,031,189.52	26,698.47	41,331.28	31,855.66	36,174.09	38,041.10
	919,918.31	54,256.70	40,163.42	39,746.45	54,673.67	102,133.70
	250,000.00	952.61	7,918.94	7,889.97	981.58	10,823.98

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UNIVERSITY

Funds Received for Scholarships, Prizes, F  
Which May be Expended  
30th J

Name of trust	Balance 30th June 1946	Ben and ad
Academy of Dentistry	\$ 100.00	\$
Academy of Dentistry War Services Rehabilitation Bursaries		
Advertising and Sales Club of Toronto Fellowship		
Jay J. Allen Award (Arts)	150.00	
Jule Allen Ward (Arts)		
Alumnae Prize in English	30.00	
American Society of Heating and Ventilating Engineers Research Fund	95.97	
American Society of Heating and Ventilating Engineers Prize (Mechanical Engineering)	25.00	
Anaconda American Brass Limited Prize		
School of Architecture—sample room	104.97	
B. E. Armstrong—University of Toronto Schools	100.00	
Association of Professional Engineers of Ontario	400.00	
Audiometric and Otological Research (Physics)	3,282.90	
Mr. and Mrs. J. T. Band Bursaries	404.64	
Sir Frederic Banting Memorial Fund	1,016.48	
Banting Research Foundation Advance—Ferguson and Paul	500.00	
Barrie Collegiate Institute—Medicine	750.00	
Bloor District Business Men's Award	200.00	
B'nai B'rith Scholarships	166.68	
Boiler Inspection and Insurance Company (Applied Science)	150.00	
Brampton Jersey Fellowship		
Bristol Myers Fellowship (Dentistry)	5,000.00	
British Association for the Advancement of Science	2.09	
Robert Bruce (Arts and Medicine)	1,071.20	
E. Winnie Bruce Picture Fund	56.51	
R. N. Bryson Donation—University of Toronto Schools	100.00	
Douglas M. Burgess Memorial Fellowship		
Cameron Prize (University College)	25.00	
Canada Packers Public Speaking Study Group		
Canadian Breweries Limited Scholarship		
C.I.L. Fellowship (Chemistry)		
Canadian Institute of Chemistry, Toronto branch	142.97	
Canadian Institute of Steel Construction Fellowship	1,200.00	
Canadian Lumberman's Association Fellowship—Timber Research	500.00	
Canadian Red Cross Glencoe Branch		
Cancer Research Foundation of Ontario Grant—Burton	2,289.55	
Franks		
Ham	585.95	
Mendel-Best	1,543.12	
Richards	1,687.64	
Wynne		
Ontario Cancer Research Sub Department Cellular Physiology		
Carnegie Corporation, Education Research	7,291.96	
Carnegie Corporation, Fine Art Professorship	2,499.50	
Minnie Carson Bequest	3,750.75	
Clarkson Prizes in Accounting		
Class of 1946 Engineering Scholarship	300.00	
Class of 1947 Engineering Scholarship		
Class of 1930 Mathematics and Physics Bursary	50.00	
Dr. H. J. Cody Donation Athletic Trophy		
M. M. Cohen Scholarship		
Arthur H. U. Colquhoun Library of Canadian History Fund	2,497.46	
Cominco Research Fellowship	19.69	
Archie B. Crealock Memorial Prize (Civil Engineering)	51.60	
James W. Crocker Memorial Loan Fund	1,485.65	
Darling and Pearson Prize (Architecture)	10.20	

Forward

## SCHEDULE B—CONTINUED

## UNIVERSITY OF TORONTO

Funds Received for Scholarships, Prizes, Endowments, Research, etc.,  
Only the Income From Which May be Used for the Purposes Designated  
30th June, 1947

Name of Trust	Trust principal				Trust income				Reserve for guaranteed income 30th June 1947	
	Balance 30th June 1946	Bene-factions and other additions	Transfer income etc.	Dis-burse-ments	Balance 30th June 1947	Unexpended income 30th June 1946	Income earned during year	Expended		Unexpended income 30th June 1947
Forward										
Julius Rossin (Modern Languages).....	\$ 1,000.00	\$.....	\$.....		\$ 1,000.00	\$.....	\$ 60.00	\$ 60.00	\$.....	\$ 38.53
Langford Rowell (Law).....	1,000.00				1,000.00	39.46	31.50	50.00	20.96	7.49
Langford Rowell (University Schools).....	2,000.00			\$.....	2,000.00	14.79	100.00		114.79	12.20
R.C.A.M.C. Women's Auxiliary Bursary.....	2,460.00	610.00			3,070.00	139.62	76.10	100.00	115.72	113.18
St. Margaret's College Alumnae Scholarship.....	1,800.12				1,800.12	170.62	63.55		234.17	90.74
Sigmund Samuel Scholarship (Chinese Studies).....	4,000.00				4,000.00	273.31	167.23	160.00	280.54	46.73
Wallace Secombe Memorial Scholarship (Dentistry).....	2,008.78				2,008.78	124.54	68.02	40.00	152.56	106.05
Dr. Roy Simpson (Scholarship) (Paediatrics).....	3,350.00				3,350.00	146.68	108.01		254.69	148.99
Squair French Prose Prize.....	250.00				250.00	86.00	10.00	20.00	76.00	12.94
Hugh Innis Strang Memorial (Classics).....	2,500.00				2,500.00	772.72	98.88	125.00	746.60	160.45
Tracy Scholarship in Philosophy.....	949.70				949.70	283.67	34.98	38.00	280.65	38.45
University Naval Training Division Bursary.....		4,536.92			4,536.92		81.43		81.43	
Vander Smissen (German).....	2,500.00				2,500.00	449.09	89.75		538.84	
Malcolm Wallace Scholarship Fund.....	19,799.01	25.00			19,824.01	763.81	625.78	580.00	809.59	875.64
Albert E. Webster Memorial Scholarship Fund (Dentistry).....	2,212.52				2,212.52		68.93	40.00	28.93	110.48
Morley Wickett (Matriculation, English and History).....	2,000.00				2,000.00	295.48	54.48	140.00	209.96	9.71
Daniel Wilson (Natural Science).....	2,000.00				2,000.00		120.00	120.00		77.06
Wintercorbyn Bequest.....	12,189.79				12,189.79	4,250.12	500.69	330.00	4,420.81	745.31
Ramsay Wright (Zoology).....	22,402.05				22,402.05		612.59	600.00	12.59	443.05
George M. Wrong (Modern History).....	4,338.58				4,338.58	879.15	141.88	150.00	871.03	113.31
Young Memorial (Philosophy).....	3,018.74				3,018.74	3,673.50	244.25		3,917.75	257.84
Accrued interest adjustment.....							215.37		215.37	
Unallocated loss on sale of pooled investments.....							416.63		416.63	
	<u>\$4,453,065.15</u>	<u>\$81,080.60</u>	<u>\$3,000.00</u>	<u>\$3,800.00</u>	<u>\$4,533,345.75</u>	<u>\$296,894.39</u>	<u>\$150,860.08</u>	<u>\$121,284.98</u>	<u>\$326,469.49</u>	<u>\$222,409.40</u>

SCHEDULE C  
UNIVERSITY OF TORONTO

**Funds Received for Scholarships, Prizes, Research, Pension Fund, New Buildings, etc.,  
Which May be Expended for the Purposes Designated  
30th June, 1947**

Name of trust	Balance 30th June 1946	Benefactions and other additions	Income earned during year	Disburse- ments	Balance 30th June 1947	Reserve for guaranteed income	Total
Academy of Dentistry	\$ 100.00	\$ 100.00	\$ . . . . .	\$ 100.00	\$ 100.00	\$ . . . . .	\$ 100.00
Academy of Dentistry War Services Rehabilitation Bursaries		1,800.00			1,800.00		1,800.00
Advertising and Sales Club of Toronto Fellowship		1,000.00			1,000.00		1,000.00
Jay J. Allen Award (Arts)	150.00	225.00		150.00	225.00		225.00
Jule Allen Ward (Arts)		150.00		150.00			150.00
Alumnae Prize in English	30.00	10.00		20.00	20.00		20.00
American Society of Heating and Ventilating Engineers Research Fund	95.97	498.88		558.81	36.04		36.04
American Society of Heating and Ventilating Engineers Prize (Mechanical Engineering)	25.00	25.00		25.00	25.00		25.00
Anaconda American Brass Limited Prize		275.00			275.00		275.00
School of Architecture—sample room	104.97			31.65	73.32		73.32
B. E. Armstrong—University of Toronto Schools	100.00				100.00		100.00
Association of Professional Engineers of Ontario	400.00	225.00		625.00			625.00
Audiometric and Otolgical Research (Physics)	3,282.90	5,560.00		5,998.91	2,843.99		2,843.99
Mr. and Mrs. J. T. Band Bursaries	404.64		1.73	200.00	206.37	15.59	221.96
Sir Frederic Banting Memorial Fund	1,016.48		29.53		1,046.01	39.17	1,085.18
Banting Research Foundation Advance—Ferguson and Paul	500.00	848.84		1,136.69	212.15		212.15
Barrie Collegiate Institute—Medicine	750.00	250.00			1,000.00		1,000.00
Bloor District Business Men's Award	200.00	750.00	4.59	678.00	276.59	41.27	317.86
B'nai B'rith Scholarships	166.68	700.00		349.96	516.72		516.72
Boiler Inspection and Insurance Company (Applied Science)	150.00			150.00			150.00
Brampton Jersey Fellowship		1,000.00			1,000.00		1,000.00
Bristol Myers Fellowship (Dentistry)	5,000.00			200.00	4,800.00		4,800.00
British Association for the Advancement of Science	2.09	92.68			94.77		94.77
Robert Bruce (Arts and Medicine)	1,071.20	316.43	26.20		1,063.83		1,063.83
E. Winnie Bruce Picture Fund	56.51		1.73		58.24	2.97	61.21
R. N. Bryson Donation—University of Toronto Schools	100.00			75.00	25.00		25.00
Douglas M. Burgess Memorial Fellowship		150.00		150.00			150.00
Cameron Prize (University College)	25.00	50.00		25.00	50.00		50.00
Canada Packers Public Speaking Study Group		10.00			10.00		10.00
Canadian Breweries Limited Scholarship		500.00			500.00		500.00
C.I.L. Fellowship (Chemistry)		1,250.00		1,000.00	250.00		250.00
Canadian Institute of Chemistry, Toronto branch	142.97				142.97		142.97
Canadian Institute of Steel Construction Fellowship	1,200.00				1,200.00		1,200.00
Canadian Lumberman's Association Fellowship—Timber Research	500.00	1,000.00		792.21	707.79		707.79
Canadian Red Cross Glencoe Branch		100.00			100.00		100.00
Cancer Research Foundation of Ontario Grant—Burton	2,289.55	9,300.00		5,302.80	6,286.75		6,286.75
Franks		5,040.00		1,345.33	3,694.67		3,694.67
Ham	585.95	6,525.00		6,733.59	377.36		377.36
Mendel-Best	1,543.12			543.35	999.77		999.77
Richards	1,687.64		16.27	1,023.08	680.83	146.46	827.29
Wynne		500.00		150.00	350.00		350.00
Ontario Cancer Research Sub Department Cellular Physiology		3,600.00		233.37	3,366.63		3,366.63
Carnegie Corporation, Education Research	7,291.96	13,291.90		13,280.17	7,303.69		7,303.69
Carnegie Corporation, Fine Art Professorship	2,499.50				2,499.50		2,499.50
Minnie Carson Bequest	3,750.75		143.00		3,893.75		3,893.75
Clarkson Prizes in Accounting		200.00		200.00			200.00
Class of 1946 Engineering Scholarship	300.00			300.00			300.00
Class of 1947 Engineering Scholarship		300.00			300.00		300.00
Class of 1930 Mathematics and Physics Bursary	50.00	50.00		50.00	50.00		50.00
Dr. H. J. Cody Donation Athletic Trophy		65.00			65.00		65.00
M. M. Cohen Scholarship		2,500.00	27.32	200.00	2,327.32		2,327.32
Arthur H. U. Colquhoun Library of Canadian History Fund	2,497.46	333.33	80.54		2,911.33	104.44	3,015.77
Cominco Research Fellowship	19.69	1,180.31		906.20	293.80		293.80
Archie B. Crealock Memorial Prize (Civil Engineering)	51.60			2.00	49.60		49.60
James W. Crocker Memorial Loan Fund	1,485.65				1,485.65		1,485.65
Darling and Pearson Prize (Architecture)	10.20				10.20		10.20
Forward							



CHEDULE C  
OF TORONTO

Research, Pension Fund, New Buildings, etc.,  
for the Purposes Designated  
therein, 1947

Debit	Income earned during year	Disbursements	Balance 30th June 1947	Reserve for guaranteed income	Total
100.00	\$ . . . . .	\$ 100.00	\$ 100.00	\$ . . . . .	\$ 100.00
800.00	.....	.....	1,800.00	.....	1,800.00
1,000.00	.....	.....	1,000.00	.....	1,000.00
225.00	.....	150.00	225.00	.....	225.00
150.00	.....	150.00	.....	.....	.....
10.00	.....	20.00	20.00	.....	20.00
498.88	.....	558.81	36.04	.....	36.04
25.00	.....	25.00	25.00	.....	25.00
275.00	.....	.....	275.00	.....	275.00
.....	.....	31.65	73.32	.....	73.32
.....	.....	.....	100.00	.....	100.00
225.00	.....	625.00	.....	.....	.....
560.00	.....	5,998.91	2,843.99	.....	2,843.99
.....	1.73	200.00	206.37	15.59	221.96
.....	29.53	.....	1,046.01	39.17	1,085.18
848.84	.....	1,136.69	212.15	.....	212.15
250.00	.....	.....	1,000.00	.....	1,000.00
750.00	4.59	678.00	276.59	41.27	317.86
700.00	.....	349.96	516.72	.....	516.72
.....	.....	150.00	.....	.....	.....
1,000.00	.....	.....	1,000.00	.....	1,000.00
.....	.....	200.00	4,800.00	.....	4,800.00
92.68	.....	.....	94.77	.....	94.77
316.43	26.20	350.00	1,063.83	.....	1,063.83
.....	1.73	.....	58.24	2.97	61.21
.....	.....	75.00	25.00	.....	25.00
150.00	.....	150.00	.....	.....	.....
50.00	.....	25.00	50.00	.....	50.00
10.00	.....	.....	10.00	.....	10.00
500.00	.....	.....	500.00	.....	500.00
250.00	.....	1,000.00	250.00	.....	250.00
.....	.....	.....	142.97	.....	142.97
.....	.....	.....	1,200.00	.....	1,200.00
1,000.00	.....	792.21	707.79	.....	707.79
100.00	.....	.....	100.00	.....	100.00
300.00	.....	5,302.80	6,286.75	.....	6,286.75
1,040.00	.....	1,345.33	3,694.67	.....	3,694.67
525.00	.....	6,733.59	377.36	.....	377.36
.....	.....	543.35	999.77	.....	999.77
.....	16.27	1,023.08	680.83	146.46	827.29
500.00	.....	150.00	350.00	.....	350.00
600.00	.....	233.37	3,366.63	.....	3,366.63
291.90	.....	13,280.17	7,303.69	.....	7,303.69
.....	.....	.....	2,499.50	.....	2,499.50
.....	143.00	.....	3,893.75	.....	3,893.75
200.00	.....	200.00	.....	.....	.....
.....	.....	300.00	.....	.....	.....
300.00	.....	.....	300.00	.....	300.00
50.00	.....	50.00	50.00	.....	50.00
65.00	.....	65.00	.....	.....	.....
500.00	27.32	200.00	2,327.32	.....	2,327.32
333.33	80.54	.....	2,911.33	104.44	3,015.77
180.31	.....	906.20	293.80	.....	293.80
.....	.....	2.00	49.60	.....	49.60
.....	.....	.....	1,485.65	.....	1,485.65
.....	.....	.....	10.20	.....	10.20

SCHEDULE  
UNIVERSITY

Funds Received for Scholarships, Prizes, R  
Which May be Expended f  
30th Ju

Name of trust	Balance 30th June 1946	Bene and ad
Forward		
Professor Leopold Infeld Donation . . . . .	\$ 42.55	\$ . . . .
Institute of Industrial Relations . . . . .	11,385.03	2 . . . .
International Accountants and Executives Corp. Bursary (Commerce and Finance) . . . . .		
Jenkins (Engineering) . . . . .	300.00	
Wing Commander D. G. Joy Donation, Aerial Navigation . . . . .	300.00	
W. K. Kellogg Foundation—Dental Loan Fund . . . . .	10,087.89	
W. K. Kellogg Foundation—Dental Scholarship Fund . . . . .	4,750.00	
W. K. Kellogg Foundation—Medical Loan Fund . . . . .	8,476.60	
W. K. Kellogg Foundation—School of Hygiene Loan Fund . . . . .	2,200.00	
W. K. Kellogg Foundation—School of Hygiene Scholarship Fund . . . . .	3,900.00	
W. K. Kellogg Foundation—Course in Hospital Administration . . . . .		2 . . . .
Mary Keenan Award—Political Science . . . . .		
George Kennedy (Philosophy) . . . . .	337.15	
Sarah Kennedy (Household Science) . . . . .	88.15	
Khaki University Memorial Scholarship . . . . .	4,348.27	
King Township Scholarship Fund . . . . .	625.00	
Kresge Fellowship . . . . .		
Labour Research Institute (Law) . . . . .	50.00	
Ann Laidlaw (Classical Archaeology) . . . . .	53.69	
Laidlaw Donation (Fine Art) . . . . .	18.43	
Annie Lewisa Laird Prize (Household Science) . . . . .	1,200.00	
The Landseair War Service Club Memorial Bursaries (Medicine) . . . . .	657.75	
John Langton Memorial . . . . .	30.00	
Reuben Wells Leonard Fellowship and Scholarships (University College)	4,251.00	
Reuben Wells Leonard Bequest . . . . .	290,210.11	
R. V. LeSeur Fellowship . . . . .	167.00	
Library Funds—Abbott Dental . . . . .	66.68	
King Alfred Millenary . . . . .	12,405.01	
Phillips Stewart . . . . .	1,901.29	
Life Insurance Research—Ferguson . . . . .		
James F. Lincoln Arc Welding Foundation—Welding Library . . . . .	109.60	
Lyle Medal (Orientals) . . . . .	767.92	
John Macara, Barrister of Goderich, Scholarship . . . . .		
John and Mary R. Markle Foundation Fund . . . . .	671.22	
Massey Foundation repayment . . . . .		38 . . . .
Massey-Treble Bequest, Household Science . . . . .	28,145.43	3 . . . .
C. A. Masten Fellowship (Law) . . . . .	253.52	
Medical Research Fund—anonymous . . . . .	138,846.26	
Medicine—anonymous . . . . .	404.44	
Medical Alumni Scholarship . . . . .		
W. G. Millar Memorial Scholarship (Applied Science and English) . . . . .	250.00	
Mining Geophysics Corporation Limited—Grant . . . . .	568.69	
F. K. Morrow Scholarship (Forestry) . . . . .	2,402.25	
Max K. A. Mueller Bursary (Social Science) . . . . .		
Sir William Mulock, U.C. Men's Residence Fund . . . . .	21,780.17	
Dent McCrea (Law) . . . . .	50.00	
The Surgeon Lt. J. V. McCutcheon Donation . . . . .	50.00	
Paul McGillicuddy Memorial Medal Sociology . . . . .		
McIntyre Research Fellowship . . . . .	2,350.00	
J. S. McLean Fellowship . . . . .		
McLennan Laboratory Research Fund (Scientific Research) . . . . .	70,562.73	
National Committee for Mental Hygiene . . . . .	70.00	
National Council of Jewish Women Bursary . . . . .	200.00	
National Foundation for Infantile Paralysis Inc. of the United States . . . . .	4,749.61	4 . . . .
National Research Council—U.S.—Elliot . . . . .	248.03	
Forward		

## SCHEDULE C—CONTINUED

## UNIVERSITY OF TORONTO

Funds Received for Scholarships, Prizes, Research, Pension Fund, New Buildings, etc.,  
Which May be Expended for the Purposes Designated  
30th June, 1947

Name of trust	Balance 30th June 1946	Benefactions and other additions	Income earned during year	Disburse- ments	Balance 30th June 1947	Reserve for guaranteed income	Total
Forward							
Deborah Assembly No. 5 Bursary	\$ 50.00	\$ .	\$ .	\$ 50.00	\$ .	\$ .	\$ .
Delta Phi Epsilon Bursary		100.00		100.00			
Dental Bursary Fund	100.00				100.00		100.00
Dental Research Fund	3,259.42	300.00		2,512.56	1,046.86		1,046.86
Dental Scholarship Fellowship and Award Fund		10.00			10.00		10.00
Dental Students' Parliament Prize		150.00		120.00	30.00		30.00
Dentistry Ladies Auxiliary Fund		1,200.00			1,200.00		1,200.00
Dentists Supply Co. Fellowship		2,552.98	10.70	2,775.88	212.20	Dr. 96.32	115.88 Dr.
Dominican Republic Prize (Arts)	40.00	50.00		40.00	50.00		50.00
Department of National Health and Welfare—Scholarship							
School of Social Work		2,280.00			2,280.00		2,280.00
Dominion Board of Insurance Underwriters Prize—Political Economy	300.00			100.00	200.00		200.00
Dominion Provincial Scholarships		650.00		650.00			
Dominion Sugar Fellowship		1,000.00		1,000.00			
Dominion Tar and Chemical Co. Fellowship		1,200.00			1,200.00		1,200.00
David Dunlap Memorial (Psychology)	4,008.37			650.00	3,358.37		3,358.37
Sir J. C. Eaton Memorial, University of Toronto Schools		120.00		120.00			
Margaret Eaton Scholarship—Physical and Health Education	1,000.00	1,000.00		1,000.00			1,000.00
Engineering Alumni Scholarship Committee Fund	95.11			93.92	1.19		1.19
Engineering Institute of Canada	25.00	25.00		25.00			25.00
Engineering Society Loan Fund	266.23		6.32		272.55		272.55
Norma Epstein Bursary		250.00			250.00		250.00
Faulkner Medal (Psychiatry)	3.38	35.00		35.16	3.22		3.22
W. P. Firth Loan Fund	14,277.31		443.50		14,720.81	624.47	15,345.28
Kenneth C. Fisher (Cellular Respiration)	100.03			100.03			
Charles Foster Scholarship on Commerce and Finance	400.00			100.00	300.00		300.00
Harold G. Fox Prizes (Law)	200.00			50.00	150.00		150.00
Charles E. Frosst Scholarship	250.00			250.00			
Fulford Estate Donation	3,891.44		90.31		3,891.75		3,891.75
Hugh Gall Award		100.00		100.00			
Geological Society of America Grant, Physics—Keevil	34.52				34.52		34.52
Geophysics Research Fund	591.23				591.23		591.23
Dr. G. E. Gibbon (Bursary, Medicine)	150.00			150.00			
Robin Godfrey Prize (Arts)	50.00	50.00			100.00		100.00
Graduate Fellowships—Physics	2,000.00			1,500.00	500.00		500.00
Graduates' Scholarship in Law		30.00		30.00			
Mary G. Hamilton Fund	731.99				731.99		731.99
Harris Scholarships in Commerce and Finance	300.00	300.00		300.00	300.00		300.00
Velyien Ewart Henderson Fund	901.36			29.93	871.43		871.43
Percy Hermant (Matriculation)		300.00			300.00		
Percy Hermant Scholarship No. 2 (Matriculation)	300.00	300.00		600.00			
Percy Hermant Fellowship in Ophthalmology		3,500.00		1,650.00	1,850.00		1,850.00
Sidney Hermant Loan Fund	230.00	125.00		75.00	280.00		280.00
Jessie Johanna Hills Estate		500.00			500.00		500.00
Hobbs Glass Limited Bursary (Architecture)	250.00	250.00		250.00	250.00		250.00
Hoffman-LaRoche Limited Grant—Banting-Best	300.00	300.00			600.00		600.00
Hoffman-LaRoche Limited Grant—Ferguson	300.00	300.00		600.00			
Beatrice Hally Memorial Prize	350.00				350.00		350.00
Hollywood Theatre Prize (French)		50.00		50.00			
Dr. E. West Holmes Bequest—Dentistry	5,036.98	2,000.00	158.23		7,195.21	194.07	7,389.28
John Honor Bequest (Arts)	14,702.60		461.31		15,163.91	588.03	15,751.94
Maurice Hutton (Matriculation, Greek and Latin)		150.00		150.00			
Hydro-Electric Power Commission of Ontario Grant		1,500.00		1,049.62	450.38		450.38
Imperial Oil Graduate Fellowships		2,000.00		2,000.00			
Imperial Oil Undergraduate Scholarships		1,000.00		1,000.00			
Imperial Tobacco Company of Canada Limited Fellowship		3,000.00			3,000.00		3,000.00
Forward							

## SCHEDULE C—CONTINUED

## UNIVERSITY OF TORONTO

Funds Received for Scholarships, Prizes, Research, Pension Fund, New Buildings, etc.,  
Which May be Expended for the Purposes Designated  
30th June, 1947

Forward	Name of trust	Balance 30th June 1946	Benefactions and other additions	Income earned during year	Disburse- ments	Balance 30th June 1947	Reserve for guaranteed income	Total
	Professor Leopold Infeld Donation	\$ 42.55	\$ .	\$ .	\$ .	\$ 42.55	\$ .	\$ 42.55
	Institute of Industrial Relations	11,385.03	28,021.24		19,733.52	19,672.75		19,672.75
	International Accountants and Executives Corp. Bursary (Commerce and Finance)		25.00		25.00			
	Jenkins (Engineering)	300.00	200.00		200.00	300.00		300.00
	Wing Commander D. G. Joy Donation, Aerial Navigation	300.00				300.00		300.00
	W. K. Kellogg Foundation—Dental Loan Fund	10,087.89			250.00	9,837.89		9,837.89
	W. K. Kellogg Foundation—Dental Scholarship Fund	4,750.00			500.00	4,250.00		4,250.00
	W. K. Kellogg Foundation—Medical Loan Fund	8,476.60	607.22	17.20	2,225.00	6,876.02		6,876.02
	W. K. Kellogg Foundation—School of Hygiene Loan Fund	2,200.00			300.00	1,900.00		1,900.00
	W. K. Kellogg Foundation—School of Hygiene Scholarship Fund	3,900.00				3,900.00		3,900.00
	W. K. Kellogg Foundation—Course in Hospital Administration		21,500.00			21,500.00		21,500.00
	Mary Keenan Award—Political Science		200.00		200.00			
	George Kennedy (Philosophy)	337.15	83.09			420.24		420.24
	Sarah Kennedy (Household Science)	88.15	83.09		83.00	88.24		88.24
	Khaki University Memorial Scholarship	4,348.27		138.33		4,486.60		4,486.60
	King Township Scholarship Fund	625.00	50.00			675.00	200.54	4,687.14
	Kresge Fellowship		1,200.00			1,200.00		675.00
	Labour Research Institute (Law)	50.00			25.00	25.00		1,200.00
	Ann Laidlaw (Classical Archaeology)	53.69			76.68	22.99	Dr.	25.00
	Laidlaw Donation (Fine Art)	18.43				18.43		22.99
	Annie Lewisa Laird Prize (Household Science)	1,200.00		5.14		1,105.14		18.43
	The Landsear War Service Club Memorial Bursaries (Medicine)	657.75			100.00	657.75	46.23	1,151.37
	John Langton Memorial	30.00				30.00		657.75
	Reuben Wells Leonard Fellowship and Scholarships (University College)	4,251.00	9,400.00		8,350.00	5,301.00		30.00
	Reuben Wells Leonard Bequest	290,210.11	7,352.07	9,924.84	3,000.00	304,487.02	10,893.19	5,301.00
	R. V. LeSeur Fellowship	167.00	500.00		500.00	167.00		315,380.21
	Library Funds—Abbott Dental	66.68	500.00		349.40	217.28		167.00
	King Alfred Millenary	12,405.01		400.00	1,275.99	11,529.02	477.94	217.28
	Phillips Stewart	1,901.29		60.00	38.78	1,922.51	73.25	12,006.96
	Life Insurance Research—Ferguson		399.44			381.00		1,995.76
	James F. Lincoln Arc Welding Foundation—Welding Library	109.60				109.60		18.44
	Lyle Medal (Orientals)	767.92		18.07		778.66		109.60
	John and Mary R. Markle Foundation Scholarship		396.23		396.23			778.66
	Massey Foundation Fund	671.22			671.88			
	Massey-Treble repayment		39,410.77			.66	Dr.	.66
	Massey-Treble Bequest, Household Science	28,145.43	3,561.43	842.26	5,000.00	39,410.77		39,410.77
	C. A. Masten Fellowship (Law)	253.52	75.00	1.09		27,549.12	1,084.40	28,633.52
	Medical Research Fund—anonymous	138,846.26		4,304.94		329.61	9.76	339.37
	Medicine—anonymous	404.44				143,151.20	6,041.91	149,193.11
	Medical Alumni Scholarship		400.00			404.44		404.44
	W. G. Millar Memorial Scholarship (Applied Science and English)	250.00	250.00		400.00			
	Mining Geophysics Corporation Limited—Grant	568.69			250.00	250.00		250.00
	F. K. Morrow Scholarship (Forestry)	2,402.25		75.15	528.96	39.73		39.73
	Max K. A. Mueller Bursary (Social Science)		50.00		250.00	2,227.40	92.56	2,319.96
	Sir William Mulock U.C. Men's Residence Fund	21,780.17			50.00			
	Dent McCrea (Law)	50.00	100.00	673.64		22,453.81	926.06	23,379.87
	The Surgeon Lt. J. V. McCutcheon Donation	50.00			50.00	100.00		100.00
	Paul McGillicuddy Memorial Medal Sociology		35.00			50.00		50.00
	McIntyre Research Fellowship	2,350.00				35.00		35.00
	J. S. McLean Fellowship		625.00		2,179.19	170.81		170.81
	McLennan Laboratory Research Fund (Scientific Research)	70,562.73	798.69		625.00			
	National Committee for Mental Hygiene	70.00			23,146.48	48,214.94		48,214.94
	National Council of Jewish Women Bursary	200.00				70.00		70.00
	National Foundation for Infantile Paralysis Inc. of the United States	4,749.61	4,492.00		200.00			
	National Research Council—U.S.—Elliot	248.03			7,347.37	1,894.24		1,894.24
Forward						248.03		248.03

[C—CONTINUED

UNIVERSITY OF TORONTO

Research, Pension Fund, New Buildings, etc.,  
 for the Purposes Designated  
 for the year ending June 30, 1947

Transactions other than	Income earned during year	Disburse- ments	Balance 30th June 1947	Reserve for guaranteed income	Total
	\$.....	\$.....	\$ 42.55	\$.....	\$ 42.55
021.24		19,733.52	19,672.75		19,672.75
25.00		25.00			
200.00		200.00	300.00		300.00
			300.00		300.00
		250.00	9,837.89		9,837.89
		500.00	4,250.00		4,250.00
607.22	17.20	2,225.00	6,876.02		6,876.02
		300.00	1,900.00		1,900.00
			3,900.00		3,900.00
500.00			21,500.00		21,500.00
200.00		200.00			
83.09			420.24		420.24
83.09		83.00	88.24		88.24
	138.33		4,486.60	200.54	4,687.14
50.00			675.00		675.00
200.00			1,200.00		1,200.00
		25.00	25.00		25.00
		76.68	22.99	Dr.	22.99 Dr.
			18.43		18.43
	5.14	100.00	1,105.14	46.23	1,151.37
			657.75		657.75
			30.00		30.00
400.00		8,350.00	5,301.00		5,301.00
352.07	9,924.84	3,000.00	304,487.02	10,893.19	315,380.21
500.00		500.00	167.00		167.00
500.00		349.40	217.28		217.28
	400.00	1,275.99	11,529.02	477.94	12,006.96
	60.00	38.78	1,922.51	73.25	1,995.76
399.44		381.00	18.44		18.44
			109.60		109.60
	18.07	7.33	778.66		778.66
396.23		396.23			
		671.88	.66	Dr.	.66 Dr.
410.77			39,410.77		39,410.77
561.43	842.26	5,000.00	27,549.12	1,084.40	28,633.52
75.00	1.09		329.61	9.76	339.37
	4,304.94		143,151.20	6,041.91	149,193.11
			404.44		404.44
400.00		400.00			
250.00		250.00	250.00		250.00
		528.96	39.73		39.73
	75.15	250.00	2,227.40	92.56	2,319.96
50.00		50.00			
	673.64		22,453.81	926.06	23,379.87
100.00		50.00	100.00		100.00
			50.00		50.00
35.00			35.00		35.00
		2,179.19	170.81		170.81
625.00		625.00			
798.69		23,146.48	48,214.94		48,214.94
			70.00		70.00
		200.00			
492.00		7,347.37	1,894.24		1,894.24
			248.03		248.03

## SCHEDULE

## UNIVERSITY

Funds Received for Scholarships, Prizes, Residences,  
Which May be Expended for the Year Ending  
30th June

Name of trust	Balance 30th June 1946	Benefit and additions
Forward		
T. A. Russell Research Fellowship (Applied Science and English).....	\$ 176.67	\$
Dr. James P. Rutherford (Medical Research).....	7,260.73	.....
Ronald S. Saddington Medal (Pathology).....	7.54	.....
Sadowski (Sociology and Social Science).....	500.00	.....
B. Sadowski (Social work).....	.....	.....
School of Nursing Undergraduate Bursary.....	653.28	.....
School of Nursing Building Fund.....	10,000.00	10
Wallace Seccombe General Proficiency Prize (Dentistry).....	50.00	.....
Lauretta M. Seldon Bequest.....	64.04	.....
Shell Oil Company Fellowship for Research.....	.....	.....
Rose Shendroff Memorial Loan Fund (Medicine).....	500.00	.....
Rose Shendroff Memorial (Prize in English—University College).....	100.00	.....
Shouldice Medical Research—Pharmacology.....	152.46	.....
Sigma Alpha Mu Scholarship Fund.....	225.00	.....
Mary A. Simpson Bequest.....	121.03	.....
Robert Simpson Company (Matriculation).....	.....	.....
George R. Smith Fund (O.C.E.).....	250.00	.....
Social Science Fund.....	5.00	.....
G. Roy Sproat and Katherine Sproat Bursary Fund.....	500.00	.....
Spruce Falls Power and Paper Company Limited Fellowships.....	.....	.....
Standard Brands Research (Chemistry).....	6.54	.....
Starr Bequest (Medals).....	8,481.18	.....
John A. Stewart (Pernicious Anaemia).....	3,273.55	.....
Student Veteran Loan Account.....	.....	1
R. H. Survey—Greedy.....	.....	.....
Carl Swan Award.....	.....	.....
Swift Canadian Foundation Fellowship.....	78.92	.....
W. George Switzer Memorial Award (Dentistry).....	223.63	.....
H. P. Temple Scholarship.....	.....	.....
Henry Thompson Scholarships (Dentistry).....	300.00	.....
Toronto Brick Company Prizes (Architecture).....	100.00	.....
Toronto Metropolitan Housing Research Project Fund.....	3,906.72	.....
Toronto Stock Exchange Prize in Corporation Finance.....	.....	.....
J. B. Tyrrell Fellowship.....	.....	.....
Ubukata Fund for Japanese Students.....	14,924.78	.....
University Chemistry Club Scholarship.....	.....	.....
University College Alumnae Scholarship.....	.....	.....
University College Alumni Scholarship (Matriculation).....	.....	.....
University College Alumni Prize.....	.....	.....
University College Men's Residence Fund.....	16,894.11	.....
University Extension—Division of Public Safety.....	.....	10
University of Toronto Engineering Alumni Scholarship.....	2,000.00	.....
University of Toronto Schools Engineering Scholarship.....	.....	.....
University of Toronto Schools Old Boys' Association.....	.....	.....
University of Toronto Schools Parents' Association (Scholarships).....	.....	.....
Urwick Bursaries.....	1,500.00	.....
Urwick Prize (Commerce and Finance).....	25.00	.....
Urwick Prize (Political Science and Economics).....	25.00	.....
E. J. Urwick Scholarship—Social work.....	.....	.....
Varsity Appeal.....	256,993.47	1
Bernard Vise Memorial Scholarship (Social Science).....	.....	.....
Sir Edmund Walker (Arts or Medicine).....	.....	.....
E. C. Walker Bequest (Residences).....	88,773.37	.....
J. Harrington Walker Bequest (Residences).....	48,244.21	.....
E. A. Wallberg Memorial.....	2,354,970.22	12
Forward		

## SCHEDULE C—CONTINUED

## UNIVERSITY OF TORONTO

Funds Received for Scholarships, Prizes, Research, Pension Fund, New Buildings, etc.,  
Which May be Expended for the Purposes Designated  
30th June, 1947

Name of trust	Balance 30th June 1946	Benefactions and other additions	Income earned during year	Disburse- ments	Balance 30th June 1947	Reserve for guaranteed income	Total
Forward							
John Northway (Psychological Research)	\$ 500.00				\$ 500.00		\$ 500.00
Nutrition Foundation Inc.—Best		7,950.00		7,950.00			
Nutrition Foundation Inc.—McHenry	9.05	1,700.00		1,542.79	166.26		166.26
Nutrition Foundation Inc.—Fischer	3,300.00			2,750.00	550.00		550.00
Obstetrics and Gynaecology Research Fund		2,500.00			2,500.00		2,500.00
Laura L. Ockley Scholarship—Home Economics (O.C.E.)	1,323.04		36.69	100.00	1,259.73		1,259.73
O'Keefe Award—Commerce and Finance		250.00					
Ontario Archaeology—Special Research	868.24		25.23		893.47	33.45	926.92
Ontario Association of Architects		100.00		100.00			
Ontario Community Chest Scholarships—Social work	100.00	3,200.00		2,975.00	325.00		325.00
Ontario Forest Industries Association Scholarship (Forest Entomology)		250.00		250.00			
Ontario Government Grant—V.D. Research	9,706.67			2,329.93	7,376.74		7,376.74
Ontario Government Grant—Ontario College of Education Buildings		500,000.00			500,000.00		500,000.00
Ontario Government Grant—Medical Faculty—capital expenditures		500,000.00			500,000.00		500,000.00
Royal Ontario Museum for Archives and Canadiana Extension		250,000.00			250,000.00		250,000.00
General building programme		1,250,000.00		838,773.62	411,226.38		411,226.38
Ontario Medical Association Prize (Preventive Medicine)		25.00			25.00		25.00
Ontario-Minnesota Pulp and Paper Company Bursaries (Forestry)		1,000.00		1,000.00			
Ontario Research Commission—Foy		13,575.00		604.25	12,970.75		12,970.75
Wilson		6,000.00		1,562.37	4,437.63		4,437.63
Oral Health Thesis Prize No. 1 (Dentistry)	33.33	100.00		66.66	66.67		66.67
Oral Health Thesis Prize No. 2 (Dentistry)	16.67	50.00		33.34	33.33		33.33
Order of the Sons of Italy of Ontario Prize		50.00			50.00		50.00
Organic Chemistry (Anonymous) Prize	5,000.00			5,000.00			
Fred Orpen Award		250.00			250.00		
Palestine Lodge Bursary Fund—Social work	3,040.10		85.37	200.00	2,925.47	117.13	3,042.60
Pan-Hellenic Association Prizes (University College)		150.00		150.00			
Parke-Davis Donation (Greay Research)	106.40				106.40		106.40
Pensions—Academic	765,018.29	36,800.00	31,828.30	57,591.06	776,055.53	28,604.62	804,660.15
Pensions—Employees	1,289,963.75	85,927.88	55,082.00	45,656.46	1,385,317.17	54,402.47	1,439,719.64
Physical Therapy Undergraduate Association Donation— Galvanic Machine		100.00		100.00			
Pi Lambda Phi Fraternity Prize (Arts)	25.00			25.00			
Pitt War Research	340.39				340.39		340.39
Postluns Bros. Scholarship	100.00	100.00		100.00	100.00		100.00
Pro Liberis Prize (Dentistry)	50.00	50.00		50.00	50.00		50.00
Psychiatric Research Fund	4,125.00	6,750.00					
Psychiatry Special Fund	1,000.00			10,875.00			
Public Speaking Association Bursary	50.00	50.00			1,000.00		1,000.00
William Lowell Putnam Prize (Mathematics)	985.05	399.44		25.00	75.00		75.00
R. A. Reeve Prize (Medicine)	250.00	50.00			1,384.49		1,384.49
Eliza J. Robertson Bequest (Arthritis)	25,679.71		800.64		300.00		300.00
Rockefeller Foundation—Hygiene—Special account No. 1	476.01	6,106.49			26,480.35	1,349.59	27,829.94
Hygiene—Special account No. 2	4,024.43	10,000.00		6,110.00	472.50		472.50
Hygiene—Special account No. 3	117.27			8,664.94	5,359.49		5,359.49
Hygiene—Special account No. 4	1.47	4,600.00			117.27		117.27
Hygiene—Special account No. 5	64.89	4,935.11		4,342.51	158.96		158.96
School of Nursing—Library Fund	.05			4,877.11	122.89		122.89
Social Science—Innis	91.75	2,067.30			.05		.05
Louis Rosenfeld Award		150.00		1,067.30	1,091.75		1,091.75
Romaine K. Ross Prize		20.00			150.00		150.00
Newton Wesley Rowell Fellowship (law)	200.00			20.00	10.00		10.00
Royal Institute of International Affairs—University Press		58.26			200.00		200.00
Forward				58.26			

## SCHEDULE C—CONTINUED

## UNIVERSITY OF TORONTO

Funds Received for Scholarships, Prizes, Research, Pension Fund, New Buildings, etc.,  
Which May be Expended for the Purposes Designated  
30th June, 1947

Name of trust	Balance 30th June * 1946	Benefactions and other additions	Income earned during year	Disburse- ments	Balance 30th June 1947	Reserve for guaranteed income	Total
Forward							
T. A. Russell Research Fellowship (Applied Science and English).....	\$ 176.67	\$ 1,709.33	\$ .....	\$ 880.00	\$ 1,006.00	\$ .....	\$ 1,006.00
Dr. James P. Rutherford (Medical Research).....	7,260.73	.....	259.51	.....	7,520.24	260.20	7,780.44
Ronald S. Saddington Medal (Pathology).....	7.54	20.00	.....	8.64	18.90	.....	18.90
Sadowski (Sociology and Social Science).....	500.00	500.00	.....	500.00	500.00	.....	500.00
B. Sadowski (Social work).....	.....	250.00	.....	.....	250.00	.....	250.00
School of Nursing Undergraduate Bursary.....	653.28	.....	18.98	.....	672.26	25.16	697.42
School of Nursing Building Fund.....	10,000.00	10,000.00	296.97	.....	20,296.97	.....	20,296.97
Wallace Secombe General Proficiency Prize (Dentistry).....	50.00	150.00	.....	100.00	100.00	.....	100.00
Lauretta M. Seldon Bequest.....	64.04	.....	1.52	.....	65.56	.....	65.56
Shell Oil Company Fellowship for Research.....	.....	923.00	.....	923.00	.....	.....	.....
Rose Shendroff Memorial Loan Fund (Medicine).....	500.00	.....	.....	.....	500.00	.....	500.00
Rose Shendroff Memorial (Prize in English—University College).....	100.00	.....	.....	30.00	70.00	.....	70.00
Shouldice Medical Research—Pharmacology.....	152.46	250.00	.....	54.01	348.45	.....	348.45
Sigma Alpha Mu Scholarship Fund.....	225.00	160.00	.....	200.00	185.00	.....	185.00
Mary A. Simpson Bequest.....	121.03	.....	2.88	.....	123.91	.....	123.91
Robert Simpson Company (Matriculation).....	.....	1,050.00	.....	1,050.00	.....	.....	.....
George R. Smith Fund (O.C.E.).....	250.00	.....	.....	.....	250.00	.....	250.00
Social Science Fund.....	5.00	.....	.....	5.00	.....	.....	.....
G. Roy Sproat and Katherine Sproat Bursary Fund.....	500.00	500.00	.....	500.00	500.00	.....	500.00
Spruce Falls Power and Paper Company Limited Fellowships.....	.....	6,000.00	.....	.....	6,000.00	.....	6,000.00
Standard Brands Research (Chemistry).....	6.54	.....	.....	.....	6.54	.....	6.54
Starr Bequest (Medals).....	8,481.18	.....	120.00	55.37	8,545.81	.....	8,545.81
John A. Stewart (Pernicious Anaemia).....	3,273.55	.....	119.47	.....	3,393.02	126.13	3,519.15
Student Veteran Loan Account.....	.....	12,390.00	.....	.....	12,160.00	.....	12,160.00
R. H. Survey—Greay.....	.....	1,000.00	.....	12,160.00	230.00	.....	230.00
Carl Swan Award.....	.....	160.00	.....	783.91	216.09	.....	216.09
Swift Canadian Foundation Fellowship.....	78.92	600.00	.....	80.00	80.00	.....	80.00
W. George Switzer Memorial Award (Dentistry).....	223.63	165.00	6.22	676.00	2.92	.....	2.92
H. P. Temple Scholarship.....	.....	300.00	.....	11.70	383.15	.....	383.15
Henry Thompson Scholarships (Dentistry).....	300.00	.....	.....	300.00	.....	.....	300.00
Toronto Brick Company Prizes (Architecture).....	100.00	.....	.....	300.00	.....	.....	.....
Toronto Metropolitan Housing Research Project Fund.....	3,906.72	5,159.05	.....	100.00	100.00	.....	100.00
Toronto Stock Exchange Prize in Corporation Finance.....	.....	100.00	.....	7,362.21	1,703.56	.....	1,703.56
J. B. Tyrrell Fellowship.....	.....	500.00	.....	100.00	.....	.....	.....
Ukukata Fund for Japanese Students.....	14,924.78	.....	611.76	500.00	.....	.....	.....
University Chemistry Club Scholarship.....	.....	75.00	.....	.....	15,536.54	414.82	15,951.36
University College Alumnae Scholarship.....	.....	100.00	.....	75.00	.....	.....	.....
University College Alumni Scholarship (Matriculation).....	.....	350.00	.....	100.00	.....	.....	.....
University College Alumni Prize.....	.....	25.00	.....	350.00	.....	.....	.....
University College Men's Residence Fund.....	16,894.11	600.00	458.71	25.00	.....	.....	.....
University Extension—Division of Public Safety.....	.....	10,000.00	.....	17,952.82	289.79	.....	18,242.61
University of Toronto Engineering Alumni Scholarship.....	2,000.00	.....	.....	7,507.58	2,492.42	.....	2,492.42
University of Toronto Schools Engineering Scholarship.....	.....	250.00	.....	300.00	1,700.00	.....	1,700.00
University of Toronto Schools Old Boys' Association.....	.....	.....	.....	250.00	.....	.....	.....
University of Toronto Schools Parents' Association (Scholarships).....	.....	.....	.....	150.00	150.00 Dr.	.....	150.00 Dr.
Urwick Bursaries.....	.....	150.00	.....	225.00	75.00 Dr.	.....	75.00 Dr.
Urwick Prize (Commerce and Finance).....	1,500.00	1,200.00	.....	650.00	2,050.00	.....	2,050.00
Urwick Prize (Political Science and Economics).....	25.00	50.00	.....	25.00	50.00	.....	50.00
E. J. Urwick Scholarship—Social work.....	25.00	50.00	.....	25.00	50.00	.....	50.00
Varsity Appeal.....	.....	600.00	.....	300.00	300.00	.....	300.00
Bernard Vise Memorial Scholarship (Social Science).....	256,998.47	12,182.00	7,344.41	2,492.92	274,036.96	11,012.65	285,049.61
Sir Edmund Walker (Arts or Medicine).....	.....	100.00	.....	100.00	.....	.....	.....
E. C. Walker Bequest (Residences).....	.....	450.00	.....	450.00	.....	.....	.....
J. Harrington Walker Bequest (Residences).....	88,773.37	.....	3,644.78	.....	92,418.15	3,733.11	96,151.26
E. A. Wallberg Memorial.....	48,244.21	.....	1,891.30	.....	50,135.51	1,570.81	51,706.32
Forward	2,354,970.22	127,154.33	75,109.19	40,000.00	2,517,233.74	103,381.48	2,620,615.22



CONTINUED

UNIVERSITY OF TORONTO

Research, Pension Fund, New Buildings, etc.,  
for the Purposes Designated  
therein, 1947

Transactions other than	Income earned during year	Disburse- ments	Balance 30th June 1947	Reserve for guaranteed income	Total
709.33	\$.....	\$ 880.00	\$ 1,006.00	\$.....	\$ 1,006.00
	259.51	.....	7,520.24	260.20	7,780.44
20.00	.....	8.64	18.90	.....	18.90
500.00	.....	500.00	500.00	.....	500.00
250.00	.....	.....	250.00	.....	250.00
	18.98	.....	672.26	25.16	697.42
1,000.00	296.97	.....	20,296.97	.....	20,296.97
150.00	.....	100.00	100.00	.....	100.00
	1.52	.....	65.56	.....	65.56
923.00	.....	923.00	.....	.....	.....
	.....	.....	500.00	.....	500.00
	.....	30.00	70.00	.....	70.00
250.00	.....	54.01	348.45	.....	348.45
160.00	.....	200.00	185.00	.....	185.00
	2.88	.....	123.91	.....	123.91
1,050.00	.....	1,050.00	.....	.....	.....
	.....	.....	250.00	.....	250.00
	.....	5.00	.....	.....	.....
500.00	.....	500.00	500.00	.....	500.00
6,000.00	.....	.....	6,000.00	.....	6,000.00
	.....	.....	6.54	.....	6.54
	120.00	55.37	8,545.81	.....	8,545.81
	119.47	.....	3,393.02	126.13	3,519.15
390.00	.....	12,160.00	230.00	.....	230.00
1,000.00	.....	783.91	216.09	.....	216.09
160.00	.....	80.00	80.00	.....	80.00
600.00	.....	676.00	2.92	.....	2.92
165.00	6.22	11.70	383.15	.....	383.15
300.00	.....	.....	300.00	.....	300.00
	.....	300.00	.....	.....	.....
	.....	100.00	.....	.....	.....
159.05	.....	7,362.21	1,703.56	.....	1,703.56
100.00	.....	100.00	.....	.....	.....
500.00	.....	500.00	.....	.....	.....
	611.76	.....	15,536.54	414.82	15,951.36
75.00	.....	75.00	.....	.....	.....
100.00	.....	100.00	.....	.....	.....
350.00	.....	350.00	.....	.....	.....
25.00	.....	25.00	.....	.....	.....
600.00	458.71	.....	17,952.82	289.79	18,242.61
1,000.00	.....	7,507.58	2,492.42	.....	2,492.42
	.....	300.00	1,700.00	.....	1,700.00
250.00	.....	250.00	.....	.....	.....
	.....	150.00	150.00	Dr.	150.00
150.00	.....	225.00	75.00	Dr.	75.00
200.00	.....	650.00	2,050.00	.....	2,050.00
50.00	.....	25.00	50.00	.....	50.00
50.00	.....	25.00	50.00	.....	50.00
600.00	.....	300.00	300.00	.....	300.00
2,192.00	7,344.41	2,492.92	274,036.96	11,012.65	285,049.61
100.00	.....	100.00	.....	.....	.....
450.00	.....	450.00	.....	.....	.....
	3,644.78	.....	92,418.15	3,733.11	96,151.26
	1,891.30	.....	50,135.51	1,570.81	51,706.32
7,154.33	75,109.19	40,000.00	2,517,233.74	103,381.48	2,620,615.22

SCHEDULE  
UNIVERSITY OF  
Trust End  
30th Jun

Name of Trust	Balance 30th June 1946	Balance
Insulin Committee—surplus . . . . .	\$1,418,213.32	\$
Medical Research—Banting . . . . .	244,840.05	
Medical Research—Best . . . . .	323,709.51	
Massey Foundation repayment . . . . .	372,496.10	*
E. C. Whitney Bequest . . . . .	240,507.71	.
	<u>\$2,599,766.69</u>	<u>\$</u>

\*NOTE: Represents portion of trust reclassified during the year

## SCHEDULE C—CONTINUED

## UNIVERSITY OF TORONTO

Funds Received for Scholarships, Prizes, Research, Pension Fund, New Buildings, etc.,  
Which May be Expended for the Purposes Designated  
30th June, 1947

Name of trust	Balance 30th June 1946	Benefactions and other additions	Income earned during year	Disburse- ments	Balance 30th June 1947	Reserve for guaranteed income	Total
Forward							
E. A. Wallberg Memorial Fund (Applied Science, Scholarships, Fellowships, etc.)	\$ . . . . .	\$ 15,000.00	\$ . . . . .	\$ 2,013.59	\$ 12,986.41	\$ . . . . .	\$ 12,986.41
E. A. Wallberg Memorial (Applied Science Survey)	600.00				600.00		600.00
E. A. Wallberg Memorial Fund (Applied Science Travelling Expenses)	413.73			142.35	271.38		271.38
E. A. Wallberg Memorial Loan Fund	5,366.89	316.00	160.29	413.31	5,429.87	206.78	5,636.65
Edwin Waterhouse Scholarship (Commerce and Finance)	250.00			250.00			
R. E. Watters Bursary (University College)	200.00				200.00		200.00
John T. White Bequest (Medical Research—Banting)	3.00	27.00			30.00		30.00
White Pine Bureau Scholarship (Forestry)	100.00	100.00		100.00	100.00		100.00
Emerson Wickett Memorial (Applied Science)	100.00	100.00			100.00		100.00
Jas. B. Willmott (Dentistry)	216.66			116.67	99.99		99.99
Dr. Wilfrid Wise Donation		10.00			10.00		10.00
James Wm. Woods Fellowship & Business Administration)	1,500.00	500.00		500.00	1,500.00		1,500.00
Zonta Club Bursary		200.00			200.00		200.00
Accrued income adjustments			595.56		595.56		595.56
Unallocated loss on sale of pooled investments			721.71-		721.71-		721.71-
	<u>\$5,670,987.21</u>	<u>\$3,113,465.81</u>	<u>\$195,740.01</u>	<u>\$1,230,065.89</u>	<u>\$7,750,127.14</u>	<u>\$227,226.82</u>	<u>\$7,977,353.96</u>
Sundry grants from Dominion Government for research, etc.	38,460.33	101,860.12		107,205.75	33,114.70		33,114.70
	<u>\$5,709,447.54</u>	<u>\$3,215,325.93</u>	<u>\$195,740.01</u>	<u>\$1,337,271.64</u>	<u>\$7,783,241.84</u>	<u>\$227,226.82</u>	<u>\$8,010,468.66</u>

SCHEDULE D  
UNIVERSITY OF TORONTO

Trust Endowments  
30th June, 1947

Name of Trust	Balance 30th June 1946	Benefactions and other additions	Income earned during year	Capital gain or loss (†)	Disbursements	Balance 30th June 1947
Insulin Committee—surplus.....	\$1,418,213.32	\$135,894.63	\$38,498.57	\$2,576.06	\$106,555.31	\$1,488,627.27
Medical Research—Banting.....	244,840.05	68,009.10	5,696.24	381.15	119,118.67	199,807.87
Medical Research—Best.....	323,709.51	47,383.10	8,644.54	578.43	29,518.30	350,797.28
Massey Foundation repayment.....	372,496.10	* 39,410.77†	9,551.27	639.11	5,975.00	337,300.71
E. C. Whitney Bequest.....	240,507.71	.....	9,261.13	6,243.36†	.....	243,525.48
	<u>\$2,599,766.69</u>	<u>\$211,876.06</u>	<u>\$71,651.75</u>	<u>\$2,068.61†</u>	<u>\$261,167.28</u>	<u>\$2,620,058.61</u>

\*NOTE: Represents portion of trust reclassified during the year and shown on schedule "C".

TABLE D

UNIVERSITY OF TORONTO

Disbursements  
for the year  
ended June 30, 1947

Disbursements and other deductions	Income earned during year	Capital gain or loss (†)	Disbursements	Balance 30th June 1947
35,894.63	\$38,498.57	\$2,576.06	\$106,555.31	\$1,488,627.27
68,009.10	5,696.24	381.15	119,118.67	199,807.87
47,383.10	8,644.54	578.43	29,518.30	350,797.28
39,410.77†	9,551.27	639.11	5,975.00	337,300.71
.....	9,261.13	6,243.36†	.....	243,525.48
<u>11,876.06</u>	<u>\$71,651.75</u>	<u>\$2,068.61†</u>	<u>\$261,167.28</u>	<u>\$2,620,058.61</u>

† See schedule "C" for details.

DEPARTMENT OF HEALTH

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Twenty-third Annual Report

OF THE

Department of Health

ONTARIO, CANADA

FOR THE YEAR

1947

PRINTED BY ORDER OF  
THE LEGISLATIVE ASSEMBLY OF ONTARIO

SESSIONAL PAPER No. 13, 1948



ONTARIO

TORONTO

Printed and Published by Baptist Johnston, Printer to the King's Most Excellent Majesty  
1948



TO THE HONOURABLE RAY LAWSON, O.B.E.,  
*Lieutenant-Governor of the Province of Ontario.*

MAY IT PLEASE YOUR HONOUR:

I herewith beg to present for your consideration the Twenty-third Annual Report of the Department of Health, for the year 1947.

Respectfully submitted,

RUSSELL T. KELLEY,  
*Minister of Health.*



TO THE HONOURABLE RUSSELL T. KELLEY,  
*Minister of Health.*

SIR,—I have the honour to submit for your approval the Twenty-third Report of the Department of Health, made in conformity with and under the provisions of The Public Health Act, for the year 1947.

I have the honour to be, Sir,

Your obedient servant,

J. T. PHAIR,  
*Deputy Minister of Health.*

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PUBLIC HEALTH ADMINISTRATION

DEWILLET S. PUFFER, B.A., M.B., D.P.H.

R. G. STRUTHERS, M.D., D.P.H.

The succeeding pages of this, the Twenty-third Report of the Department's activities, demonstrate the extent of the interest in those matters which are the concern of the provincial authority. This interest is manifested in a number of fields and in a variety of ways and includes the provision of both direct and indirect services.

Public interest in the plan for providing more effective community health service through County Health Units continues to increase. In addition to the list of Units given in the 1946 Report, the following Health Units were established during 1947:

East York and Leaside . . . . .	January 30th, 1947
Halton County . . . . .	July 1st, 1947
Kent County . . . . .	July 1st, 1947
Lennox and Addington . . . . .	July 1st, 1947
Leeds and Grenville . . . . .	July 1st, 1947

This brings the total number of Health Units to twenty and, if the population in Units is added to that of the twelve large urban municipalities with full-time health service, approximately 60% of the population of the Province is covered. Though the number of available qualified public health personnel has not kept pace with the demand, Health Units are more adequately staffed than they were a year ago.

Efforts to increase the number of those signifying interest in qualifying for positions in this field were continued. Six doctors, thirty nurses, one veterinary surgeon and three sanitary engineers were granted fellowships to assist them to pursue studies leading to diplomas or certificates in public health.

Grants-in-aid of County Public Health School Nursing Services were continued in Haldimand, Huron, Middlesex, Perth, Simcoe and Wentworth Counties. Lennox and Addington, where this service was also in effect, chose to adopt the more generalized programme made possible through services provided under the Health Unit plan.

On January 3rd and 4th a Conference of full-time Medical Officers of Health and Supervisors of Nursing of Health Units convened to discuss problems and programmes of Health Units.

A second Conference of full-time Medical Officers of Health in municipalities and Health Units met on June 17th and 18th. An innovation was that, as part of this Conference, representatives of Boards of Health also convened, formed an organization and appointed an executive committee. This organization will permit local Boards of Health an opportunity to discuss problems of mutual

interest and to develop a measure of uniformity in their approach to such problems.

At the end of 1947 there were 451 Medical Officers of Health.

The Annual Convention of Medical Officers of Health called by the Minister was held in Toronto on June 16th and 17th. There were 293 Medical Officers of Health in attendance.

Changes directly affecting the Department during the year 1947 as related to Medical Officers of Health are as follows:

#### APPOINTMENTS

M. B. Grenon	J. A. Henry	C. B. Colquette	W. J. Donevan
C. B. Petrie	O. R. Newton	I. Shaw	R. H. Doyle
O. W. Oughtred	J. V. Tilley	R. S. Peat	D. C. Draper
D. W. Clare	N. W. McQuay	G. E. Large	I. B. Thompson
L. S. Stokes	W. B. McClintock	J. M. Parker	W. F. MacKenzie
A. A. MacVicar	R. H. Latimer	F. E. Curts	P. C. McCabe
C. G. Campbell	C. F. Cahill	J. H. Stanyon	D. M. Young
E. A. McQuade	R. H. Fisher	H. R. Samson	H. G. Swan
P. L. Brady	H. A. Brash	G. C. Johnstone	C. A. Myers
W. E. Lake	A. H. Jeffrey	J. E. Barnard	D. B. Jamieson
W. H. Orr	R. B. Gammie	D. J. Patchell	G. M. Bastedo
M. C. Edsall	A. G. Strang	J. C. M. Fetterly	G. E. D. Wilson
E. S. Clysdale	L. A. Clarke	A. E. Thoms	D. M. M. McCausland
H. A. Collins	L. W. Dales	W. P. Earle	G. Soucie
W. D. Howe	G. L. Blackwell	R. G. Knipe	

#### RETIREMENTS

J. I. Rossman	W. B. Crowe	H. R. McDonald	N. W. Kerr
J. D. MacDonald	G. H. Graham	J. H. Stead	W. H. Perrin
F. J. Burrows	G. B. Stalker	W. M. Wilkinson	W. S. Palmer
D. A. Monteith	R. M. Rogers	E. E. McPherson	P. A. McIntosh
R. N. Simpson	J. Pearce	T. P. Kearns	G. W. Brown
R. L. Empsey	H. Crawford	R. D. McAlpine	J. W. Mackie
J. A. McClintock	B. L. Sinclair	H. A. Taylor	K. C. Gray
H. G. Furlong	W. H. McMillan	J. A. Ruttle	G. D. Gordon
J. E. Williams	D. A. Smith	J. M. Graham	C. A. Patterson
R. J. Young	C. D. Kilpatrick	A. S. Huffman	F. S. Young
S. C. Robinson	D. G. Hood	J. R. MacPherson	R. G. Bell
F. M. Lively	H. R. Samson	W. E. Lake	W. H. Duffett
W. G. Hutchison	F. L. Johnson	J. A. McLean	A. J. Medley
A. Gray	W. D. S. Jamieson	W. H. Orr	J. H. Oldham
N. Campbell	W. M. Lovegrove	R. W. Leader	E. W. Huxtable
A. J. Legris	A. A. MacVicar	R. H. Walker	F. C. Wilson
C. T. Noble	D. A. Garrett	D. M. MacPherson	E. R. Ellicott
J. P. Fleming	R. T. Dingle	E. G. Berry	M. G. Dales
R. L. Carefoot	R. T. Paul	M. C. Edsall	A. R. Mounce
W. S. Hodgins	C. V. Williams	A. K. Mainse	V. O. Hart
A. A. Bassett	G. E. Syer	C. B. Davis	G. E. Large

It is with regret that we must advise that the following medical officers of health were removed by death:

H. M. McFadden J. W. Fraser  
J. Reeves

E. Blanchard

R. H. Taylor

## REPORT OF THE SOLICITOR

CHARLES WALKER, *Solicitor to the Department*

The following legislation was passed by the Legislative Assembly in the 1947 Session:

The following Acts were passed:

*The Embalmers and Funeral Directors Act, 1947.*

*The Nurses Act, 1947.*

*The Sanatoria for Consumptives Act, 1947.*

The following Acts were amended:

*The Dentistry Act.*

*The Medical Act.*

*The Public Health Act.*

*The Public Hospitals Act.*

Regulations were passed in 1947 under the authority of the following Acts:

	Date of Approval	Ontario Regulations Number
<i>The Cemetery Act</i>		
St. Mary's Roman Catholic Cemetery . . . . .	June 5	92/47
<i>The Dental Technicians Act, 1946</i> . . . . .	Nov. 1	226/47
<i>The Mental Hospitals Act</i>		
Warrants to apprehend patients . . . . .	June 28	93/47
<i>The Psychiatric Hospitals Act</i>		
Forms . . . . .	June 5	94/47
<i>The Public Health Act</i>		
Regulations constituting Boards of Health of the various Health Units mentioned hereunder:		
Oxford County and Ingersoll Health Unit . . . . .	Jan. 3	2/47
East York and Leaside Health Unit . . . . .	Feb. 22	7/47
Kirkland-Larder Lake Health Unit . . . . .	Jan. 30	8/47
Wellington County Health Unit . . . . .	Feb. 20	14/47
Lennox and Addington Health Unit . . . . .	Feb. 20	15/47
Stormont, Dundas and Glengarry Health Unit . .	Apr. 10	36/47
Leeds and Grenville Health Unit . . . . .	May 15	76/47
Eating Establishments—New . . . . .	Oct. 16	227/47
<i>The Public Hospitals Act</i>		
Amendment Kirkland and District Hospital . . . . .	Mar. 13	26/47
Amendment re Saugeen Memorial Hospital . . . . .	July 31	153/47
Maintenance Grants . . . . .	June 12	96/47
Capital Grants . . . . .	July 10	133/47
<i>The Sanatoria for Consumptives Act</i>		
Re Provincial Aid . . . . .	May 15	75/47

## DIVISION OF DENTAL SERVICES

F. A. KOHLI, D.D.S., D.D.P.H., *Director*

Public interest in dental health has shown a marked increase during the past year, particularly in areas where Health Units have been established. Surveys would indicate that an increasing number of children are applying to the dentists for treatment.

In the field of dental health this Division is cooperating with the Department of Education, the Ontario Dental Association and the Royal College of Dental Surgeons. The Director took part in the Dental Health Education Week held in Peterborough and District, and was present at the Fall Fairs at Beaverton and Norwood where there were dental health exhibits. Dental survey charts for the use of the dentists, and dental health education booklets for teachers, children and nurses, have been distributed upon request.

The amount of money expended on grants for school dental services was considerably greater than the preceding year. Some of the existing clinics extended their service, and the following new clinics became eligible for grant: Brampton, North Bay, Ops Township and East Wawanosh Township.

Regular inspection and consultive service have been given to the dental clinics in the various Ontario Hospitals and the Central Laboratory. This Division also acted in an advisory capacity to the dental clinics maintained in the Prison and Reform Institutions and in Sanatoria. The Central Laboratory handled an increased volume of prosthetic work during the year. There were no personnel changes in the hospitals dental staff.

The dental car made stops at forty-one places along the C.P.R. line; in Algoma at the beginning of the year, later moving to the Kenora and Rainy River districts. The records show 1,728 school children were given dental attention.

The number of accounts submitted under the plan of emergent dental treatment for relief recipients, administered by this Division, was somewhat in excess of the previous year.

The Division cooperated with the National Research Council and the Dental Division of the Department of National Health and Welfare in planning a survey programme to assess the influence of artificial fluorination of municipal water supplies on the incidence of dental caries. Arrangements have been made with Brantford City and two control centres—Sarnia, which has fluorine-free water, and Stratford, with a natural fluorine content of approximately 1 part per million.

## DIVISION OF EPIDEMIOLOGY

R. P. HARDMAN, M.D., D.P.H., *Epidemiologist*

As compared with recent years, the total number of communicable diseases reported during 1947 has been relatively low. Diphtheria, Influenza, Meningococcus Meningitis and Measles, as reported in the Province, have shown a downward trend. There was a reduction of over 50 per cent in the number of cases of Diphtheria during the year, as compared with 1946. Less than 700 cases of Influenza were reported for 1947. This is an all time low since 1934, for during this twelve-year period a yearly average of 4,200 cases were reported. There was also a reduction in the number of cases of Meningococcus Meningitis. The morbidity rates of this disease have not reached the pre-war level. Since 1937, no cases of Smallpox have been reported in Ontario. The morbidity rate for Typhoid Fever was 1.7. Only 74 cases were reported.

The high incidence of Poliomyelitis during 1946 continued during 1947. A total number of over 1,300 cases were reported during the two year period. However, two years of high incidence is not without precedent in this Province, for there were over 1,100 cases of this disease reported in the two years 1929-30. Areas reporting a high incidence during 1946 were comparatively free of Poliomyelitis during 1947. There was an upward trend in the number of Whooping Cough cases and deaths in 1947, as compared with the past three years. There was an increase in the number of cases of Undulant Fever. However, on analysis of the cases, it was found that about 10 per cent were cases of the chronic type, with onset prior to 1947. Eighty-five per cent of the cases resided on farms or earned their livelihood handling livestock or meat products. Over 50 per cent of the patients used raw milk or cream.

During the year, epidemiological investigations were made when requested by local Medical Officers of Health.

Late in 1947, an additional biological product, a triple antigen consisting of Diphtheria Toxoid, Tetanus Toxoid and Whooping Cough Vaccine, was added to the list of biological products distributed free to Medical Officers of Health and physicians in Ontario.

TABLE 1  
DIPHTHERIA

Year	Cases	Deaths	Morbidity Rate	Mortality Rate	Case Fatality Rate
1943	75	7	1.9	.1	9.3
1944	185	19	4.5	.2	10.2
1945	253	31	6.0	.6	12.2
1946	455	41	11.3	1.	9.
1947	227	22*	5.5	.5*	9.6

\*Tentative.



During 1947, there was a marked reduction in the incidence of Diphtheria in Ontario, as compared with 1945 and 1946. There was a decrease of over 51 per cent of the cases and 46 per cent of the deaths in 1947. Of the 49 counties and districts in Ontario, no cases were reported in 22. Of the remaining counties and districts, 15 reported one to three cases, 12 reported three or more cases. Cochrane, Carleton, Lambton, Parry Sound, Peel, Prescott and Russell, Sudbury, Thunder Bay, Waterloo, Welland and York reported five or more cases. In an analysis of the 115 cases reported in 1947, 31.2 per cent of the cases and 31.6 per cent of the deaths from Diphtheria were in the 0-4 age group. Eighty per cent of the 1947 cases had never received Diphtheria Toxoid.

While there was a marked reduction in the number of cases and deaths from Diphtheria in 1947, there was very little reduction in the case fatality rate. The case fatality rate during the past five years has been constantly high since 1943. Prior to the Province-wide adoption of Diphtheria Toxoid, high case fatality rates were usual and were attributed to the failure in administering antitoxin early in the onset of the disease. Within a period of sixteen years prior to the last war, there was only one year, 1935, when the case fatality rates were lower than 6 per 100,000.

A Province-wide reduction in the number of cases and deaths from Diphtheria has been noted since 1932, due to inoculation of susceptibles against the disease. While morbidity and mortality rates have shown a downward trend, there has been little reduction in the percentage of deaths per case.

TABLE 2  
MENINGOCOCCUS MENINGITIS

Year	Cases	Deaths	Morbidity Rate	Mortality Rate	Case Fatality Rate
1943	185	32	4.8	.8	17.2
1944	162	24	4.	.6	22.2
1945	81	11	2.	.2	13.5
1946	88	21	2.1	.5	23.8
1947	55	9*	1.6	.2*	16.3

\*Tentative.

The increase in the incidence of Meningococcus Meningitis has declined rapidly since World War II.

The trend in the morbidity rate during 1947 has not been as low since 1936. Fifty-five cases and nine deaths were reported during the year. Over 80 per cent of the cases were reported from urban municipalities. An analysis of 43 cases where age and sex were given shows that 65 per cent of the cases were in the 0-9 age group. Penicillin and Sulphadiazine combined was used in the treatment of over 85 per cent of the cases.

TABLE 3  
TYPHOID FEVER

Year	Cases	Deaths	Morbidity Rate	Mortality Rate	Case Fatality Rate
1943	60	9	1.7	.2	15.
1944	78	7	1.9	.1	8.
1945	58	4	1.5	.1	6.8
1946	84	5	2.9	.1	6.
1947	77	6*	1.7	.1*	8.1

\*Tentative.

Seventy-four cases of Typhoid Fever were reported during 1947. The morbidity rate was 1.7 per 100,000. As compared with the previous year, there was a 12 per cent reduction in the incidence. Seven cases of Typhoid were reported from a resident school for Indians at Moose Factory, Ontario. Investigation of the outbreak was carried out by the Department of Indian Affairs, Dominion Government. An outbreak of four cases of Typhoid Fever occurred in an Eastern Ontario County Health Unit following a church supper. The cause was not determined, although a search for a carrier had been carried out.

Multiple cases of Typhoid Fever occurred in four families residing in rural areas, and eight cases resulted from exposure to known cases where the first case had not been suspected. Eleven cases were traced to carriers unknown at the time of exposure of the case.

Nine Typhoid carriers and one Paratyphoid carrier were found in 1947, following an investigation of the cases. There are recorded at present fifty-one known Typhoid carriers in the various parts of the Province of Ontario.

An outbreak caused by Haemolytic Staphylococcus Aureus occurred early in January, in which 200 persons were said to have been involved. The same type strains of organism isolated were found on arms and throat swabs of the personnel.

### POLIOMYELITIS

During the past twenty years in Ontario there have been only two occasions whereupon a high incidence of Poliomyelitis has been noted in two successive years. In 1929-30 the provincial morbidity rates per 100,000 for Poliomyelitis were 16.8 and 19.8. In 1946 and 1947, the morbidity rates were 12.7 and 19.4. It is not unusual for cases of Poliomyelitis to be reported each year from cities, so counties like York, Carleton, Essex, with a high percentage of urban population report cases each year. However, high rates of over 30 per 100,000 have never occurred in two successive years in any county or district in Ontario. During the past twenty years, epidemic rates of 30 or over have been reported from 40 of the 49 counties and districts. Twenty-six of the 49 reported excessive rates, either during years of high incidence of Poliomyelitis in the Province, 1929-30, 1937, 1946-47, or years prior to or subsequent to years of high incidence. Fourteen counties reported excessively high rates on two occasions, and one reported high rates on three occasions—1930, 1937, 1946. This last county is a typical rural county. The range of years between reporting of epidemic rates was 6 to 10 year periods.

During 1947, over 808 cases of Poliomyelitis were reported in Ontario. With one exception, cases were reported from all 49 counties and districts, as shown by the morbidity rates on map 1.

High morbidity rates are shown for Frontenac (97), Lennox and Addington (44), Leeds and Grenville (30), Wentworth (34), Haliburton (68), and the District of Muskoka (46). The 1947 morbidity rates for Poliomyelitis in both Frontenac and Lennox and Addington were the highest rates ever reported for the two counties. Leeds and Grenville, Wentworth, Haliburton and Muskoka, had the highest morbidity rates reported since 1937. Although Poliomyelitis was reported in 1947 from all but one county, high county rates of 30 and over did not appear in counties or districts that had suffered from severe outbreaks during the past four or five years.

For comparative purposes, map 2 shows the morbidity rates of Poliomyelitis by years for the various counties, where rates of over 30 per 100,000 had occurred during the past five years.

In 1943, the County of Hastings suffered from an extensive outbreak of Poliomyelitis in the Trenton-Belleville area. In 1945, an outbreak of Poliomyelitis was centred in the District of Temiskaming. In 1944, outbreaks of Poliomyelitis were reported in the Huron-Perth County areas. In 1946, the counties of Carleton, Prescott and Russell, Stormont, Dundas and Glengarry, in the extreme easterly part of Ontario, experienced high morbidity rates, as well as Victoria, Peterborough, Northumberland and Durham Counties, in the central part of the Province, Lambton and Essex Counties, in the extreme westerly portion of Southern Ontario also reported an excessive number of cases in 1946.

Poliomyelitis morbidity rates are based on the number of cases reported, and both abortive and paralysed cases are included in the morbidity rates. Many municipalities in Ontario report few, if any, abortive cases. Consequently, a significant difference would appear in the rates of these municipalities reporting few abortive cases. This may account for low rates appearing in some counties for many years, while the adjacent counties, reporting a high percentage of abortive cases, shows a higher rate. As a result, morbidity rates should be interpreted with caution. In view of this, the deaths reported in Ontario for Poliomyelitis during the past five years are shown in table "A" below. Assuming an average case fatality rate for Poliomyelitis to be 5 per 100, the comparative table below shows the actual number of cases reported, the actual number of deaths, and the number of cases that could have occurred if the average fatality rate of 5 per 100 was a constant factor. The estimated number of cases applying the 5 per cent rate is purely hypothetical.

TABLE "A"

Year	Cases Reported	Deaths	Cases Estimated by Reported Deaths
1943	81	17	340
1944	333	21	420
1945	183	11	220
1946	512	33	660
1947	791	32	640

While the number of deaths for 1947 is only tentative, it is not likely that more will be reported at this date, as fairly accurate records from all hospitals have been returned. Seven hundred and ninety-one cases of Poliomyelitis were reported from the local Boards of Health, while over 810 cases were reported from hospitals, the difference being abortive type cases. The case fatality rate of Poliomyelitis, based on the 810 cases, is 3.9 per cent. This is the lowest case fatality rate experienced in Ontario to date. Of the 810 cases, 597, or 73.5 per cent, were urban, and 211, or 26.4 per cent, rural.

TABLE "B"

Age Group	1947 Cases	Percentage Distribution	1929	1930	1937	1942	1944	1946
0-4	124	15.3	27.4	23.2	25.5	27.1	19.8	23.4
5-9	221	27.5	35.1	35.3	33.6	23.8	35.5	33.2
10-14	167	20.0	21.4	18.8	20.8	25.0	19.8	20.0
15-19	107	13.2	9.8	13.2	10.1	5.4	10.5	8.
20-24	61	7.5	3.0	5.6	5.1	8.6	5.4	4.7
25-29	54	6.6	3.3	3.9	4.9	3.2	2.4	5.0
30-39	60	7.4	.....	.....	.....	4.3	2.4	3.8
40-49	12	1.5	.....	.....	.....	2.1	1.2	.6
50 plus	2	.2	.....	.....	.....	.....	2.4	.6
Total	808							

The above table shows the percentage distribution of Poliomyelitis for 1947. For comparative purposes, the percentage distribution of Poliomyelitis for five years is also shown (cases were omitted for brevity).

A marked decrease in the incidence of Poliomyelitis in the 0-4 age group is noted in the table, as compared with 1946, 1929, 1942, 1937.

The age group 5-14 in the various years show slight change.

In 1930 and 1947, the age group 15-19 is similar. However, the later age groups, 20-50, for the various years show increasing percentages since 1942 (free hospitalization). Whether this is due to better reporting, greater susceptibility of persons in the older age groups, or other factors, is not known. A careful survey would have to be made of these years regarding the percentage of patients developing the abortive or paralytic type. However, there was an increasing number of patients in the 20 and over age group with the abortive type of the disease in 1947, as compared with previous years.

Tables comprise the balance of the report.

A five-year incidence of communicable diseases, cases and deaths, as reported by the various local Boards of Health is shown in Table 4.

Table 5 shows the incidence of communicable diseases as reported by months.

Table 6 shows the geographic distribution of certain communicable diseases, by counties, including all cities and towns.

Table 7 shows the distribution of literature by the Division for the year.

The distribution of free biological products and insulin is carried out by this Division. Tables 8-11 show the distribution of Insulin. During the fiscal year, April, 1946, to March, 1947, over \$49,920.00 was spent on the distribution of free insulin to indigent patients in Ontario. A slight increase is shown in the number of patients provided with free insulin in the 1946-47 period, as compared with 1945-46.

Tables 12-20 deal with the distribution of biological products distributed to physicians and local Boards of Health in Ontario. There was an approximate increase of 20 per cent in the expenditure for insulin and biologicals during the past two years.

TABLE 4  
FIVE-YEAR INCIDENCE—REPORTED CASES AND DEATHS, ONTARIO  
1943-1947

DISEASES	1943		1944		1945		1946		1947	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	* Deaths
Actinomycosis . . . . .	2	1	2	0	0	0	0	0	2	0
Anthrax . . . . .	0	0	0	0	0	0	1	1	0	0
Meningitis (Meningococcus) . . . . .	185	32	162	24	81	11	88	21	55	12
Chickenpox . . . . .	13,026	0	14,305	1	12,494	4	13,402	0	13,189	4
Conjunctivitis . . . . .	13	0	62	0	9	0	4	0	2	0
Diphtheria . . . . .	75	6	182	11	253	24	455	41	227	14
Dysentery . . . . .	9	1	21	2	46	0	97	1	97	0
Encephalitis (Lethargica) . . . . .	5	6	2	1	2	4	6	1	5	1
Erysipelas . . . . .	64	2	76	5	56	3	65	1	44	3
Gonorrhoea . . . . .	6,543	1	6,481	0	5,640	0	6,448	0	4,701	0
Influenza . . . . .	7,312	83	4,708	91	2,374	16	1,825	27	641	15
Infectious Jaundice . . . . .	83	5	138	5	218	3	266	6	224	4
German Measles . . . . .	2,178	0	2,108	1	1,108	1	1,244	0	1,440	0
Malaria . . . . .	1	0	6	0	3	0	2	0	2	0
Measles . . . . .	28,409	5	16,882	8	8,713	3	32,917	12	7,146	5
Mumps . . . . .	27,250	0	7,016	1	5,233	0	11,615	2	17,133	1
Paratyphoid Fever . . . . .	36	2	20	1	28	0	40	0	20	1
Pneumonia (all types) . . . . .	1,214	1,709	1,051	1,660	755	1,338	592	1,565	215	610
Poliomyelitis . . . . .	81	8	333	20	183	4	512	30	792	29
Psittacosis . . . . .	0	0	0	0	0	0	0	0	1	1
Puerperal Sepsis . . . . .	4	5	1	6	0	3	0	0	0	0
Scarlet Fever . . . . .	6,857	14	7,878	14	3,684	8	3,279	7	3,281	2
Septic Sore Throat (Epidemic Type) . . . . .	170	5	67	2	75	2	110	2	53	1
Smallpox . . . . .	0	0	0	0	0	0	0	0	0	0
Syphilis . . . . .	6,975	50	5,412	67	4,222	43	4,428	34	3,268	12
Tetanus . . . . .	10	6	12	5	11	10	14	4	13	6
Trachoma . . . . .	0	0	0	0	0	0	0	0	0	0
Trichinosis . . . . .	15	1	1	0	0	0	1	0	1	0
Tuberculosis . . . . .	2,789	376	2,731	330	2,393	298	2,769	333	1,973	995
Tularemia . . . . .	3	1	3	0	0	0	1	0	2	0
Typhoid Fever . . . . .	60	9	78	0	58	4	84	5	77	4
Undulant Fever . . . . .	65	0	55	0	83	0	80	0	102	0
Whooping Cough . . . . .	6,970	24	2,952	8	2,309	5	3,181	8	4,092	17

\*Tentative figures.

TABLE 5  
MONTHLY INCIDENCE OF COMMUNICABLE DISEASES—CASES AND DEATHS—1947

DISEASES	January		February		March		April		May		June		July		August	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
Actinomycosis																
Cerebrospinal Meningitis (Meningococcus)	9	1	3	1	3	1	2		7		9	3	1	1	5	2
Chickenpox	2,042		1,374		1,771		1,100		1,328	1	1,194	1	585	1	461	
Conjunctivitis																
Diphtheria	35	4	21		19	2	10		9	2	16		9	1	17	1
Dysentery	21		19		16		4		10		4				6	
Encephalitis																
Erysipelas	6		3		8	2	4		8	1	6		1	1	1	
German Measles	99		188		320		178		248		127		41		60	
Gonorrhoea	404		382		428		317		425		313		324		437	
Infectious Jaundice	63		46		51	1	3		21		9		2	1	1	
Influenza	51		58		183	2	66		22	5	67		19	1	36	
Malaria			1													
Measles	376	1	275		646		453		1,396	1	919		504	1	262	1
Mumps	2,067		2,020		3,565		1,941		1,939		1,348		788		596	1
Paratyphoid Fever	1						3		3						2	
Pneumonia	51	160	66	116	22	120	19	51	13	52	7	25	4	22	8	22
Poliomyelitis	1		5		4				3		2		21		187	11
Scarlet Fever	401		348		429	1	295		383		215		123		101	
Septic Sore Throat			17	1	6		1		1		1		2		7	
Smallpox																
Syphilis	277	3	313	1	415		292	1	297		245	2	236		253	
Tetanus			2		1				1						2	
Tuberculosis	139	19	99	32	124	34	92	18	161	34	117	19	118	25	102	29
Tularemia																
Typhoid Fever	3		7		8		7		6	1	6		4		4	1
Undulant Fever	4		8		10		12		10		10		13		13	
Whooping Cough	352	3	357	1	480	2	256	2	472	1	319		240	1	288	4

TABLE 5—Continued  
MONTHLY INCIDENCE OF COMMUNICABLE DISEASES—CASES AND DEATHS—1947

DISEASES	September		October		November		December		1947		1946		1945	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
Actinomycosis	..	..	1	..	..	..	2	..	..	..	..	..	81	11
Cerebrospinal Meningitis (Meningococcus)	5	3	3	2	5	..	1	3	55	12	88	21	12,494	4
Chickenpox	132	399	..	..	1,327	..	1,476	1	13,189	4	13,402	..	9	..
Conjunctivitis	10	..	15	1	26	1	40	2	227	14	455	41	253	24
Diphtheria	4	..	5	..	3	..	5	..	97	..	97	1	46	..
Dysentery	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Encephalitis	1	..	..	..	..	..	..	..	..	..	..	..	..	..
Erysipelas	..	..	..	..	1	..	3	..	44	3	65	6	56	3
German Measles	26	..	35	..	70	..	48	..	1,440	..	1,244	..	1,108	1
Gonorrhoea	411	..	434	..	507	..	319	..	4,701	..	6,448	..	5,640	..
Infectious Jaundice	4	..	3	..	20	..	1	..	224	4	266	6	218	3
Influenza	65	1	14	..	26	3	34	2	641	15	1,825	27	2,374	16
Malaria	..	..	..	..	..	..	..	..	2	2	..	..	3	..
Measles	148	..	165	..	695	..	1,307	2	7,140	5	32,917	12	8,713	3
Mumps	348	..	629	..	1,263	..	629	..	17,133	1	11,615	2	5,233	..
Paratyphoid Fever	4	..	2	..	3	..	2	..	20	1	40	..	28	..
Pneumonia	5	17	6	17	8	3	6	5	215	610	592	1,565	755	1,338
Poliomyelitis	342	8	145	5	70	2	12	2	792	29	512	30	183	4
Scarlet Fever	84	1	204	..	387	..	311	..	3,281	2	3,279	7	3,684	8
Septic Sore Throat	6	..	3	..	3	..	6	..	53	1	110	2	75	2
Smallpox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Syphilis	223	1	253	..	263	3	201	1	3,268	12	4,428	34	4,222	43
Tetanus	3	..	1	..	3	..	1	..	13	6	14	4	11	10
Tuberculosis	106	22	106	22	109	29	154	26	1,973	995	2,769	333	2,393	298
Tularemia	..	..	..	..	..	..	..	..	2	..	1	..	..	..
Typhoid Fever	7	..	9	..	12	2	4	..	77	4	84	5	58	4
Undulant Fever	6	..	5	..	8	..	3	..	102	..	80	..	83	..
Whooping Cough	439	2	297	1	373	..	219	..	4,092	17	3,181	8	2,309	5

TABLE 6  
GEOGRAPHIC DISTRIBUTION OF CASES AND DEATHS, ONTARIO, 1947

COUNTY OR DISTRICT	Meningitis (Meningo- coccus)		Diphtheria		Salmonella		Poliomyelitis		Typhoid		Undulant Fever	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
Algoma.....	1	1	...	...	...	...	1	...	4	...	2	...
Brant.....	1	...	...	...	2	1	13	...	1	...	3	...
Bruce.....	3	...	...	...	2	...	2	...	2	...	3	...
Carleton.....	...	...	54	4	2	...	21	...	5	...	2	...
Cochrane.....	...	...	74	3	1	...	10	1	12	1	...	...
Dufferin.....	...	...	...	...	1	...	4	...	...	...	1	...
Elgin.....	1	...	...	...	...	...	10	9	1	...	9	...
Essex.....	4	...	1	...	...	...	23	1	2	...	3	...
Frontenac.....	1	...	...	...	...	...	57	2	2	...	...	...
Grey.....	1	...	1	...	...	...	2	1	1	1	2	...
Haldimand.....	...	...	...	...	...	...	10	...	2	...	1	...
Haliburton.....	...	...	...	...	...	...	4	...	...	...	...	...
Halton.....	...	...	...	...	...	...	10	...	1	...	2	...
Hastings.....	1	2	...	...	1	...	14	...	...	...	3	...
Huron.....	...	...	...	...	...	...	6	...	1	...	3	...
Kenora.....	1	...	12	1	...	...	3	...	...	...	3	...
Kent.....	2	...	...	...	...	...	11	1	...	...	4	...
Lambton.....	1	...	6	...	...	...	6	...	...	...	1	...
Lanark.....	...	...	...	...	...	...	4	...	...	...	1	...
Leeds and Grenville.....	...	...	1	...	...	...	17	1	1	...	4	...
Lennox and Addington.....	1	...	...	...	1	...	9	1	...	...	3	...
Lincoln.....	...	...	1	...	...	...	10	...	...	...	...	...
Manitoulin.....	...	...	...	...	...	...	22	...	...	...	...	...
Middlesex.....	...	...	...	...	1	...	11	1	...	...	6	...
Muskoka.....	...	...	...	...	...	...	1	...	...	...	...	...
Nipissing.....	...	...	5	...	...	...	1	...	5	...	...	...
Norfolk.....	1	1	...	...	...	...	11	...	...	...	1	...



TABLE 6—Continued  
GEOGRAPHIC DISTRIBUTION OF CASES AND DEATHS, ONTARIO, 1947

COUNTY OR DISTRICT	Meningitis (Meningococcus)		Diphtheria		Salmonella		Poliomyltitis		Typhoid		Undulant Fever	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
Northumberland and Durham . . . . .	...	...	...	...	...	...	...	...	...	...	...	...
Ontario . . . . .	2	...	2	...	1	...	8	2	1	1	2	...
Oxford . . . . .	...	...	...	...	...	...	20	...	1	1	5	...
Parry Sound . . . . .	...	...	2	...	...	...	10	...	...	...	3	...
Peel . . . . .	...	...	1	...	1	...	6	1	...	...	...	...
Perth . . . . .	...	...	...	...	2	...	6	1	...	...	...	...
Peterborough . . . . .	...	...	2	...	1	...	8	...	...	...	2	...
Prescott and Russell . . . . .	1	1	7	1	...	...	4	...	1	1	1	...
Prince Edward . . . . .	...	...	...	...	...	...	...	...	...	...	...	...
Rainy River . . . . .	...	...	3	...	...	...	3	...	5	...	1	...
Renfrew . . . . .	...	...	1	...	...	...	1	...	...	...	...	...
Simcoe . . . . .	1	...	1	...	2	...	7	3	...	...	...	...
Stormont, Dundas and Glengarry . . . . .	1	1	1	...	...	...	15	1	1	...	2	...
Sudbury . . . . .	...	...	16	1	...	...	9	...	7	...	3	...
Teniskaming . . . . .	...	...	...	...	...	...	10	...	2	...	...	...
Thunder Bay . . . . .	1	...	10	1	...	...	5	1	2	...	1	...
Victoria . . . . .	...	...	1	...	...	...	12	2	6	...	2	...
Waterloo . . . . .	3	...	8	...	2	...	2	...	...	...	...	...
Welland . . . . .	2	1	5	2	1	...	12	1	2	...	4	...
Wellington . . . . .	...	...	2	...	...	...	15	...	3	1	2	...
Wentworth . . . . .	3	1	1	...	1	...	4	...	1	...	2	...
York . . . . .	22	4	9	1	42	1	75	2	...	...	4	...
TOTALS . . . . .	55	12	227	14	62	2	268	6	77	4	102	...

TABLE 7  
DISTRIBUTION OF LITERATURE

The following table shows the distribution of literature by this Division during the past year.

Infectious Disease Literature	No. of Copies Distributed	Recording Forms	No. of Forms Distributed
Regulations— Physicians..... School Use.....	626 238	Diphtheria— Consent Forms..... Certificates.....	20,625 12,330
Immunization Literature..	750	Scarlet Fever— Consent Forms..... Certificates.....	5,950 2,930
Poliomyelitis Pamphlets...	800	Smallpox— Consent Forms..... Certificates.....	9,850 9,405
		Whooping Cough— Certificates.....	2,155
		Immunization Record Cards.....	13,200
Total.....	2,414	Total.....	76,445
Total—78,859			

TABLE 8  
ANNUAL DISTRIBUTION OF INSULIN FOR SHOCK THERAPY

Fiscal Year 1946-47

MONTHS	No. of Vials 1,000 Units	Cost
1946		
April.....	.....	.....
May.....	200	\$280.00
June.....	.....	.....
July.....	.....	.....
August.....	.....	.....
September.....	.....	.....
October.....	.....	.....
November.....	.....	.....
December.....	200	280.00
1947		
January.....	.....	.....
February.....	.....	.....
March.....	36	50.40
Total.....	436	\$610.40

TABLE 9  
ANNUAL DISTRIBUTION OF INSULIN BY AREA (Toronto and Province)  
Fiscal Year 1946-47

RESIDENCE OF PATIENTS REQUIRING INSULIN	Male	Female	Total
City of Toronto.....	255	647	902
Province of Ontario, exclusive of Toronto.....	831	1,639	2,470
Totals.....	1,086	2,286	3,372

TABLE 10  
ANNUAL DISTRIBUTION OF INSULIN  
Fiscal Year 1946-47

TYPE OF INSULIN	Units per Vial	No. of Vials	Cost per Vial	Total Cost
Insulin—Toronto.....	200	2,031	\$ .33	\$670.23
" ".....	400	22,038	.58	12,782.04
" ".....	800	3,087	1.12	3,457.44
" ".....	1,000	436	1.40	610.40
Protamine Zinc.....	400	38,254	.65	24,865.10
" ".....	800	6,028	1.25	7,535.00
Total.....				\$49,920.21

TABLE 11  
MONTHLY DISTRIBUTION OF INSULIN  
Fiscal Year 1946-47

MONTHS	TYPES OF INSULIN						Cost, All Types
	INSULIN-TORONTO No. of Vials Distributed				PROTAMINE ZINC INSULIN No. of Vials Distributed		
	200 Unit	400 Unit	800 Unit	1000 Unit	400 Unit	800 Unit	
1946							
April.....	75	1,954	221	...	2,896	549	\$3,974.24
May.....	237	2,249	314	200	3,586	547	5,028.96
June.....	270	2,356	225	...	3,485	510	4,610.33
July.....	87	1,443	349	...	2,949	397	3,669.63
August.....	217	1,561	264	...	3,097	557	3,981.97
September.....	174	1,712	302	...	3,439	437	4,170.22
October.....	230	1,531	249	...	3,338	445	3,968.71
November.....	192	2,098	267	...	3,510	700	4,735.74
December.....	167	1,874	228	200	3,034	522	4,301.99
1947							
January.....	112	1,755	254	...	3,085	502	3,972.09
February.....	70	2,006	175	...	2,850	387	3,718.83
March.....	200	1,499	239	36	2,985	475	3,787.50
Total.....	2,031	22,038	3,087	436	38,254	6,028	\$49,920.21

TABLE 12  
 BIOLOGICAL PRODUCTS—MONTHLY DISTRIBUTION  
 Fiscal Year 1946-47

MONTH		DIPHTHERIA ANTITOXIN									
		1M Units Vials	Cost	10M Units Vials	Cost	20M Units Vials	Cost	40M Units Vials	Cost	Syrin- ges	Cost
1946											
April	219	\$ 30.66	83	\$ 99.60	163	\$391.20	95	\$456.00	25	\$ 5.00	
May	488	68.32	124	148.80	189	453.60	97	465.60	25	5.00	
June	329	46.06	235	282.00	202	484.80	97	465.60	25	10.40	
July	327	45.78	101	121.20	167	400.80	44	211.20	52	10.40	
August	269	37.66	137	164.40	148	355.20	145	696.00	2	.40	
September	280	39.20	220	264.00	175	420.00	139	667.20	..	..	
October	294	41.16	110	132.00	191	458.40	167	801.60	50	10.00	
November	229	32.06	108	129.60	187	448.80	187	897.60	..	..	
December	326	45.64	173	207.60	142	340.80	126	604.80	25	5.00	
1947											
January	248	34.72	187	224.40	198	475.20	118	566.40	..	..	
February	261	36.54	106	127.20	154	369.60	222	1,065.60	50	10.00	
March	161	22.54	49	58.80	71	170.40	34	163.20	..	..	
TOTALS	3,431	\$480.34	1,633	\$1,959.60	1,987	\$4,768.80	1,471	\$7,060.80	229	\$45.80	

TABLE 12—Continued  
 BIOLOGICAL PRODUCTS—MONTHLY DISTRIBUTION

MONTH	DIPHTHERIA TOXOID													
	Schick Test		For One Person		One (3cc) Ampoules		Six (3cc) Ampoules		Six (6cc) Ampoules		Diluted		Reaction Test	
	Pkgs.	Cost	Pkgs.	Cost	Pkgs.	Cost	Pkgs.	Cost	Pkgs.	Cost	Pkgs.	Cost	Pkgs.	Cost
1946														
April	420	\$105.00	1,796	\$493.90	66	\$ 13.86	99	\$110.88	652	\$1,141.00	69	\$ 17.25	25	\$ 2.50
May	462	115.50	1,418	389.95	11	2.31	115	128.80	478	836.50	60	15.00	55	5.50
June	492	123.00	1,502	413.05	31	6.51	58	64.96	125	218.75	55	13.75	83	8.30
July	277	69.25	1,020	280.50	18	3.78	26	29.12	71	124.25	12	3.00	15	1.50
August	478	119.50	1,651	454.03	104	21.84	105	117.60	242	423.50	73	18.25	55	5.50
September	579	144.75	1,788	491.70	33	6.93	235	263.20	667	1,167.25	154	38.50	331	33.10
October	615	153.75	2,097	576.68	41	8.61	176	197.12	1,186	2,075.50	74	18.50	181	18.10
November	643	160.75	1,657	455.68	143	30.03	157	175.84	523	915.25	78	19.50	135	13.50
December	440	110.00	1,157	318.18	92	19.32	39	43.68	213	372.75	38	9.50	98	9.80
1947														
January	374	93.50	908	249.70	80	16.80	72	80.64	472	826.00	54	13.50	14	1.40
February	317	79.25	1,155	317.63	73	15.33	129	144.48	481	841.75	58	14.50	236	23.60
March	206	51.50	980	269.50	87	18.27	53	59.36	382	668.50	21	5.25	77	7.70
TOTALS	5,303	\$1,325.75	17,129	\$4,710.50	779	\$163.59	1,264	\$1,415.68	5,492	\$9,611.00	746	\$186.50	1,305	\$130.50

TABLE 12—Continued  
BIOLOGICAL PRODUCTS—MONTHLY DISTRIBUTION

MONTH	DIPHTHERIA TOXOID						TETANUS ANTITOXIN													
	ALUM			TOXOID WITH PERTUSSIS (Combined)			1,500 Unit Vials	Cost	10M Unit Vials	Cost	20M Unit Vials	Cost	Syringes	Cost	10M Out-fits	Cost				
	Two 1cc Ampoules		Four 6cc Ampoules	Three 2cc Ampoules		Six 6cc Ampoules														
	Pkgs.	Cost	Pkgs.	Cost	Pkgs.	Cost	Pkgs.	Cost	10M Unit Vials	Cost	20M Unit Vials	Cost	Syringes	Cost	10M Out-fits	Cost				
1946																				
April	.....	.....	3,631	\$ 2,178.60	000	\$ 2,681.55	5,722	\$ 1,659.38	69	\$ 120.75	160	\$ 520.00	100	\$ 20.00	13	\$ 27.30				
May	.....	.....	3,651	2,199.60	810	2,389.50	6,456	1,872.24	43	75.25	14	45.50	112	22.40	.....	.....				
June	.....	.....	3,509	2,159.40	357	1,053.15	8,326	2,414.54	64	112.00	41	133.25	100	20.00	2	4.20				
July	.....	.....	2,482	1,489.20	388	1,155.75	10,405	3,017.45	115	201.25	272	884.00	333	66.60	10	21.00				
August	.....	.....	3,485	2,089.00	534	1,575.30	9,488	2,751.52	79	138.25	89	289.25	177	35.40	13	27.30				
September	.....	.....	3,989	2,393.00	1,218	3,593.10	7,634	2,213.86	30	52.50	253	822.25	125	25.00	1	2.10				
October	.....	.....	5,078	3,046.80	1,732	5,109.40	7,104	2,060.16	69	120.75	55	178.75	125	25.00	4	8.40				
November	.....	.....	4,060	2,514.00	841	2,480.95	6,020	1,745.80	43	75.25	28	91.00	125	25.00	8	16.80				
December	.....	.....	3,333	1,999.80	251	740.45	4,998	1,449.42	30	52.50	47	152.75	50	10.00	7	14.70				
1947																				
January	.....	.....	3,502	2,101.20	613	1,808.35	4,794	1,390.26	19	33.25	19	61.75	75	15.00	2	4.20				
February	.....	.....	4,126	2,475.60	569	1,678.35	5,064	1,468.56	31	54.25	141	458.25	150	30.00	13	27.30				
March	.....	.....	3,321	1,992.60	742	2,188.90	4,443	1,288.47	30	52.50	37	120.25	112	22.40	13	27.30				
TOTALS	.....	.....	1	\$ .38	128	\$2,244.00	44,317	\$26,590.20	8,961	\$26,434.95	80,454	\$23,331.66	622	\$1,088.50	1,156	\$3,757.00	1,584	\$316.80	86	\$180.60

TABLE 12—Continued  
 BIOLOGICAL PRODUCTS—MONTHLY DISTRIBUTION

MONTH	SCARLET FEVER ANTITOXIN						SCARLET FEVER TOXIN						
	Prophy- lactic doses	Cost	Treat- ment doses	Cost	Syrin- ges	Cost	Dick Test	Cost	For 1 Person		For 6 Persons		
									Pkgs.	Cost	Pkgs.	Cost	
1946													
April.....	464	\$348.00	165	\$453.75	25	\$ 5.00	381	\$ 95.25	1,051	\$315.30	661	\$661.00	
May.....	655	491.25	176	484.00	75	15.00	449	112.25	1,091	327.30	515	515.00	
June.....	272	204.00	149	409.75	.....	.....	551	137.75	1,033	309.90	319	319.00	
July.....	305	228.75	110	302.50	25	5.00	308	77.00	712	213.60	236	236.00	
August.....	275	206.25	125	343.75	25	5.00	482	120.50	952	285.60	232	232.00	
September.....	348	261.00	129	354.75	50	10.00	647	161.75	1,468	440.40	1,004	1,004.00	
October.....	520	390.00	151	415.25	.....	.....	768	192.00	1,910	573.00	843	843.00	
November.....	342	256.50	200	550.00	50	10.00	650	162.50	1,597	479.10	724	724.00	
December.....	524	393.00	180	495.00	50	10.00	514	128.50	1,127	338.10	414	414.00	
1947													
January.....	427	320.25	294	808.50	50	10.00	584	146.00	770	231.00	323	323.00	
February.....	414	310.50	144	396.00	.....	.....	680	170.00	1,200	360.00	513	513.00	
March.....	574	430.50	155	426.25	100	20.00	321	80.25	1,112	333.60	478	478.00	
TOTALS.....	5,120	\$3,840.00	1,978	\$5,439.50	450	\$90.00	6,335	\$1,583.75	14,023	\$4,206.90	6,262	\$6,262.00	

TABLE 12.—Continued  
 BIOLOGICAL PRODUCTS—MONTHLY DISTRIBUTION

MONTHS	SMALLPOX VACCINE				RABIES VACCINE		PERTUSSIS VACCINE				TYPHOID VACCINE			
	1 Tube per Package		5 Tubes per Package		10 Tubes per Package		Treatment		For One Person		For Six Persons			
	Pkgs.	Cost	Pkgs.	Cost	Pkgs.	Cost	Pkgs.	Cost	3 x 2 cc Am-poules	Cost	6 x 6cc Am-poules	Cost	10cc Vials	Cost
1946														
April.....	2,382	\$214.38	791	\$185.89	2,391	\$1,075.95	12	\$ 72.00	1,322	\$495.75	104	\$197.60	446	\$160.56
May.....	2,536	228.24	974	228.89	1,581	711.45	4	24.00	1,696	636.00	116	220.40	258	92.88
June.....	2,435	219.15	889	208.92	1,092	491.40	15	90.00	1,681	630.38	85	161.50	788	283.68
July.....	1,461	131.49	599	140.77	397	178.65	.....	.....	1,286	482.25	63	119.70	706	254.16
August.....	2,546	229.14	967	227.25	1,012	455.40	1	6.00	2,019	757.13	84	159.60	353	127.08
September.....	3,145	283.05	1,223	287.41	1,917	862.65	2	12.00	1,779	667.13	274	520.60	303	109.08
October.....	2,667	240.03	1,149	270.02	2,848	1,281.60	13	78.00	2,090	783.75	268	509.20	356	128.16
November.....	1,849	166.41	810	190.35	1,796	808.20	.....	.....	1,889	708.38	309	587.10	503	181.08
December.....	999	89.91	425	99.88	624	280.80	3	18.00	1,129	423.38	27	51.30	323	116.28
1947														
January.....	1,622	145.98	570	133.95	715	321.75	4	24.00	1,509	565.88	59	112.10	229	82.44
February.....	1,703	153.27	1,005	236.18	1,630	733.50	.....	.....	1,467	550.13	131	248.90	450	54.00
March.....	1,951	175.59	594	139.59	1,523	685.35	2	12.00	1,086	407.25	90	171.00	166	59.76
TOTALS...	25,296	\$2,276.64	9,996	\$2,349.10	17,526	\$7,886.70	56	\$336.00	18,953	\$7,107.41	1,610	\$3,059.00	4,581	\$1,649.16



TABLE 13

## BIOLOGICAL PRODUCTS—ANNUAL DISTRIBUTION

Fiscal Year 1946-47

<b>DIPHTHERIA:</b>			
Antitoxin.....	3,431 x 1M units vials at.....	\$ .14 each....	\$ 480.34
	1,633 x 10M units vials at.....	1.20 each....	1,959.60
	1,987 x 20M units vials at.....	2.40 each....	4,768.80
	1,471 x 40M units vials at.....	4.80 each....	7,060.80
Total.....			\$14,269.54
Toxin for Schick Test	5,303 Outfits at.....	.25 each....	1,325.75
Toxoid.....	17,129 x 1 person packages.....	.27½ each....	4,710.50
	779 x One 3 cc ampoules packages at...	.21 each....	163.59
	1,264 x Six 3 cc ampoules packages at...	1.12 each....	1,415.68
	5,492 x Six 6 cc ampoules packages at...	1.75 each....	9,611.00
	1,305 Reaction Test ampoules at.....	.10 each....	130.50
	746 Diluted for Reactors packages at...	.25 each....	186.50
	1 Alum 2 x 1 cc ampoules packages at	.37½ each....	.38
	128 Alum 4 x 6 cc ampoules packages at	1.75 each....	224.00
Total.....			\$17,767.90
<b>TOXOID WITH PERTUSSIS:</b>			
(Combined).....	44,317 Three 2 cc ampoules packages at...	\$ .60 each....	\$26,590.20
	8,961 Six 6 cc ampoules packages at.....	2.95 each....	26,434.95
Total.....			\$53,025.15
<b>TETANUS:</b>			
Antitoxin.....	80,454 x 1,500 units vials at.....	\$ .29 each....	\$23,331.66
	622 x 10,000 units vials at.....	1.75 each....	1,088.50
	1,156 x 20,000 units vials at.....	3.25 each....	3,757.00
Intraspinal Outfits...	86 x 10,000 units with outfits at.....	2.10 each....	180.60
Total.....			\$28,357.76
<b>SCARLET FEVER:</b>			
Antitoxin.....	5,120 Prophylactic doses at.....	\$ .75 each....	\$ 3,840.00
	1,978 Treatment doses at.....	2.75 each....	5,439.50
Total.....			\$ 9,279.50
Toxin for Dick Test..	6,335 Outfits at.....	.25 each....	\$ 1,583.75
Toxin.....	14,023 x 1 Person packages at.....	.30 each....	4,206.90
	6,262 x 6 Person packages at.....	1.00 each....	6,262.00
Total.....			\$12,052.65
<b>SMALLPOX:</b>			
Vaccine.....	25,296 x 1-point packages at.....	\$ .09 each....	\$ 2,276.64
	9,996 x 5-point packages at.....	.23½ each....	2,349.10
	17,526 x 10-point packages at.....	.45 each....	7,886.70
Total.....			\$12,512.44
<b>RABIES:</b>			
Vaccine.....	56 Treatments at.....	\$6.00 each....	\$ 336.00
<b>PERTUSSIS:</b>			
Vaccine.....	18,953 x Three 2 cc ampoules packages at \$	.37½ each... \$	7,107.41
	1,610 x Six 6 cc ampoules packages at...	1.90 each....	3,059.00
Total.....			\$10,166.41
<b>TYPHOID-PARATYPHOID:</b>			
Vaccine.....	4,581 10 cc vials at.....	\$ .36 each....	\$ 1,649.16

TABLE 14  
 BIOLOGICAL PRODUCTS AND INSULIN—Continued  
 Fiscal Year 1946-47

SUMMARY OF ANNUAL DISTRIBUTION	Costs
Diphtheria Products.....	\$ 32,037.44
Diphtheria Toxoid and Pertussis Vaccine (Comb.).....	53,025.15
Tetanus Products.....	28,357.76
Scarlet Fever Products.....	21,332.15
Smallpox Vaccine.....	12,512.44
Rabies Vaccine.....	336.00
Pertussis Vaccine.....	10,166.41
Typhoid-paratyphoid Vaccine.....	1,649.16
Syringes.....	452.60
Cost of Biological Products and Syringes.....	\$159,869.11
Less Sale of Syringes (\$452.60)—NET COST.....	159,416.51

TABLE 15  
 SUMMARY OF ANNUAL DISTRIBUTION  
 Fiscal Year 1946-47

PRODUCT	Costs
Biological Products—Gross Cost.....	\$ 159,869.11
Insulin—All types—Cost.....	49,920.21
Total Cost.....	\$ 209,789.32
Less Sale of Biological Syringes.....	452.60
Net Cost.....	\$ 209,336.72

TABLE 16  
COMPARATIVE STATEMENT OF COSTS—1946-47

COSTS OF DISTRIBUTION BY FISCAL YEARS			1946-47 Increase or Decrease over 1945-46
A. Biological Products.....	1945-46	1946-47	
(a) ACTIVE IMMUNIZATION:			
Diphtheria Toxoid.....	\$ 18,432.16	\$ 17,767.90	\$ 664.26 D
Diphtheria Toxoid with Pertussis Vaccine (comb.).....	42,604.10	53,025.15	10,421.05 I
Scarlet Fever Toxin.....	12,310.70	12,052.65	258.05 D
Smallpox Vaccine.....	9,466.70	12,512.44	3,045.74 I
Pertussis Vaccine.....	9,829.54	10,166.41	336.87 I
Rabies Vaccine.....	792.00	336.00	456.00 D
T. A. B. Vaccine.....	1,456.20	1,649.16	192.96 I
Total.....	\$ 94,891.40	\$ 107,509.71	\$ 12,618.31 I
(b) PASSIVE IMMUNIZATION:			
1. Prophylactic size package—			
Diphtheria Antitoxin.....	\$ 391.44	\$ 480.34	\$ 88.90 I
Tetanus Antitoxin.....	18,033.07	23,331.66	5,298.59 I
Scarlet Fever Antitoxin.....	3,093.75	3,840.00	746.25 I
Anti-Measles Serum.....	50.00	.....	50.00 D
Total.....	\$ 21,568.26	\$ 27,652.00	\$ 6,083.74 I
2. Treatment size package—			
Diphtheria Antitoxin.....	\$ 9,679.20	\$ 13,789.20	\$ 4,110.00 I
Tetanus Antitoxin.....	5,318.30	5,026.10	292.20 D
Scarlet Fever Antitoxin.....	6,143.50	5,439.50	704.00 D
Total.....	\$ 21,141.00	\$ 24,254.80	\$ 3,113.80 I
Syringes.....	387.40	452.60	65.20 I
Total.....	\$137,988.06	\$159,869.11	\$ 21,881.05 I
Insulin.....	\$ 49,573.28	\$ 49,920.21	\$ 346.93 I
Biological Products and Insulin— Total Cost.....	\$187,561.34	\$209,789.32	\$ 22,227.98 I

D—Decrease. I—Increase.

TABLE 17  
ANNUAL DISTRIBUTION OF TUBERCULIN  
(Calendar Year-1947)

Private physicians supplied with tuberculin.....	495
Hospitals supplied with tuberculin.....	109
Provincial Branch Laboratories supplied with tuberculin.....	7
Provincial Travel Clinics supplied with tuberculin.....	5
Miscellaneous—Schools, Industries, etc., supplied with tuberculin.....	15

TABLE 18  
ANNUAL DISTRIBUTION OF TUBERCULIN—BY AMOUNTS DISTRIBUTED  
Calendar Year—1947

TYPE	1cc Vials		5cc Vials		Total	
	No. of Vials	Contents (cc)	No. of Vials	Contents (cc)	No. of Vials	Contents (cc)
1 Solution .....	3,718	3,718	2,535	12,675	6,253	16,393
2 Solution .....	1,029	1,029	.....	.....	1,029	1,029
Total .....	4,747	4,747	2,535	12,675	7,282	17,422

TABLE 19  
ANNUAL DISTRIBUTION OF TUBERCULIN—BY COSTS  
Calendar Year—1947

TYPE	No. of Vials	Cost per Vial	Total Cost
No. 1 Sol. (1cc) .....	3,718	\$ .30	\$1,115.40
No. 1 Sol. (5cc) .....	2,535	.95	2,408.25
No. 2 Sol. (1cc) .....	1,029	.35	360.15
Totals .....	.....	.....	\$3,883.80

TABLE 20  
COMPARATIVE STATEMENT—TUBERCULIN DISTRIBUTION AND COST  
1946-1947

TYPE	1946		1947		Increase or Decrease Cost
	Vials	Cost	Vials	Cost	
No. 1 Sol. (1cc) .....	2,737	\$ 821.10	3,718	\$1,115.40	\$294.30 I
No. 1 Sol. (5cc) .....	2,045	1,942.75	2,535	2,408.25	465.50 I
No. 2 Sol. (1cc) .....	723	253.05	1,029	360.15	107.10 I
Total .....	.....	\$3,016.90	.....	\$3,883.80	\$866.90 I

D—Decrease. I—Increase.

## DIVISION OF INDUSTRIAL HYGIENE

J. G. CUNNINGHAM, M.B., D.P.H., *Director*

## OCCUPATIONAL DISEASES

The work of the Division in the control of occupational diseases takes account of small continued exposures to dangerous materials which produce ill health without necessarily resulting in frank cases of poisoning. The thoughtless use of known poisons for new purposes or defective maintenance in known exposures and the constant introduction of new materials in industrial processes contribute to the number of cases while extensive current literature reporting results of research and field experience and the growing interest of employers and employees help to control these conditions.

The Division has technical staff to assist industry with such problems, a fact which is not as well known in industry as it should be—chemists to identify materials causing harmful exposures, engineers to assess and improve mechanical measures for the control of dust and fumes and physicians to evaluate hazards and assist in their control.

The Industrial Hygiene Laboratory analyzed about 500 samples from 175 companies to determine the main constituents and their proportions in raw materials or in the atmosphere where the hazard was suspected. Some of these were carried out in great detail. Nearly 600 visits were made for special purposes from the investigation of silica exposures in foundries to the control of vibration from pneumatic tools. There has been constant review, with officials of the Labour Department, of plans submitted under The Factory Act, covering new construction in industry and often extending to the installation of equipment for process requiring dust and fume control.

Arrangements for measuring the value of improvements as a result of engineering installations have been extended late in the year. Equipment for exhaust ventilation is still scarce. Four foundries have been studied in some detail apart from general recommendations for dust control. Plans for dust control in elevators have been reviewed to meet new regulations under The Factory Act. Existing codes containing recommendations for the guidance of industry in the installation of local exhaust vent have been reviewed. From these and local experience two such codes have been prepared for consideration—those for grinding, buffing and polishing of metal and for wood working.

From various sources there have been about 30,000 examinations, most of them using 70 millimeter chest x-ray equipment. Of 25,000 in this group employed in industry where a silica hazard is present, there have been 6,500 actually exposed in whom there were 6 cases (.092%) of active tuberculosis, 8 cases (.122%) of doubtful activity, 43 cases (.66%) of uncomplicated silicosis and 34 cases (.520%) of silicosis with tuberculosis. Compared with the group of 25,000 as a whole, the number of active tuberculosis cases was the same but the total number of tuberculosis cases was almost twice as high in the group exposed to silica. In the larger group there were 19 cases sent to Sanatorium immediately, 7 of them with positive sputum. Reference should be made to conditions, other

than pulmonary tuberculosis, which are drawn to the attention of the plant physician for further consideration, particularly abnormal heart shadows, present to the extent of 1.15% of those examined.

Lead and Silica remain the most important industrial exposures with a great variety of others in a less degree. Under the provisions of The Factory Act, twenty companies provided reports on periodic examination of workers exposed to lead and eleven to benzol, while sixty-four additional plants and one hundred and ten physicians took advantage of blood smear examinations provided by the Department for workers exposed to lead. Tests made at a boring operation on a copper lead alloy showed lead dust in air in hazardous amounts contrary to expectations. This may have been due to a new type of cutting tool generating higher temperature and releasing lead. Special consideration has been given to certain hazards.

#### *Artificial Abrasive Manufacture:*

Four companies engaged in the manufacture of artificial abrasives have been required to carry out every six months physical examination with emphasis on the chest and blood, for furnace men and others who may be exposed to the fumes from electric furnaces. Lung changes have been produced considered to be associated mainly with increased exposure due to maximum production for war purposes. Research on this problem is being conducted here, in Great Britain and in the United States. The criteria for diagnosis of the condition, particularly in its early stages, have had to be worked out here and this has been the subject of a report published by Shaver and Riddell in the *Journal of Industrial Hygiene and Toxicology*. The chemical determinations on the raw materials, fumes and biological material have been the subject of another report by Jephcott, Johnston and Finlay to be published shortly. The ventilation of electric furnaces generally presents a special problem which is receiving more widespread attention recently.

#### *Radioactive Substances:*

Installations of x-ray equipment and radium in industry for testing castings and welds have been checked to prevent exposure of operators. The trend toward new uses of radium has been observed, to avoid unnecessary exposure. These have not been important as yet—one of them has to do with the elimination of static electricity on paper presses. Detailed supervision of working environment has been applied to the refining of radium. Periodic physical examination including blood examination, Geiger-Mueller and breath tests have been applied as indicated.

Equipment for the measurement of radon in the expired air of workmen and in the vicinity of processes involving exposure to radiation has been developed to avoid sending breath samples out of the country for examination. The difficulties encountered have involved the Division in a problem in research. The indications are that this equipment will be available shortly.

#### *Mercury:*

The hazard from mercury is not common in industry but it has been the subject this year of enquiry in its use for electrical contact for testing equipment. All exposed showed two to six times the normal amount of mercury in urine and minor changes in the differential blood count but no clinical evidence of poisoning.

Contamination of the work area with mercury rather than the direct exposure was important since tests of air made after thorough cleaning showed concentrations below the allowable limit.

*Nitrobenzene and Aniline:*

Materials containing nitrobenzene and aniline for use in cleaning type have been encountered, producing ill effects due to the absorption of these materials through the skin. This is one instance in which substitution of materials has been advised and accepted.

*Carbon Monoxide:*

A study was made of concentrations of carbon monoxide in twenty-seven garages of all sizes. The exposure seldom exceeded one hundred parts per million in air (the allowable concentration) but it is appreciated that the results of tests depend almost entirely on the care which is taken in operating cars in enclosed spaces. The conditions are improved where general ventilation systems have been installed, particularly if they are supplemented with attachable flexible tubing to carry exhaust fumes out of doors. In small garages, some judgment in operating cars and the use of unit heaters and flexible hose equipment will control the hazard.

*Beryllium:*

Certain Beryllium compounds have received a good deal of attention in the United States because of a lung condition which has been reported, particularly in the refining of the metal and in the use of some of its salts. The use of beryllium compounds in Ontario is very restricted. In the group of workmen examined here there has been no evidence of trouble and little opportunity for exposure where it is known to be used.

*Undulant Fever:*

Serological examinations were carried out on a group of workers on the beef killing floor of a large abattoir. The results suggest that most new employees become infected with *Brucella Abortus* within two years of starting this work. The blood tests are positive for some months or years after infection and then decline, suggesting that the immune substances disappear although there is no evidence of second attacks in long-term workers.

*Dermatitis:*

About 5,000 claims received by the Workmen's Compensation Board for skin conditions have been reviewed to determine the extent to which they are of occupational origin and to detect any concentration of cases to which control might be applied. These cases are widespread in origin, both geographically and in respect to industrial process. There have been very few instances in which more than one or two cases have been reported from the same source. One of these was a group of twenty-eight cases of "chloracne" in men exposed to halowax in splicing coated wire. None of these men suffered systemic effects. Another was a group of twenty cases in the manufacture of wallpaper using 4 chloro 2-phenyl phenol. In both cases substitution of materials was made with no recurrence of cases.

*Silicosis:*

Consideration has been given to legislation requiring the periodic physical examination of workers exposed to silica dust in foundries, porcelain manufacture, granite cutting and other such operations, comparable to that now existing in The Mining Act for underground workers. In the meantime the attempt has been made to carry out some of these examinations on a voluntary basis. It appears that with present facilities these groups can be covered in about eighteen months. This year one hundred and thirty-two visits have been made to plants arranging for such examinations and the clinic has been set up seventy-five times. In fourteen instances requests have been made for deferment for various reasons but in only one case has the employer refused the examinations. Both employers and employees have co-operated satisfactorily in this endeavour, which is directed to the control of tuberculosis in those exposed to silica dust, to preventing aggravation of existing physical defects by such exposure and to providing suitable advice regarding employment to those who have contracted silicosis.

About six hundred claimants for Workmen's Compensation for silicosis have been examined and x-ray films from four hundred other workmen from other provinces have been referred here for interpretation.

*Ready Reference for Occupational Diseases:*

A small publication prepared by the Division some years ago, summarizing the main occupational hazards and the signs and symptoms encountered, is out of print. Arrangements were made that an enlarged publication of the same type be prepared jointly with the Industrial Health Division of the Dominion Department of National Health and Welfare to be printed and distributed by them. This material will be available shortly.



## ANALYSES AND FACTORY VISITS FOR LABORATORY ENQUIRY

TYPE OF INDUSTRY	No. of Samples	No. of Companies	INSPECTIONS		HAZARD
			No. of Visits	No. of Companies	
Abrasive.....	67	10	6	6	Silica.
Aircraft.....	3	1	...	...	Skin irritant, solvents.
Automobile.....	9	3	...	...	Lead, mercury, solvents.
Battery.....	5	2	1	1	Lead.
Boot and Shoe.....	3	3	...	...	Benzol, solvents, methyl hydrate.
Chemical.....	14	4	...	...	Alkali, acid, solvents, arsenic.
Clothing.....	7	4	1	1	Benzol, solvents, chlorinated hydrocarbons, silica.
Electrical Equipment.....	28	6	3	3	Lead, carbon monoxide, silica, mercury, chlorinated hydrocarbons.
Electro Plating.....	12	4	1	1	Lead, chromium, skin irritant, solvents.
Food and Food Treatment	2	2	1	1	Lead.
Foundry and Foundry Supply.....	27	15	1	1	Silica, lead, zinc.
Furniture.....	14	9	...	...	Benzol, toluol, methyl hydrate, lead, silica, acid, alkali.
Garage.....	100	20	25	19	Carbon monoxide, methyl hydrate, toluol.
Glass.....	1	1	1	1	Hydrofluoric acid.
Machinery.....	9	5	3	3	Silica, nitrogen oxides, carbon monoxide, lead, benzol, solvents, alkali.
Metallurgical.....	13	9	2	2	Lead, toluol, ammonium chloride.
Metal Refining.....	10	5	...	...	Arsenic, lead.
Mines and Quarries.....	49	40	1	1	Silica, arsenic.
Oil.....	10	5	1	1	Lead, benzol, chlorinated hydrocarbons, carbon monoxide.
Paints and Painting.....	7	7	...	...	Lead, alkali.
Paper.....	6	4	...	...	Benzol, toluol, nitrobenzene, petroleum, chlorinated hydrocarbon.
Plastics.....	2	2	...	...	Solvents, cadmium.
Printing.....	16	6	...	...	Methyl hydrate, acid, alkali, chromic acid, benzol, lead, solvents.
Rubber.....	3	3	...	...	Benzol, silica.
Shipbuilding.....	2	2	...	...	Lead.
Textile.....	1	1	...	...	Benzol.
Miscellaneous.....	60	...	...	...	Lead, mercury, arsenic, silica, iron, skin irritant.
Total.....	480	176	47	41	

## INDUSTRIAL HEALTH SERVICES

The development of health services within industry for which no legislation exists and which depends upon the initiative of the employer has been slow, probably due to failure to present the case adequately. Contacts made in

dealing with occupational diseases have been used for this purpose as well as meetings with employers, and to a less extent, with employees. The contribution which health services can make to improved industrial relations as well as to health, warrants the attention of the manufacturing group. Those industries which have established them use the facilities of the Division for the investigation of special health problems, for the details of organization and operation of these services, including record-keeping, for securing adequately trained staff and for health literature. Application to small factories is made by setting up services for groups of plants or through part-time physician and nursing service. In this connection the Victorian Order of Nurses now has arrangements with nineteen plants for nursing service within the plant at specified hours during the day.

The training of medical personnel for this work, as far as nurses are concerned, has taken the form of another Refresher Course, this time presented by the School of Nursing at the University of Toronto at which one hundred and twenty-three nurses attended. In most cases the employer met all expenses involved. A group of eight nurses taking the training in public health chose an option in industrial nursing for part of this training. Various other groups of nurses have been addressed by the Consulting Industrial Nurse of the Division on this subject.

The Health Centre operated by the Government for the maintenance of the health of Civil Servants is an example of what should be widespread in industry. Here employees receive physical examination—are encouraged to report even minor complaints of ill health, which are investigated and the patient reassured or referred to the family physician. They are advised on measures intended to keep them well. The Division provides chest x-ray for new employees and for sick employees where it is indicated. In the past year these examinations have detected ten active cases of tuberculosis requiring Sanatorium treatment.

Material on various phases of Industrial Hygiene has been presented at a Symposium on Industrial Diseases at Saranac Lake; The Local Metal Trades Council; The Granite Cutters Union; University of Western Ontario; Toronto University; Employers at Brampton; The Accident Prevention Association at Carlton College, Ottawa; The Chemical Institute; Canadian Chemistry and Process Industries and the Canadian Public Health Association; Ontario Crop Improvement Association; Canadian Association of Physicians; Canadian Electric Code Committee.

#### *Radium and X-Ray for Cancer:*

The Department has been represented on the Cancer Foundation and its Advisory Medical Board. The Foundation issues an Annual Report. This year the annual grants made by the Government to seven treatment centres amounting to \$113,500.00 have been paid to the Foundation for distribution to the clinics rather than being paid directly.

The Department has supplied these clinics from its radon plant, seeds used in treatment as follows:

## ANNUAL CONSUMPTION OF RADON, 1947

Centre	Orders	Seeds	Milli-curies	% M.C.'s of Total
Toronto General Hospital.....	149	4,398	3,808.15	45.00
Kingston General Hospital.....	42	381	413.32	4.88
Hamilton General Hospital.....	36	255	268.92	3.18
Ottawa Civic Hospital.....	162	1,042	1,031.45	12.19
London Victoria Hospital.....	72	1,872	1,857.00	21.94
Windsor Metropolitan Hospital.....	18	184	191.30	2.26
Ottawa General Hospital.....	23	370	395.09	4.66
Other.....	94	745	498.47	5.89
TOTALS.....	596	9,247	8,463.70	100.00

This year 100 mgs. of radium were added to the plant to make a total of 395 mgs. This involved some major changes and emphasized the fact that this equipment is now fifteen years old and must soon be replaced. Additional provision has been made for the protection of the operator.

Calibrations of x-ray equipment were made at eight centres including five of the Cancer Clinics. Plans for x-ray installations in hospitals submitted to the Hospital Division for review are referred to the Physicists of this Division in special cases.

Assistance was given in two cases using the Geiger-Mueller counter where small quantities of hospital-owned radium was lost.

#### *Cyanide Fumigation:*

Under the Act and Regulations regarding the use of cyanide compounds for fumigation of premises there were issued during 1947 one new license for household and three new licenses for commercial fumigation. There were twenty-six renewals for household and twenty renewals for commercial fumigation. Judging by the number of permits issued by the Toronto Department of Health there has been a substantial decrease in the use of cyanide compounds for this purpose. There were two hundred and seventeen such permits issued for 1947 compared with fifteen hundred in 1943.

The attention of Medical Officers of Health has been drawn to the fact that the regulations may be applied to other designated materials used for fumigation and that Methyl Bromide is one of these.

The development of new materials for the extermination of pests has been partly responsible for a request from the Canadian Pest Control Association that all pest extermination be made subject to regulation. No decision has been reached.

#### *Bedding Regulations:*

About twenty-five hundred articles coming under the regulations have been placed off-sale, mostly due to failure to label them. The arrangements whereby local municipalities assist with the inspections have been considerably extended. The municipal inspectors detect the goods which have not been labelled and conduct follow-up visits, while the provincial inspectors procure samples for testing. The test itself is carried out at the Provincial Laboratory. There were

one hundred and seventy such samples, one-half of them containing used material and therefore mislabelled. Nearly one-half of the samples tested and over ninety per cent of those mislabelled were from goods manufactured outside the Province.

There were eighteen hundred inspections—twenty-five per cent to manufacturers, fifty per cent to retailers, five per cent to suppliers and twenty per cent to renovators and a small miscellaneous group.

No charges have been laid under these regulations in the past year.

The availability of suitable cloth for labels did improve but again presents some difficulty.

Manufacturers and retailers in Ontario have uniformly supported the regulations.

### SANITATION OF CAMPS AND MEDICAL CARE OF EMPLOYEES IN UNORGANIZED TERRITORY

Amendments to the requirements for the sanitation of camps have been under consideration. These requirements are being limited to provisions which may be reasonably considered to have a direct bearing on health and omit those which might be desirable on aesthetic grounds. A number of companies have established camps which provide much beyond anything required by regulation and with the present tendency towards centralization which comes with improved transportation, such camps are more numerous. It is desirable that the contract physician be relieved of the requirements for camp inspection for sanitation purposes and that the present inspection staff of the Department do this work.

There are established communities in unorganized territory to which the regulations regarding medical care of employees apply in spite of the fact that all ordinary facilities for medical care are available anyway, that is, they have outgrown the need for the medical contract system. Although there are certain defects in it the system, or some modification of it, seems necessary for camps at a distance from medical care. Despite the considerable increase in cost of medical care in recent years the maximum which may be deducted from wages for this purpose has remained at one dollar per man per month for thirty years.

The Report of the Chief Sanitary Inspector follows.

### ANNUAL REPORT OF THE CHIEF SANITARY INSPECTOR, 1947

In view of the shortages in raw and manufactured material and the dearth of experienced workmen for Northern Ontario industrial camps, the larger operators have made some progress in providing more permanent employment for experienced workmen, thus eliminating as far as possible large groups of workmen employed for short durations on seasonal employment on woods operations.

In keeping with other industries and conforming with the Government policy of improving methods of lumber and pulpwood operations and employment of labour, the larger operators are encouraged to establish small townsites or community settlements where the families of workmen can be economically housed at reasonable distance from the woods camp operations.

The centralizing of company headquarter offices at the point of operations and the development of small company-controlled community centres for the workmen and their families has grown rapidly during the past year.

The general use of heavy mechanized equipment in camps having made good roads available at all seasons, combined with the two-way radio telephone systems has reduced some of the difficulties in contacting the contract doctors, and also in the transportation of sick or injured workmen to the hospital centres.

The Company executives have been very co-operative with our field staff of sanitary inspectors during the year. Requests for information and approval of small portable camps built on runners, also a large number of sectional camps which can be dismantled and easily removed to new locations, have been constructed. This type of camp is usually provided with running water supplies, central heating and ventilation systems, flush toilet systems, and sewage disposal systems, which will require close sanitary supervision by the inspectors at regular intervals during the summer and winter months.

The reports received in the central office up to December 31st show 53,007 workmen were employed in the various industrial camps during the past year which is considerably higher than at any one period for the past six years. Out of this number 40,921 were engaged in woods operations.

The following table will indicate the nature of employment and distribution of workmen employed in the various industrial camps in the territorial districts operating under the Health Regulations:

INDUSTRY	Number of Operations	Number of Camps	Number of Workmen
Lumber.....	138	302	13,096
Pulpwood.....	62	418	24,370
Sawmills.....	70	77	3,455
Mining.....	47	47	6,176
Construction.....	31	44	4,931
Railway.....	3	57	979
TOTAL.....	351	945	53,007

#### *Medical Care and Sanitary Supervision:*

It will be noted from Table Number 2 the total number of camp inspection reports received, 5,951 during the year; 1,163 inspections were made by the staff of Sanitary Inspectors and 4,788 visits made by the contract physicians.

The distance to be travelled and the time involved by the contract physicians away from their offices has reduced the number of visits for medical care which is so desirable to the employer and employees. With this in mind, some operators have made arrangements under the Regulations for a full-time resident physician at the camps' headquarters and in community centres.

The following information will indicate the number of physicians and the nature of the work involved under the Regulations during the past year:

Number of Medical and Sanitation Contracts	Number of Contract Physicians	Number of Assistant Physicians	Number of Physician's Reports Received	Number of Inspector's Reports Received
297	126	47	4,788	1,163
MEDICAL SERVICES RENDERED AS REPORTED BY THE INDUSTRIAL PHYSICIANS				
Number of Workmen Employed	Number of Workmen Requiring Treatment	Routine Physical Examinations	Communicable Diseases	Immunizations
53,007	36,374	1,291	1,816	1,559

When the contract physicians' monthly reports are received promptly by the Inspectors, they have been most helpful in the control of water supplies and camp sanitation; however, the contract physician feels his first responsibility is to the employer and to provide the necessary medical attention to the employees. The above records show a considerable reduction in the number of routine physical examinations and immunizations carried out during the past year which may be attributed to curtailment to some extent of mining operations.

#### *Lumber and Pulpwood Camps:*

Again this year it will be noted a larger number of workmen were employed, and where workmen were available, operations were extended throughout the summer months. In a survey of non-standard camps employing less than 15 workmen exclusive of foremen and clerks, there were 348 camps, employing 2,134 workmen. These small contractors, sub-contractors, and jobbers' camps have given grounds for complaints during the year regarding unsanitary living conditions. Consideration is now being given to bringing this type of operator's camps under more direct control of the Regulations.

#### *Mining and Development Camps:*

A total of 47 mining camps were in operation during the year in unorganized territory employing 6,176 workmen. The supervision required during the development stage of mines, mining townsites and communities has involved considerable time by the Inspectors to ensure sanitary water supplies and sewage disposal systems, etc., during the early stages when squatters become a problem.

#### *Construction Camps:*

During the year 44 camps were in operation for approximately 10 months, employing 4,931 workmen. Road construction camps between the Red Lake mining area and Vermillion completed operations and all camps closed down during the latter part of the year. The four Hydro development camps now operating are employing approximately 1,000 workmen in each camp located at Terrace Bay, Nipigon, Thessalon, and Ear Falls.

#### *Communicable Diseases:*

In co-operation with the Division of Venereal Disease Control 55 cases of V.D. were served with notices and were placed under treatment at approved

centres. Influenza, pneumonia, dysentery, and conjunctivitis in camps were the most prevalent causes of illness and lost time during the year. Combined with the 1,816 cases of communicable diseases reported by the contract physicians from industrial camps, 163 other cases were investigated by the Inspectors in the unorganized areas, showing a total of 1,979 cases in all.

The following Communicable Diseases were reported up to December 31st, 1947:

DISEASES	Industrial Camps	Unorganized Territory	Total
Chickenpox.....	5	7	12
Conjunctivities.....	107	...	107
Diphtheria.....	4	1	5
Dysentery (bacillary).....	251	50	301
Erysipelas.....	1	...	1
Gonorrhoea.....	39	10	49
Influenza.....	1,061	...	1,061
Jaundice (infectious).....	7	...	7
Measles.....	17	25	42
Mumps.....	55	9	64
Pneumonia.....	126	...	126
Poliomyelitis.....	...	11	11
Scarlet Fever.....	...	5	5
Septic Sore Throat.....	5	15	20
Syphilis.....	16	2	18
Tularemia.....	1	...	1
Typhoid Fever.....	6	1	7
Whooping Cough.....	...	26	26
Scabies.....	59	...	59
Pleurisy.....	16	...	16
Ringworm.....	1	...	1
Trench Mouth.....	3	...	3
Impetigo.....	36	11	47
TOTAL.....	1,816	163	1,979

#### *Health Units:*

During the year assistance has been given to the Medical Officers of Health and the Sanitary Inspectors' staff in the two health units, Timmins and Kirkland Lake areas, in the sanitary inspection of mining, lumber and other industrial camps in the unorganized townships and in municipal inspection services.

#### *Rural School Inspections:*

From our Sanitary Inspectors' reports, 163 rural school inspections have been made, followed by letters of recommendations to the local school Boards and District School Inspectors. Close co-operation in this work has developed between the representatives of the Department of Education and our District Sanitary Inspector in rural school sanitation.

#### *Tourist Camp Inspections:*

Investigations of complaints and routine sanitary inspections were made of 261 tourist camps and resorts during the months of July, August and September in the unorganized territory, covering sources of drinking water supplies, storage, and the handling of food supplies, toilet and sewage facilities.

In addition, 62 inspections were made of children's fresh air summer camps and grounds. These inspections are made on or before the Departmental licenses are issued to camp leaders under the Regulations.

*Unorganized Towns and Villages:*

There are approximately 500 unorganized towns or villages in the territorial districts without municipal organization. These villages have a population from 100 to 1,400 persons. In the sanitary supervision of these communities, public notices are sent out early each spring by the Inspectors, followed by a complete sanitary survey before the warm summer months.

The co-operation of local School Boards, Boards of Trade, and other small groups of local residents in this work has been much appreciated by our Inspection staff who have only a very limited amount of time for their work.

## REPORT OF CIVIL SERVICE HEALTH CENTRE

The activities of the Health Centre continue to expand.

During the year it was found necessary to increase our nursing staff by one. Miss Marion Kidney joined our staff in October after having spent a considerable time with the York County Health Unit.

On the 3rd February, 1947, a restroom was opened at Osgoode Hall to take care of the needs of the female members of the staff. We have been assured that this has filled a long felt need for such accommodation.

The unit in Room 366 of the main building continued to operate in spite of the fact that very few people took advantage of the service offered. Toward the end of the year, however, there was a considerable upswing to the attendance there and there seems to be justification for continuing this sub-centre.

There has been some broadening of the scope of activities. For example, routine inoculations, against typhoid, of members of the Central Laboratories' staff have been taken on. Also arrangements were completed for the examination and inoculation (against typhoid, diphtheria, as well as vaccination against smallpox) of a group of forty-three nursing assistants who are entering training for general duty. This work is in addition to our regular duties.

Considerable interest has been evinced by civil servants regarding health measures in general and concerning the prevention of the common cold in particular. There have been more enquiries regarding cancer, rheumatism and other chronic ailments. Advantage is taken of every such enquiry to further the preventive side of the work and there seems reason to feel that results are being obtained. Finally, more requests are being received for complete physical examinations and there have been instances where the individual has been sufficiently interested in a follow-up examination to enquire about an appointment rather than waiting to be advised regarding it.

Furthermore, we are pleased to note an increase in the number of enquiries dealing primarily with home conditions.

An encouraging feature is the number of requests for information concerning night classes and hobbies. Here one might mention arts and crafts in particular.

No attempt has been made to visit, at home, members of the service who have been away because of accident or illness. At the same time a number who have been confined to home or hospital over a period of time have been visited on one or more occasions. It is felt that such visits may well be continued advantageously but, of course, to a limited extent.

There seems reason to feel that the Health Centre is providing a worthwhile



service. Unfortunately, we have fallen short of our objective but it is better to set the sights too high rather than too low.

Figures for the year are attached hereto.

TOTAL VISITS TO DISPENSARY, 11,859  
MALE, 6,008. FEMALE, 5,851

	New	Repeat	Total
<b>A. OCCUPATIONAL DISEASES AND INJURIES:</b>			
1. Puncture Wounds.....	89	20	109
2. Burns.....	26	60	86
3. Abrasions, contusions and lacerations.....	281	147	428
4. Foreign body in eye.....	6	...	6
5. Eye injury and inflammation.....	2	2	4
6. Fractures and dislocations.....	6	5	11
7. Sprains and strains.....	34	26	60
8. Skin disease.....	1	2	3
9. Occupational disease.....	...	...	...
10. Hernia.....	1	...	1
11. Pyogenic infections.....	3	1	4
12. Amputations.....	...	...	...
13. Tenosynovitis.....	3	8	11
14. Infected blisters.....	...	...	...
15. Skin ulcers.....	...	...	...
16. All others.....	1	...	1
<b>TOTAL.....</b>	<b>453</b>	<b>271</b>	<b>724</b>
<b>B. NON-OCCUPATIONAL DISEASES AND INJURIES:</b>			
1. Non-industrial injuries.....	580	439	1,019
2. Skin disease.....	332	259	591
3. Pyogenic infections.....	186	299	485
4. Headache.....	168	6	174
5. Flu, colds and grippe.....	255	137	392
6. Upper respiratory.....	313	328	641
7. Lower respiratory.....	89	30	119
8. Tonsillitis and sore throat.....	386	224	610
9. Teeth and gums.....	111	39	150
10. Gastro-intestinal.....	306	69	375
11. Hernia.....	7	2	9
12. Heart.....	23	130	153
13. Circulatory.....	93	51	144
14. Genito-urinary.....	21	17	38
15. Neuralgia and rheumatic and arthritis.....	164	29	193
16. Nervousness.....	81	22	103
17. Eye.....	480	166	646
18. Ear.....	179	191	370
19. Pain in abdomen.....	15	3	18
20. Tumors.....	9	9	18
21. Communicable disease.....	6	5	11
22. Menstrual.....	138	8	146
23. Fainting.....	6	3	9
24. Fatigue.....	59	63	122
25. Loss of weight.....	6	3	9
26. Miscellaneous.....	291	290	581
27.			
28. Feet.....	59	63	122
29. Gynaecology.....	19	4	23
30. Tenosynovitis.....	8	4	12
31. Fractures and dislocations.....	11	22	33
32. Epileptiform seizures.....	6	10	16
33. Strains and sprains.....	127	42	169
34. Allergy.....	14	35	49
<b>TOTAL.....</b>	<b>4,522</b>	<b>2,995</b>	<b>7,517</b>
<b>OCCUPATIONAL AND NON-OCCUPATIONAL:</b>			
<b>TOTAL.....</b>	<b>4,975</b>	<b>3,266</b>	<b>8,241</b>

D. PHYSICAL EXAMINATIONS (Inside Staff):	M.	F.	T.
1. New Employees or Applicants.....	251	62	313
2. Staff.....	491	268	759
3. Periodic re-check.....	252	284	836
TOTAL.....	994	614	1,908

## X. Special, 232.

E. NUMBER OF EMPLOYEES CATEGORIZED:	M.	F.	T.
1. Inside Staff.....	625	258	883
2. Outside Staff.....	1,248	686	1,934
TOTAL.....	1,873	944	2,817

NUMBER OF EMPLOYEES RE-CATEGORIZED:	M.	F.	T.
1. Inside Staff.....	12	6	18
2. Outside Staff.....	210	98	308
TOTAL.....	222	104	326

## STAFF:

Inside Temporary... 38	Permanent..... 892	Rejected.....	5
Outside Temporary... 201	Permanent..... 1,694	Rejected.....	..
TOTAL..... 239	2,586		5

Not Categorized—56.

## F. DISPOSAL OF CASES:

1. Reported to W. C. B.....	18
2. Sent to Family Physician.....	387
3. Sent to Eye Specialist.....	46
4. Sent to Dentist.....	58
5. Sent to Hospital Clinic (1 emergency).....	19
6. Sent to Christie St. Hospital.....	26
7. Sent Home.....	75
8. Sent to Ear, Nose and Throat Specialist.....	23
9. Sent to Surgeon (through Family Physician).....	11
10. Seen by Doctor.....	3,956
11. Seen by Nurse only.....	6,068
12. Consultant with Specialist (Dept.).....	37
13. Infected Injuries.....	..
14. Referred to Orthopedic Specialist.....	8
15. Sent to Hospital.....	7
16. Referred to Skin Specialist.....	33
17. Sent to Gynaecologist.....	8
18. Sent to Cardiologist through Family Physician.....	2
19. Sent to Sanatorium (or home treatment) 4+6.....	10
20. Sent to Allergist (through Family Physician).....	5
21. Referred to Pediatrician.....	2
22. Referred to Speech Correction Class.....	1
23. Referred to City Public Health Nursing.....	5
24. Referred to Psychiatric O. P. D.....	2
25. Referred to Civil Service Veterans' Association (Housing Problem).....	4

## SUMMARY:

1. Occupational.....	724
2. Non-occupational.....	7,517
3. Patient Consultation (with Doctor or Nurse) 470 + 52 Special.....	522
4. Return to Work.....	3
5. Physical Examinations (inside).....	1,908
6. *Re-treatment same day.....	1,106
7. Requests for list of Family Physician.....	79
TOTAL.....	11,859

\*Re-treatment not entered as repeat visit if on same day.

X. Special Examination—Included in No. 1 or No. 2 (Request by Individual or Department). Visits to Room 366 (Unit in Main Building), 850 (from January 1 to July 12 and from November 1 to December 31).

TOTAL CASES, EXCLUSIVE OF PHYSICAL EXAMINATIONS,  
FROM DEPARTMENTS AS INDICATED, 1947

	Total Visits	Visits per Employee
Agriculture.....	198	1.42
Attorney-General.....	424	1.08
Education.....	442	1.08
Health.....	1,403	3.21
Highways.....	1,259	2.79
Insurance.....	47	.....
Labour.....	524	2.64
Lands and Forests.....	688	2.05
Legislation.....	13	.....
Lieutenant-Governor's.....	1	.....
Liquor Control Board.....	24	.....
Mines.....	210	1.73
Municipal Affairs.....	797	5.10
Planning and Development.....	78	1.21
Prime Minister's.....	14	1.55
Provincial Audit.....	171	3.28
Provincial Secretary.....	247	1.70
Public Welfare.....	587	1.70
Public Works.....	993	2.88
Reform Institutions.....	125	2.31
Travel and Publicity.....	77	2.48
Treasury.....	778	2.46
Members of Parliament.....	1	.....
Federal.....	48	.....
Civilians.....	68	.....
Cafeteria.....	69	.....
TOTAL.....	9,286	

## DIVISION OF LABORATORIES

E. L. BARTON, M.D., *Director*

During the year 1947, the Division of Laboratories underwent considerable expansion, due to the fact that four laboratories were put into full-scale operation. In March of that year, the Regional Laboratory established in the City of Windsor began to function under the direction of Mr. W. J. A. Percy. Up to the end of December this laboratory has performed 57,626 examinations. The laboratory is well equipped and the quarters are spacious. The quarters in this laboratory, as in other Regional Laboratories, are supplied by the City of Windsor. The Department supplies staff, equipment, reagents and supplies for the performance of tests. The staff of the Windsor Laboratory at the present time consists of seven staff members.

The Regional Laboratory in Kirkland Lake was opened on July 2nd, 1947, under the direction of Mr. B. M. Branscombe. This laboratory is situated in the Kirkland Lake District Hospital to serve the Kirkland-Larder Lake Health Unit. Since our Kirkland Lake laboratory is the only laboratory in that area, considerable hematology and other types of clinical pathology are carried out. There are three staff members on the Kirkland Lake staff at the present time.

On February 28th, 1947, our Subsidized Laboratory in the Kitchener-Waterloo Hospital under the direction of Dr. L. C. Fischer began full operation and on that date a demonstration was held for the Kitchener-Waterloo Medical Society.

Our Subsidized Laboratory in the Stratford General Hospital was established on a full-scale basis on May 28th, 1947. This laboratory is under the direction of Dr. S. J. C. Miller.

It was with regret that we learned of the death of Dr. N. F. W. Graham, Director of our Regional Laboratory in Sault Ste. Marie, on October 22nd, 1947. Dr. Graham first joined the Department in September, 1920, and was Director of the Sault Ste. Marie laboratory since that time. Mr. S. G. Trevor, formerly Bacteriologist of our Regional Laboratory in London, is now in charge of the Sault Ste. Marie laboratory.

Two members of the General Laboratory staff have received training in the United States during the year. Mr. J. B. Fischer, in charge of the Mycology Section of the Central Laboratory, completed successfully a course in Mycology under Dr. Norman Conant of Duke University, in July. Mr. Fischer also visited the Branch Laboratory of the New York State Department of Health in New York City, following his course at Duke University. Also, a visit was made to the Laboratories of Dr. Rhoda Benham at Columbia University. The physicians in Central Ontario have been circularized regarding the mycological service operated in the Central Laboratory and it is hoped that in the coming year this service can be extended to our Branch Laboratories on a Province-wide basis.

In September, 1947, Miss V. Crossley, in charge of our Enteric Disease section, visited the Salmonella Typing Centre under the direction of Dr. P. R.

Edwards in Lexington, Kentucky, for the purpose of reviewing recent advances in this field. Miss Crossley also spent one week at the laboratories of the Michigan State Department of Health in Lansing, Michigan, reviewing their methods for the typing of Shigellae organisms.

A service in surgical pathology was established in our Regional Laboratory, Fort William, under the direction of Dr. A. E. Allin, on April 3rd, 1947. This service was made possible by the co-operation of the municipal authorities in Fort William, in supplying additional space for laboratory quarters. This service will allow a more rapid and more efficient pathological service for the North-Western part of the province.

During the year 1947, the Division of Laboratories performed 1,260,155 examinations. This is an increase of 67,593 examinations over the Divisional total of examinations in 1946. There has been a decrease in the volume of work of some of our Regional Laboratories, but this has been due mainly to the demobilization of the Armed Forces and the establishment of new laboratories. During 1946 there were 201,730 examinations performed for the Armed Forces and even with the loss of these specimens, the Divisional volume of work has increased.

The Director of Laboratories wishes to thank the senior officers of the Department for their assistance during the year, and also the Directors and staff of Regional and Subsidized laboratories for their valuable co-operation.

The following is a summary of the work conducted in the Central Laboratory, with reports from Dr. M. C. Dinberg, Provincial Pathologist and the Directors of Subsidized and Regional Laboratories:

Table 1 shows the distribution of examinations conducted at the Regional Laboratories of this Division, along with the diagnostic outfits distributed during 1947.

TABLE 1  
VOLUME OF WORK PERFORMED BY THE REGIONAL LABORATORIES FOR THE YEAR 1947

TYPE OF SPECIMEN	Tor-onto	Fort Wil- liam	King- ston	Kirk- land Lake	London	North Bay	Ottawa	Sault Ste. Marie	Tim- mins	Wind- sor	Total
BACTERIOLOGY:											
Diphtheria—Direct Smears.....	1,654	687	14	4	604	40	3	27	313	144	3,490
Cultures.....	6,703	1,230	248	4	876	1,301	3,299	93	482	244	14,480
Virulence Tests.....	689	36	3	12	12	146	35	.....	.....	2	923
Kellogg Tests.....	16	.....	.....	.....	.....	.....	.....	.....	.....	.....	16
Streptococcal Infections—Swabs	5,883	1,328	.....	26	824	537	3,916	84	349	249	13,196
Groupings.....	465	44	.....	.....	.....	.....	.....	.....	.....	.....	509
Typings.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tuberculosis—Microscopic Smear	34,148	5,391	6,469	33	3,488	1,753	2,732	278	478	1,999	56,769
Animal Inoculation.....	1,650	314	8	218	218	44	14	2	.....	55	2,305
Cultural Examinations.....	18,970	4,632	4,614	782	782	420	282	12	407	1,554	31,673
Pneumonia—Pneumococcus Typing	216	86	1	15	15	7	3	13	.....	2	343
Animal Inoculations.....	753	12	.....	1	67	2	2	.....	.....	2	837
Miscellaneous Bacteriological Examinations	8,390	2,093	498	21	1,920	1,254	632	2,075	294	337	17,514
Spinal Fluids—Cell Counts	2,062	50	.....	7	220	76	2	21	51	5	2,494
Cultural Examinations.....	516	51	98	.....	221	83	50	19	15	27	1,080
Antibiotic Sensitivity and Levels.....	576	9	.....	.....	20	.....	.....	.....	.....	.....	605
Fungus Cultures.....	1,366	71	34	.....	22	4	523	.....	.....	113	2,133
Agglutination Tests—S. typhi H. & O.	5,222	294	616	1	1,908	262	569	35	.....	64	8,971
Typi VI.....	44	.....	.....	.....	.....	.....	.....	7	.....	.....	52
S. paratyphi A.....	2,611	147	271	1	954	131	284	24	.....	32	4,455
S. paratyphi B.....	5,222	294	542	1	1,773	262	563	24	.....	64	8,745
P. tularensis.....	2,611	147	271	1	954	131	284	24	.....	32	4,455
Brucella.....	5,222	147	287	1	954	141	328	49	.....	32	7,161
Heterophile Antibody	666	112	59	.....	163	42	79	.....	.....	5	1,126
Other Tests.....	3,657	.....	.....	.....	.....	.....	.....	.....	.....	6	3,663
Blood Cultures.....	3,514	308	228	.....	1,007	206	334	27	19	37	5,680
Feces Examinations—Cultural Examinations	2,427	509	410	.....	328	230	188	24	.....	14	4,130
Parasitic Cysts and Ova	4,703	35	241	11	153	173	902	13	.....	8	6,239
Occult Blood.....	57	61	24	3	42	17	.....	9	4	.....	219
Milk and Ice Cream—Standard Plate Counts	5,117	1,891	1,471	78	3,925	1,152	4,706	453	940	1,270	21,003
B. coli counts.....	5,314	1,119	1,026	78	2,223	1,186	4,706	.....	956	1,212	17,820
Phosphatase.....	4,233	981	999	20	2,006	885	4,627	207	117	417	14,492
Butterfat Determinations	4,730	1,004	816	44	2,318	774	4,350	283	228	383	14,930
Resazurin Tests.....	1,746	2,036	419	85	1,052	21	122	554	284	645	6,964



TABLE 1—Continued

TYPE OF SPECIMEN	Tor-onto	Fort Wil- liam	King- ston	Kirk- land Lake	London	North Bay	Ottawa	Sault Ste. Marie	Tim- mins	Wind- sor	Total
PATHOLOGY—Surgical.....	11,474	1,310			1,552		72				14,408
Autopsy.....	73	38			34		3				148
NUMBER OF EXAMINATIONS FOR THE YEAR.....	11,547	1,348			1,586		75				14,556
CHEMISTRY:											
Blood—Sugar.....	25,677	739	824	172	3,846	916	1,288	891	185	477	35,015
Non-Protein Nitrogen.....	4,188	289	289	45	657	258		115	17	136	5,705
Van den Bergh, Icterus Index.....	1,337	77	45		24	81		13		2	1,579
Phosphatase (Acid and Alkaline).....	927	88	88								1,016
Urea.....	130	226	57	1	8						425
Uric Acid.....	469	30	30		75	3		8			582
Cholesterol.....	1,598	2	339		77			3			2,019
Serum Proteins.....	508	32	103		37	1					681
Chlorides.....	159	11	7		17	4		4			202
Calcium.....	263	35	45		37			1			381
Sodium, Potassium.....	82		3								85
Creatinine.....		17			9						26
Miscellaneous.....	2,196	208	483		63	10	14	2,281	48		5,303
Waters (mineral, sanitary).....	174				27			306			507
Milk—Phosphatase.....	78										78
Liquors—Alcohols.....	1,551										1,551
Beers.....	185										185
Spirits.....	655										655
Wines.....	382										382
Coal—Calorific Value.....	124										124
Moisture.....	131										131
Ash.....	127										127
Volatile Matter.....	29										29
NUMBER OF EXAMINATIONS FOR THE YEAR.....	40,970	1,330	2,330	218	4,877	1,273	1,302	3,623	250	615	56,788
Red Blood Cell Counts.....		9		96	16	4		84	546	10	765
White Blood Cell Counts.....		11		134	14	3		89	390	10	651
Differential Leucocyte Count.....	159	43	20	35	213	84		358	509	14	1,435
Haemoglobin Estimation.....		10		113	16	3		86	678	9	915



TABLE 1—Continued

TYPE OF SPECIMEN	Tor-onto	Fort Wil- liam	King- ston	Kirk- land Lake	London	North Bay	Ottawa	Sault Ste. Marie	Tim- mins	Wind- sor	Total
Urinalysis—Routine.....	1,588			1,829	666	6	2	49	246	29	4,415
Quantitative albumin.....			10		17			1			18
Quantitative urea.....		39	27	236		12		3	1,270		1,587
Other Tests.....	52							15			67
Aschheim-Zondek Tests (Ontario Hospitals).....											
NUMBER OF EXAMINATIONS FOR THE YEAR.....	1,799	112	57	2,443	942	112	2	685	3,639	72	9,863
GRAND TOTAL OF EXAMINATIONS FOR THE YEAR.....	605,740	62,206	72,427	3,981	135,147	57,158	122,387	16,746	11,494	57,626	1,144,912
DIAGNOSTIC OUTFITS DISTRIBUTED:											
Wassermann.....	249,205	19,149	34,284	12	48,817	25,592	35,528	4,109		19,327	436,023
Gonococcus Smears.....	22,666	3,613	2,035	247	4,073	2,628	6,212	807		2,569	44,850
Non-Protein Nitrogen.....	8,750	368	524		968	409	372	214		442	12,047
Pin Worm.....	4,355	29	274		253	285	1,122	6		47	6,371
Miscellaneous—Bacteriology.....	10,311	818	708	12	1,385	964	282	270	20	225	14,995
Dark Field.....	2,557	210	39		181	258	248	17		51	3,561
Spinal Fluids.....	7,008	190	1,211		710	535	477	109		144	10,384
Gonococcus Cultures.....	2,229	736			407	1	1,217	199			4,789
Blood Cultures.....	1,212	240	221		428	113	215	59	20	23	2,531
Whole Bloods.....	3,942	79	195		703	88	331	22		45	5,405
Restaurant.....	840	23	90		558	326			185	215	2,237
Beverage Room.....	316	39	24		298	170			145		992
Pathology.....	12,862	1,951	390		1,154	397	304	528		61	17,647
Bacteriological Water Bottles—With containers.....	15,076	1,953	949	466	1,446	1,184	1,080	601	360	522	23,637
Without containers.....	5,090	5,298	1,232		3,874	1,511	1,650	4,064		2,103	24,822
Diphtheria.....	10,683	523	523	10	1,406	1,589	4,212	323	755	400	22,439
Sputum.....	41,979	4,476	6,329	4	4,860	1,401	3,073	538		2,569	65,229
Blood Sugars.....	30,345	936	1,072	48	5,054	1,011	1,583	1,331	100	967	42,447
Feces.....	6,116	419	638		446	388	447	47		39	8,540
Other Miscellaneous.....	4,785										4,785
TOTAL NUMBER OF OUTFITS DISTRIBUTED.....	440,327	43,065	50,738	799	77,021	38,850	58,353	13,244	1,585	29,749	753,731



TABLE 2—Continued

TYPE OF SPECIMEN	Belleville	Kitchener	Peterborough	St. Catharines	Stratford	Woodstock	Total
Milk and Ice Cream (continued)							
Direct Microscopic.....	49	218	.....	385	143	1,981	2,776
Other Tests.....	.....	.....	.....	.....	14	725	739
Water, Swimming Pools and Carbonated Beverages—							
Standard Plate Counts.....	772	150	15	28	30	717	73
Presumptive Test.....	.....	75	1,016	374	309	316	3,338
Confirmed Test.....	.....	.....	593	210	157	.....	1,351
Completed Test.....	.....	.....	.....	13	213	.....	226
Food Examinations.....	.....	.....	.....	.....	4	3	7
Restaurant and Beverage Room Utensils—Standard Plate Counts.....	1	113	191	.....	254	1,475	2,034
B. Coli Test.....	.....	103	10	.....	254	1,475	1,842
Sterility Tests.....	626	137	.....	4	128	.....	269
Gonorrhoea—Microscopic Smears.....	81	563	1,036	2,082	400	66	4,773
Cultural Examinations.....	.....	103	12	362	6	8	572
NUMBER OF EXAMINATIONS FOR THE YEAR.....	8,630	4,260	7,471	7,611	6,954	24,395	59,321
SYPHILIS:							
Primary—Dark Field.....	5	11	10	.....	5	.....	31
Blood Serum—P. Kahn.....	.....	5,130	4,148	7,615	2,372	.....	19,265
S. Kahn.....	.....	1,159	733	.....	1,448	.....	3,340
O. Kahn.....	.....	9	105	.....	262	.....	376
Kolmer Wassermann.....	.....	.....	.....	.....	13	.....	13
Mazzini.....	.....	.....	.....	.....	.....	.....	.....
Spinal Fluids—Kolmer Wassermann.....	.....	.....	.....	.....	.....	.....	.....
Colloidal Gold.....	.....	2	.....	.....	69	5	76
Total Protein.....	.....	.....	.....	.....	87	1	88
Globulin.....	.....	31	.....	.....	.....	9	40
Cell Count.....	83	.....	.....	.....	87	9	179
Chlorides.....	46	.....	1	.....	56	3	106
Sugar.....	61	22	1	.....	53	1	138
NUMBER OF EXAMINATIONS FOR THE YEAR.....	195	6,364	4,998	7,615	4,452	28	23,652
CHEMISTRY—Blood Sugar.....	1,696	448	827	837	542	123	4,473
NUMBER OF EXAMINATIONS FOR THE YEAR.....	1,696	448	827	837	542	123	4,473

TABLE 2—Continued

TYPE OF SPECIMEN	Belleville	Kitchener	Peterborough	St. Catharines	Stratford	Woodstock	Total
<b>CHARGE EXAMINATIONS:</b>							
Pathology—Microscopic tissue diagnosis.....	116	615	1,972	782	1,628	.....	5,113
Urine—Routine Qualitative (Microscopic and Chemical).....	569	.....	7	165	6,463	550	7,754
Routine plus Acetone and Di-acetic Acid.....	236	252	.....	2	176	37	703
Routine plus Bile.....	8	.....	.....	.....	52	28	88
Quantitative Estimation of Albumin.....	2	.....	.....	.....	33	.....	35
Quantitative Estimation of Urea.....	2	.....	.....	.....	.....	.....	2
Blood—Red Blood Cell Count.....	672	246	.....	204	303	419	1,884
White Blood Cell Count.....	743	324	.....	284	331	424	2,106
Differential Leucocytic Count.....	555	310	3	258	625	347	2,098
Haemoglobin Estimation.....	791	262	.....	473	1,138	429	3,093
Non-Protein Nitrogen Determination.....	91	23	4	136	143	18	415
Blood Creatinine.....	.....	2	21	5	9	2	39
Blood Phosphate.....	.....	.....	1	.....	3	.....	4
Blood Calcium.....	.....	.....	2	.....	3	.....	5
Blood Cholesterol.....	.....	.....	.....	.....	26	.....	26
Blood Uric Acid.....	.....	3	.....	.....	13	.....	16
Blood Chlorides.....	.....	.....	1	.....	13	.....	14
Blood—Icteric Index.....	7	19	3	8	47	7	91
Blood Urea.....	.....	.....	137	.....	.....	.....	137
Blood Sodium.....	.....	.....	.....	.....	.....	.....	.....
Serum Protein.....	.....	2	.....	.....	2	.....	4
Gastric Analysis.....	3	48	.....	61	4	.....	116
Test Meal.....	.....	2	.....	7	18	.....	27
Miscellaneous.....	.....	345	386	.....	1,071	2,265	4,067
TOTAL NUMBER FREE EXAMINATIONS.....	10,521	11,072	13,296	16,063	11,948	24,546	87,446
TOTAL NUMBER CHARGE EXAMINATIONS.....	3,795	2,453	2,537	2,385	12,101	4,526	27,797
GRAND TOTAL OF EXAMINATIONS FOR THE YEAR.....	14,316	13,525	15,833	18,448	24,049	29,072	115,243

TABLE 2—Continued

DIAGNOSTIC OUTFITS DISTRIBUTED:	Belleville	Kitchener	Peterborough	St. Catharines	Stratford	Woodstock	Total
Wassermann.....	1,811	3,688	3,888	5,687	4,112	509	19,695
Gonococcus Smears.....	426	257	1,142	1,375	960	114	4,274
Non-Protein Nitrogen.....	94	156	250	104	728	41	1,373
Pin Worm.....	32	.....	18	20	163	34	267
Miscellaneous.....	203	.....	327	235	1,400	177	2,342
Dark Field.....	23	.....	22	47	41	1	134
Spinal Fluids.....	89	.....	199	147	338	2	775
Gonococcus Cultures.....	137	24	.....	.....	49	.....	210
Blood Cultures.....	53	.....	69	43	378	19	562
Whole Bloods.....	79	.....	95	54	400	80	708
Restaurant.....	.....	38	172	.....	70	396	676
Beverage Room.....	.....	20	.....	.....	10	.....	30
Pathology.....	38	624	209	1,327	2,448	9	4,655
Bacteriological Water Bottles—With Containers.....	372	47	677	601	649	270	2,616
Without Containers.....	137	80	172	.....	319	1,298	2,006
Diphtheria.....	271	478	577	187	447	74	2,034
Sputum.....	88	29	808	221	1,268	1,695	4,109
Blood Sugars.....	459	386	819	481	955	201	3,301
Feces.....	182	.....	39	96	458	82	857
TOTAL.....	4,494	5,827	9,483	10,625	15,193	5,002	50,624

Table 2 shows the distribution of examinations conducted at the Subsidized Laboratories of this Division, along with the diagnostic outfits distributed during 1947.

## DIPHThERIA AND TUBERCULOSIS

### *Diphtheria:*

During the year 6,703 cultural examinations were performed for the isolation of *C. diphtheriae*, of which 689 revealed the presence of organisms of typical morphology. Virulence tests were performed on 447 of these cultures, some of these being from pure cultures and others from field cultures on Chocolate Tellurite slants. Table 3 indicates the distribution of the types which were found. Intermedius type continues to be the most common type in Canada.

TABLE 3  
TYPES OF *C. DIPHTHERIAE*

Intermedius	Mitis	Gravis	Not Tested	Total
95	19	42	533	689

### *Tuberculosis:*

Table 4 indicates the percentage of examinations where acid-fast bacilli resembling *M. tuberculosis* were identified on microscopic examination in sputum. 7.36 per cent of 28,009 examinations showed acid-fast organisms.

TABLE 4  
MICROSCOPIC SMEAR EXAMINATIONS FOR *M. TUBERCULOSIS*

Number Examined	Number Positive	Per Cent Positive	Number Negative	Per Cent Negative
28,009	2,060	7.36	25,949	92.64

Cultural examinations for *M. tuberculosis* totalled 18,970, of which 504 were positive after four weeks' incubation and 728 positive after eight weeks' incubation. Table 5 indicates the specimens examined, with the number of positives obtained from the various specimens.

TABLE 5  
CULTURAL EXAMINATIONS FOR M. TUBERCULOSIS

TYPE OF SPECIMEN	Number of Specimens	POSITIVE AT		Total Positive	Total Negative	Per Cent Positive
		4 Weeks	8 Weeks			
Sputa.....	13,994	376	589	965	13,029	6.89
Urine.....	1,510	40	36	76	1,434	5.03
Left Kidney.....	583	6	4	10	573	1.71
Right Kidney.....	586	1	4	5	581	0.85
Pleural Fluid.....	524	36	38	74	450	14.12
Pus.....	214	27	7	34	180	15.89
Joint Fluid.....	205	0	2	2	203	0.97
Spinal Fluid.....	3	0	0	0	3	...
Gastric Washings..	859	10	40	50	809	5.82
Miscellaneous.....	355	4	6	10	345	2.81
Glands.....	137	4	2	6	131	4.37
TOTAL.....	18,970	504	728	1,232	17,738	6.49

1,650 guinea pigs were inoculated to demonstrate the presence of M. tuberculosis. A summary of these examinations is shown in Table 6. Thirty-seven specimens proved to be positive by guinea pig inoculation that were negative on cultural examination. Sixteen specimens were positive on cultural examination and negative with animal inoculation on the first injection.

TABLE 6  
CULTURAL AND ANIMAL INOCULATION TESTS FOR M. TUBERCULOSIS

SPECIMEN	Total No. of Guinea Pigs	GUINEA PIGS		Culture Positive Pig Negative	Culture Negative Pig Positive
		Negative	Positive		
Sputa.....	30	25	5	..	..
Urine.....	378	307	71	1	13
Left Kidney...	96	81	15	..	6
Right Kidney..	90	83	7	..	4
Pleural Fluid..	490	425	65	13	10
Pus.....	90	65	25	1	1
Joint Fluid...	148	144	4	..	2
Spinal Fluid...	159	149	10	..	..
Gastric Washings.....	22	18	4	..	..
Miscellaneous..	109	103	6	1	..
Glands.....	38	31	7	..	1
TOTAL.....	1,650	1,431	219	16	37

#### Serological Section:

The serological section is still operating at Mimico. In the Central Laboratory in 1947 a total of 355,144 examinations were carried out on specimens of blood and spinal fluid. While the civilian and industrial specimens have increased considerably, there has been a marked decrease in the number of specimens received from the Armed Forces, due to demobilization. In addition to the

specimens noted in Table 1 under "Syphilis", chemical examinations are performed in the serological section, on spinal fluids. The lack of adequately-trained personnel has prevented any surveys being carried out in this section during the year. A preliminary serological survey was carried out for the Regional and Subsidized laboratories in the latter part of the year. This method of standardizing results in various laboratories will be extended in the coming year.

#### *Milk and Water Section:*

In previous years standard plate counts and *B. coli* counts were performed on raw milk specimens submitted to the laboratory. This year the routine was changed throughout the Division. The present routine consists of a Resazurin test on all specimens of raw milk submitted, and the triple reading method is used. All specimens grouped as Group 2, 3 and 4 by the Resazurin test are subjected to a microscopic examination and the report indicates the increase in either leucocytes or bacteria, or both, as found. The morphology of the bacteria present is reported. This routine on raw milk specimens gives the Medical Officers of Health and Sanitary Inspectors more useful information than the previous routine which was used.

#### *Enteric Disease Section:*

During 1947 a total of 25,036 examinations were carried out in the Enteric Disease section. 21,718 mls. of concentrated antigen for agglutination tests were prepared for use in the Enteric Disease section of the Central Laboratory and also the Branch Laboratories. 1,701 cc's of antisera for the identification of organisms of the *Salmonella* genus were produced and also 295 cc's of antisera for *Shigella* typing, making a total of 1,996 cc's of antisera.

As a result of Miss Crossley's visit to the laboratory of the Michigan State Department of Health in Lansing, Michigan, further work is being done on the typing of *Shigella* organisms.

TABLE 7  
MICROSCOPIC AGGLUTINATION TESTS

TEST	Number Positive	Number Examined
<i>S. typhi</i> "H".....	190	2,071
<i>S. typhi</i> "O".....	59	2,071
<i>S. paratyphi</i> B (specific).....	9	2,071
<i>S. paratyphi</i> B (non-specific).....	9	2,071
<i>S. paratyphi</i> A.....	...	2,071
T.A.B. reactions.....	167	2,071
<i>S. typhi</i> Vi.....	2	54
<i>Br. abortus</i> .....	127	2,611
<i>P. tularensis</i> .....	7	2,543
<i>Br. melitensis</i> .....	...	19
<i>Sh. dysenteriae</i> Shiga.....	...	38
<i>Sh. paradysenteriae</i> .....	4	38
<i>B. proteus</i> .....	...	9
<i>S. enteritidis</i> .....	...	1
Infectious mononucleosis.....	50	666
Number Positive.....	624	....
Number Negative.....	17,781	....
TOTAL NUMBER EXAMINED.....	18,405	18,405



Table 8 indicates the organisms isolated from specimens of faeces submitted. Although the total number of examinations had decreased from 1946, more pathogens were isolated from the specimens submitted.

TABLE 8  
FAECES CULTURES

ORGANISMS ISOLATED	Number Positive
<i>S. typhi</i> .....	191
<i>S. paratyphi B</i> .....	60
<i>S. typhimurium</i> .....	25
<i>S. oranienburg</i> .....	13
<i>S. newport</i> .....	3
<i>S. enteritidis</i> .....	9
<i>S. bareilly</i> .....	1
<i>S. senftenburg</i> .....	1
<i>P. morgani</i> .....	92
<i>Sh. paradysenteriae Flexner</i> .....	14
Haemolytic staphylococcus aureus.....	9
<i>Staphylococcus albus</i> .....	1
Haemolytic streptococcus.....	2
Number Positive.....	421
Number Negative.....	2,006
NUMBER EXAMINED.....	2,427

An increase is noted in the number of strains of *E. typhosus* submitted to typing. Table 9 indicates the distribution of these types, the majority of which come from sources within the province. Fourteen of the organisms typed, however, came from sources in the U.S.A. As was noted last year, Types C and E were the predominant organisms.

TABLE 9  
PHAGE TYPING OF *S. TYPHI* STRAINS

Type A	Type B <sub>3</sub>	Type C	Type D <sub>4</sub>	Type D <sub>6</sub>	Type E <sub>1</sub>	Type E <sub>2</sub>	Type F <sub>1</sub>	Type F <sub>2</sub>	Type N	Un-typable Strains	W Form	Total
27	2	81	1	3	80	7	19	7	2	49	5	283

The typing of *S. paratyphi B* organisms which was begun in 1946 has been continued. Table 10 indicates the distribution of these types, along with the number of patients from whom these organisms were isolated.

TABLE 10  
PHAGE TYPING OF *S. PARATYPHI B* STRAINS

Type 1		Type 2		Type 3A		Type 3AI		Type 3B		Anti O		Total	
Total No.	No. Pat-ients	Total No.	No. Pat-ients	Total No.	No. Pat-ients	Total No.	No. Pat-ients	Total No.	No. Pat-ients	Total No.	No. Pat-ients	Total No.	No. Pat-ients
21	6	0	0	4	2	23	3	12	5	4	3	64	19

The examination of specimens for parasitic cysts and ova is considerably increased, but as yet our parasitology service has not been widely publicized. This portion of the work is still included in the Enteric Disease section. Table 11 indicates the results of examinations carried out on specimens of feces and anal swabs for the identification of parasitic cysts or ova. Sixty-three examinations for occult blood were also performed in this section.

TABLE 11  
PARASITIC OVA AND AMOEBIC CYSTS

PARASITIC OVA	Number	AMOEBIC CYSTS	Number
<i>Enterobius vermicularis</i> .....	384	<i>Entamoeba histolytica</i> .....	1
<i>Ascaris lumbricoides</i> .....	3	<i>Entamoeba coli</i> .....	10
<i>Taenia saginata</i> .....	3	<i>Iodamoeba butschlii</i> .....	2
<i>Trichuris trichiura</i> .....	1	<i>Giardia lamblia</i> .....	1
<i>Diphyllobothrium latum</i> .....	2		
<i>Ancylostoma duodenale</i> .....	1		
Number Positive.....	394	Number Positive.....	14
Number Negative.....	2,185	Number Negative.....	110
Number Examined.....	2,579	Number Examined.....	124

The Salmonella typing service in the Central Laboratory has examined 990 cultures during the year 1947. These include cultures submitted from our Branch Laboratories and also those isolated by our diagnostic group in the Enteric Disease Section. A number of cultures have also been received from points outside Ontario for identification.

TABLE 12  
ENTERIC DISEASE CULTURES IDENTIFIED

IDENTIFICATION	Number	IDENTIFICATION	Number
Aerobacter aerogenes.....	3	Salmonella montevideo.....	1
Aerobacter cloacae.....	1	Salmonella newport.....	9
Alcaligenes faecalis.....	15	Salmonella oranienburg.....	13
Alcaligenes marshalii.....	1	Salmonella paratyphi B.....	66
Alcaligenes metalcaligenes.....	1	Salmonella potsdam.....	1
Bacterium pyocyaneus.....	1	Salmonella pullorum.....	1
Escherichia coli.....	15	Salmonella reading.....	2
Paracolon aerogenic.....	224	Salmonella senftenburg.....	1
Paracolon anaerogenic.....	19	Salmonella thompson.....	2
Paracolon Bethesda type.....	3	Salmonella typhi.....	283
Proteus mirabilis.....	12	Salmonella typhimurium.....	105
Proteus morgani.....	104	Shigella alkalescens.....	15
Proteus rettgeri.....	16	Shigella paradysenteriae Flexner.....	14
Proteus vulgaris.....	11	Shigella sonnei.....	1
Salmonella anatum.....	5	Staphylococcus albus.....	4
Salmonella bareilly.....	7	Staphylococcus aureus.....	9
Salmonella bredeney.....	2	Streptococcus haemolyticus.....	2
Salmonella cholerae suis.....	2	Yeast.....	1
Salmonella enteritidis.....	16		
Salmonella kirkee.....	1	TOTAL.....	990
Salmonella minnesota.....	1		

*Fungus Diseases:*

Table 13 indicates the examinations and cultural isolations made on mycological specimens submitted. The classification of these organisms has been changed to conform with the most recent classification obtained by Mr. Fischer during his recent course. Trichophyton mentagrophytes and Trichophyton rubrum (formerly Trichophyton gypseum and Epidermophyton purpureum) continue to be the most common organisms isolated other than yeast-like organisms.

TABLE 13  
FUNGUS CULTURES

SPECI-MEN	Negative	CANDIDA		TRICHOPHYTON						MICRO-SPORUM			Total			
		albicans and yeast (1)	albicans	mentagrophytes (2)	rubrum (3)	album	schoenleini	sabouraudi	tonsurans	sulfureum	canis	audouini		gypseum	Epidermophyton floccosum (4)	Malassez furfur
Sputa...	333	127	33	..	..	..	..	..	..	..	..	..	..	..	..	322
Nails...	82	..	2	2	4	..	..	..	1	..	..	..	..	..	..	91
Scales...	418	2	7	29	17	1	..	3	1	..	12	19	2	6	2	519
Hair...	54	..	..	2	..	1	1	..	1	..	11	15	1	..	..	86
Miscellaneous Cultures	23	1	4	..	..	..	..	..	..	..	..	..	..	..	..	28
	4	..	8	1	..	1	..	..	..	..	..	27	..	..	..	41
GRAND TOTAL.....																1,107

- (1) Formerly Monilia albicans.
- (2) Formerly Trichophyton gypseum.
- (3) Epidermophyton purpureum.
- (4) Formerly Epidermophyton inguinale.

183 microscopic examinations were made for the presence of Actinomyces and 264 cultural examinations performed. The distribution of these isolations is noted in Table 14. A total of 20 microscopic examinations showed mycelia resembling Actinomyces, whereas 18 cultural examinations showed the same result. Isolations made from sputum do not indicate the incidence of pulmonary actinomycosis, since information is not available whether or not these cases showed clinical evidence of the disease.

TABLE 14  
EXAMINATIONS FOR ACTINOMYCES

Approximate Source of Specimen	SMEARS			CULTURES		
	Negative	Doubtful	Positive	Negative	Doubtful	Positive
Neck Area.....	65	3	0	80	3	2
Face and Jaw.....	36	4	3	60	1	5
Sputa.....	25	27	13	53	8	10
Pleural Fluid.....	6	3	2	10	0	1
Miscellaneous.....	26	0	2	30	1	0
TOTAL.....	156	37	20	233	13	18

#### *Blood Cultures:*

Table 15 indicates the isolations made from 3,514 blood cultural examinations performed.

TABLE 15  
ORGANISMS ISOLATED FROM BLOOD CULTURES

Haemolytic staphylococcus aureus.....	109
Non-haemolytic staphylococcus aureus.....	71
Pneumococcus.....	1
Brucella abortus.....	3
B. typhosus.....	14
Streptococcus viridans.....	42
Streptococcus faecalis.....	1
Streptococcus non-haemolyticus.....	4
Streptococcus haemolyticus.....	8
TOTAL.....	253

#### *Penicillin Sensitivity Tests:*

Table 16 shows a summary of the penicillin resistance tests on organisms tested. It is noted that 43 of 300 organisms tested showed resistance to more than 50 standard units of penicillin, whereas in 1946 only 19 of 657 organisms tested were resistant to more than 50 standard units of penicillin.

TABLE 16  
PENICILLIN RESISTANCE TESTS

Amount S.U. Penicillin	Haem. Staph. Aureus	Non-Haem. Staph. Aureus	Haem. Strep.	Non-Haem. Strep.	Strep. Viridans	Pneumococcus	Miscellaneous	Blood and C.S.F. levels in S.U. per cc.
More than 50	29	13	..	..	..	..	1	..
45	1	..	..	..	..	..	1	..
40	..	1	..	..	..	..	..	..
10	..	..	..	..	1	..	..	..
5	..	..	1	..	..	..	..	..
4	5	3	1	..	1	..	1	1
2	..	..	..	..	..	..	..	1
1	..	1	..	..	..	..	1	..
.5	2	..	1	..	1	..	1	4
.25	1	..	..	..	..	1	..	3
.125	3	2	2	1	2	..	..	5
.062	19	6	4	..	1	..	..	1
.031	43	16	13	1	11	1	..	Less than .031 10
.015	9	9	13	1	7	4	2	..
.007	..	..	13	1	6	5	..	..
.003	..	..	4	..	3	1	1	..
Less than .003	..	..	2	..	1	..	..	..
Total..	112	51	54	4	34	12	8	25

Grand Total: 300.

*Gonococcus:*

A total of 2,976 cultural examinations were performed for *N. gonorrhoea*, of which 301 proved to be positive. 247 of these gave positive cultural results and the remaining 54 yielded positive smears and negative cultural results. A total of 19,355 microscopic examinations were made for *N. gonorrhoea* in the Central Laboratory in 1947.

TABLE 17  
CULTURAL EXAMINATIONS FOR *N. GONORRHOEA*

Culture positive, smear positive .....	124	
Culture positive, smear suspicious .....	70	
Culture positive, smear negative .....	53	
		247
Total positive cultures .....		247
Smear positive, culture negative .....		54
		301
Total positive specimens .....		301
Smear negative, culture suspicious .....	15	
Smear suspicious, culture negative .....	19	
		34
Total doubtful specimens .....		34
Total negative specimens .....		2,641
		2,976
Total Examinations .....		2,976

*Spinal Fluids:*

Table 18 indicates the bacteriological examinations performed on spinal fluids at the Central Laboratory.

TABLE 18

## BACTERIOLOGICAL EXAMINATIONS OF SPINAL FLUID

MENINGOCOCCUS:		
Culture positive, smear positive, Type I.....	5	
Culture negative, smear positive.....	4	
		9
PNEUMOCOCCUS:		
Smear and culture positive, Type I.....	1	
" III.....	4	
" IV.....	1	
" V.....	1	
" VI.....	2	
" VII.....	1	
" VIII.....	2	
" XIX.....	2	
" XXV.....	1	
		15
Smear, occasional gram positive diplococci, culture, negative.....		3
HAEMOLYTIC STREPTOCOCCUS (GR. A):		
Smear and culture positive.....		2
HAEMOLYTIC STAPHYLOCOCCUS AUREUS:		
Smear and culture positive.....		2
NON-HAEMOLYTIC STREPTOCOCCUS:		
Smear and culture positive.....		1
B. PYOCYANEUS:		
Smear and culture positive.....		2
HAEMOPHILUS INFLUENZAE:		
Smear and culture positive.....		24
TUBERCLE BACILLI:		
Direct smear positive.....		13
Animal inoculation positive.....		10
SUSPECTED POLIOMYELITIS:		
Cells increased.....		378
Cells not increased.....		1,603
		2,062
TOTAL EXAMINATIONS.....		2,062

*Virus Diseases:*

The virus section, under the direction of Dr. N. A. Labzoffsky, has carried out 703 examinations in the diagnostic routine during the year. Research in the various aspects of virus diseases is still being carried on and it is hoped that the present problems can be terminated next year.

*Media and Stains:*

The section for the preparation of media and stains has been enlarged during the year, as previously the staff of the media room had worked under considerable difficulty in cramped quarters. The media produced during the year are indicated in Table 19.

TABLE 19

## CULTURAL MEDIA AND STAINS

Liquid media.....	3,000 litres
Solid media.....	2,105 "
Stains.....	628 "
Saline.....	194 "
Poured plates.....	81,600 plates
Egg media for T.B.....	110,653 tubes
Bottles for feces outfits.....	5,882 bottles
Blood for blood cultures.....	3,871 "
Laked horse blood for G.C.....	6,000 tubes
Distilled water used.....	1,002 gallons
N/1NaOH used.....	1,087 ounces
Wax ampoules for dark fields.....	2,750 tubes

*Outfit Preparation and Distribution:*

The Shipping Room has been moved from the East Block of the Parliament Buildings to 1011 Queen St. W., where the outfit room is situated. The distribution of outfits to physicians and hospitals is indicated on the end of Table 1.

*Animal Room:*

A total of 4,967 animals was received during the year and of this total, 1,399 were shipped to Branch Laboratories. 3,524 were used in the East Block laboratories. Separate animal quarters are maintained for the Virus Laboratory at 1011 Queen Street West.

## DIVISION OF PATHOLOGY

M. C. DINBERG, B.Sc., M.D., *Provincial Pathologist*

Herewith is submitted the annual report of the Division of Pathology for the year 1947.

Dr. H. Doris Howell attended a course in autopsy technique at the Regional Laboratory and the Victoria Hospital, London, Ontario. Gratitude is expressed to Professor J. H. Fisher and to Dr. W. M. Wilson for their co-operation in making possible this instruction.

Dr. M. C. Dinberg presented several lectures in connection with the Lakehead Summer School at Fort William and Port Arthur, during the first week of September, through the courtesy of the Ontario Medical Association.

Dr. Dinberg presented a paper "The Etiology of Sarcoidosis" to the Laboratory Section, Canadian Public Health Association, at the December meeting in Toronto.

The number of surgical and autopsy specimens submitted and examined was 11,611. Of this number, 740 or 6% were malignant tumours.

The Division of Pathology is grateful to Professor W. L. Robinson for consultant advice and to Dr. E. L. Barton for generous co-operation.

## REGIONAL LABORATORY—FORT WILLIAM

A. E. ALLIN, B.A., M.D., D.P.H., *Director*

I have the honour to submit herewith the Annual Report of the Fort William Regional Laboratory for the year 1947.

Routine examinations numbered 62,206, an increase of 9.3 per cent over 1946. 6,837 vials of Biologicals, 1,763 vials of Insulin, 75 vials of Silver Nitrate, 168 vials of Old Tuberculin and 43,065 outfits were distributed.

During the year, there were numerous changes in the staff. Miss Florence Hutchinson resigned in August. Miss Beth Waller, who had joined the staff in January, resigned in October. Four workers without previous laboratory experience were employed, viz., Misses Rahmer, Mior, Smith and Baba. The training of these new employees has placed a heavy burden on the senior members of the staff. Nevertheless, a new pathology division was opened. This was made possible by the City of Fort William adding another room to the quarters origi-

nally allotted the laboratory. It permits the examination locally of biopsy and autopsy material submitted by the physicians of North-western Ontario and is of particular importance at the present time since diagnostic Cancer Centers were recently established in Fort William and in Port Arthur.

This Division was opened in April and approximately 200 specimens per month are now being submitted. The Director has made free use of Dr. Dinberg's services as consultant in the diagnosis of numerous difficult biopsies. Distance has been relatively unimportant since the advent of air-mail service, as specimens can now be mailed from this laboratory to Toronto and a wired report received the following day.

The Director was granted specialist certification in Bacteriology and Pathology by the Royal College of Physicians and Surgeons during the year.

May I express my appreciation of the loyal work of all members of the staff. I also wish to express my appreciation of the unfailing co-operation of Dr. Barton and of Dr. Dinberg throughout the year.

### REGIONAL LABORATORY—KINGSTON

J. H. ORR, M.D., *Director*

I have the honour to submit herewith the Annual Report of the Regional Laboratory at Kingston for the year 1947. The total examinations for the year numbered 72,427.

This is a decrease of approximately 5,000 in the total number of examinations, as compared with 1946. This difference is attributable to the marked falling off in Serological examinations resulting from demobilization. Serological examinations decreased approximately 12,000 as compared with 1946. This, however, was partly offset by an increase in the work of the other sections which exceeded by 7,000 the number of examinations carried on in the previous year.

I should like to take this opportunity of expressing my appreciation of the loyal work of all the members of the staff of this Laboratory and the co-operation which I have received from Dr. E. L. Barton and the staff at the Central Laboratory throughout the year.

### REGIONAL LABORATORY—KIRKLAND LAKE

B. M. BRANSCOMBE, M.T., R.T., *Director*

I have the honour to submit herewith the Annual Report of the Kirkland Lake Regional Laboratory for 1947.

The opening of this new branch was delayed about one year. This was due to the lack of building material to complete alterations. Laboratory equipment being also in short supply, we were unable to open until July 2nd, 1947.

Routine Urinalysis and Haematology have been the bulk of the work. This is probably due to the laboratory being situated in the hospital. Public Health examinations are slowly increasing. The total examinations for the six months was 3,975. The number of outfits distributed was 799.



The Blood Transfusion work has been quite active, chiefly due to mine accidents. The establishing of a Blood Bank has been suggested to the hospital board and it is hoped to be in operation in the coming year.

I wish to express my appreciation to Dr. E. L. Barton and the members of the Central Laboratory for their help and efficient service during the year.

### REGIONAL LABORATORY—LONDON

W. M. WILSON, M.D., *Director*

I have the honour to submit herewith the Annual Report of the Examinations made at the Regional Laboratory, London, during the year 1947.

The total number of examinations made was 135,147, which is a decrease of 36,954 when compared with the total for the year 1946. This drop in volume was expected and may be explained largely by the decrease in the serological work, this division alone showing a drop of 32,413 examinations. During the year 1946 a large number of blood samples were received for serological tests from army personnel at the time of their discharge. This work showed a steady drop in the latter months of 1946 and in 1947 only a very few specimens were received from members of the armed forces. Regional and subsidized laboratories established in Windsor, Stratford and Woodstock have no doubt received specimens for examination which heretofore would have been sent to this laboratory. The decrease may be further explained by the fact that no epidemics of infectious diseases occurred during the year. In the pathological division some decrease was noted, chiefly because of the appointment of a pathologist at the General Hospital, Sarnia.

During the year 77,021 outfits were distributed to physicians and hospitals for the collection of specimens. There were also 26,404 packages of biological products and 7,207 packages of insulin distributed.

On November 1st, 1947, Mr. S. G. Trevor, bacteriologist, was transferred to Sault Ste. Marie on account of the death of Dr. N. F. W. Graham. On December 31st, 1947, Dr. W. W. Hollands resigned as pathologist at this laboratory to take the position of pathologist at the St. Joseph's Hospital, Sarnia.

I am pleased to take this opportunity to express my appreciation to Dr. E. L. Barton, Director of Laboratories, Dr. J. T. Phair, Deputy Minister, and the staff of the Central Laboratory for assistance given. I also appreciate the loyal co-operation of our staff. To the University of Western Ontario, who are contributing in good measure to make the association of the Regional Laboratory and the School of Nursing a very satisfactory and happy arrangement for both, I express my sincere thanks.

### REGIONAL LABORATORY—NORTH BAY

A. D. McCLURE, B.A., *Director*

I have the honour to submit herewith the report of the number of examinations carried out in the Regional Laboratory at North Bay during the year 1947.

The total volume of the work has increased by approximately 21% over the previous year. The increase, however, has not been uniform over all types of specimens received. There has been a marked decrease in the number of milk, restaurant and gonorrhoea specimens. It may be that more of this work is being taken over by the laboratories at Kirkland Lake and Timmins.

The most noted increases in volume have taken place in serology and blood chemistry. The increase in the volume of serology is approximately 60%.

May I at this time express the thanks of the staff and myself to the Director and staff of the Central Laboratory for their close co-operation during the past year.

### REGIONAL LABORATORY—OTTAWA

S. F. PENNY, M.D., *Director*

I have the honour to submit herewith the annual report for 1947 of the Ottawa Regional Laboratory.

The routine examinations totalled 122,387 for the year, a decrease of 23,802 from 1946. This reduction is mainly accounted for in the decreases in serological and diphtheria examinations. The completion of demobilization of service personnel accounts for the marked decrease in the number of serological specimens examined and the totals this year are fairly representative of normal times.

The local epidemics of diphtheria and ringworm of the scalp mentioned in last year's report were brought under control during 1947 and no new epidemics appeared in the city and district.

The laboratory distributed 60,424 diagnostic outfits, 20,176 biological products and 6,135 vials of insulin in 1947.

The laboratory has been recently redecorated by the City corporation and is much improved, although the physical set-up is the same as last year.

I wish to express my appreciation to our staff and to Dr. Barton and the staff of the Central Laboratory for their co-operation during the year.

### REGIONAL LABORATORY—SAULT STE. MARIE

S. G. TREVOR, B.S.A., *Director*

I have the honour to submit herewith the Annual Report for this Regional Laboratory for the year 1947.

The death on October 23rd, 1947, of Dr. N. F. W. Graham, who was Director of this laboratory since October, 1920, was a great loss to the laboratory service and to the community. The high esteem of his laboratory staff and the City at large bears tribute to a great personality and an untiring worker.

The total number of examinations for the year was approximately 1,500 less than in 1946. The number of diagnostic outfits distributed was approximately 1,200 more than during the preceding year, indicating that the volume of work for the district is increasing, but is not being done at this laboratory. It is hoped that, when the present re-organization is completed, all the tests for this district will be performed at this laboratory.

The problem of limited space will be greatly alleviated by the shortly to be accomplished removal from the laboratory of the V.D. Clinic and the Red Cross Blood Donors' Clinic; also by plans at present under consideration to allot some additional space in this building to the laboratory.

After two years service, Miss Jean Young resigned her position as Laboratory Assistant on May 31st, 1947, to accept a post at a Sarnia Hospital. The vacancy thus created was filled by Miss Elizabeth McNamara.

I wish to express my sincere appreciation to Dr. Barton, the staff at the Central Laboratory and to the staff of the Sault Ste. Marie laboratory for all the help I have received.

#### REGIONAL LABORATORY—TIMMINS

G. MACPHERSON, B.A., M.A., *Acting Director*

I submit herewith a report of the work performed in this Laboratory for the year 1947.

There has been an increase in the total examinations from 9,709 to 11,494. Comparison with previous reports shows a continuation of the marked increase in bacteriology. Indeed, lack of space is our most pressing problem and is retarding further expansion in all departments.

May I express my appreciation to Dr. Barton and the staff of the Central Laboratory for their co-operation throughout the year.

#### REGIONAL LABORATORY—WINDSOR

W. J. A. PERCY, M.A., *Director*

I have the honour to submit herewith the Annual Report of the Windsor Regional Laboratory for the year 1947.

The Windsor Regional Laboratory was established in 1946, but it was not until the official opening of the new quarters by the Honourable Russell T. Kelley on March 22nd, 1947, that this laboratory was in a position to offer full services to the physicians of the City of Windsor and district.

During the year 1947 a total of 57,626 examinations was made, of which approximately 70% were serological examinations. This total represents about ten months of operation during which it was possible to perform all examinations, plus two months during which only a limited number of tests could be done.

The physicians of this district are not yet making full use of the facilities of this laboratory for bacteriological examinations. A great many of these tests are still being done at the three laboratories situated in hospitals in Windsor. This accounts for the small percentage of miscellaneous bacteriological examinations performed at this laboratory.

Due to the increased volume of work, the staff was increased by the addition of three members. One staff member resigned to take a position in the U.S.A. His place has not yet been filled.

I wish to thank the staff of this laboratory for their untiring efforts in helping to establish our services. My sincere appreciation is extended to Dr. E. L. Barton and the staff of the Central Laboratory for their advice and co-operation during the year.

## SUBSIDIZED LABORATORY—BELLEVILLE

J. B. MCKAY, M.D., *Director*

The attached report is a record of the kind and number of laboratory studies carried out in this laboratory during the year 1947. It has been compiled according to the instructions issued early in 1947. As such, it indicates somewhat less than one quarter of the total number of all tests performed here, during the past year. It emphasizes the so-called "free routine" which reveals an increase over that of 1946.

The facilities for milk and water analysis have been used frequently by neighbouring county health units and by the local health department.

We wish to express our sincere appreciation to the personnel of the Central Laboratory and the Kingston Unit, for their continued co-operation.

## SUBSIDIZED LABORATORY—KITCHENER

L. C. FISCHER, M.D., *Director*

I have the honour to submit a report of the work done in the Kitchener-Waterloo Laboratory for the year 1947.

Unfortunately, owing to difficulty in getting new essential equipment and help, we were severely handicapped and unable to really start functioning until March, 1947. Consequently, public health work done for January and February was almost nil.

The official opening of the Laboratory, February 28th, 1947, was, we believe, really an event. We appreciate very much Dr. Barton and his staff coming to us and putting on a very fine scientific demonstration—making possible our official opening at that time

We have received some very nice equipment, and have now, we believe, the nucleus of a good staff. Thanks to Dr. Barton we were able to secure the services of a trained Bacteriologist, in the person of Mr. Ernest Brown. Our staff, at the present time, consists of seven full-time and one part-time assistant, and we are at present negotiating the services of another trained technician.

The free tests done during 1947 total 11,072, Bacteriological tests constituting slightly over 4,000 tests, Kahn tests 6,298 and blood sugars 448.

I should like to take this opportunity of thanking Dr. Barton and his staff for the kindness and help they have so generously bestowed on us.

## SUBSIDIZED LABORATORY—PETERBOROUGH

C. B. WAITE, M.D., *Director*

I have the honour to submit my Annual Report for the year 1947.

During the year, there has been no epidemic of infectious diseases. The agglutination test for the enteric group, etc., has shown a falling off. A few Salmonella, however, have been isolated, some of them in cases of clinical enteric diseases. Since the introduction of examination of pregnant women, there has been an increase in the number of Kahn tests, as was to be expected.

The activities of the Sanitary Inspector gives rise to some examinations of restaurants and beverage room utensils. This has not been done for a year or two previously.

There has been some falling off in the number of post-war cases of gonorrhoea. It appears to have passed its peak in this district.

All of which is respectfully submitted.

#### SUBSIDIZED LABORATORY—ST. CATHARINES

L. WHITAKER, M.D., *Director*

Submitted herewith is the Annual Report for the Subsidized Laboratory, St. Catharines, for the year 1947.

In looking over the totals of examinations, as compared with last year, there is a good deal of difference, with the implication that the work has decreased considerably. Actually this is not the case, the decrease being due to the elimination of surgicals, autopsies and blood smears which were formerly included, but which are left out as they fall within the category of examinations which are ordinarily done in a hospital laboratory.

In reviewing the work of the year, there have been some changes in our staff. New personnel added brings our total to four full-time qualified technicians, two qualified part-time and one stenographer and secretary. In addition, three students have been taken for training. It is hoped that the hospital will be recognized as a training unit so that at the end of the year these students may try their examinations to qualify as technicians with the Canadian Society of Laboratory Technologists.

This letter would not be complete without reference to the much enlarged and improved quarters in which the laboratory is now functioning. We feel that this should contribute to a much more efficient service.

The past year saw the introduction of examinations of unpasteurized milk samples. This service was not instituted until late in the year and with the continued co-operation of the Sanitary Inspectors it is hoped that the public may receive further protection in this regard.

In closing I should like to express my personal appreciation to you and the various members of the Staff of the Central Laboratory for the very helpful manner in which they have aided in making the service of the Laboratory here of optimum value in serving the two counties.

#### SUBSIDIZED LABORATORY—STRATFORD

S. J. C. MILLER, M.D., *Director*

The statistics for the Stratford General Hospital Branch Laboratory are herewith submitted for the year 1947.

Total examinations for the year numbered 24,049, of which 11,948 came under the free routine and 12,101 under the charge routine.

The laboratory did not really begin to operate as a branch laboratory until July, because of slowness in delivery of essential equipment, the majority of which has finally been installed.

Our staff has been increased by the addition of Miss Irene McDonald, Miss Kay Wilkie and Miss Marion Smith. However, we still urgently require one well-trained technician.

One of the highlights of the year was the official opening of this laboratory by Dr. E. L. Barton and staff of the Central Laboratory at a special meeting of the Perth County Medical Association. The exhibits were outstanding and well received.

We have had excellent co-operation from the Central Laboratory in Toronto, and the Regional Laboratory at London, Ontario. I am especially indebted to Dr. E. L. Barton, Dr. W. Wilson and Miss L. Venus for their assistance and guidance on numerous occasions.

### SUBSIDIZED LABORATORY—WOODSTOCK

R. H. KARN, *Director*

I wish to submit herewith the Woodstock Laboratory report of procedures completed and diagnostic outfits distributed during 1947.

In addition to our regular work, for the Woodstock and Oxford County Health Units, Physicians and Ontario Hospital, we have extended our services to the Branch County Health Unit and Brant Sanatorium, Brantford.

One extra room has been taken over by the laboratory as we propose adding a serological section in the near future.

May I express my gratitude to all connected with this laboratory for their suggestions and excellent co-operation.

## REPORT OF THE LIBRARY

FREDRITA HENLEY WRIGHT, *Librarian*

The year 1947 has been a very busy one. In addition to requests for literature, made by the departmental staff, the Library received approximately 220 personal enquiries from non-members of the Department. The Library has endeavoured to meet all requests to the best of its ability. New publications and special reports have been procured on publication and bibliographies and reference material supplied when required.

Six meetings of the Library Committee were held during the year to assist in the administration of the Library and to approve the purchase of literature.

### LOAN SERVICE

There were 7,369 loans made by the Central Library during 1947, an increase of 2,331 over the previous year. Within the immediate department, requests for literature reached a total of 5,907, while to the outside service the Library forwarded 1,462 references. The loan service from the Central Library is extended to: physicians, psychologists, nurses, occupational therapists, dietitians and farmers connected with the administration of the 15 Ontario Hospitals; the Directors and staffs of Mental Health Clinics and the Directors and staffs of Branch Laboratories and Tuberculosis Clinics.

### CIRCULATION OF JOURNALS

Circulation of journals was maintained during the year. Journals were circulated to the clinicians in charge of the Provincial Travelling Chest Clinics at Belleville, Ottawa and Timmins and to the Tuberculosis Unit at the Ontario Hospital, Woodstock.

Journals containing articles dealing with "shock therapy" in the treatment of mental disease continued to be circulated immediately upon receipt, to the Ontario Hospitals administering this treatment. The Library increased its service to hospitals during the year by circulating journals on dietetics to dietitians and by circulating journals on dairy science to the herdsmen and farmers on the staffs of the hospitals.

The Branch Laboratories at North Bay, Ottawa, Kingston, Belleville, Fort William, Kirkland Lake, St. Catharines, Windsor and Mimico received regular circulation service of technical journals and during the year the new branch laboratory at Stratford was included.

### PATIENTS' LIBRARIES

Through the services of the Central Library the following reading material was procured for the patients' libraries in the Ontario Hospitals:

Books—The Central Library personally selected 494 library discards which were delivered to the Library where they were packed and re-shipped to the hospitals. Of this number, 37 copies were especially procured in the French language for the use of French-speaking patients.

Periodicals—The Central Library placed 189 subscriptions to periodicals for the exclusive use of the patients. There were also over 7,000 copies of unsold periodicals delivered by a Toronto News Agency. These were purchased by special arrangement made by the Central Library.

The Ontario Hospital at Fort William also was supplied with unsold periodicals by a local News Company. This service was donated to the hospital and was very much appreciated.

Newspapers—The Central Library placed 156 subscriptions to various Provincial newspapers for the sole use of the patients.

#### SPECIAL SERVICES

The Library was requested to assist in a book display at the conference of full-time Medical Officers and Nursing Supervisors of County Health Units, held in January. The exhibit was much appreciated.

The Central Library also compiled and distributed to all medical personnel in the Ontario Hospitals a list of library accessions. This service was provided twice during the year and in response to it an increased number of books were requested on loan.

In addition to books purchased for the Library, the Central Library also bought 229 books and pamphlets for the use of separate Divisions within the Department.

#### ACCESSIONS

The accessions to the Library for the year 1947 were as follows:

CENTRAL LIBRARY	
Books purchased.....	82
Journals (vols.).....	155
Reports.....	148
Pamphlets.....	1,431

Subscriptions to journals for the year numbered 142 while the Library received 23 complimentary subscriptions, making a total of 165.

ONTARIO HOSPITALS	
Books purchased:	
Medical.....	222
Fiction (library discards, 37 in French language).....	494
Journal subscriptions (med. and tech.).....	198
Year Books.....	9
Periodicals:	
Subscriptions.....	189
Unsold copies.....	7,000 (approx.)
Newspapers (subscriptions).....	156

During the year a list was compiled of 303 old books with a view to ascertaining an appropriate method that might be determined for their disposal. Copies of the list were submitted to the Provincial Universities for their selection of any volumes in which they might be interested. In addition to the above, the library maintained the regular routine of cataloguing and other library procedure.

The Library has had pleasure in making the above contribution to the work of the Department.



## DIVISION OF MATERNAL AND CHILD HYGIENE

E. R. WESTMAN, M.B., D.P.H.

The 1946 amendment to The Public Health Act which makes provision for one free complete prenatal medical examination during the course of pregnancy has been in effect for sufficient time that it is now possible to report its functioning for its first calendar year. During 1947 this privilege was utilized by something over 40 per cent of expectant mothers in Ontario. It might therefore be deducted that to a gratifying extent expectant mothers in the Province have been made to realize the wisdom of placing themselves under medical supervision in the prenatal period. In the main, the plan has been well received by practising physicians. As may be observed in the following Tables, the service has been widely utilized throughout the Province, and its popularity well sustained.

TABLE 1

### EXPECTANT MOTHERS IN ONTARIO RECEIVING PRENATAL MEDICAL EXAMINATIONS AS PROVIDED BY SECTION 74(a) OF THE PUBLIC HEALTH ACT

By Counties—January 1st, 1947 to December 31st, 1947

Algoma . . . . .	363	Grenville . . . . .	136	Manitoulin . . . . .	15	Rainy River . . . . .	1,499
Brant . . . . .	672	Haldimand . . . . .	281	Middlesex . . . . .	1,366	Renfrew . . . . .	792
Bruce . . . . .	659	Haliburton . . . . .	35	Muskoka . . . . .	192	Russell . . . . .	88
Carleton . . . . .	1,068	Halton . . . . .	416	Nipissing . . . . .	401	Simcoe . . . . .	929
Central Patricia . . . . .	132	Hastings . . . . .	915	Norfolk . . . . .	262	Stormont . . . . .	944
Cochrane . . . . .	820	Huron . . . . .	803	Northumberland . . . . .	195	Sudbury . . . . .	2,305
Dufferin . . . . .		Kenora . . . . .	303	Ontario . . . . .	910	Thunder Bay . . . . .	1,096
Dundas . . . . .	263	Kent . . . . .	1,159	Oxford . . . . .	230	Timiskaming . . . . .	742
Durham . . . . .	137	Lambton . . . . .	1,021	Parry Sound . . . . .	208	Victoria . . . . .	237
Elgin . . . . .	302	Lanark . . . . .	205	Peel . . . . .	478	Waterloo . . . . .	1,573
Essex . . . . .	2,280	Leeds . . . . .	402	Perth . . . . .	575	Welland . . . . .	959
Frontenac . . . . .	217	Lennox and Addington . . . . .	173	Peterboro . . . . .	1,190	Wellington . . . . .	614
Glengarry . . . . .	39	Lincoln . . . . .	1,154	Prescott . . . . .	288	Wentworth . . . . .	3,220
Gray . . . . .	647			Prince Edward . . . . .	156	York . . . . .	7,721

TABLE 2

### THE NUMBERS OF EXAMINATIONS FOR WHICH PAYMENTS WERE MADE TO PHYSICIAN BY MONTHS DURING 1947

January 1st, 1947, to December 31st, 1947

1947	Patients
January . . . . .	3,587
February . . . . .	4,401
March . . . . .	3,015
April . . . . .	3,826
May . . . . .	4,223
June . . . . .	3,356
July . . . . .	3,092
August . . . . .	3,412
September . . . . .	2,931
October . . . . .	4,981
November . . . . .	3,062
December . . . . .	3,016
<b>TOTAL FOR YEAR . . . . .</b>	<b>42,902</b>

The Division is pleased to report the continuance of the downward trend in maternal deaths. In 1946 a new low of 160 (preliminary figure) was reached giving a rate of 1.64 per thousand live births. This decline was particularly evident in the reduction in the number of deaths attributed to hemorrhage, with those due to infection and, to a lesser extent, accidents, sharing in the improved picture. On the other hand, deaths attributed to toxæmias showed a slight rise. Comparison with 1945 numbers and rates is shown below (1946 preliminary figures).

MATERNAL DEATHS Principal Causes	1945	1946	RATES PER 1,000 LIVING BIRTHS	
			1945	1946
			Living births.....	78,974
Maternal Deaths—Total.....	171	160	2.17	1.64
Infection.....	46	38	.58	.39
Toxaemias.....	24	34	.30	.35
Accidents.....	26	28	.33	.29
Hemorrhage.....	33	16	.42	.16
Abortion with mention of infection.....	18	16	.23	.16
Abortion without mention of infection.....	4	9	.05	.09
All other causes.....	20	19	.25	.19

As will be noted deaths due to hemorrhage dropped to fourth place, exchanging places with toxæmias. This drop might well be the result of the continued development of blood banks and plasma supplies, together with a better understanding of the management of these patients. That infection showed a decline at all is indeed a tribute to all concerned, as available hospital space and staff have not kept pace with the increased number of births. Commendable attention to detail must have been observed under the trying conditions of short staff, and accommodation often makeshift and frequently a compromise with what might be desired.

The increase in deaths attributed to toxæmias would seem to indicate a continued need to impress upon the women of Ontario the necessity of early and adequate prenatal care if deaths from these causes are to be controlled. Only in this manner can early recognition be assured and corrective measures be instituted.

Infant deaths also have shown a satisfactory decline. As may be seen in the accompanying Table the decline in rates continued to be largely in the age group, one month to one year. Stillbirths and deaths in the neonatal period (under 1 month), although showing a diminishing trend, have not kept pace with those of the older group. Tables 3 and 4 show live births, stillbirths, infant and neonatal deaths in numbers and rates from 1931 to 1946.

Much has been written concerning the role of nutrition and infection as they affect the expectant mother during the prenatal period and their influence on the outcome of pregnancy, principally with respect to stillbirths and congenital malformations. Advances in obstetrics and surgery have also indicated that much can be done to reduce the number of deaths from these two causes. Further studies of the Rh factor have resulted in a better understanding of its mechanisms and to an encouraging extent the possibilities of treatment of affected infants.

During the course of the year the Department Publication "The Baby" was revised and in spite of difficulties encountered it is hoped that its distribution will begin early in the New Year.

As in previous years in cooperation with the Department of Education, direction was given to the medical examination of applicants in the nine Teacher Training Schools in the Province. Similar provision was made for two summer courses.

The Advisory Service to Newborn Nurseries and Obstetrical Units of Public Hospitals has been continued.

TABLE 3  
LIVE BIRTHS, STILL BIRTHS AND INFANT DEATHS IN ONTARIO BY YEARS 1932-1946 INCLUSIVE  
(Those for 1946 preliminary figure)

	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946
Live Births.....	69,209	66,842	63,646	62,234	63,069	62,451	61,645	65,564	64,123	68,524	72,262	78,192	81,173	78,090	78,974	97,441
Still Births.....	2,652	2,377	2,161	2,091	2,140	2,034	1,988	2,015	1,965	2,037	2,084	2,088	2,043	1,866	1,844	2,016
Infant Deaths....	4,833	4,133	3,804	3,523	3,515	3,416	3,382	3,245	2,979	2,959	3,294	3,139	3,390	3,346	3,209	3,653
Neonatal Deaths (under 1 month)	2,585	2,377	2,144	1,953	2,122	1,935	1,931	1,887	1,777	1,805	1,968	1,922	2,179	2,134	2,100	2,524
1 month to 1 year	2,248	1,756	1,660	1,570	1,393	1,481	1,451	1,358	1,202	1,154	1,326	1,217	1,211	1,212	1,109	1,129

TABLE 4  
LIVE BIRTHS, STILL BIRTHS AND INFANT DEATH RATES IN ONTARIO BY YEARS 1931-1946 INCLUSIVE  
(Live Births per 1,000 population, 1946 estimated population 4,101,000)  
(Still Births and Infant Deaths per 1,000 Live Births)

	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946
Live Births.....	20.2	19.2	18.1	17.6	17.6	17.3	16.9	17.9	17.3	18.3	19.1	20.1	20.7	19.7	19.7	23.8
Still Births.....	38.3	35.6	34.0	33.6	33.9	32.6	32.2	30.7	30.6	29.7	28.8	26.7	25.4	23.8	23.3	20.7
Infant Deaths....	69.8	61.8	59.8	56.6	55.7	54.7	54.9	49.5	46.5	43.2	45.6	40.1	41.8	42.8	41.0	37.4
Neonatal Deaths (under 1 month)	37.4	35.6	33.7	31.4	33.6	31.0	31.3	28.8	27.7	26.3	27.2	24.6	26.8	27.3	26.6	25.8
1 month to 1 year	32.5	26.3	26.1	25.2	22.1	23.7	23.5	20.7	18.7	16.8	18.3	15.6	14.9	15.5	14.0	11.5

## DIVISION OF NURSES REGISTRATION

EDITH R. DICK, Reg. N., *Director*

I have the honour to submit the following report for 1947:

### *Council of Nurse Education:*

The Council of Nurse Education held five meetings during the year. At the Annual Meeting on March 21st, 1947, Miss Constance Brewster of Hamilton was re-elected Chairman.

The Executive of the Registered Nurses' Association of Ontario met jointly with the Council of Nurse Education on June 20th to consider the proposed regulations under The Nurses Act, 1947.

### *Legislation:*

The Nurses Act, 1947, was passed. The new Act consolidated the amendments to The Nurses Registration Act, R.S.O. 1937, and provided for the establishment of training courses for nursing assistants and the registration of Certified Nursing Assistants.

### *Personnel:*

In March, Miss N. Margaret Dulmage was appointed as Inspector to supervise the training of Nursing Assistants.

### *Honoraria to Graduate Nurses:*

The shortage of qualified instructors and supervisors in schools of nursing has given concern for several years. Therefore, the Department of Health offered bursaries to graduate nurses for post-graduate work in Nursing Education at universities in Ontario. Seventeen bursaries were awarded. The bursary consists of \$60.00 monthly, throughout the university term of eight months. The recipients have agreed to accept a teaching position in schools of nursing in Ontario for two years.

### *Registration Examinations:*

Examinations were held in May and November for 1,522 candidates.

### *Applicants Registered from other Provinces, States and Countries:*

During the year 247 applicants were registered from other Provinces, States and Countries as follows:

Alberta.....	13	California.....	2
British Columbia.....	18	Illinois.....	2
Manitoba.....	29	Massachusetts.....	2
New Brunswick.....	11	Michigan.....	3
Nova Scotia.....	12	New Hampshire.....	1
P. E. Island.....	3	New Jersey.....	3
Saskatchewan.....	20	New York.....	11
Quebec.....	50	Ohio.....	4
	—	Missouri.....	1
	156	Pennsylvania.....	2
		Rhode Island.....	1
		Florida.....	1
			—
			33

Burma.....	1
Palestine.....	1
England.....	44
Scotland.....	4
South Africa.....	2
Holland.....	4
Australia.....	2
	—
	58

## STATEMENT OF REGISTRANTS

Total number registered, 1947.....	1,769
Total number re-registered, 1947.....	16,231
Total number taking examination, 1947.....	1,522
Total number registered since 1923.....	35,761

## STATEMENT OF REVENUE

Registration Fees.....	\$ 8,975.00
Re-registration Fees.....	20,441.50
Miscellaneous.....	91.27
Examination Fees.....	7,604.00
	—
	\$37,111.77

## REPORT OF INSPECTOR OF TRAINING SCHOOLS FOR NURSES

DOROTHY G. RIDDELL, REG. N.

Number of approved schools of nursing in Ontario.....	64
Number of inspections made in 1947. Total.....	54
(Routine—35. Brief—19)	

The inspection and evaluation of schools of nursing in Ontario is one of the major responsibilities of the Inspector of Training Schools. In order to attain a more objective appraisal and in order to facilitate the work of the Inspector the Annual Report, which also serves as an application for renewal of approval, has been revised. For the same purpose an analysis of the Registration Examination for November, 1946, has been made by the Medical Statistics Branch.

This contains a range of marks for each school (designated in code number) and for the 977 students who wrote the examination. These marks are compared in a graphic form with other schools.

#### *Schools of Nursing Approved for Registration:*

The Metropolitan School of Nursing, Windsor, has been added to the list of approved schools in Ontario. The Canadian Red Cross Society has assisted financially in the establishment of this School in order to demonstrate that an independent type of school under controlled conditions can train nurses adequately in a period of time less than three years.

In June, 1947, the Council of Nurse Education approved for registration the School of Nursing at the Galt General Hospital.

#### *Incidence of Illness Amongst Student Nurses:*

The incidence of illness for student nurses from November, 1946, to October, 1947, shows that the greatest number of days lost per student per month was .81 for March and the least number of days per student was .43 in June.

#### *Enrolment of Student Nurses:*

The objective and actual enrolment of new student nurses in each school of nursing was the basis of an inquiry made in August, 1947. A study of the complete response to the inquiry was made by the Medical Statistics Branch. Dr. Sellers, in his study, shows that the trend of student nurse enrolment for the past three years is moderately upward. The enrolment in the fall class of 1947 was 33.7% greater than in 1945 and 11.7% greater than in 1946. Although the enrolment in schools of nursing has increased during the year the public general hospitals were 9.7% below their objective enrolment. At the same time the student enrolment for the Ontario (mental) Hospitals was only one quarter of their objective.

The data of this inquiry indicated that 14 of the 18 schools of nursing in large centres expected to achieve their enrolment objective while in contrast only 15 of the schools in smaller and non-university centres anticipated the desired number of students.

The residence accommodation was the principal limiting factor associated with the setting of the enrolment objective. The schools of nursing in the larger centres recorded that the limiting of the enrolment objective was governed by the residence accommodation factor. The smaller schools commented on the lack of qualified applicants.

#### *Improved Living Accommodation for Student Nurses:*

The Nurses' Residence, St. Joseph's Hospital, Peterborough, was opened during 1947. The sixty-bed addition to the Nurses' Residence, Victoria Hospital, London, has relieved the overcrowding in this centre. Several hospitals are now increasing their residence capacity while two schools of nursing at St. Joseph's Hospital, Guelph, and Hotel Dieu Hospital, Kingston, have residences under construction.

*Psychiatric Nursing:*

A major consideration during the year was that of psychiatric nursing. The Superintendents of Nurses in the general hospital schools and the Ontario (mental) Hospital schools in central Ontario met in March to arrange for the Ontario Hospital student to have affiliation in the general hospital in the second year rather than in the third year. At this meeting an attempt was made to make the course of instruction and records more uniform.

There is an increasing demand for psychiatric nursing as a basic experience for every student nurse. This can only be met by long term planning to increase the teaching personnel in the mental hospitals; to make more residence accommodation available; and to relieve the student in the general hospital of her nursing duties so that she may study psychiatric nursing for a three-month period.

*Experience in Community Nursing for Student Nurses:*

An observation period for all student nurses in community nursing was the purpose of joint meetings in Peterborough, Guelph and Brantford.

The Supervisors of Public Health Nursing, Victorian Order Nursing, and the Inspector of Training Schools met the Superintendents of Nurses and Instructors to discuss the objectives and details for providing valuable observation in community nursing.

*Manual in Venereal Diseases for Instructors and Student Nurses:*

An excellent manual and other teaching material were prepared by the Division of Venereal Disease Control. These were approved by the Council of Nurse Education in March, 1947, and were distributed to all schools of nursing.

REPORT OF THE INSPECTOR OF COURSES FOR  
NURSING ASSISTANTS

N. MARGARET DULMAGE, REG. N.

The nine-month course for Nursing Assistants which was inaugurated in September, 1946, by the Departments of Health and Education has been developed successfully. There has been an increased number of enquiries and applications. The training facilities at the three centres, Hamilton, Kingston and Toronto, have been utilized fully. A total of 264 trainees were enrolled in three classes, January, April and September. Eighty-two (82) withdrew for such reasons as health, home and personal problems and inability to achieve the required standards of the course. The generous assistance received from the Canadian Vocational Training Centres has been gratefully accepted by this Department.

*Curriculum:*

As the initial purpose of the course is to produce a trained worker to supplement, not substitute, the graduate nurse, the curriculum has been carefully planned and controlled.

The first three months are spent in the training centre where the trainee receives 480 hours of instruction, practice, observation and study. Detail of the curriculum is outlined by the Registered Nurses' Association of Ontario in their plan for training of Nursing Assistants as of June, 1946. The last six months are spent in hospital training under supervision. The first period of three months



is spent in hospitals for the chronically ill patient. The second period of the three months is spent in general hospitals in the care of the convalescent and subacutely ill patients including three to four weeks with children.

Throughout, the trainee receives \$60.00 a month, uniforms and travelling expenses to the centre.

The practical work has been received in the following hospitals:

Hamilton . . . . .	St. Peter's Infirmery. Hamilton General Hospital. St. Joseph's Hospital.
Kingston . . . . .	Kingston General Hospital. Hotel Dieu Hospital.
Toronto . . . . .	Queen Elizabeth Hospital. Runnymede Hospital. Toronto General Hospital. Toronto Western Hospital. Hospital for Sick Children.

A few trainees from each centre received one month's experience with children in the Ontario Hospital, Orillia.

#### *Registration Examinations for Certified Nursing Assistants:*

Three examinations were held in May, September and December. The report on practical work from the hospitals forms three-fifths of the final grade. 193 candidates sat for the examination and were from:

(1) Prince Edward County Hospital, Picton . . . . .	6
(2) Mountain Sanatorium, Hamilton . . . . .	23
(3) Government Training Centres: Toronto, Hamilton and Kingston . . . . .	164

The total number registered on December 31st, 1947, is 110. Based on age and education there were no marked differences in class standing according to an analysis of the results of the examinations in May and September.

#### *Personnel:*

The personnel is composed of well qualified nurses, all of whom have contributed to the course in an excellent way. This group has participated regularly in staff education.

The staff is now as follows:

Hamilton—	Mrs. R. A. Whitty, Chief Instructor. Mrs. F. M. Duxbury, Assistant Instructor. Miss B. M. Davidson, Hospital Supervisor. Mrs. F. Meyer, Hospital Supervisor.
Kingston—	Miss E. P. Atcheson, Chief Instructor. Mrs. R. M. Johnson, Assistant Instructor. Mrs. H. V. McLean, Hospital Supervisor.
Toronto —	Miss J. F. Young, Chief Instructor. Miss W. P. Bell, Assistant Instructor. Miss M. E. Ball, Hospital Supervisor. Miss R. Hickson, Hospital Supervisor. Miss A. C. Tavener, Hospital Supervisor.

*Health Services:*

Before entrance to the training centres the applicants are required to have a satisfactory medical recommendation from their family doctor. During the first month the trainees receive a thorough health examination including physical examination, immunizations, tests and chest x-rays. Weight and illness are recorded throughout the entire nine months. In the last month the trainee receives a complete medical examination which is valuable for the welfare of the centre as well as for the trainee.

*Municipalities Represented:*

Trainees have come from 21 cities, 33 towns and 156 rural communities. From the inception of the course to January 27th, 1948, there has been a total enrolment of 469. So far 73% of this enrolment has been retained.

*Vocational Guidance:*

At the conclusion of the course considerable time is spent interviewing the trainees to advise them in regard to procuring employment. It is possible at this time to sum up the proper prospectives and to correct any misunderstandings in the mind of the trainee and to stress the importance and value each nursing assistant may be to her respective community especially in helping to overcome the shortage of trained nursing personnel in hospitals.

*Estimation of Usefulness:*

Graduate Nursing Assistants are now working in more than fifty hospitals in Ontario, a few are with the Toronto Branch of the Victorian Order of Nurses, a few with the community registries are engaged in private duty and a few are free lance.

Some of the hospitals are listed below:

Peel Memorial, Brampton; General, Brantford; General, Brockville; St. Joseph's, Chatham; International Nickel, Copper Cliff; Haldimand War Memorial, Dunnville; Groves Memorial, Fergus; Douglas Memorial, Fort Erie; McKellar General, Fort William; General, Galt; General, Hamilton; Ontario Hospital, Hamilton; Mountain Sanatorium, Hamilton; St. Joseph's, Hamilton; St. Paul's, Hearst; Hotel Dieu, Kingston; Ontario Hospital, Kingston; Convalescent, Kitchener; Kitchener and Waterloo, Kitchener; St. Mary's, Kitchener; General, Kincardine; Ross Memorial, Lindsay; Victoria, London; Workmen's Compensation, Malton; St. Andrew's, Midland; General, Niagara Falls; Civic, North Bay; Ontario Hospital, Orillia; General and Marine, Owen Sound; Cottage, Pembroke; General, Pembroke; General, Port Arthur; Braeside Home, Preston; Red Cross Outpost Hospitals; General, Sarnia; Plummer Memorial, Sault Ste. Marie; Hospital for Sick Children, Thistleton; Soldiers' Memorial, Tillsonburg; Hospital for Sick Children, Toronto; General, Toronto; Our Lady of Mercy, Toronto; Queen Elizabeth, Toronto; Runnymede, Toronto; Wellesley, Toronto; County of Bruce General, Walkerton; Ontario Hospital, Whitby; Metropolitan, Windsor; General, Wingham; General, Woodstock; Ontario Hospital, Woodstock; and the Orphanage, Woodstock.

It would be premature to comment on the success of this new worker in the community until more have completed the course and they have had sufficient time to demonstrate their usefulness. However, the first reports from employers have been most encouraging.

## DIVISION OF PUBLIC HEALTH NURSING

EDNA L. MOORE, Reg.N., *Director*

For the first four months of the year the Division staff included ten public health nurses and three stenographers; one member of the supervisory staff was on leave-of-absence for study and one was loaned to a Health Unit as Acting Supervisor; April 1st, Bertha E. Johnson and Rose Hally retired; July 21st Edna Squires returned from the Prescott and Russell Health Unit, and July 2nd Marjorie A. Rutherford reported for duty, having successfully completed the Advanced Course in Administration and Supervision at the University of Toronto School of Nursing.

Miss Johnson and Miss Hally were pioneers in public health nursing. The former joined the Department of Health staff through a transfer from the Department of Education in 1924 when the health services of the Government were amalgamated. She engaged in the demonstration programme of that period and was particularly successful in gaining the interest and confidence of communities which resulted in the establishment of local public health services. When the first Health Unit was inaugurated, Miss Johnson participated in the service. Later she joined the supervisory staff; in this capacity, she became known to health workers in most parts of the Province and she contributed substantially to the extension and development of public health nursing service.

Miss Hally was one of the original group of nurses, who in 1920 went into the Province to demonstrate public health nursing. She worked largely in the eastern and northern areas. Her skill in emergencies was well tested under difficult epidemic and disaster conditions in the Temiskaming and Cochrane Districts. She was associated with the Civil Service Health Service at its inception.

Since April 1st, Hilda G. Pennock has combined the work of Assistant to the Director and Regional Supervisor for a smaller area.

During 1947 the Educational Supervisor, Alice G. Nicolle, made 27 visits to 18 centres for the discussion of staff education plans, secondary school health service, student field practice, and to talk with public health nurses who recently completed the certificate course under the Department's Assistance Plan.

She also visited the Schools of Nursing of Queen's and McMaster and the Universities of Ottawa, Toronto, and Western Ontario. In connection with the Assistance Plan she gave thirty-two hours of teaching and spent many days in conference with individual graduate students. In addition all applicants for assistance were interviewed by the Educational Supervisor and the Director.

Miss Nicolle cooperated with the Nurse Registration Division in planning conferences in several centres with local hospital schools of nursing, representatives of the National and local Victorian Order of Nurses and the municipal public health nursing supervisors for the purpose of discussing objectives and methods for observation with the public health agencies by under-graduate students. Enquiries relating to many topics and requiring the organization of reference material and lengthy replies were dealt with by Miss Nicolle in increasing numbers.

Isabel Black, Regional Supervisor for Northern Ontario, suffered a severe injury in June. She returned to duty completely recovered in October.

While the supervisory staff was larger than in 1946, the activities of two supervisors were for six-month periods and of one for a three-month period, while a fourth was absent through illness for three months. In all 462 days were spent in the field, visiting 111 centres, representing 442 nurses. Time spent in the Division office was higher than in previous years. The results, however, are gratifying, namely the preparation of a Manual and discussion of the approach to the changing situation of the present. Also 168 days were devoted to special activities. Under this heading are included conferences with workers in allied fields, mainly education and social work, attendance at meetings of boards of health, committees, women's institutes and home and school associations.

At the request of the local Board of Health, Katherine E. Osborne made a survey of school conditions in the township of Sandwich West. The generalized public health nursing service established in August, was largely the outcome of the survey. Miss Osborne relieved the Senior Public Health Nurse of Halton County School Health Service for three months. She spent five weeks at Barrie in October and November at the request of the Boards of Health and Education, and two weeks with the Welland and District Health Unit in December. The reason for the two latter assignments was the existence of communicable disease.

The secretarial and stenographic work of the Division was considerably greater than in any previous year. In addition the staff was handicapped during the period of moving from the fifteenth floor to the present location on the fourth floor. The accomplishments were made possible by the splendid spirit of co-operation which is gratefully acknowledged.

Muriel V. Lowry represented the Division at the Canadian Public Health Association Convention held in Quebec City in May, and presented a paper before the Nursing Section.

In October Alice G. Nicolle attended the American Public Health Association Convention in Atlantic City.

Miss Elizabeth L. Smellie, C.B.E., R.R.C., LL.D., who has served the Department as Honourary Consultant in Public Health Nursing since 1935, retired from her post as Chief Superintendent, Victorian Order of Nurses for Canada, in May. Shortly afterward she left Ontario to live in British Columbia. Her going is a great loss to the Department and to the Division of Public Health Nursing in particular. From her broad experience, she was able to give wise counsel and constructive suggestions and she responded unstintingly to every request.

Since only five public health nurses could be secured to assist with the medical examinations of applicants to the Normal School and the College of Education, six members of the Division staff assisted with this activity to the extent of 49 days.

During the year five Health Units, one municipal generalized public health nursing service and one joint municipal school nursing service came into existence. The County of Halton and the United Counties of Lennox and Addington changed from the County School Health Service to the wider programme of the Health Unit. The East York-Leaside Unit was formed through a union of two active services, while the Counties of Kent and Leeds and Grenville had no

previous public health nursing service. It was necessary to recruit the entire staff for these Units and the municipal services in Sandwich West and Vaughan, Richmond Hill and Woodbridge.

The nursing staff needs of the new services, the extensions of existing services, and replacements necessitated through promotions, resignations, retirements and leaves-of-absence for study made heavy demands upon the available qualified public health nurses, however, the situation was met to a degree beyond our expectations. Of the 714 positions for public health nurses only 42 remained unfilled at the close of the year.

Because of the widespread interest in Health Unit organization and the many enquiries received by the Department, the Director made numerous field trips to discuss details of organization, administration and procedure as well as nursing staff requirements, while not a few office conferences were of a similar nature and a great deal of correspondence was associated with the same field of enquiry.

Of the 25 nurses who were enrolled at the beginning of the year for the certificate course under the Department's Assistance Plan, 24 were successful. They accepted positions throughout the Province. Six public health nurses successfully completed the Advanced Course in Administration and Supervision and one of the number secured the degree of Bachelor of Science in Nursing. They have accepted positions of leadership and responsibility. There was one failure in each course.

In September, twenty-two registered nurses entered upon the certificate course and seven experienced public health nurses began the Advanced Course under the Assistance Plan. The monthly allowance was raised to Sixty Dollars because of increases in university fees and in the cost of living.

Nineteen experienced public health nurses from fifteen official health services and four Division supervisors have pursued the four-weeks' course in Psychiatric Methods offered by the Toronto Psychiatric Hospital since March 1st, 1946. The expressions of gratitude for the opportunity and commendation for the course were general.

An Outline of General Procedures with considerable detail relating to certain phases of public health nursing was prepared in loose-leaf form and sent to local agencies as the basis for a Manual. A wide range of topics on which information would be desirable was shown in the suggested index. From time to time additional material will be prepared and distributed. Meanwhile each local service may add its own policies and procedures to meet the needs of the community served.

A Guide to the Organization of a Secondary School Health Service was developed in cooperation with other Divisions in the Department. It was reviewed by the Department of Education and will be ready for distribution early in 1948.

The Ontario Society for Crippled Children now has a staff of seven experienced public health nurses, each of whom has had special preparation in orthopaedic nursing. In December an office was opened in Windsor. As these nurses work throughout the Province in their specific field, their services as consultants are freely available to all public health nurses.

An exchange of nurses was arranged between the Metropolitan Health Committee of Greater Vancouver and the Elgin-St. Thomas Health Unit. One staff nurse from each agency reported to the other agency in July for a one-year period.

In the light of the wide publicity given to the "shortage of nurses," reference to the excessive number of resignations in certain services is an obligation. Industrial management has shown the value of continuous service and the importance of personnel practices which will encourage long term service. Securing new staff members and introducing them to the programme is costly. In addition their work is less productive during this period. Since the problem of securing public health nurses for new and existing services weighs heavily upon the staff of this Division, it seems pertinent to indicate that unless these and other matters concerning relationships within the sphere of professional activity are approached presently and resolutely the difficulties are likely to increase.

The Division was honoured to receive the following visitors: Miss Gerda Hojer, President, International Congress of Nurses, Sweden; Miss Lise Hering, Strasbourg School of Nursing, France; A. V. Green, Esq., J.P., King George Hospital, Ilford, Essex, England; Miss Mary I. Lambie, Director, Division of Nursing, Health Department, Wellington, New Zealand; Miss Kathleen S. Wilson, Children's Hospital, Melbourne, Australia; Miss Joan Gibbins, South Africa; Miss Joy A. Alley, Director, Post-Graduate School of Nursing, Wellington, New Zealand; Miss T. K. Adranvala, J. J. Group of Hospitals, Bombay, India; Miss Martha Crawford, Cleveland, Ohio; Miss Brigitte Laliberte, Montreal Health Department, Montreal; Miss Sara Elza Norton, Woking, England; Miss Lyle Creelman, Vancouver, British Columbia; Miss Delta MacDonald, Salisbury, New Brunswick; Miss Marian M. McAfee, Saint John, New Brunswick; Miss Jenny M. Weir, School of Nursing, Queen's University, Kingston, Ontario.

## DIVISION OF SANITARY ENGINEERING

A. E. BERRY, M.A.Sc., C.E., Ph.D., *Director*

The report of the Division of Sanitary Engineering for the year 1947 involves a variety of activities. There has been further progress in the post-war adjustments, making it possible to advance programmes that have been delayed for some time. Materials and supplies have been short, and prices have risen very substantially. These factors have contributed to delays in construction, but in spite of this there has been tremendous activity in waterworks, sewerage and environmental sanitation programmes.

No materially different activities have been undertaken by the Division during the year, but work has continued in the field of water supply, sewerage, refuse collection and disposal, milk processing, inspection and licensing of summer camps, supervision over some recreational facilities, licensing of frosted food locker plants, administration of cemetery regulations, advice to local health agencies, and the preparation of regulations dealing with eating establishments.

### *Water Works Programmes:*

Widespread activity in the water works field has been witnessed throughout the entire province, and in this period 261 certificates of approval were issued for new water works or for extensions to existing plants. The estimated cost of these works was \$7,872,503.08. This is a marked increase over the expenditure for the previous year of \$5,516,258.32. This is one of the highest years of expenditures in the history of the Department. This greater amount can be attributed to increased interest in water works construction programmes, and to higher costs over those of previous years.

There has been wide interest in the small communities in undertaking water works systems, and in extending the mains in those places where systems already exist. Much of the work which had been authorized by votes of the ratepayers in the previous year was initiated in 1947. In addition to this, the following places have either voted on water works systems or have taken steps in the expectation of undertaking the work at an early date: Ripley, Norwood, Chelmsford, Caledonia, Kemptville, Merrickville, Elora, Brussels, New Hamburg, King and Port Perry.

A most gratifying feature of the year's activities has been this interest, in the small communities, towards establishing public water works systems. It is apparent that these centres intend to secure public services wherever it is economically feasible. It is anticipated that this work will continue for some time until public supplies can be provided in all communities of 500 or more. It has been shown in these places that it is feasible for them to finance the expenditures. One favourable factor has been the very low interest rate which prevailed.

The Division has continued supervision over water treatment plants, with regular inspections being made by members of the staff. Additional personnel has made it possible to give more attention to these activities. Samples have been examined regularly in the Division's laboratory at Richmond Street, and assistance has been provided in the operation of treatment works.

*Public Sewage Works.*

The programme in sewage works has increased tremendously during the year, and again it is evident that the expenditures approved for the year have reached an all-time high, if the programme for the City of Toronto in a previous year was excluded. Again, some of the work approved in the previous year has been advanced, and many new programmes have been developed.

The Division has reviewed applications for approval of sewage works, and has issued 318 approvals involving an estimated expenditure of \$9,787,360.58. This may be compared with the figure of \$6,198,446.96 of the previous year. Thus, the work in this field continues to expand, and it is apparent that similar efforts are being made here as in water works, namely, to provide these public services to the maximum number of persons. The table of approvals in this report shows the municipalities in which this work has been approved. Restrictions on materials, as well as high costs, have delayed further the expansion of existing sewage treatment plants. Many of these are now considerably overloaded and will have to be enlarged in the near future. Water consumption has increased in most municipalities, and this has been accompanied by a greater flow of sewage as well as an increase in solids and organic concentration. Until these treatment plants can be brought up to standard and new ones constructed it will not be possible to exercise the desirable supervision over stream sanitation. Progress is being made but it was hampered by conditions which prevailed during the year.

During the year votes have been taken on sewage works or other preliminary action for the following municipalities: Hagersville, Milton, Port Elgin, Elora, Uxbridge and New Hamburg.

The Division has continued to give assistance and supervision over sewage treatment plants. Samples have been collected as a routine and assistance provided to the operators. It has not been feasible to provide as much attention to this part of the programme as is desirable, but with increased personnel more concentration of effort can be anticipated. All this is necessary to ensure protection of watercourses of the province, as well as safety for the citizens who come in contact with these water supplies in any form. There are now in operation 27 activated sludge plants, 8 trickling filter plants, and 44 sedimentation tanks, and 6 plants of other types, serving municipalities.

*Milk Sanitation:*

The same routine procedure has applied during the year in the field of milk sanitation. This involves the inspection and supervision of all milk pasteurization plants, with certification as required under the regulations. At the end of 1947 there were 686 pasteurization plants in operation.

Inspection of pasteurization plants by officials of this Division amounted to 1,283 as compared with 886 for the year 1946. This work included the collection of samples, and there were 140 farm inspections made at the special requests of the local municipality. It is believed that about 99% of all the milk sold in the province is now pasteurized under the legislation which was adopted in 1938. No additional areas were brought under this Act in 1947.

In the programme of milk sanitation it is obvious that there is need for further supervision over the raw milk supplies. If the best results are to be obtained from the milk processing plants it is necessary to ensure that the raw milk reaching



these dairies will be clean and of good quality. As yet no provincial standard has been adopted for milk production although the matter has been given consideration. Considerable improvement has been brought about by the activities of the Health Units, and as time goes on it is hoped that a greater uniformity in supervision can be expected. This is certain to bring about a higher quality of milk for the consumer.

#### *Stream Sanitation:*

Work on stream sanitation has been centred primarily on the Boundary Water Survey being conducted by the United States and Canada, and involving the St. Clair River, Lake St. Clair, Detroit River and St. Marys River. The work on this has continued and, it is expected, will be completed in 1948. This activity has meant that available personnel has had to be concentrated on it, and there has been little opportunity for doing work on other streams throughout the province. As it becomes possible to increase sewage treatment facilities there should be a noticeable improvement in stream sanitation. The objective is to ensure that all sewage and industrial wastes will be adequately treated before discharge to any watercourse. This programme is an extensive one and will require an extended period for completion.

#### *Refuse Collection and Disposal:*

Interest has increased during the year in the collection of refuse and in methods for sanitary disposal. Incineration and sanitary fill have been used with effective results. During the year approvals were given for incinerators in the following municipalities: Etobicoke Township, Kingston, Mimico and Tilbury. When these are completed there will be 27 municipalities having incinerators in operation. Several other municipalities are contemplating the construction of incinerators, or the adoption of sanitary fill, or some other sanitary arrangement. It is gratifying at this time to note the interest that is apparent in more sanitary methods of disposal of municipal refuse.

#### *Food Sanitation:*

The programme in food sanitation has been expanded during the year through the supervision of frosted food locker plants, surveys of slaughter houses, canning factories, bakeries, restaurants, and other establishments where food is processed or handled.

Licensing of frosted food locker plants, initiated in 1946, has been continued and at the end of the year there were 482 plants either in operation or under construction. 864 inspections were made of these plants during the year, and 416 licenses were issued. There continues to be a wide interest in the construction of these plants to serve the needs of the public. Considerable improvement has been made during the year in the construction of the plants and in their operation.

Regulations were passed on October 16th, 1947, for the control of eating establishments throughout the province to take effect on January 1st, 1948. These regulations set up minimum standards throughout the entire province and are applicable to all public health agencies, with technical assistance available by the Department. The regulations do not provide facilities for licensing but this continues with the municipal councils. It is expected that these regulations will bring considerable improvement in conditions in the restaurants, and will be responsible for more uniform standards in small as well as large communities.

Activity has been continued during the year in other food handling establishments. Temporary standards have been prepared for slaughter houses, and studies have been made of requirements for canning factories, bakeries, and other places in which food is handled or processed. Public interest has been maintained at a high level in sanitation needs for all food establishments, and it is expected that this work will gradually expand until the field is well covered.

#### *Recreational Sanitation:*

Recreational sanitation during the year has involved the inspection and licensing of summer camps as well as supervision over the lakeland regions. Summer camps have increased in number and the licenses issued for the year totalled 443. This work involved inspections to the number of 457. The condition of these summer camps continues to improve as camps meet the requirements in the regulations, and strive to adopt higher standards of sanitation and service.

The work in the lakeland regions has continued with two engineers being stationed at Gravenhurst during the summer. Through this activity it has been possible to exercise supervision over the Muskoka and Lake-of-Bays regions. Special attention has been given to sanitation of the lake waters, involving proper disposal of sewage, ensuring good drinking water supplies, and control over food supplies served in public places.

No inspection has been made of tourist camps since this work has been taken over by the Department of Travel and Publicity with regulations now being in force and through which licenses are required for each tourist camp. The Division has co-operated with the Department of Travel and Publicity towards better sanitation in this field.

It is apparent that in the field of recreational sanitation particular emphasis must be given to the lakeland regions where there is a great concentration of population during the summer months. Again, in these areas, summer illness has been apparent from time to time, and as yet no specific causes or treatment have been developed either in this country or elsewhere.

#### *Nuisances and Complaints:*

Complaints of nuisances continue to involve a good deal of time on the part of the staff of the Division. These requests came in to the extent of about 250 during the year. They involve requests from local Boards of Health as well as from private parties who have grievances upon which they wish assistance. Many different conditions are involved in these complaints, and while many are not of a public health nature, this can be revealed only by an investigation. This involves a good deal of travelling and time. Every effort is made to supply Health Units and local Boards of Health with technical assistance in matters of sanitation.

#### *Assistance to Sanitary Inspectors:*

During the year an effort has been made to provide assistance for sanitary inspectors in local Health Units and in other local administrations. For this purpose, Mr. H. G. Tyler has been made available as a regional adviser in sanitation, and, at the end of the year, Mr. A. S. O'Hara from Kenora has joined the staff of the Division to act in conjunction with Mr. Tyler to provide assistance to local sanitary inspectors. The objective here is to encourage activity on the part of the inspectors and to develop a more uniform system of carrying on this work.

*Typhoid Fever Statistics:*

During the year there were reported 77 cases of typhoid fever with 6 deaths, thus giving a death rate of 0.15 per 100,000 population for the province. The control of typhoid fever continues to be effective, with close supervision over water supplies, milk supplies, and environmental sanitation in general.

*Cemeteries:*

Supervision has been continued as in previous years over the cemeteries of the province. No change has been made in the regulations or legislation pertaining to these. Approvals for establishment of burying grounds or enlargements have been issued to the extent of 15. It has not yet been possible to obtain a complete list of cemeteries in the province but much work has been carried on towards bringing the cemeteries up to the requirements of the Regulations. Better rules and by-laws have been passed, and plans are being prepared for many cemeteries where these were not in good condition previously.

*Laboratory Examinations:*

During the year the laboratory of the Division located on Richmond Street, examined 1,939 bacteriological water samples and 269 chemical samples. The analyses for sewage included 6,970 chemical tests, along with 6,242 tests for the Boundary Water Survey. The bacteriological examinations on milk amounted to 783 samples, as well as the Phosphatase Test on 680 samples. Sanitary surveys were made in three centres with the collection of water samples and other pertinent data.

The field work carried on during the summer involved the following inspections—water supply 475, sewerage and sewage treatment 271, camps and recreational sanitation 589, milk supply 1,470, food control 1,370, and miscellaneous activities 149, making a total of 4,324 field inspections.

Appended is a summary of the certificates issued during the year in respect to water works and sewerage systems.

CERTIFICATES ISSUED RE: WATERMAIN EXTENSIONS,  
 PURIFICATION, ETC., FOR THE YEAR 1947

MUNICIPALITY	Number of Certificates	Watermain Extensions	Supply and Purification	New Systems
Acton.....	3	\$ 31,757.32		
Almonte.....	1	29,671.65		
Arnprior.....	3	78,773.95		
Atikokan.....	1	151,716.37		
Aurora.....	1	10,800.77		
Aylmer.....	1	17,139.21		
Barton Township.....	3	44,633.93		
Belleville.....	1	35,000.00		
Belmont (Police Village).....	1			\$ 65,000.00
Bowmanville.....	1	28,500.00		
Bradford.....	1	32,000.00		
Brampton.....	1	19,919.36		
Brussels.....	1			128,000.00
Burlington.....	1	9,626.43		
Caledonia.....	1			135,000.00
Campbellford.....	1	9,206.00		
Carleton Place.....	1	2,406.00		
Cayuga.....	1			110,000.00
Chatham.....	3	15,782.00		
Chatham Township.....	1	3,350.00		
Chelmsford.....	1			87,000.00
Chippawa.....	1	5,842.49		
Cobden.....	1			97,000.00
Cornwall.....	5	25,253.00		
Crowland Township.....	2	16,818.45		
Crystal Beach.....	1		\$ 2,500.00	
Delhi.....	3	19,595.00		220,000.00
Dunnville.....	2	35,000.00		
Elora.....	1			175,915.00
Englehart.....	1	13,522.20		
Essex.....	1		60,000.00	
Etobicoke Township.....	7	131,140.00	15,000.00	
Flamboro West Township.....	1	8,963.75		
Fonthill.....	1	8,975.00		
Fort Erie.....	1	3,673.00		
Fort Frances.....	2	31,320.25		
Fort William.....	1	4,250.00		
Galt.....	2	11,154.59		
Gananoque.....	1	6,932.75		
Grantham Township.....	7	74,600.00		
Grimsby.....	1	5,000.00		
Grimsby North Township.....	2	5,074.38		
Hagersville.....	1			100,000.00
Hamilton.....	17	370,215.00	650,000.00	
Hawkesbury.....	1	5,824.74		
Hearst.....	1			129,700.00
Hespeler.....	1	3,020.00		
Huntsville.....	1		20,000.00	
Kapuskasing.....	1	44,315.00		
Kemptville.....	1	79,500.00		
Kenora.....	1	21,237.94		
Kincardine.....	1		36,896.00	
King (Police Village).....				46,000.00
Kingston.....	2	66,295.73		
Kingston Township.....	1	19,524.44		
Kitchener.....	3	15,549.60		
Larder Lake Township.....	2	12,000.00		75,848.17
Leamington.....	1	9,278.00		
London Township.....	7	28,275.00		
Long Branch.....	1	4,500.00		
Maidstone Township.....	1	10,084.99		
McKim Township.....	1	11,500.00		
Meaford.....	2	8,000.00	24,000.00	
Midland.....	1	4,125.63		
Napanee.....	1	11,500.00		

CERTIFICATES ISSUED RE: WATERMAIN EXTENSIONS,  
PURIFICATION, ETC., FOR THE YEAR 1947—Continued

MUNICIPALITY	Number of Certificates	Watermain Extensions	Supply and Purification	New Systems
Neelon and Garson Townships...	1			68,938.00
Nelson Township.....	1	11,488.22		
Nepean Township.....	1	42,987.00		
New Liskeard.....	1	18,724.00		
Niagara.....	1	7,987.00		
Niagara Falls.....	2	25,662.89		
Niagara Township (Queenston) ..	1	1,858.36		
Orillia.....	2	32,770.33		
Ottawa.....	8	58,200.00		
Owen Sound.....	1	41,829.99	13,594.47	
Peterborough.....	3	308,511.81		
Poitras Township (Canadian Inter- national Paper Co.).....	1	11,522.00		
Port Arthur.....	5	295,308.66	187,000.00	
Port Credit.....	1	2,374.60		
Port Hope.....	3	31,980.00		
Port McNicoll.....	1			121,709.68
Port Perry.....	1			65,000.00
Raleigh Township.....	1	14,250.00		
Red Rock I.D.....	1			67,540.00
Rockcliffe Park.....	2	3,323.51	20,000.00	
Sandwich East Township.....	3	17,028.00		
Sandwich South Township.....	1	5,876.00		
Sarnia Township.....	5	41,336.99		
Sault Ste. Marie (Algoma Ore Properties Limited), Wawa Townsite.....	1			105,000.00
Scarborough Township.....	12	105,241.27	175,000.00	
Smiths Falls.....	2	32,568.87		
Stamford Township.....	7	42,860.93		
Streetsville.....	1	4,967.33		
Sudbury.....	3	94,571.69		
Swansea.....	2	5,275.00		
Tara.....	1			66,600.00
Thamesford.....	1		1,000.00	
Thornbury.....	1	4,000.00		
Thorold Township.....	2	7,800.00		
Thurlow Township.....	1	5,740.00		
Tilbury.....	1	50,000.00		
Timmins.....	3	22,217.37		
Toronto.....	4	532,945.00	28,750.00	
Toronto Township.....	1	101,086.40		
Trenton.....	1	35,002.30		
Uxbridge.....	1	3,426.44		
Victoria Harbour.....	1			56,783.09
Waterford.....	2	35,976.48		
Waterloo.....	1	7,263.32		
Waterloo Township.....	3	39,572.35		
Westminster Township.....	3	8,030.00		
Weston.....	2	2,940.00	125,000.00	
Whitby.....	2	26,299.12		
Whitby East Township.....	1	14,986.02		
Wingham.....	1	8,300.00		
York Township.....	7	63,559.00		
York East Township.....	4	81,045.00		
York North Township.....	20	361,891.50	270,000.00	
Total.....	261	\$4,322,728.67	\$1,628,740.47	\$1,921,033.94

## CERTIFICATES ISSUED RE SEWERAGE FOR THE YEAR 1947

MUNICIPALITY	Number of Certificates	Sewer Extensions	Disposal	New Systems
Almonte.....	1	\$ 31,984.37		
Amherstburg.....	1	3,369.00		
Arnprior.....	1	16,789.08		
Atikokan.....	1			\$ 59,022.97
Aurora.....	1	17,478.40		
Barrie.....	2	30,279.41		
Barton Township.....	3	52,629.45		
Belleville.....	7	34,757.62		
Bowmanville.....	1		\$ 190,000.00	
Brampton.....	1	9,623.30		
Brantford.....	1	38,811.26		
Brockville.....	1	3,325.00		
Caledonia.....	1	15,000.00		
Campbellford.....	1	34,090.00		
Cardinal.....	1	900.00		
Carleton Place.....	1	11,598.00		
Chatham.....	3	17,310.00		
Clinton.....	1			334,841.77
Cobourg.....	1	116,500.00		
Cornwall.....	5	10,983.50		
Cornwall Township.....	2	41,707.70		
Crowland Township.....	1	23,243.00		
Crystal Beach.....	3	10,083.90		
Delhi.....	2	31,042.00		184,803.00
Dryden.....	2	43,670.00		
Dundas.....	2	22,159.87		
Eastview.....	1	2,172.69		
Elora.....	1			142,000.00
Englehart.....	1	12,902.55		
Etobicoke Township.....	8	177,255.00	9,715.42	
Forest Hill.....	1	4,700.00		
Fort Erie.....	2	8,293.08		
Fort Frances.....	1	5,772.30		
Fort William.....	1	32,061.00		
Galt.....	1	20,555.25		
Goderich.....	1	1,161.50		
Gloucester Township.....	1	22,839.25		
Grantham Township.....	1	5,500.00		
Gravenhurst.....	1			40,000.00
Grimsby.....	3	11,900.00	75,000.00	
Hagersville.....	1			100,000.00
Haileybury.....	1		6,500.00	
Hamilton.....	14	324,492.00		
Hawkesbury.....	1	5,592.00		
Hearst.....	2	124,683.15		
Hespeler.....	3	7,345.00		
Ingersoll.....	1			700,000.00
Kapuskasing.....	1	141,965.00		
Kemptville.....	1	108,400.00		
Kenora.....	1	36,047.44		
Kingston.....	11	80,981.17		
Kingston Township.....	1	123,861.56		
Kitchener.....	5	75,320.00		
Larder Lake Township.....	2	18,500.00		76,000.00
Leamington.....	3	197,213.00		
Leaside.....	1	4,150.00		
London.....	10	183,650.00		
London Township.....	1	13,885.00		
Long Branch.....	2	38,900.00		
McIrvine Township.....	1	9,062.00	2,938.00	
Midland.....	1	21,857.36		
Milton.....	1			292,000.00
Mimico.....	2	5,375.00		
Morrisburg.....	1	900.00		
Mount Forest.....	1	48,304.08		

## CERTIFICATES ISSUED RE SEWERAGE FOR THE YEAR 1946—Continued

MUNICIPALITY	Number of Certificates	Sewer Extensions	Disposal	New Systems
Nepean Township	1	51,294.00		
New Liskeard	1	15,647.90		
New Toronto	2	2,750.00		
Newmarket	1	13,325.00		
Niagara	1	3,000.00		
Niagara Falls	3	17,350.94		
Niagara Township	1	25,478.19	6,321.00	
Oakville	3	68,100.00	132,208.00	
Orangeville	1		5,000.00	
Orillia	6	96,348.09		
Oshawa	4	50,773.09		
Ottawa	3	28,975.00		
Penetanguishene	3	17,178.70		
Peterborough	7	83,924.51		
Poitras Township (Canadian International Paper Co.)	2	35,688.00		
Port Arthur	4	203,338.56		
Port Colborne	2	16,938.00		
Port Elgin	1			200,000.00
Port Hope	3	36,732.00		
St. Catharines	4	13,622.00		
St. Thomas	5	187,238.93		
Sarnia	7	151,128.65		
Sault Ste. Marie	3	34,572.00		96,000.00
		(Algoma Ore Properties Ltd.)		
Scarborough Township	3	362,665.09		
Simcoe	1	11,036.75		
Smiths Falls	2	24,369.23		
Stamford Township	3	9,555.69		
Stratford	2	6,901.90		
Strathroy	1	25,077.00		
Streetsville	1	47,899.00	52,101.00	
Sudbury	3	108,445.00		
Swansea	2	11,515.00		
Tecumseh	1	7,768.00		
Thorold Township	1	5,600.32		
Tilbury	1	50,000.00		
Timmins	3	36,272.95		
Tisdale Township	1	4,036.12		
Toronto	29	1,558,266.00		
Trafalgar Township	1	18,000.00		
Trenton	1	5,610.00		
Uxbridge	1			175,000.00
Wallaceburg	2	13,500.00	12,000.00	
Waterloo	5	41,027.24	160,000.00	
Waterloo Township	2	24,679.20		
Welland	1	14,965.00		
Westminster Township	3	5,950.00		
Weston	1	4,788.00		
Whitby	2	14,974.80		
Woodstock	4	17,202.40		
Wingham	2	39,343.20		
York Township	5	72,814.00		
York East Township	7	300,334.11		
York North Township	19	246,978.62		
Total	318	\$6,735,909.42	\$ 651,783.42	\$2,399,667.74

## SUMMARY

Re WATERWORKS:	Estimated Cost
Extensions to existing systems.....	\$4,322,728.67
Purification of water supplies.....	1,628,740.47
New systems.....	1,921,033.94
Total.....	<u>\$7,872,503.08</u>
Re SEWERAGE:	
Extensions to existing systems.....	\$6,735,909.42
Treatment works.....	651,783.42
New sewerage systems.....	2,399,667.74
Total.....	<u>\$9,787,360.58</u>
The total number of applications favourably reported upon re water works and sewerage for the year was 579 and involves an estimated expenditure of.....	\$17,659,863.66



## DIVISION OF TUBERCULOSIS PREVENTION

G. C. BRINK, M.B., *Director*

The work of the Division during 1947 has expanded considerably, principally in the increase of periodic referred clinics under the supervision of the Department's clinic centres, or of sanatoria. This has resulted in an increase in the number of clinic examinations in the departmental clinics to an all-time high. Medical staff is still lacking for the Fort William and North Bay units. In connection with the latter Dr. C. R. Rorabeck joined the staff in the fall and was assigned to North Bay as of January 1st, 1948.

During the last three months, in addition to the usual mass surveys, all immigrants from the British Isles were x-rayed upon arrival; approximately 4,000 such persons were examined. In order to inaugurate a system of securing chest films before leaving for Canada, Dr. Brink, Director of the Division, accompanied by an X-ray technician, proceeded to England the latter part of December.

The sanatorium bed situation has eased somewhat during the year with the re-opening of certain beds which were not in use because of lack of staff. Lack of building materials and money has delayed proposed additions to the Royal Ottawa Sanatorium, and the building of sanatoria at Sudbury and Kingston. Forty-seven beds were added to the Niagara Peninsula Sanatorium at St. Catharines in the late fall. At the end of the year approximately 200 persons were awaiting admission to sanatorium.

A study has been made of the existing chest clinics throughout the province with a view to improving diagnostic facilities in general. It has been found that in recent years the role of the chest clinics—viz., tuberculosis case finding and follow-up, has been overlooked in many instances; as a result the tendency is to carry many non-tuberculous chest conditions on the register. Also, many are being followed as contacts at too frequent intervals and for too long a time. The Division is stressing the necessity of a close check being kept on all clinic records with a view to eliminating those who do not fall within the province of a tuberculosis control programme. An effect is being made to screen all contacts and cases referred for the first time, by chest X-ray, only those individuals with abnormal shadowing being referred to the attending clinician for further investigation. Such a procedure would increase the efficiency of the clinic,—reducing costs and utilizing the physician's time to the best advantage.

With the assistance of various local voluntary tuberculosis committees, comprising the Ontario Tuberculosis Association, miniature film X-ray equipment has been donated to several hospitals to be used not only in ordinary chest clinic work, but also to provide facilities for the X-raying of all hospital admissions. This is a worthwhile project and in one hospital in which this programme had been in operation since July 1st, 1947, an appreciable number of cases of active pulmonary tuberculosis, as well as a significant number of non-tuberculosis chest conditions, have been discovered. It is hoped that as more equipment becomes available such a project will be inaugurated in those hospitals in which this scheme is practicable.

## PART I

## A

REPORT OF THE WORK DONE IN AREAS UNDER SUPERVISION  
OF THE DEPARTMENT'S CHEST CLINICS

The policy of setting up referred chest clinics in hospitals or physicians' offices, where X-ray equipment is available, has been continued. These are free to those attending, the films being paid for by the local Seal Sale Committees of the Ontario Tuberculosis Association. As a result, the Department's chest clinic services are two-fold—first to interpret and report upon the films taken in these clinics, and secondly, to visit other centres in their areas where X-ray facilities are not available.

*Toronto Unit*

Weekly clinics were conducted in Oshawa and monthly clinics in Lindsay and Brampton, all under the Ontario Tuberculosis Association.

*Ottawa Unit*

(a) Periodic chest clinics, under the Ontario Tuberculosis Association, operated in Pembroke, Renfrew, Arnprior, Almonte, Smiths Falls, Perth, Carleton Place.

(b) The clinic visited Prescott, Hawkesbury, Richmond, Bourget, Plantagenet, Eganville, Casselman, Rockland, Kemptville and Cardinal.

(c) Regular monthly clinics were held in the clinic headquarters in Ottawa.

*Belleville Unit*

(a) Periodic chest clinics, under the Ontario Tuberculosis Association, operated in Cobourg, Port Hope, Peterboro, Haliburton.

(b) The clinic visited Brockville, Picton, Gananoque, Bowmanville, Marmora, Napanee, Trenton, Tweed, Havelock, Bancroft, Campbellford, Hastings and Madoc.

(c) Clinics were conducted daily in the clinic headquarters in Belleville.

*Timmins Unit*

(a) Periodic chest clinics, under the Ontario Tuberculosis Association, operated in Hearst, Kapuskasing, Smooth Rock Falls, Cochrane, Iroquois Falls and Matheson.

(b) Weekly clinics were conducted in the clinic headquarters, Timmins.

*North Bay Unit*

(a) Periodic chest clinics under the Ontario Tuberculosis Association, operated in Sault Ste. Marie, Blind River, Mattawa, Mindemoya, Gore Bay and Little Current.

(b) Clinics were conducted in Manitowaning, Chapleau, Batchawana, Goulais Mission, Temagami, Spanish and Sudbury.

(c) Monthly clinics were conducted in the clinic headquarters in North Bay.

TABLE I  
SUMMARY OF THE WORK OF THE DEPARTMENT'S  
CHEST CLINICS

	Examina- tions	Toronto	Ottawa	Belle- ville	Timmins	Fort William	North Bay	Totals
1. Pulmonary Tuberculosis.....	First Repeat	26 121	56 431	139 662	67 443		141 602	429 2259— 2688
(a) Active.....	First Repeat	8 8	25 61	22 41	14 33		38 49	107 192— 299
Inactive.....	First Repeat	18 113	31 370	117 621	53 410		103 553	322 2067— 2389
(b) Newly Discovered.....	First Repeat	7 4	33 25	39 23	17 6		45 21	141 79— 220
Already Known.....	First Repeat	19 117	23 406	100 639	50 437		96 581	288 2180— 2468
(c) Childhood Infection (Primary)	First Repeat	0 1	2 15	5 17	4 22		1 14	12 69— 81
Minimal.....	First Repeat	12 65	16 259	93 399	41 205	NOT IN OPERATION	59 253	221 1181— 1402
Moderately Advanced.....	First Repeat	13 42	31 139	29 195	14 154		23 283	110 813— 923
Far Advanced.....	First Repeat	4 10	7 18	12 51	11 65		6 32	40 176— 216
2. Pleurisy with Effusion.....	First Repeat	0 0	2 4	2 5	2 2		4 2	10 13— 23
3. Extra Pulmonary Tuberculosis....	First Repeat	0 0	3 0	3 0	0 2	0 1	6 3— 9	
4. Suspected Tuberculosis.....	First Repeat	2 3	4 6	13 17	9 7	8 8	36 41— 77	
5. Non-Tuberculous Disease.....	First Repeat	19 18	33 54	219 132	52 80	25 22	348 306— 654	
6. No Disease.....	First Repeat	361 167	1223 1614	3352 1611	1087 780	1472 1197	7495 5369—12864	
7. Recommended for Sanatorium....	First Repeat	5 3	20 43	21 29	9 17	28 30	83 122— 205	
8. Number Individuals Examined...		548	1863	5423	2323	3068	13225	
9. Pneumothorax Refills.....		0	22	940	691	0	1653	
10. Totals.....	First Repeat	411 306	1321 2145	3728 2424	1218 1315	1650 1832	8328 8022—16350	
11. Total Number Examinations.....		717	3466	6152	2533	3482	16350	

TABLE II  
CLASSIFICATION OF ACTIVE CASES OF TUBERCULOSIS

Clinic	Primary	Minimal	Moderately Advanced	Far Advanced	Pleurisy with Effusion
Toronto.....		5	7	2	
Ottawa.....	2	14	28	12	1
Belleville.....	4	25	10	13	4
Timmins.....	4	14	8	12	2
Fort William.....		(Clinic not in operation)			
North Bay.....	5	32	34	16	6
Totals.....	15	90	87	55	13

TABLE III  
SUMMARY OF CLINIC FINDINGS  
1943-1947

Year	Number of Examinations	Number of Examinations of Persons with Tuberculosis (Active and Inactive; First and Repeat Examinations)
1943.....	15,593	2,130—14%
1944.....	13,815	2,255—17%
1945.....	15,454	2,625—17%
1946.....	13,611	2,048—15%
1947.....	16,350	3,106—19%

SUMMARY OF NEWLY DISCOVERED CASES—TOTAL 220

- 220 new cases of tuberculosis were found.
- 141, or 63.1%, were found on first examination; 79, or 36.9%, were repeat examinations.
- 97, or 44.1%, gave a history of contact with tuberculosis; 123, or 55.9%, gave no history of contact.
- 99, or 44.6% were males; 121, or 55.4%, were females.
- 131, or 59.4%, were classed as active; 89, or 41.6%, were classed as inactive.
- Of the 97 giving a history of contact, 43, or 44.8%, were referred because of contact only and with no symptoms referable to the chest.
- 112, or 50.7%, were recommended for sanatorium; of these 25, or 22.1%, did not realize they were ill and were classified as follows:

Childhood (primary infection).....	2
Minimal.....	15
Moderately Advanced.....	5
Far Advanced.....	3

TABLE IV

RELATION OF NUMBER OF NEW CASES OF TUBERCULOSIS FOUND TO  
NUMBER OF CONTACTS EXAMINED FOR THE FIRST TIME

Age Groups	Number Contacts Examined for First Time	Number Cases of Tuberculosis Found (excluding Primary Type)	Percentage of Contacts Examined Showing Disease %	Number cases of Active Tuberculosis Found (excluding Primary Type)	Percentage Contacts Examined Showing Active Disease %
0 to 4	179	2	1.1	1	.5
5 to 9	262	1	.4	1	.4
10 to 14	292	4	1.4	2	.7
15 to 19	365	12	3.3	9	2.4
20 to 24	446	16	3.6	12	2.7
25 to 29	470	10	2.1	7	1.5
30 to 39	635	15	2.4	12	1.9
40 to 49	367	15	4.1	11	3.0
50 to 59	224	9	4.0	3	1.3
60 to 69	105	9	8.6	2	1.9
70 and over	37	5	13.5	1	2.7
Totals	3,382	98	2.9	61	1.8

TABLE V

COMPARISON OF NUMBER OF NEW CASES OF TUBERCULOSIS FOUND IN  
RELATION TO NUMBER OF CONTACTS EXAMINED FOR FIRST TIME

1943-1947

Year	Number Contacts Examined	Number Cases Tuberculous Disease Found	Percentage of Number Contacts Examined %	Number Cases of Active Tuberculosis Found	Percentage %
1943.....	4,007	144	3.6	63	1.5
1944.....	2,832	52	1.8	23	.8
1945.....	3,103	43	1.3	27	.8
1946.....	2,731	44	1.6	27	1.0
1947.....	3,382	98	2.9	61	1.8

TABLE VI  
CLASSIFICATION OF NEWLY DISCOVERED CASES

Classification	Number	Percentage of Total %	Percentage of Number with Reinfection (Adult) Type of Disease %
Primary Infection..... Active	9	7.1	.....
..... Inactive	13	14.4	.....
Minimal..... Active	45	33.8	37.4
..... Inactive	71	79.0	92.2
Moderately Advanced..... Active	41	32.3	35.6
..... Inactive	5	5.5	6.5
Far Advanced..... Active	26	19.0	21.7
..... Inactive	1	1.1	1.3
Pleurisy with Effusion.....	6	4.7	5.3
Non-Pulmonary..... Active	3	2.3	.....
..... Inactive	0	.....	.....
Totals..... Active	129	100.0	100.0
..... Inactive	91	100.0	100.0

TABLE VII  
SUMMARY OF NEWLY DISCOVERED CASES  
(PULMONARY ONLY)

1943-1947

	Number of Newly Discovered Cases	Percentage of Total %	Average Percentage %
Minimal—1943.....	222	64	60
..... 1944.....	127	55	
..... 1945.....	124	62	
..... 1946.....	117	60	
..... 1947.....	116	61	
Moderately Advanced—1943.....	84	24	25
..... 1944.....	71	30	
..... 1945.....	50	25	
..... 1946.....	44	23	
..... 1947.....	46	24	
Far Advanced—1943.....	41	12	15
..... 1944.....	36	15	
..... 1945.....	26	13	
..... 1946.....	33	17	
..... 1947.....	27	15	

SUMMARY OF CASES RECOMMENDED FOR SANATORIUM—  
TOTAL 205

- 205 persons were recommended for sanatorium.
- 113, or 54.6%, were males; 92, or 45.4%, were females.

3. 83, or 39.8%, were recommended on first examination; 122, or 60.2%, on repeat examination.
4. 50, or 24.1%, did not realize they were ill, as follows:

Childhood (primary infection) . . . . .	5
Minimal . . . . .	28
Moderately Advanced . . . . .	14
Far Advanced . . . . .	3

TABLE VIII

## CLASSIFICATION OF CASES RECOMMENDED FOR SANATORIUM

Classification	Number	Percentage of Total %	Percentage of Number with Re-infection (Adult) Type of Disease %
Primary Infection . . . . .	8	3.9	....
Minimal . . . . .	66	31.7	33.7
Moderately Advanced . . . . .	79	39.1	41.6
Far Advanced . . . . .	48	23.3	24.7
Pleurisy with Effusion . . . . .	1	.5	....
Non-Pulmonary . . . . .	2	1.0	....
Suspects . . . . .	1	.5	....
Totals . . . . .	205	100.0	100.0

TABLE IX

SUMMARY OF CASES RECOMMENDED FOR SANATORIUM  
(PULMONARY ONLY)

1943-1947

	Number Recommended for Sanatorium	Percentage of Total %	Average Percentage %
Minimal—1943 . . . . .	82	34	32
1944 . . . . .	53	26	
1945 . . . . .	67	33	
1946 . . . . .	57	33	
1947 . . . . .	66	34	
Moderate Advanced—1943 . . . . .	94	39	41
1944 . . . . .	101	48	
1945 . . . . .	82	41	
1946 . . . . .	62	35	
1947 . . . . .	79	41	
Far Advanced—1943 . . . . .	62	27	27
1944 . . . . .	53	26	
1945 . . . . .	54	26	
1946 . . . . .	57	33	
1947 . . . . .	48	25	

TABLE X  
SUMMARY OF CASES RECOMMENDED FOR SANATORIUM—1947  
DEPARTMENTAL CLINICS

Clinic	Number Recommended	Number Admitted	Percentage Admitted %	Average Interval in Days before Admission	Number Who Refused Treatment	Number Treated at Home	Number Who Died at Home	Number Awaiting a Bed	Moved out of Province
Toronto.....	8	5	62.5	42	2	1	0	0	0
Ottawa.....	63	44	69.8	28	5	12	0	1	1
Belleville.....	50	40	80.0	34	4	5	1	0	0
Timmins.....	26	21	80.7	28	4	0	1	0	0
North Bay.....	58	44	75.9	34	9	4	1	0	0
Totals.....	205	154	75.1	53	24	22	3	1	1



TABLE XI  
 CLASSIFICATION OF PERSONS EXAMINED IN 1947 WHO HAD RECEIVED SANATORIUM TREATMENT  
 AT SOME PREVIOUS TIME  
 TOTAL 1143

Age Groups	Sex	No Tuberculous Disease	Primary Infection		Minimal		Moderately Advanced		Far Advanced		Non-Pulmonary Inactive	Pleurisy with Effusion	Previous Pleurisy	Other Non-Tuberculous Conditions
			Active	Inactive	Active	Inactive	Active	Inactive	Active	Inactive				
0 to 4	M	..	..	..	..	..	..	..	..	..	..	..	..	..
	F	..	..	..	..	..	..	..	..	..	..	..	..	..
5 to 9	M	3	..	..	..	..	..	..	..	..	..	1	..	..
	F	6	..	1	..	..	..	..	..	..	..	1	..	..
10 to 14	M	3	..	..	..	..	..	..	..	..	..	..	..	..
	F	2	..	1	..	..	..	..	..	..	..	..	..	..
15 to 19	M	2	..	..	..	..	..	..	..	..	..	..	..	..
	F	6	..	1	..	..	..	..	..	..	..	..	..	..
20 to 24	M	8	..	..	..	..	..	..	..	..	..	..	..	..
	F	10	..	..	..	..	..	..	..	..	..	..	..	..
25 to 29	M	4	..	..	..	..	..	..	..	..	..	..	..	..
	F	13	..	..	..	..	..	..	..	..	..	..	..	..
30 to 39	M	10	..	..	..	..	..	..	..	..	..	..	..	..
	F	12	..	..	..	..	..	..	..	..	..	..	..	..
40 to 49	M	8	..	..	..	..	..	..	..	..	..	..	..	..
	F	7	..	..	..	..	..	..	..	..	..	..	..	..
50 to 59	M	5	..	..	..	..	..	..	..	..	..	..	..	..
	F	2	..	..	..	..	..	..	..	..	..	..	..	..
60 to 69	M	1	..	..	..	..	..	..	..	..	..	..	..	..
	F	..	..	..	..	..	..	..	..	..	..	..	..	..
70 and Over	M	..	..	..	..	..	..	..	..	..	..	..	..	..
	F	1	..	..	..	..	..	..	..	..	..	..	..	..
Totals		103	..	3	14	442	27	399	21	109	2	1	9	15

## COMMENTS ON TABLE XI

1. 1,143 persons who had received treatment in sanatorium attended the clinics.
2. 561 or 49.0% were males; 582 or 51.0% were females.
3. In 103, or 9.0%, the disease by X-ray had cleared or become so well healed that it was not considered a factor at the time of examination.
4. In the 1,015 with pulmonary tuberculous disease still evident, 62 or 6.1% were considered to be active and in need of further treatment; 953, or 93.9%, were considered to have inactive disease.
5. This Table illustrates the value of follow-up examinations of ex-patients of sanatoria.

TABLE XII  
CLASSIFICATION OF NON-TUBERCULOUS CHEST CONDITIONS  
(Excluding Pleurisy)

Classification	First Examination	Repeat Examination	Total Examinations
Pneumonia.....	103	22	125
Abnormal Heart or Aortic Shadows.....	92	29	121
Silicosis and Effects of Dust Inhalation.....	39	61	100
Bronchiectasis.....	10	32	42
New Growth (provisional diagnosis).....	13	19	32
Chronic Bronchitis.....	9	15	24
Asthma.....	5	4	9
Lung Abscess.....	4	3	7
Hodgkin's Disease.....	0	6	6
Spontaneous Pneumothorax.....	3	1	4
Atelectasis.....	0	3	3
Empyema (non-tuberculous).....	2	0	2
Diaphragmatic Hernia.....	1	1	2
Fungus Infection.....	2	0	2
Cystic Disease of Lung.....	0	2	2
Adenopathy (cause unknown).....	0	1	1
Non-tuberculous Infection.....	18	40	58
Totals.....	301	239	540

## CLINIC WORK AMONG TREATY INDIANS

Examinations were carried out as follows:

- (a) Surveys of Residential Schools..... 254  
 (b) Referred to clinics in various centres..... 231

TABLE XIII  
RESULTS OF CLINIC EXAMINATIONS OF TREATY INDIANS

Cases of Active Tuberculosis.....	17
Cases of Inactive Tuberculosis.....	37
Newly Discovered Cases of Tuberculosis.....	9
*Cases Recommended for Sanatorium.....	7

\*Ten cases classed as active were already under treatment in a hospital set aside for the treatment of tuberculosis.

TABLE XIV  
COMPARISON OF CLINIC FINDINGS AMONG WHITES AND INDIANS  
1943-1947

Year	Number of Examinations		Number of Cases of Active Tuberculosis		Percentage of Total Number Examined	
	Whites	Indians	Whites	Indians	Whites	Indians
1943.....	13,419	2,174	248	81	%	%
1944.....	12,644	1,171	262	26	1.8	3.7
1945.....	14,545	409	270	23	2.1	2.2
1946.....	13,179	432	248	15	1.8	2.5
1947.....	15,380	485	243	17	1.8	3.4
					1.5	3.5

TABLE XV  
COMPARISON OF NUMBER AND PERCENTAGE OF WHITES AND INDIANS  
DYING OF PULMONARY TUBERCULOSIS, TREATED IN SANATORIUM  
1942-1946

Year	Number Deaths Pulmonary Tuberculosis		*Number Treated in Sanatorium		Percentage Treated in Sanatorium	
	Whites	Indians	Whites	Indians	Whites	Indians
1942.....	865	73	683	27	78.9	36.9
1943.....	857	89	696	43	81.7	48.3
1944.....	800	90	655	56	81.8	62.2
1945.....	766	85	647	42	84.8	49.4
1946.....	786	85	638	50	81.1	58.8

\*Within five years of death.

TABLE XVI

## THE AVERAGE COST OF DISCOVERING A CASE OF TUBERCULOUS DISEASE ON FIRST EXAMINATION

(Based on an average cost of \$3.07 per clinic examination)

Age Groups	Number of First Examinations	Total Cost of Examinations	Number of Cases Tuberculous Disease Discovered	Average Cost per Case	Number of Cases Discovered Requiring Sanatorium Treatment	Average Cost of Discovering a Case Requiring Sanatorium Treatment
0 to 4	289	887.23	9	98.56	3	295.74
5 to 9	591	1,814.37	11	164.94	2	907.18
10 to 14	611	1,875.77	4	468.94	2	937.88
15 to 19	987	3,030.09	16	189.38	12	252.50
20 to 24	1,123	3,447.61	18	191.53	17	202.80
25 to 29	1,044	3,205.08	15	213.67	10	320.50
30 to 39	1,549	4,755.43	16	297.21	9	396.28
40 to 49	966	2,965.62	19	156.08	8	370.70
50 to 59	638	1,958.66	17	115.21	7	279.81
60 to 69	364	1,117.48	9	124.16	1	1,117.48
70 & over	166	509.62	7	72.80	2	254.81
Totals	8,328	25,566.96	141	181.33	73	350.22

TABLE XVII

## THE AVERAGE COST OF DISCOVERING A CASE OF TUBERCULOUS DISEASE ON REPEAT EXAMINATION

(Based on an average cost of \$3.07 per clinic examination)

Number of repeat examinations.....	7,848
Cost of this service.....	\$24,193.36
Number of new cases of tuberculosis discovered.....	79
Average cost per case.....	306.24
*Number cases recommended for sanatorium.....	121
Average cost per case.....	\$199.94

\*Some of these were known cases who had become reactivated.

## MISCELLANEOUS

1. 5,354 films were interpreted in the Central Office—

(a) 1,791 for the Civil Service Health Centre.

(b) 3,563 for Public Hospitals and private physicians.

2. 820 films were taken in the Central Office—406 on provincial Civil Servants; 149 on persons referred by outside physicians; 72 on persons referred by staff physicians; 90 on teachers, or teachers-in-training; 46 on immigrants arriving from the British Isles; 24 on persons receiving post-sanatorium care; 20 on students of the University of Toronto and 13 on persons employed in industry.

## B

## REPORT OF MASS X-RAY SURVEYS

During 1947 by the addition of two mobile miniature X-ray units, the extent of activities of the Division of Tuberculosis Prevention was considerably increased. In the past, mass X-ray was available to the population of smaller centres only if it were possible to include them with a larger community. Now, by the addition of these two self-sufficient units any community regardless of size or location can be reached for mass X-ray.

In the past year, a grand total of 323,571 X-rays were taken—303,214 in 159 communities, the remaining 20,357 in twelve non-community surveys. These twelve surveys were as follows:

- (1) Students of the Universities of McMaster, Western Ontario, Queen's, Ontario Agricultural College, and Summer School for Teachers.
- (2) Staff and prisoners of Collins Bay and Kingston Penitentiaries.
- (3) Treaty Indians. In co-operation with the Indian Medical Services, Department of Health and Welfare, surveys were held at two reservations.
- (4) Provincial Civil Service—Toronto and district.
- (5) Independent Order of Odd Fellows.
- (6) Immigrants—On arrival at Malton, all immigrants were X-rayed. The figures for these immigrants are not included in any of the following tables. The number of X-rays taken on immigrants, however, does show in the grand total of 323,571.

A total of 947 cases of tuberculosis (active, inactive or pleurisy with effusion) were discovered to make 0.30 per cent of all persons X-rayed. Of these 194 (or 20.5 per cent.) were active, 168 of the active cases were not previously known.

Again credit is extended to the Ontario Tuberculosis Association for its efforts in organizing the various local Christmas Seal committees. These committees assumed the task of collecting funds by the sale of Christmas Seals, the proceeds of which make a survey possible. They were also largely responsible for many of the details necessary in arranging a mass survey. The committees plus the volunteer clerks and canvassers gave unstintingly of their time with no remuneration, to make these surveys a success and thus rendering inestimable aid in this very worthwhile project of tuberculosis control.

## COMPARATIVE FIGURES—1946-47

	1946	1947	Increase 1947
Number of Communities X-rayed. . . . .	77	159	82
Number of non-Communities X-rayed. . . . .	11	12*	1
Number of Community X-rays. . . . .	289,540	303,214	13,674
Grand Total X-rayed. . . . .	301,324	323,571*	22,247

\*Includes X-rays taken on immigrants on arrival.

## CENTRES WHERE SURVEYS WERE CONDUCTED

ALGOMA	GREY	LANARK
Thessalon	Chatsworth	Lanark
Bruce Mines	Meaford	Smith's Falls
Desbarats	Thornbury	
Richard's Landing,	Clarksburg	LEEDS
St. Joseph's Island	Dundalk	Newboro
Hilton Beach,	Ayton	Elgin
St. Joseph's Island		Westport
Joycelyn Township,	HALTON	
St. Joseph's Island	Cakville	MIDDLESEX
	Milton	London
	Acton	Strathroy
BRANT	Georgetown	
Brantford	Burlington	NIPISSING
		Temagami
BRUCE		Madawaska
Teeswater	GRENVILLE	
Lucknow	Merrickville	NORTHUMBERLAND
Paisley	Kemptville	Baileboro
Hepworth	Cardinal	Newcastle
Tara		Colborne
Southampton	HASTINGS	Brighton
Port Elgin	Stirling	
	Frankford	ONTARIO
CARLETON	Read	Cannington
Westboro	Shannonville	Uxbridge
	Marysville	Zephyr
COCHRANE	Trenton	Sunderland
Monteith	Deseronto	Rama
Valgagne		Beaverton
Raymore	HURON	Pickering
Matheson	Goderich	Brougham
Calstock	Wingham	Claremont
Hearst		Ajax
Marathon Paper Mill,	KENORA	Eastwoodland
Hearst	Kenora	Whitby
	Redditt	
DUFFERIN	Keewatin	OXFORD
Grand Valley	Dryden	Woodstock
	Sioux Lookout	Dereham Center
DURHAM	Hudson	Tillsonburg
Canton	Ignace	Otterville
Blackstock		Norwich
Bethany	KENT	Tavistock
Newtonville	Blenheim	Ingersoll
Orono	Ridgetown	
	Wallaceburg	PEEL
ELGIN		Clarkson
St. Thomas	LAMBTON	Streetsville
	Sarnia	Cooksville
FRONTENAC	Watford	Lakeview
Kingston		

PERTH	TEMISKAMING	WATERLOO
Stratford	Latchford	Galt
	Cobalt	Preston
PETERBORO	North Cobalt	Hespeler
Lakefield	Haileybury	Elmira
Curve Lake	New Liskard	Wellesley
Burleigh Falls	Earlton	Crosshill
Apsley	Charlton	St. Jacobs
	Englehart	St. Clement
PRESCOTT	Elk Lake	Winterbourne
Hawkesbury	Virginiatown	Linwood
	Swastika	Floradale
RAINY RIVER	Kirkland Lake	Conestoga
Fort Frances	Larder Lake	Heidelberg
Rainy River		
Stratton	THUNDER BAY	
Emo	Canadian Car and	WELLINGTON
	Foundry, Fort Wil-	Guelph
RENFREW	liam	Arthur
Arnprior	Schreiber	Drayton
Barry's Bay	Terrace Bay	Kenilworth
Wilno	Nipigon	Mount Forest
Killaloe	Red Rock	
	Geraldton	
RUSSELL	Little Long Lac	WENTWORTH
Rockland		Winona
	VICTORIA	Stoney Creek
SUDBURY	Omeme	Dundas
Espanola	Bobcaygeon	

## MISCELLANEOUS

Provincial Civil Service—Toronto  
 Malton—All Immigrants  
 Ontario Agricultural College—Guelph  
 Independent Order of Oddfellows—Hamilton  
 Ontario Hospital—999 Queen St., Toronto  
 Summer School for Teachers—Toronto  
 Kingston Penitentiary  
 University of Western Ontario—London  
 Queen's University—Kingston  
 McMaster University—Hamilton

TABLE XVIII

## MASS X-RAY SURVEYS—1947

1. Total number X-rayed . . . . .	318,677	%
2. No evidence of disease or abnormality . . . . .	312,980	98.21%
3. Pulmonary tuberculosis (active and inactive) . . . . .	943	0.30%
4. Pleurisy with effusion . . . . .	4	.00%
5. Pulmonary tuberculosis suspects . . . . .	33	.01%
6. Other abnormal chest conditions . . . . .	4,717	1.48%

## 7. CLASSIFICATION OF PULMONARY TUBERCULOSIS

	Active	Activity Questionable	Inactive	Total
Minimal.....	80	78	413	571
Moderately advanced.....	83	50	183	316
Far advanced.....	27	3	26	56
Totals.....	190	131	622	943

## 8. Active Tuberculosis:

Pulmonary.....	190
Pleurisy with effusion.....	4

194—.06% of all X-rayed

## 9. PERCENTAGE OF CLASSIFICATION OF ACTIVE CASES

Pulmonary:	Number	Percentage
Minimal.....	80	41.25%
Moderately advanced.....	83	42.78%
Far advanced.....	27	13.91%
Pleurisy with effusion.....	4	2.06%
Total.....	194	100.00%

## 10. CLASSIFICATION OF ACTIVE CASES—NEW AND PREVIOUSLY KNOWN

	New	Old
Minimal.....	73	7
Moderately advanced.....	67	16
Far advanced.....	24	3
Pleurisy.....	4	0
Total.....	168 or 87%	26

## 11. CLASSIFICATION OF NEW CASES (ACTIVE)

Minimal.....	73	—	43.45%
Moderately advanced.....	67	—	39.88%
Far advanced.....	24	—	14.28%
Pleurisy.....	4	—	2.39%
Totals.....	168	—	100.00%

TABLE XIX

## CLASSIFICATION OF ACTIVE CASES BY SEX AND AGE

A. Age Groups	Male	Female	Total	Percent of Active Cases
5 to 9.....	0	1	1	0.5
10 to 14.....	1	2	3	1.6
15 to 19.....	4	8	12	6.2
20 to 24.....	12	26	38	19.6
25 to 29.....	14	18	32	16.8
30 to 34.....	12	9	21	10.9
35 to 39.....	13	5	18	9.4
40 to 44.....	8	9	17	8.7
45 to 49.....	8	4	12	6.2
50 to 54.....	3	3	6	3.1
55 to 59.....	8	1	9	4.7
60 to 64.....	6	1	7	3.6
65 to 69.....	3	2	5	2.6
70 & over.....	9	4	13	6.7
Totals.....	101	93	194	100.0
B. Age Groups	Male	Female	Total	Percent of Active Cases
5 to 19.....	5	11	16	8.25
20 to 39.....	51	58	109	56.18
40 & over.....	45	24	69	35.57
Totals.....	101	93	194	100.00



TABLE XX

## INCIDENCE OF ACTIVE PULMONARY TUBERCULOSIS (INCLUDING PLEURISY WITH EFFUSION) BY SEX AND AGE GROUPS 15 TO 39

Mass X-ray Surveys conducted in 21 Centres during first half of 1947  
 Total Number Examined (all age groups), 105,700

Age Groups	MÁLES			FEMALES			TOTAL		
	Number Exam.	Active	Percent.	Number Exam.	Active	Percent.	Number Exam.	Active	Percent.
15-19	9,000	1	.01	9,910	2	.02	18,979	3	.016
20-24	5,920	3	.05	7,440	13	.17	13,360	16	.12
25-29	5,640	5	.09	7,600	7	.09	13,240	12	.09
30-39	11,030	9	.08	13,310	8	.06	24,340	17	.07
Total	31,650	18	.05	38,260	30	.08	69,910	48	.07

TABLE XXI  
SUMMARY ACCORDING TO COUNTIES AND DISTRICTS

County or District	Number of Centres	Number X-rayed	Pulmonary Tuberculosis										Pleurisy with Effusion	Total Tuberculosis		Active Tuberculosis		Non-tuberculous conditions
			Suspects	Minimal		Moderately Advanced		Far Advanced		Number	% Number examined	Number		% Number examined	Number	% Number examined		
				Active	In-active	Active	In-active	Active	In-active									
																	Act. Ques.	
Algoma.....	6	2,236	..	2	1	4	1	1	4	2	..	..	15	.6	5	.2	39	
Brant.....	1	12,318	3	4	3	17	1	1	4	..	..	..	30	.2	5	.04	181	
Bruce.....	7	8,580	..	2	3	9	4	1	7	..	1	1	28	.3	6	.07	141	
Carleton.....	1	7,290	..	..	4	15	1	..	2	1	..	..	23	.3	2	.03	86	
Cochrane.....	7	1,942	..	..	..	..	3	1	..	..	..	..	4	.2	3	.2	21	
Dufferin.....	1	975	..	..	..	1	..	..	1	..	..	..	2	.2	..	..	5	
Durham.....	5	2,693	1	..	..	9	..	..	4	..	..	1	14	.5	..	..	52	
Elgin.....	1	9,223	1	3	1	12	..	..	2	1	..	1	20	.7	4	.05	137	
Frontenac.....	1	15,693	..	2	1	22	3	4	7	1	..	..	40	.2	6	.03	186	
Grey.....	6	5,942	..	1	..	8	..	1	8	..	..	..	18	.3	1	.02	89	
Halton.....	5	12,569	..	5	4	11	2	3	4	..	..	..	29	.2	7	.06	170	
Grenville.....	3	4,039	1	2	1	6	5	1	2	..	..	..	18	.4	8	.02	74	
Hastings.....	7	4,844	..	..	..	13	..	..	..	1	..	..	14	.3	1	.02	84	
Total.....	51	88,344	6	21	18	127	20	13	45	6	1	3	255	...	48	...	1,265	

TABLE XXI—Continued  
SUMMARY ACCORDING TO COUNTIES AND DISTRICTS

County or District	Number of Centres	Number X-rayed	Pulmonary Tuberculosis										Pleurisy with Effusion		Total Tuberculosis		Active Tuberculosis		Non-tuberculous conditions
			Suspects	Minimal			Moderately Advanced			Far Advanced			Number	% Examined	Number	% Examined	Number	% Examined	
				Active	Act. Ques.	Inactive	Active	Act. Ques.	Inactive	Active	Act. Ques.	Inactive							
Huron	2	7,292	1	2	3	5	3	..	3	..	1	..	1	..	17	.2	5	.07	147
Kenora	7	9,674	2	4	5	16	4	..	12	1	..	..	..	42	.4	9	.09	132	
Kent	3	8,932	..	1	6	9	1	2	2	..	..	..	..	21	.2	2	.02	159	
Lambton	2	11,182	1	3	2	17	2	2	7	..	..	..	..	33	.3	5	.04	144	
Lanark	2	4,056	1	..	1	5	..	..	3	..	..	..	..	9	.2	..	..	72	
Leeds	3	1,359	..	..	..	..	..	..	..	1	..	1	..	2	.2	1	.02	16	
Middlesex	2	41,212	4	8	13	71	19	12	23	4	..	5	..	155	.4	31	.07	631	
Nipissing	2	940	..	..	1	..	1	..	..	1	..	..	..	3	.3	2	.02	21	
Northumberland	4	3,214	..	..	..	2	..	..	1	1	..	..	..	4	.1	1	.03	52	
Ontario	13	11,997	..	2	4	15	2	3	8	1	..	2	..	37	.3	5	.04	212	
Oxford	7	17,264	5	3	3	11	4	1	5	..	1	1	..	29	.2	7	.04	234	
Peel	4	4,308	1	2	..	3	1	1	..	..	..	..	..	7	.2	3	.01	52	
Perth	1	11,082	..	1	1	9	3	..	4	..	..	1	..	19	.2	4	.03	190	
Total	52	132,512	15	26	42	163	40	21	68	9	1	11	..	378	...	75	...	2,062	

TABLE XXI—Continued  
SUMMARY ACCORDING TO COUNTIES AND DISTRICTS

County or District	Number of Centres	Number X-rayed	Pulmonary Tuberculosis										Total Tuberculosis		Active Tuberculosis		Non-tuberculous conditions
			Suspects	Minimal		Moderately Advanced		Far Advanced		Pleurisy with Effusion	Number	% Number examined	Number	% Number examined	Number	% Number examined	
				Active	In-active	Active	In-active	Active	In-active								
Peterboro....	4	1,746	..	1	1	..	1	..	..	2	..	..	6	.4	1	.07	22
Prescott.....	1	2,269	..	..	6	1	2	1	..	..	..	..	10	.4	1	.04	43
Rainy River..	4	5,836	2	1	2	8	1	..	8	1	..	1	21	.4	2	.04	95
Renfrew.....	4	4,944	..	..	2	12	..	..	2	..	..	..	16	.3	..	..	60
Russell.....	1	1,267	..	2	..	3	1	1	2	..	..	..	9	.4	3	.02	28
Sudbury.....	1	1,746	..	..	..	1	3	..	3	..	..	..	7	.4	3	.02	24
Temiskaming.	13	15,912	4	8	3	17	2	6	10	6	..	2	54	.3	16	.1	222
Thunder Bay.	7	4,827	..	5	3	18	3	1	12	2	..	..	47	1.0	13	.3	84
Victoria.....	2	1,097	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15
Waterloo.....	13	18,175	2	3	2	16	4	1	6	..	..	1	33	.2	7	.04	269
Wellington...	5	17,124	2	8	2	16	4	4	11	2	1	2	50	.3	14	.08	254
Wentworth...	3	7,415	..	2	3	6	1	..	1	1	..	..	14	.2	4	.04	98
Total.....	58	82,358	10	30	18	104	20	15	57	11	1	8	267	...	64	...	1,214

TABLE XXI—Continued  
SUMMARY ACCORDING TO COUNTIES AND DISTRICTS

County or District	Number of Centres	Number X-rayed	Suspects	Pulmonary Tuberculosis										Total Tuberculosis		Active Tuberculosis		Non-tuberculous conditions	
				Minimal			Moderately Advanced			Far Advanced				Pleurisy with Effusion	Number examined	% examined	Number		% examined
				Active	Act. Ques.	In-active	Active	Act. Ques.	In-active	Active	Act. Ques.	In-active	Act. Ques.						
														Active	Act. Ques.	In-active	Active		Act. Ques.
Collins Bay...	1	362	..	..	1	..	..	..	..	..	..	..	..	1	.3	1	.3	5	
Kingston Pen.	1	952	..	1	3	1	..	1	1	1	..	1	..	8	.8	3	.3	9	
McMaster...	1	1,170	..	..	..	..	..	1	..	..	..	..	..	1	.08	..	..	10	
O.A.C.....	1	1,704	..	..	2	..	..	..	..	..	..	..	..	2	.1	..	..	22	
Prov. Civil Service.....	1	3,538	..	1	12	1	1	1	6	..	2	..	..	24	.7	2	.05	75	
Summer School Teachers...	1	217	..	..	1	..	..	..	..	..	..	..	..	1	.5	..	..	3	
U.W.O.....	1	2,623	1	..	1	..	..	1	1	..	..	..	..	2	.08	..	..	16	
Queen's.....	1	3,347	..	..	1	1	..	..	2	..	..	..	..	4	.1	..	..	15	
I.O.O.F.....	1	1,550	1	1	..	..	..	..	2	..	1	..	..	4	.3	1	.07	21	
Total.....	9	15,463	2	3	3	19	3	1	13	1	4	..	..	47	...	7	...	176	
Grand Total	170	318,677	33	77	78	413	80	51	182	27	3	26	4	943	...	189	...	4,717	

TABLE XXII

## OTHER ABNORMAL THORACIC CONDITIONS FOUND AND REPORTED

Previously healed pleurisy .....	805
Apical scarring.....	789
Accentuated lung markings.....	725
Small densities (primaries, possible fungus).....	507
Probable non-tuberculous shadowing.....	463
Abnormal heart or aortic shadow.....	437
Probable non-tuberculous scarring.....	208
Abnormalities of diaphragm.....	192
Abnormal hilar and mediastinal shadowing.....	158
Pneumonia (atypical).....	76
Enlarged thyroid.....	50
Probable fungus.....	37
Evidence of Silicosis.....	56
Fibrosis.....	28
Possible new growth.....	28
Bronchiectasis.....	27
Atelectasis.....	11
Cyst and non-malignant tumours.....	24
Spontaneous pneumothorax.....	5
Miscellaneous.....	35
	4,688

TABLE XXIII

## IMMIGRANTS

1. Total number X-rayed.....	4,894
2. No evidence of disease or abnormality.....	4,804
3. Pulmonary tuberculosis.....	40
4. Pulmonary tuberculosis suspects.....	2
5. Other diseases and abnormalities.....	48
Previously healed pleurisy.....	16
Non-tuberculous shadowing.....	7
Apical scarring.....	6
Accentuated lung markings.....	6
Non-tuberculosis scarring.....	5
Small densities.....	4
Abnormalities of diaphragm.....	3
Abnormal heart shadow.....	1

## 6. CLASSIFICATION OF PULMONARY TUBERCULOSIS

	Questionably			Total
	Active	Active	Inactive	
Minimal.....	11	8	15	34
Moderately advanced.....	3	0	3	6
Far advanced.....	0	0	0	0
	14	8	18	40

TABLE XXIV  
SUMMARY ACCORDING TO COUNTIES AND DISTRICTS

1946 and 1947

County or District	Number of Centres	Number X-rayed	Estimated Population	Percentage Pop. X-rayed	Tuberculosis			
					Total Cases	Percentage of No. Examined	Active Cases	Percentage of No. Examined
Algoma	8	15,351	51,000	30	79	.51	15	.09
Brant	8	26,039	60,000	43	74	.28	20	.07
Bruce	13	21,285	42,000	50	60	.28	13	.06
Carleton	1	7,290	215,000	3	23	.32	2	.03
Cochrane	10	12,943	63,000	20	64	.49	20	.15
Dufferin	4	8,259	16,500	50	20	.24	8	.09
Durham	8	11,915	25,500	47	39	.32	4	.03
Elgin	1	9,223	47,000	20	20	.21	4	.05
Frontenac	1	19,040	54,000	35	44	.23	5	.03
Grey	10	21,525	56,500	38	70	.32	17	.08
Haliburton	1	2,655	7,000	38	5	.18	1	.03
Halton	5	2,655	30,000	42	29	.24	7	.06
Hastings	10	7,749	62,000	12	20	.26	2	.03
Huron	2	7,292	43,000	17	17	.23	5	.07
Kenora	7	9,674	24,500	39	42	.43	9	.09
Kent	3	8,932	74,500	12	21	.23	2	.02
Lambton	2	11,182	58,000	19	33	.29	5	.04
Lanark	5	12,925	34,000	38	36	.28	4	.03
Leeds and Grenville	11	22,657	51,500	44	90	.40	20	.09
Lennox and Addington	1	2,314	18,000	13	16	.69	0	0
Manitowlin	5	5,494	9,500	58	33	.60	6	.10
Middlesex	3	41,746	130,000	32	162	.39	33	.08
Nipissing	5	15,862	38,000	42	34	.21	10	.06
Norfolk	2	3,715	36,000	10	10	.26	1	.02
Northumberland and Durham	6	12,398	30,000	42	38	.30	5	.04
Ontario	15	34,217	68,500	50	110	.32	22	.06
Oxford	7	17,264	51,000	34	29	.17	7	.04
Peel	6	14,460	30,000	48	29	.20	7	.05
Perth	1	11,082	52,000	21	19	.17	4	.03
Peterborough	5	3,723	50,000	7	14	.38	2	.05
Prescott and Russell	2	3,536	43,000	8	19	.54	4	.11
Rainy River	4	5,836	20,000	29	21	.36	2	.04
Renfrew	9	18,342	53,500	34	49	.27	7	.04
Stormont	6	20,422	75,000	27	93	.45	19	.09
Sudbury	2	32,973	82,000	40	125	.38	25	.07
Temiskaming	13	15,912	48,500	33	54	.33	16	.1
Thunder Bay	7	4,827	89,000	5	47	1.0	13	.3
Victoria	4	9,417	26,000	36	19	.20	6	.03
Waterloo	14	43,186	102,000	42	91	.21	19	.04
Wellington	10	26,639	59,500	45	66	.25	18	.07
Wentworth	3	7,415	225,000	3	14	.19	4	.04

NEWLY DISCOVERED ACTIVE PULMONARY TUBERCULOSIS  
1946 and 1947

	Total	Percentage
Minimal	160	49.24
Moderately advanced	121	36.61
Far advanced	46	14.15
	<u>327</u>	<u>100.0</u>

TABLE XXV

## MASS SURVEYS—1942 to 1947 INCLUSIVE

1. Total number X-rayed . . . . .			924,522
No evidence of disease or abnormality . . . . .	903,669	97.74	
Pulmonary tuberculosis (active and inactive) . . . . .	5,159	0.56%	
Pleurisy with effusion . . . . .	15	0	
Extra pulmonary (active) . . . . .	3	0	
Other abnormal chest conditions . . . . .	15,676	1.70%	

## 2. CLASSIFICATION OF PULMONARY TUBERCULOSIS

	Active	Activity Questionable	Inactive	Total
Minimal . . . . .	407	361	2,799	3,567
Moderately advanced . . . . .	335	152	844	1,331
Far advanced . . . . .	119	13	131	263
	<u>861</u>	<u>526</u>	<u>3,774</u>	<u>5,161</u>

## 3. ACTIVE TUBERCULOSIS

(a) Pulmonary	Number	Percentage
Minimal . . . . .	407	46.30
Moderately advanced . . . . .	335	38.11
Far advanced . . . . .	119	13.54
(b) Extra pulmonary . . . . .	3	0.34
(c) Pleurisy with effusion . . . . .	15	1.71
	<u>879</u>	<u>100.00</u>

## 4. NUMBER OF CASES PER 1,000 PERSONS X-RAYED

Active	Questionably Active	Inactive	Total
0.95	0.56	4.0	5.6



TABLE XXVI  
SUMMARY OF CLINIC EXAMINATIONS—SANATORIUM EXTENSIONS AND MUNICIPAL CHEST CLINICS—1947

	TORONTO CLINICS										SANATORIUM EXTENSION CLINICS										MUNICIPAL CLINICS					
	Christie Street Hospital	Hospital for Sick children	St. Michael's Hospital	St. Joseph's Hospital	Women's College Hospital	Toronto General Hospital	Toronto Western Hospital	Gage Institute	Brantford	Cornwall	Fort William	Gravenhurst	Halleybury	Hamilton	Kingston	Kitchener	London	Ottawa	St. Catharines	Windsor	Windsor City	Hamilton City Clinic	Norfolk County	Kirkland Lake	Totals	
1. FIRST EXAMINATION:																										
1. Primary Infection (childhood)	2	44																								
Active.....	16	.....	8	1	.....	5	8	.....	6	4	10	7	.....	1	15	23	.....	24	15	.....	14	.....	1	.....	91	
2. Minimal																										
Inactive.....	76	1	12	4	3	9	25	.....	51	11	55	59	4	7	2	107	60	.....	50	32	.....	55	.....	12	158	
3. Moderately advanced																										
Active.....	8	.....	9	4	.....	3	10	.....	3	4	13	7	2	9	3	32	26	.....	32	8	.....	10	.....	1	184	
Inactive.....	10	.....	34	3	.....	29	23	.....	13	12	5	6	5	4	1	33	15	.....	28	1	.....	11	.....	6	239	
4. Far Advanced																										
Active.....	11	.....	14	3	.....	3	.....	.....	1	2	15	7	2	8	3	7	9	.....	27	2	.....	9	.....	2	125	
Inactive.....	3	.....	2	3	.....	1	16	.....	.....	6	2	2	.....	2	.....	1	11	.....	3	.....	.....	10	.....	2	64	
5. Extra-Pulmonary																										
Active.....	4	4	.....	.....	1	1	1	.....	.....	1	4	2	.....	2	2	5	10	.....	11	3	.....	1	.....	.....	52	
Inactive.....	29	3	6	.....	1	4	4	.....	.....	4	3	.....	.....	.....	1	2	8	.....	3	4	.....	9	.....	.....	81	
6. Pleurisy																										
With Effusion.....	96	4	3	1	.....	6	1	.....	1	1	10	9	1	3	3	2	13	.....	11	4	.....	2	.....	.....	171	
Previous Pleurisy.....	.....	2	2	.....	.....	4	.....	.....	19	9	1	13	1	3	.....	47	1	.....	7	7	.....	4	.....	3	123	
7. Suspects.....	7	6	32	.....	1	12	11	.....	12	34	22	7	5	3	15	4	.....	.....	43	41	.....	13	.....	1	269	
8. Non-tuberculous chest conditions.....	599	98	107	36	3	68	41	.....	40	28	89	41	3	93	52	287	403	.....	N/S	219	.....	28	.....	14	2,249	
9. Undiagnosed.....	.....	46	5	8	1	.....	8	.....	8	16	21	36	.....	.....	4	9	27	.....	N/S	.....	.....	8	.....	1	198	
10. No tuberculous disease.....	1153	145	82	13	4	38	85	.....	564	516	1076	708	161	605	246	1904	755	.....	N/S	616	.....	2126	.....	616	11413	
11. Total First Examinations.....	2054	380	316	76	14	183	233	.....	718	646	1331	917	186	739	334	2470	1364	.....	6948	955	.....	2300	.....	660	22824	

TABLE XXVI—Continued  
SUMMARY OF CLINIC EXAMINATIONS—SANATORIUM EXTENSION AND MUNICIPAL CHEST CLINICS—1947

	TORONTO CLINICS										SANATORIUM EXTENSION CLINICS								MUNICIPAL CLINICS							
	Christie Street Hospital	Hospital for Sick Children	St. Michael's Hospital	St. Joseph's Hospital	Women's College Hospital	Toronto General Hospital	Toronto Western Hospital	Gage Institute	Brantford	Cornwall	Fort William	Gravenhurst	Halleybury	Hamilton	Kingston	Kitchener	London	Ottawa	St. Catharines	Windsor	Windsor City Clinic	Hamilton City Clinic	Norfolk County	Kirkland-Larder Lake	Totals	
II. REPEAT EXAMINATIONS:																										
Active	441	1	4	.....	.....	23	3																			
1. Pulmonary tuberculosis	1295	5	298	57	3	232	298	394	593	1420	158	68	349	193	1181	555										
Inactive	860	.....	.....	.....	.....	.....	.....	1	5	29	9	1	2	.....	9	34										
2. Extra-pulmonary tuberculosis	91	217	20	4	20	32	25	26	23	83	15	1	23	20	87	84										
3. Non-tuberculous chest conditions	1472	106	31	21	20	51	72	29	39	118	13	2	172	66	230	271										
4. Suspects	9	2	21	3	5	.....	2	10	48	42	2	6	3	27	5	.....										
5. Undiagnosed	.....	50	.....	.....	4	6	.....	1	13	28	11	1	.....	1	2	13										
6. No tuberculous disease	438	2158	2282	695	82	2027	4344	269	608	1241	212	111	854	211	1041	657										
7. Total number re-examinations	4606	2539	2656	780	134	2371	4744	757	1389	3129	447	194	1427	531	2766	1755										
8. Total number individuals re-examined	No rec'd	1038	616	165	45	501	840	757	956	1104	81	110	688	451	1840	1267										
III. TOTAL NUMBER EXAMINATIONS	6660	2919	2971	856	148	2554	4977	1475	2035	4460	1364	380	2166	865	5236	3199										
IV. NEWLY DISCOVERED CASES OF TUBERCULOSIS:																										
1. First Examination	113	41	30	7	1	8	16	15	29	84	46	6	30	15	39	47										
2. Repeat Examination	No rec'd	2	2	.....	.....	.....	9	4	16	38	9	5	8	5	29	7										
3. TOTAL	113	43	32	7	1	8	25	19	45	122	55	11	38	20	68	54										

NOTE: No report received from Gage Institute, Royal Ottawa Sanatorium or Windsor City at time this report submitted.

TABLE XXVII  
CLASSIFICATION OF NEWLY DISCOVERED ACTIVE CASES OF TUBERCULOSIS FOUND AT SANATORIUM EXTENSION AND MUNICIPAL CLINICS—1917

CLASSIFICATIONS	TORONTO MUNICIPAL CLINICS												SANATORIUM CLINICS										OTHER CLINICS					Totals
	Hospital for Sick Children	St. Michael's Hospital	St. Joseph's Hospital	Women's College Hospital	Toronto General Hospital	Toronto Western Hospital	Gage Institute	Christie Street Hospital	Bramford	Cornwall	Fort William	Gravenhurst	Halleybury	Hamilton	Kingston	Kitchener	London	Ottawa	St. Catharines	Windsor	Windsor Municipal Clinics	Hamilton City Clinic	Kirkland Lake					
Pleurisy with Effusion.....	1	0	0	0	1	0		74	1	5	19	8	3	3	0	1	5		12	4		2	0	139				
Primary Infection.....	39	0	0	0	0	0		4	0	4	11	8	1	2	1	10	8		11	0		0	1	100				
Minimal.....	0	9	1	0	4	8		13	12	25	35	21	4	8	7	22	12		31	19		24	5	260				
Moderately Advanced.....	0	8	3	0	0	16		8	5	3	31	9	2	15	5	26	14		37	8		19	0	209				
Far Advanced.....	0	15	3	0	2	0		5	1	7	16	7	1	8	3	3	4		31	2		13	4	125				
Non-Pulmonary.....	3	0	0	1	1	1		9	0	1	10	2	0	2	4	6	11		12	3		5	0	17				
TOTALS.....	43	32	7	1	8	25		113	19	45	122	55	11	38	20	68	54		134	36		63	10	904				

NOTE: No report received from Gage Institute, Royal Ottawa Sanatorium and Windsor City when report submitted.

## SUMMARY OF CLINIC EXAMINATIONS IN ONTARIO, 1947

1. Departmental Chest Clinics.....	16,350
2. Municipal and Sanatorium Extension Clinics.....	69,674*
3. Mass Surveys:	
(a) Conducted by Division of Tuberculosis Prevention.....	318,677
(b) Conducted by Division of Industrial Hygiene.....	25,500
(c) Conducted by Gage Institute.....	208,486
Total.....	638,687

\*No reports received from Gage Institute, Royal Ottawa Sanatorium and Windsor City when report submitted.

## CHEST CLINICS—PROVINCE OF ONTARIO

December 31st, 1947

Number of Centres.....	133
Number of Clinics.....	151

## METHOD OF PAYMENT FOR CHEST FILMS

No. of  
Clinics

Xmas Seal Committee pays entire fee.....	95
Xmas Seal Committee pays fee of patients not able to do so.....	4
Patients pay fee.....	19
Municipalities pay entire fee.....	5
Provincial Department of Health Chest Clinics provide free Chest X-rays.....	32

## PART II

RECORD OF TUBERCULIN TESTING AND X-RAYING OF GRADUATE  
AND NON-GRADUATE NURSES IN PUBLIC AND RED  
CROSS HOSPITALS AND SANATORIA

TABLE XXVIII

	Institutions	Number Reported	Number Tuberculin Reactors	Percentage Tuberculin Reactors	Number X-rayed	Number Newly Discovered Cases of Tuberculous Disease	Percentage of Total with Newly Discovered Tuberculous Disease %
GRADUATES	Public and Red Cross Hospitals.....	4,926	2,320	47.0	3,305	10	.20
	Hospitals for Incurables	170	20	11.6	139	0	.0
	Sanatoria.....	626	574	91.7	591	1	.16
	Totals.....	5,722	2,914	50.9	4,235	11	.19
NON-GRADUATES	Public and Red Cross Hospitals.....	6,203	2,121	34.1	2,776	9	.14
	Hospitals for Incurables	391	84	21.5	189	0	.0
	Sanatoria.....	476	371	77.9	404	1	.21
	Totals.....	7,070	2,576	36.4	3,369	10	.14



## 2. PREVIOUSLY KNOWN:

4	Previous pleurisy with effusion, healed.....	Remained on duty
16	Minimal, inactive.....	Remained on duty
11	Moderately advanced.....	Remained on duty
8	Far advanced.....	Remained on duty

NOTE: All non-graduate nurses, previously known to have had tuberculosis, were employed in sanatoria.

## PART III

## HISTORY OF SANATORIUM TREATMENT WITHIN FIVE YEARS OF DEATH IN PERSONS DYING OF TUBERCULOSIS IN ONTARIO 1946

The record was obtained of persons dying of tuberculosis in Ontario in 1946 who had received sanatorium treatment within five years of death.

Table XXX gives the summary of the findings for deaths of all forms of tuberculosis, as well as pulmonary only; a separate tabulation being made for Indians, whites, and whites and Indians combined.

It will be noted that 70.7% of all persons dying of tuberculosis (all forms) had been in sanatorium, while 80.9% of those dying of pulmonary tuberculosis had received sanatorium treatment. (If the white population only is counted the percentages are 73% and 81% respectively.)

Tables XXXI, XXXII and XXXIII give the details re the deaths from pulmonary tuberculosis in counties, districts, cities and towns.

Table XXXIV shows the analysis of those persons (excluding Treaty Indians) who died of pulmonary tuberculosis in 1946 who had not been in sanatorium within five years of death. It will be noted that 67% of these were over 50 years of age, and 44% were over 60 years of age.

TABLE XXX

HISTORY OF SANATORIUM TREATMENT WITHIN FIVE YEARS OF DEATH  
OF PERSONS DYING OF TUBERCULOSIS IN ONTARIO, 1946

PLACE OF RESIDENCE	WHITES AND INDIANS					
	All Forms			Pulmonary		
	Number of Deaths	Number Treated in Sanatorium	Percentage %	Number of Deaths	Number Treated in Sanatorium	Percentage %
*Districts.....	173	113	65.3	149	107	71.8
*Counties.....	263	180	68.4	221	169	76.4
Cities and Towns 5,000 and over..	594	436	73.4	501	412	82.2
Totals.....	1,030	729	70.7	871	688	79.0
INDIANS						
*Districts.....	93	51	54.8	76	46	60.5
*Counties.....	10	4	40.0	9	4	44.4
Cities and Towns 5,000 and over..	0	0	....	0	0	....
Totals.....	103	55	53.4	85	50	58.8
WHITES						
*Districts.....	80	62	77.5	73	61	83.5
*Counties.....	253	176	69.5	212	165	77.8
Cities and Towns 5,000 and over..	594	436	73.4	501	412	72.2
Totals.....	927	674	72.8	786	638	81.1

\*Excluding cities and towns 5,000 and over.

RECORD OF WHITES DYING OF PULMONARY TUBERCULOSIS TREATED  
IN SANATORIUM WITHIN FIVE YEARS OF DEATH

(1942-1946)

Year	Percentage Treated in Sanatorium %
1942.....	78.5
1943.....	81.7
1944.....	81.8
1945.....	84.8
1946.....	81.8
Average.....	81.6

TABLE XXXI

HISTORY OF SANATORIUM TREATMENT WITHIN FIVE YEARS OF DEATH  
IN PERSONS DYING OF TUBERCULOSIS (PULMONARY ONLY) ONTARIO, 1946

(Counties exclusive of cities and towns of 5,000 and over)

COUNTY	Pulmonary Tuberculosis Deaths			*Sanatorium Treatment			Percentage Treated in Sanatorium		
	Whites	Indians	Total	Whites	Indians	Total	Whites	Indians	Total
Brant.....	1	1	2	1	...	1	100	...	50
Bruce.....	7	4	11	5	2	7	70	50	64
Carleton.....	6	0	6	4	...	4	66	...	66
Dufferin.....	3	0	3	3	...	3	100	...	100
Dundas.....	4	0	4	4	...	4	100	...	100
Durham.....	1	0	1	1	...	1	100	...	100
Elgin.....	4	0	4	3	...	3	75	...	75
Essex.....	6	0	6	6	...	6	100	...	100
Frontenac.....	7	0	7	7	...	7	100	...	100
Glengarry.....	8	0	8	6	...	6	75	...	75
Grenville.....	2	0	2	1	...	1	50	...	50
Grey.....	3	0	3	3	...	3	100	...	100
Haldimand.....	3	0	3	2	...	2	66	...	66
Haliburton.....	0	0	0	...	...	...	...	...	...
Halton.....	7	1	8	7	...	7	100	...	87
Hastings.....	7	0	7	4	...	4	57	...	57
Huron.....	7	0	7	5	...	5	71	...	71
Kent.....	6	0	6	5	...	5	83	...	83
Lambton.....	4	0	4	2	...	2	50	...	50
Lanark.....	7	0	7	4	...	4	57	...	57
Leeds.....	7	0	7	5	...	5	71	...	71
Lennox and Addington	1	0	1	1	...	1	100	...	100
Lincoln.....	4	0	4	4	...	4	100	...	100
Middlesex.....	8	1	9	6	1	7	75	100	78
Norfolk.....	1	0	1	...	...	...	...	...	...
Northumberland.....	3	0	3	2	...	2	66	...	66
Ontario.....	7	1	8	7	...	7	100	...	90
Oxford.....	2	0	2	1	...	1	50	...	50
Peel.....	1	0	1	1	...	1	100	...	100
Perth.....	1	0	1	...	...	...	...	...	...
Peterborough.....	4	0	4	4	...	4	100	...	100
Prescott.....	11	0	11	9	...	9	82	...	82
Prince Edward.....	3	0	3	3	...	3	100	...	100
Renfrew.....	6	0	6	6	...	6	100	...	100
Russell.....	3	0	3	2	...	2	66	...	66
Simcoe.....	7	0	7	6	...	6	86	...	86
Stormont.....	4	1	5	4	1	5	100	100	100
Victoria.....	0	0	0	...	...	...	...	...	...
Waterloo.....	2	0	2	1	...	1	50	...	50
Welland.....	2	0	2	...	...	...	...	...	...
Wellington.....	4	0	4	3	...	3	75	...	75
Wentworth.....	8	0	8	6	...	6	75	...	75
York.....	30	0	30	21	...	21	70	...	70
Totals.....	212	9	221	165	4	169	77.8	44.4	76.4

\*Within five years of death.



TABLE XXXII

## HISTORY OF SANATORIUM TREATMENT WITHIN FIVE YEARS OF DEATH IN PERSONS DYING OF TUBERCULOSIS (PULMONARY ONLY) IN ONTARIO, 1946

(Districts exclusive of Cities and Towns of 5,000 and over)

DISTRICT	Pulmonary Tuberculosis			*Sanatorium Treatment			Percentage Treated in Sanatorium		
	Whites	Indians	Total	Whites	Indians	Total	Whites	Indians	Total
Algoma.....	4	3	7	4	2	6	100	66	87
Cochrane.....	16	13	29	15	9	24	88	66	78
Kenora.....	3	21	24	2	11	13	66	57	60
Manitoulin.....	0	1	1	..	0	0	..	0	0
Muskoka.....	1	0	1	1	..	1	100	..	100
Nipissing.....	8	3	11	5	3	8	62	100	72
Parry Sound.....	5	3	8	4	2	6	80	100	86
Patricia.....	1	8	9	1	2	3	100	25	33
Rainy River.....	0	1	1	..	0	0	..	0	0
Sudbury.....	12	2	14	9	2	11	75	100	79
Temiskaming.....	12	1	13	9	0	9	75	0	70
Thunder Bay.....	11	20	31	11	15	26	100	74	83
Totals.....	73	76	149	61	46	107	83.5	60.5	71.8

\*Within five years of death.

TABLE XXXIII

## HISTORY OF SANATORIUM TREATMENT WITHIN FIVE YEARS OF DEATH IN PERSONS DYING OF TUBERCULOSIS IN ONTARIO, 1946

(Cities and Towns of 5,000 Population and over)

Cities and Towns 5,000 Population and over	Tuberculosis Deaths		*Sanatorium Treatment		Percentage Treated in Sanatorium	
	All Forms	Pulmonary	All Forms	Pulmonary	All Forms	Pulmonary
Barrie.....	1	1	1	1	100	100
Belleville.....	2	2	2	2	100	100
Brampton.....	3	2	2	2	66	100
Brantford.....	9	7	6	6	64	86
Brockville.....	2	2	2	2	100	100
Chatham.....	7	6	6	6	86	100
Cobourg.....	2	2	1	1	50	50
Collingwood.....	0	0	..	..	..	..
Cornwall.....	13	12	11	10	84	83
Dundas.....	2	1	1	0	50	0
Eastview.....	4	4	2	2	50	50
Forest Hill.....	0	0	..	..	..	..
Fort Erie.....	3	3	3	3	100	100
Fort Frances.....	1	1	1	1	100	100
Fort William.....	15	14	13	13	87	93
Galt.....	3	2	2	2	66	100
Guelph.....	3	2	1	1	33	50
Hamilton.....	43	40	38	36	88	90
Hawkesbury.....	1	1	1	1	100	100
Ingersoll.....	0	0	..	..	..	..
Kenora.....	0	0	..	..	..	..
Kingston.....	13	11	13	11	100	100

TABLE XXXIII—Continued

HISTORY OF SANATORIUM TREATMENT WITHIN FIVE YEARS OF DEATH  
IN PERSONS DYING OF TUBERCULOSIS IN ONTARIO, 1946

(Cities and Towns of 5,000 Population and over)

Cities and Towns of 5,000 Population and over	Tuberculosis Deaths		*Sanatorium Treatment		Percentage Treated in Sanatorium	
	All Forms	Pulmonary	All Forms	Pulmonary	All Forms	Pulmonary
Kitchener . . . . .	7	5	6	5	86	100
Leamington . . . . .	2	2	2	2	100	100
Leaside . . . . .	1	0	0	..	0	..
Lindsay . . . . .	2	2	2	2	100	100
London . . . . .	24	20	20	18	83	90
Long Branch . . . . .	2	2	2	2	100	100
Midland . . . . .	2	2	2	2	100	100
Mimico . . . . .	3	3	2	2	66	66
New Toronto . . . . .	0	0	0	0	..	..
Niagara Falls . . . . .	6	4	3	3	50	75
North Bay . . . . .	2	2	1	1	50	50
Orillia . . . . .	2	1	2	1	100	100
Oshawa . . . . .	2	1	1	1	50	100
Ottawa . . . . .	67	50	35	34	52	68
Owen Sound . . . . .	4	4	2	2	50	50
Parry Sound . . . . .	1	1	1	1	100	100
Pembroke . . . . .	7	6	7	6	100	100
Peterborough . . . . .	6	6	6	6	100	100
Port Arthur . . . . .	12	12	12	12	100	100
Port Colborne . . . . .	1	0	1	..	100	..
Port Hope . . . . .	3	3	3	3	100	100
Preston . . . . .	4	4	4	4	100	100
Renfrew . . . . .	3	3	2	2	66	66
Riverside . . . . .	0	0	..	..	..	..
St. Catharines . . . . .	7	6	5	5	71	83
St. Thomas . . . . .	2	1	1	1	50	100
Sarnia . . . . .	6	6	5	5	83	83
Sault Ste. Marie . . . . .	12	9	9	9	75	100
Simcoe . . . . .	0	0	..	..	..	..
Smiths Falls . . . . .	1	1	1	1	100	100
Stratford . . . . .	2	1	1	1	50	100
Sudbury . . . . .	15	12	11	11	73	92
Swansea . . . . .	2	1	0	0	0	0
Thorold . . . . .	1	0	0	..	0	..
Timmins . . . . .	17	16	13	13	76	81
Toronto . . . . .	199	168	136	126	67	75
Trenton . . . . .	0	0	..	..	..	..
Waterloo . . . . .	1	1	0	0	0	0
Welland . . . . .	3	3	3	3	100	100
Weston . . . . .	0	0	..	..	..	..
Whitby . . . . .	1	0	1	..	100	..
Windsor . . . . .	35	30	28	28	80	93
Woodstock . . . . .	0	0	..	..	..	..
Totals . . . . .	594	501	436	412	73.4	82.2

\*Within five years of death.

TABLE XXXIV

PERSONS (excluding Indians) DYING OF PULMONARY TUBERCULOSIS IN  
ONTARIO IN 1946 NOT TREATED IN SANATORIUM WITHIN  
FIVE YEARS OF DEATH

## 1. Analysis According to Age and Sex

Age Groups	Male	Female	Total	Percentage of Total
0 to 4.....	2	2	4	2.7
5 to 9.....	..	..	..	..
10 to 14.....	..	..	..	..
15 to 19.....	1	2	3	2.1
20 to 24.....	2	5	7	4.8
25 to 29.....	2	6	8	5.5
30 to 39.....	4	9	13	8.9
40 to 49.....	6	6	12	8.2
50 to 59.....	26	6	32	22.0
60 to 69.....	28	5	33	22.8
70 and over.....	20	12	32	22.0
Not stated.....	1	0	1	1.0
Totals.....	92	53	145	100.0

It is noted that 67% of this number were over 50 years of age and 44% over 60 years of age.

2. Analysis According to Classification of Pulmonary Tuberculosis as  
Primary or Secondary Cause of Death

Age Groups	Pulmonary Tuberculosis Given as Primary Cause	Pulmonary Tuberculosis Given as Secondary Cause
0 to 4.....	4	0
5 to 9.....	0	0
10 to 14.....	0	0
15 to 19.....	2	1
20 to 24.....	5	2
25 to 29.....	7	1
30 to 39.....	12	1
40 to 49.....	11	1
50 to 59.....	21	11
60 to 69.....	25	8
70 and over.....	21	11
Not stated.....	1	0
Totals.....	109	36

In 75% pulmonary tuberculosis was given as the primary cause of death, while in 25% it was given as the secondary cause.

## 3. Analysis According to Reason for not Entering Sanatorium

(a) Refused Sanatorium treatment.....	14
(b) Diagnosed shortly before death or at autopsy.....	98
(c) Sanatorium treatment not considered necessary by physician or clinic.....	28
(d) No answer to questionnaire.....	5

\*145

\*Ten of these had been treated in sanatorium previous to the five year period preceding death.

81% of persons dying of pulmonary tuberculosis who did not have the benefit of sanatorium treatment were discovered shortly before death or at autopsy.

## PART IV

REPORT UPON POST-SANATORIUM CARE OF EX-PATIENTS  
OF SANATORIA

The Department accepts responsibility for the care of those persons who, prior to admission to sanatoria, resided in unorganized territory or who had failed to establish residence in any municipality in Ontario within the meaning of The Sanatoria for Consumptives Act. Post-sanatorium care provides for treatment outside of sanatorium, including food, lodging, necessaries of life and transportation.

Seventy-four such persons were discharged from sanatoria in 1947. Thirty-two of this group were in a position to assume immediate responsibility for their own welfare, or were sufficiently recovered to return to employment at once, and seven required only some initial assistance (clothing, transportation). The remaining thirty-five required assistance with board and lodging, and sixteen of these also required further help (clothing, transportation).

As of December 31st, 1947, a total of thirty-six patients were receiving board and lodging, seventeen of these having been carried over from 1946.

Although not classed directly as part of its post-sanatorium care programme, the Government pays physicians approved to give pneumothorax refills for work done on ex-patients who cannot pay for their treatment. Approximately 1600 persons who received in excess of 33,000 refills were cared for in this way.

## PART V

## TABLE XXXV

RECORD OF NON-RESIDENTS TREATED IN ONTARIO SANATORIA, 1947  
(Exclusive of Ex-Service Men and Women)

Province or Country	In Residence Dec. 31, 1947	Discharged during 1947	Total Number Treated	Method of Payment of Sanatorium Maintenance
Quebec.....	26	15	41	By Quebec (Reciprocal Agreement)..... 37 Self-pay..... 4
Saskatchewan..	9	2	11	By Saskatchewan (Reciprocal Agreement).. 11
British Columbia...	30	8	38	By British Columbia (Reciprocal Agreement)..... 6 By Province of Ontario—British Columbia refused to accept..... 5 Federal Department of Labour—Japanese Division..... 27
Manitoba...	6	3	9	By Manitoba (Reciprocal Agreement)..... 8 By Ontario—not really a Manitoba resident..... 1
Alberta.....	3	0	3	By Alberta (Reciprocal Agreement)..... 3
New Brunswick..	4	1	5	By New Brunswick (Reciprocal Agreement)..... 5
Nova Scotia..	10	2	12	By Ontario—too ill to transfer..... 4 —Transient, lived mostly in Ontario.... 1

RECORD OF NON-RESIDENTS TREATED IN ONTARIO SANATORIA, 1946  
—Continued

Province or Country	In Residence Dec. 31, 1946	Discharged during 1946	Total Number treated	Method of Payment of Sanatorium Maintenance
				—Refused to transfer..... 1 —Transferred to Nova Scotia..... 1 —Husband in Ontario..... 3 —Prisoners under commitment..... 2
Newfoundland	4	3	7	By Newfoundland (Reciprocal Agreement) 6 By Ontario—Husband in Ontario..... 1
Northwest Territories..	1	0	1	By Ontario—Returned Missionary..... 1
British Isles: (a) Immigrants...	24	1	25	By Ontario..... 25
(b) War Brides...	23	11	34	By Ontario..... 34
Poland.....	1	0	1	By Federal Department of Labour..... 1
Greece.....	1	0	1	By Ontario..... 1
U.S.A.....	1	0	1	By Ontario—Husband in Ontario..... 1

## PART VI

RECORD OF CASES OF TUBERCULOSIS REPORTED TO  
ONTARIO DEPARTMENT OF HEALTH

Counties or Districts also Cities over 10,000 Population	1941	1942	1943	1944	1945	1946	1947
Algoma.....	7	11	2	8	4	25	19
Sault Ste. Marie.....	11	1	6	15	2	42	13
Brant.....	0	2	1	0	2	24	4
Brantford.....	0	17	30	31	12	23	20
Bruce.....	6	3	3	2	3	23	7
Carleton.....	9	9	14	6	3	12	8
Ottawa.....	143	110	165	157	77	83	83
Cochrane.....	48	28	23	41	29	14	10
Timmins.....	73	72	42	72	47	42	16
Dufferin.....	0	0	1	3	0	15	1
Dundas.....	0	12	13	7	4	12	0
Durham.....	1	4	4	6	1	24	25
Elgin.....	1	0	0	0	1	0	3
St. Thomas.....	1	2	3	1	2	0	8
Essex.....	0	4	4	8	34	3	14
Windsor.....	1	36	89	88	51	6	12
Frontenac.....	4	2	2	0	3	3	5
Kingston.....	34	25	11	2	21	13	19
Glengarry.....	1	37	27	45	8	20	1
Grenville.....	7	3	2	12	5	4	6
Grey.....	5	2	2	5	4	25	1
Owen Sound.....	3	4	2	2	5	7	2
Haldimand.....	0	0	1	1	7	3	1
Haliburton.....	2	0	1	2	2	5	0
Halton.....	3	4	1	5	4	6	14
Hastings.....	3	6	12	13	21	26	26
Belleville.....	0	2	5	13	8	11	13

RECORD OF CASES OF TUBERCULOSIS REPORTED TO  
ONTARIO DEPARTMENT OF HEALTH—Continued

Counties or Districts also Cities over 10,000 Population	1941	1942	1943	1944	1945	1946	1947
Huron.....	0	0	1	0	4	0	0
Kenora (including Patricia)...	5	14	29	3	7	7	33
Kent.....	3	1	1	2	1	0	17
Chatham.....	12	9	10	6	3	2	1
Lambton.....	3	0	0	1	3	1	10
Sarnia.....	0	1	1	0	0	6	15
Lanark.....	4	4	9	14	15	28	7
Leeds.....	3	6	4	6	9	4	7
Brockville.....	4	9	14	5	10	16	6
Lennox and Addington..	4	3	1	1	1	3	4
Lincoln.....	1	2	0	0	5	18	33
St. Catharines.....	40	44	27	32	36	37	32
Manitoulin.....	4	4	2	2	0	5	2
Middlesex.....	0	0	0	2	1	4	1
London.....	0	2	4	1	35	60	82
Muskoka.....	4	1	1	0	6	2	0
Nipissing.....	10	4	2	10	4	18	14
North Bay.....	5	8	8	7	7	19	14
Norfolk.....	0	1	3	5	4	2	10
Northumberland.....	3	2	4	6	9	36	16
Ontario.....	2	9	4	2	10	11	24
Oshawa.....	24	20	21	12	5	34	27
Oxford.....	1	1	0	0	1	0	6
Woodstock.....	0	0	1	0	1	1	6
Parry Sound.....	1	2	14	5	6	5	8
Peel.....	8	4	7	9	13	25	8
Perth.....	0	2	0	0	0	2	3
Stratford.....	0	0	2	6	1	1	10
Peterborough.....	4	1	3	4	2	4	4
Peterborough.....	5	14	17	45	15	3	23
Prescott.....	5	3	6	29	14	11	17
Prince Edward.....	4	0	2	3	3	1	4
Rainy River.....	2	5	0	1	0	0	0
Renfrew.....	8	3	2	24	13	12	12
Pembroke.....	1	4	1	15	13	9	2
Russell.....	4	2	7	2	4	7	6
Simcoe.....	9	4	5	9	15	35	7
Stormont.....	1	28	13	15	21	20	2
Cornwall.....	5	51	51	58	30	46	4
Sudbury.....	16	29	29	23	19	17	18
Sudbury.....	30	43	44	54	46	49	16
Thunder Bay.....	31	23	13	15	11	21	43
Fort William.....	34	39	6	18	41	30	22
Port Arthur.....	1	33	52	35	36	32	22
Timiskaming.....	41	46	27	21	23	11	39
Victoria.....	0	3	2	0	0	3	1
Lindsay.....	0	0	0	1	0	8	0
Waterloo.....	3	3	2	1	10	4	16
Kitchener.....	3	23	59	51	19	41	5
Galt.....	0	38	8	7	4	1	5
Welland.....	14	3	6	7	5	8	13
Welland.....	18	2	3	2	0	9	9
Niagara Falls.....	1	24	28	26	28	11	1
Wellington.....	2	4	4	2	0	11	5
Guelph.....	0	0	6	3	10	8	17
Wentworth.....	0	5	1	0	6	4	9
Hamilton.....	19	106	155	240	135	97	111
York.....	89	113	117	106	87	120	182
Toronto.....	675	677	631	560	493	526	630
Forest Hill.....	2	2	0	3	3	2	1
Grand Totals.....	1,528	1,813	1,935	2,062	1,663	1,978	1,973

PART VII  
SANATORIUM STATISTICS, 1946

CLASSIFICATION OF NET ADMISSIONS TO SANATORIA  
FOR THE YEAR 1946

(Excludes Transfers and New Borns)

	Number	Per cent
New Cases.....	2,176	71.8
Reviews.....	72	2.4
Re-Admissions.....	782	25.8
Total Net Admissions.....	3,030	100.0

CLASSIFICATION OF RE-ADMISSIONS TO SANATORIA  
DURING THE YEAR 1946

	First	Second	Third or more	Total
Adult Males.....	285	100	73	458
Adult Females.....	193	73	45	311
Male Children.....	11	...	...	11
Female Children.....	2	...	...	2
Total.....	491	173	118	782
Percentage of Total net Admissions...	16.2	5.7	3.9	25.8

## APPLICATION OF SURGERY IN SANATORIA DURING THE YEAR 1946

	Number of Patients having the Procedure
<b>ABDOMINAL:</b>	
Appendectomy.....	21
Colostomy.....	3
Laparotomy.....	5
Miscellaneous.....	18
<b>CHEST:</b>	
Bronchoscopy.....	482
Extra-pleural pneumothorax.....	9
Intra-pleural pneumonolysis.....	476
Lobectomy.....	13
Monaldi Drainage.....	10
Phrenic Nerve Operation.....	271
Pneumonectomy.....	3
Rib-resection.....	3
Scapulectomy.....	2
Thoracoplasty.....	242
Thoracoscopy.....	74
Miscellaneous.....	109
<b>EYE, EAR, NOSE AND THROAT:</b>	
Cauterization of larynx.....	20
Tonsillectomy.....	12
Miscellaneous.....	63
<b>GENITO-URINARY:</b>	
Cystoscopy.....	70
Epididymectomy.....	2
Nephrectomy.....	16
Orchidectomy.....	3
Miscellaneous.....	35
<b>SUNDRY GYNAECOLOGICAL.....</b>	
	15
<b>ORTHOPEDICS:</b>	
Amputations.....	1
Arthrodesis.....	19
Plaster Casts.....	125
Spinal Fusion.....	28
Miscellaneous.....	26
<b>GENERAL:</b>	
Aspiration of Abscess.....	120
Bionsy.....	15
Excision of Glands.....	15
Incision of Abscess.....	41
Ischiorectal Operation.....	18
Miscellaneous.....	130
<b>SUNDRY.....</b>	
	43
<b>Total.....</b>	<b>2,558</b>
Pneumothorax attempted unsuccessfully (several attempts listed only as one)	257
Pneumothorax established (unilateral only).....	872
Pneumothorax established—bilateral (unilateral made bilateral).....	109



DIAGNOSTIC AND AGE GROUPS OF PATIENTS ADMITTED TO SANATORIA DURING THE YEAR 1946  
(Excludes transfers from other Sanatoria)

Diagnosis Established after Admission	under 5		5 to 9		10 to 14		15 to 19		20 to 24		25 to 29		30 to 34		35 to 39		40 to 44		45 to 49		50 to 59		60 and over		Total		Percent of Total Net Admissions	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Diagnosis not established.....																												
No evidence of tbc.	2	2	1	1	1	3	2	6	2	6	2	1	3	2	3	1	1	2	1	1	1	2	3	4	17	9	6	.3
Presumptive evidence and/or suspect tbc.																												
Tuberculosis not requiring treatment—only investigation or observation.....																												
Primary Infection	10	16	13	11	8				3	2																		
Pleuris with Effusion	4	2	3	1	2																							
Minimal	1	1	2	2	5	1	7	13	28	12	18	5	5	2	4	1	2	2	2	2	2	1	1	2	5	7	42	2.5
Moderately advanced	1																											
Far advanced	1																											
Extra-pul. tbc. only.....	3	6	3	2	5	9	11	5	12	8	11	10	5	3	9	4	4	5	6	3	11	4	1	4	81	63	2.7	
Live births in Sanatoria.....	11	10																										
Totals.....	34	37	25	26	36	47	94	157	283	294	242	285	173	147	160	103	143	78	159	57	237	75	167	42	1753	1298	57.5	
Percentage of Total Net Admissions.....	1.1	1.2	.8	.9	1.2	1.5	3.0	5.1	9.3	9.6	7.9	7.7	5.7	4.8	5.3	3.4	4.7	2.5	5.2	1.9	7.8	2.5	5.5	1.4	100.0	100.0	100.0	

NET DISCHARGES FROM SANATORIA DURING THE YEAR 1946  
SHOWING DIAGNOSIS ESTABLISHED AFTER ADMISSION, LENGTH OF STAY IN SANATORIA AND CONDITION  
AT TIME OF DISCHARGE ON A PERCENTAGE BASIS

(Excludes transfers and New Borns)

Diagnosis Established After Admission	Number	Percentage of diagnostic group staying in sanatoria since last admission							Percentage of diagnostic group discharged as:							
		30 day or less	Over 6 months	Over 1 year	Over 1½ years	Over 2 years	Over 3 years	Over 5 years	No evidence of tuberculosis	Arrested	Apparently Arrested	Quiescent	Unstable or Active	Died		
		Over 1 year	Over 1½ years	Over 2 years	Over 3 years	Over 5 years	Within 48 hours	After 48 hours								
Diagnosis not established.....	14	42.9	50.0	7.1	.....	.....	.....	.....	85.7	.....	.....	.....	.....	.....	14.3	.....
(a) Neg. I.C. reactors.....	38	81.6	18.4	.....	.....	.....	.....	.....	92.1	.....	.....	.....	.....	.....	7.9	.....
(b) Pos. I.C. reactors.....	95	46.3	49.5	2.1	.....	.....	2.1	.....	88.4	.....	.....	.....	.....	5.3	6.3	.....
Presumptive evidence and/or suspect tbc.....	44	20.5	61.4	11.4	2.2	2.3	2.2	.....	77.3	.....	2.3	6.8	.....	.....	13.6	.....
Tuberculosis not requiring treatment—only investigation or observation.....	95	75.8	23.1	1.1	.....	.....	.....	.....	.....	30.5	32.6	27.4	7.3	1.1	1.1	.....
(a) Pulmonary only.....	52	3.8	40.4	26.9	11.5	7.7	9.6	.....	.....	15.4	32.7	25.0	25.0	.....	1.9	.....
(b) With extra-pul. tbc.....	11	27.3	18.2	.....	18.2	9.0	27.3	.....	.....	36.4	.....	18.2	9.0	.....	36.4	.....
(a) Pleural eff. only.....	109	2.8	46.7	39.4	8.3	2.8	.....	.....	.....	11.9	8.3	67.9	9.2	.....	2.7	.....
(b) With other tbc.....	33	.....	27.3	30.3	21.2	6.1	15.2	.....	.....	9.1	27.3	33.3	21.2	.....	9.1	.....
(a) Pulmonary only.....	507	5.9	34.9	36.8	13.6	4.3	3.9	4	.....	5.1	22.1	53.8	18.3	.....	.6	.....
(b) With extra-pul. tbc.....	78	6.4	15.4	41.0	10.3	11.5	14.1	1.3	.....	14.1	6.4	41.0	21.8	.....	16.7	.....
(a) Pulmonary only.....	685	6.7	21.9	28.3	20.9	10.5	10.8	9	.....	1.9	14.9	52.7	25.3	.....	5.3	.....
(b) With extra-pul. tbc.....	148	5.4	15.5	24.3	20.3	12.8	18.2	3.4	.....	6.8	4.7	35.1	23.6	.....	29.7	.....
(a) Pulmonary only.....	645	11.8	25.9	19.2	12.7	8.5	17.7	4.2	.....	8	7.6	25.9	24.7	.6	40.5	.....
(b) With extra-pul. tbc.....	333	9.9	24.3	14.1	14.4	9.3	20.7	7.2	.....	3	3.6	19.8	11.7	.....	64.6	.....
(a) Pulmonary only.....	144	15.3	25.7	26.4	9.0	8.3	13.2	2.1	.....	20.1	2.1	49.3	17.4	.....	11.1	.....
(b) With extra-pul. tbc.....	3,031	12.8	27.7	24.2	13.8	7.6	11.6	2.3	.....	5.0	11.8	38.0	19.1	.3	20.4	.....
Totals (less new born—18).....																

Comments—A relatively high percentage of apparently unimplicated pleurisy with effusion cases entering sanatoriums going on to death, should be noted as well as the high percentage of far advanced cases being discharged by death.



FINANCIAL STATUS OF PATIENTS IN RESIDENCE IN SANATORIA AS  
OF DECEMBER 31, 1946

	Number	Percentage of Total
Payments by Patients—		
No contribution.....	2,362	71.9%
\$1.00 per week.....	2	.1
\$1.00 to \$2.00 per week.....	33	1.0
\$2.00 to \$3.00 per week.....	39	1.2
\$3.00 to \$4.00 per week.....	46	1.4
\$4.00 to \$5.00 per week.....	53	1.6
\$5.00 to \$10.00 per week.....	46	1.4
\$10.00 to \$11.00 per week.....	21	.6
\$11.00 per week.....	15	.5
	2,617	79.7
Infants born in sanatorium for whom the Province is paying		
\$1.00 per day.....	4	.1
Patients paid for by Workmen's Compensation Board.....	30	.9
Patients paid for by Indian Health Services.....	158	4.8
Patients paid for by Department of Veterans' Affairs.....	456	13.9
Others for whom no contribution was received from the Province.....	21	.6
	3,286	100.0%

PART VIII

CLASSIFICATION OF DISEASE IN PERSONS LEAVING  
SANATORIA AGAINST ADVICE

	1946	1947
Tuberculosis Suspect.....	2	3
Primary Infection.....	2	1
Pleurisy with Effusion.....	10	9
Minimal		
(a) Bacillary.....	6	4
(b) Non-Bacillary.....	32	39
Moderately Advanced		
(a) Bacillary.....	41	21
(b) Non-Bacillary.....	64	53
Far Advanced		
(a) Bacillary.....	72	42
(b) Non-Bacillary.....	30	15
Non-Pulmonary.....	6	7
	265	194

119 or 40.4% of those leaving in 1946 were infectious. 67 or 34.5% of those leaving in 1947 were infectious.

FOLLOW-UP OF INFECTIOUS CASES OF PULMONARY TUBERCULOSIS LEAVING SANATORIUM AGAINST ADVICE

	1946	1947
(a) Re-admitted to Sanatorium voluntarily . . . . .	56	24
(b) Re-admitted to Sanatorium on commitment . . . . .	4	1
(c) Maximum benefit cases—allowed to remain at home . . . . .	32	28
(d) Died at home . . . . .	3	1
(e) Lost track of . . . . .	11	4
(f) Moved out of the Province . . . . .	12	5
(g) Refused Sanatorium—no action taken . . . . .	1	1
(h) No answer to inquiries . . . . .	0	3
	119	67

TABLE XXXVI

DEATHS AND DEATH RATES FROM TUBERCULOSIS,  
CANADA BY PROVINCES, 1921 TO 1945

Year	Canada	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.
Number of deaths										
1921	7,698	128	702	413	2,909	2,083	420	322	313	408
1922	7,664	112	695	418	2,923	1,979	376	342	312	507
1923	7,847	93	652	439	3,029	1,989	402	352	366	525
1924	7,675	100	665	419	3,025	1,823	388	363	365	527
1925	7,469	86	580	405	2,937	1,842	383	344	354	538
1926	7,929	90	644	417	3,277	1,835	387	382	365	532
1927	7,782	72	643	412	3,145	1,803	369	391	396	551
1928	7,860	100	571	403	3,206	1,832	399	376	338	633
1929	7,772	75	522	379	3,286	1,703	424	377	391	615
1930	8,075	103	548	392	3,350	1,791	456	407	408	620
1931	7,616	68	524	339	3,178	1,728	429	326	382	642
1932	7,166	88	519	328	2,983	1,604	397	281	401	565
1933	6,939	72	478	352	2,927	1,465	414	297	390	544
1934	6,431	93	467	285	2,680	1,337	389	293	318	569
1935	6,597	60	488	335	2,813	1,303	432	272	329	565
1936	6,763	61	485	357	2,890	1,327	420	279	382	562
1937	6,669	65	461	388	2,769	1,315	426	303	340	602
1938	6,126	81	415	342	2,616	1,237	349	271	280	535
1939	5,977	63	428	286	2,680	1,085	367	233	283	552
1940	5,789	56	415	295	2,503	1,011	369	241	321	578
1941	6,072	70	429	314	2,685	1,100	328	284	329	533
1942	5,980	43	379	330	2,719	1,093	336	251	271	558
1943	6,168	42	417	225	2,842	1,101	384	250	294	613
1944	5,724	58	357	238	2,624	1,068	348	223	291	517
1945	5,546	42	338	266	2,555	1,015	315	227	263	525
Rate per 100,000 population										
1921	87.7	144.4	134.0	106.4	123.2	71.0	68.8	42.5	53.2	77.8
1922	86.0	125.8	133.1	107.5	121.3	66.4	61.0	44.5	52.7	93.7
1923	87.2	106.9	125.9	112.9	123.8	66.0	64.9	45.2	61.7	94.6
1924	84.1	116.3	128.9	107.2	121.2	59.6	62.1	45.9	61.1	92.3
1925	80.5	100.0	112.6	103.1	115.2	59.2	60.6	42.7	58.8	91.5
1926	84.0	103.4	125.0	105.3	125.9	58.0	60.6	46.5	60.0	87.8
1927	80.9	82.8	124.9	103.5	118.4	56.0	56.7	46.5	62.6	88.4
1928	80.0	113.6	110.9	100.5	118.1	55.9	60.1	43.9	51.4	98.8
1929	77.6	85.2	101.4	93.8	118.5	51.1	62.6	42.7	57.2	93.3
1930	79.2	117.0	106.6	96.6	118.6	52.9	66.2	45.1	57.6	91.7
1931	73.5	77.3	102.2	83.0	110.6	50.4	61.3	35.4	52.2	92.5
1932	68.3	98.9	100.0	79.2	102.0	46.2	56.3	30.4	54.2	79.9
1933	65.3	80.0	91.0	84.0	98.5	41.7	58.5	32.1	52.0	75.9
1934	60.0	102.2	87.9	67.4	88.9	37.7	54.9	31.6	42.0	78.3
1935	60.9	65.2	91.0	78.3	92.0	36.4	60.8	29.2	43.0	76.8
1936	61.9	65.6	89.3	82.4	93.3	36.8	59.1	30.0	49.4	75.4
1937	60.5	69.9	84.0	88.8	88.2	36.2	59.6	32.9	43.8	79.3
1938	55.0	86.2	74.8	77.4	82.2	33.7	48.5	29.6	35.9	69.0
1939	53.1	67.0	76.3	64.0	83.0	29.3	50.6	25.7	36.0	69.7
1940	50.9	58.9	72.9	65.3	76.4	27.0	50.7	26.8	40.6	71.8
1941	52.8	73.6	74.2	68.6	80.6	29.0	44.9	31.7	41.3	65.2
1942	51.4	47.8	64.1	71.1	80.2	28.1	46.4	29.6	34.9	64.1
1943	52.3	46.2	68.7	48.6	82.2	28.1	52.9	29.7	37.1	68.1
1944	47.9	63.7	58.3	51.5	75.0	26.9	47.5	26.4	35.6	55.5
1945	45.8	45.7	54.4	56.8	71.7	25.3	42.8	26.9	31.8	55.3

TABLE XXXVII

DEATHS AND DEATH RATES FROM TUBERCULOSIS—INDIANS EXCLUDED  
CANADA BY PROVINCES, 1926 TO 1945

Year	Canada	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.
Number of Deaths										
1926	7,359	87	629	408	3,259	1,726	348	298	216	388
1927	7,178	69	636	404	3,120	1,678	318	303	247	403
1928	7,262	100	563	395	3,184	1,702	327	293	237	461
1929	7,144	73	512	364	3,272	1,592	351	291	245	444
1930	7,383	101	546	384	3,331	1,645	370	290	257	459
1931	6,944	67	512	331	3,154	1,615	322	247	225	471
1932	6,446	88	508	321	2,962	1,494	250	209	238	376
1933	6,170	70	474	345	2,914	1,342	239	222	207	357
1934	5,723	91	460	282	2,655	1,248	246	209	179	353
1935	5,893	60	484	322	2,777	1,209	269	196	177	399
1936	6,015	60	478	348	2,847	1,217	259	205	224	377
1937	5,844	65	447	378	2,722	1,198	254	206	206	368
1938	5,423	80	406	333	2,578	1,117	226	178	172	333
1939	5,268	60	425	277	2,637	974	237	152	152	354
1940	5,060	55	408	285	2,468	918	223	161	163	379
1941	5,349	69	418	305	2,633	978	209	179	198	360
1942	5,272	43	372	321	2,659	983	189	149	165	391
1943	5,385	42	403	217	2,798	977	203	169	171	405
1944	4,966	56	345	227	2,557	937	196	154	175	349
1945	4,852	39	328	259	2,495	895	186	145	152	353
Rate per 100,000 population										
1926	78.8	100.4	122.6	103.4	125.8	55.0	55.5	36.8	36.1	66.7
1927	75.4	79.6	123.9	101.9	118.0	52.6	49.7	36.5	39.6	67.3
1928	74.7	114.0	109.7	98.9	117.8	52.3	50.1	34.4	36.5	74.8
1929	72.1	83.2	99.8	90.5	118.6	48.1	52.8	33.4	36.4	70.0
1930	73.2	115.2	106.6	95.0	118.5	49.0	54.7	32.5	36.9	70.5
1931	67.7	76.4	100.2	81.5	110.2	47.4	46.9	27.1	31.2	70.4
1932	62.0	99.2	98.3	77.9	101.7	43.4	36.1	22.9	32.7	55.2
1933	58.7	78.0	90.6	82.7	98.5	38.5	34.4	24.3	28.0	51.6
1934	53.9	100.2	87.0	66.9	88.4	35.5	35.3	22.8	24.0	50.2
1935	55.0	65.4	90.7	75.5	91.2	34.1	38.6	21.4	23.5	56.0
1936	55.6	64.7	88.4	80.7	92.3	34.0	37.1	22.3	29.4	52.3
1937	53.5	70.1	81.7	86.9	87.0	33.2	36.2	22.6	26.9	50.1
1938	49.2	85.3	73.4	75.7	81.3	30.7	32.0	19.7	22.4	44.4
1939	47.3	64.0	76.1	62.2	82.0	26.5	33.3	17.0	19.6	46.1
1940	45.0	58.1	72.0	63.3	75.6	24.7	31.3	18.2	21.0	48.6
1941	47.0	72.9	72.6	67.0	79.4	26.0	29.2	20.3	25.3	45.4
1942	45.8	47.9	63.2	69.5	78.8	25.5	26.7	17.9	21.6	46.3
1943	46.1	46.3	66.6	47.1	81.3	25.1	28.6	20.4	22.0	46.3
1944	42.2	61.7	56.6	49.4	73.4	23.8	27.4	18.5	21.7	38.5
1945	40.5	42.5	53.0	55.6	70.4	22.5	25.8	17.5	19.7	38.2

NOTE: Halfbreeds are included in the figures for 1936 and following years.

## TUBERCULOSIS DEATH RATES PER 100,000 POPULATION FOR CANADA AND EACH OF THE NINE PROVINCES—1921 TO 1946 (INCLUSIVE)

Year	Canada *	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.
†1921	‡87.7	143.8	134.0	106.4	‡123.2	71.0	68.9	4.25	53.2	77.7
1922	‡86.0	125.8	133.1	107.5	‡121.3	66.4	61.0	44.5	52.7	93.7
1923	‡87.2	106.9	125.9	112.9	‡123.8	66.0	64.9	45.2	61.7	94.6
1924	‡84.3	117.4	129.5	107.9	‡121.2	59.9	62.2	46.1	61.6	93.0
1925	‡81.0	101.2	114.0	103.6	‡115.2	60.2	60.9	43.2	58.8	92.2
1926	86.0	104.6	129.1	109.3	129.3	58.9	61.0	47.6	60.7	90.3
1927	82.3	86.2	127.8	104.3	120.4	56.7	57.6	47.8	63.3	91.0
1928	81.0	113.6	112.2	101.7	119.7	56.4	61.0	44.8	51.8	100.2
1929	79.5	88.6	103.7	96.8	121.5	52.4	63.5	43.9	58.8	95.0
1930	80.1	117.0	107.4	96.8	120.4	53.3	67.1	45.6	58.1	92.3
1931	73.5	77.3	102.1	83.1	110.6	50.3	61.3	35.4	52.2	92.5
1932	68.3	98.9	100.0	79.4	102.5	46.2	56.0	30.1	54.2	80.3
1933	65.1	80.9	91.6	83.8	98.6	41.1	58.3	31.9	52.1	76.4
1934	59.5	104.5	89.0	67.1	88.8	36.8	54.7	31.4	42.1	78.5
1935	60.4	67.4	92.6	78.1	91.9	35.5	60.8	29.2	43.1	76.9
1936	61.4	66.3	90.3	82.1	93.3	36.0	59.1	30.0	49.4	74.9
1937	60.0	69.9	85.1	88.2	88.3	35.4	59.4	32.3	43.7	80.2
1938	54.7	86.2	75.7	76.9	82.5	33.2	48.5	28.8	35.8	70.3
1939	52.9	66.3	77.3	63.4	83.5	28.9	50.5	24.6	35.9	71.3
1940	50.9	59.6	73.8	65.3	76.8	26.9	50.7	25.9	40.6	72.7
1941	52.8	73.6	74.2	68.6	80.6	29.0	44.9	31.7	41.3	65.2
1942	51.4	47.8	64.1	71.1	80.2	28.2	46.9	29.6	34.9	64.2
1943	52.3	46.2	68.7	48.6	82.2	28.1	52.9	29.7	37.1	68.1
1944	47.9	63.7	58.3	51.5	75.0	26.9	47.5	26.4	35.6	55.5
1945	45.8	45.7	54.4	56.8	71.7	25.3	42.8	26.9	31.8	55.3
1946	47.4	58.5	62.4	57.7	72.4	25.7	44.6	26.8	37.6	57.4
% of De- creases 1921- 1946	46.0	59.3	54.9	45.8	41.2	63.8	35.2	36.9	29.3	26.1

\*Exclusive of Yukon and the Northwest Territories.

†Indians not included in all provinces.

‡Figures taken from Provincial Bureau of Health Reports.



## DIVISION OF VENEREAL DISEASE CONTROL

W. G. BROWN, M.D., D.P.H., *Acting Director*

In the Province of Ontario, the public health procedures for the prevention and control of venereal diseases are applied through the local public health services provided by the local board of health. The Division of Venereal Disease Control distributes financial assistance in the form of subsidies and grants and offers advisory and directional assistance in matters of diagnosis, treatment and public health control procedures. This report is, therefore, not only a summary of Division activity but expresses the participation and accomplishments of the many local public health authorities, to whom much credit and commendation is due.

The trend of incidence of venereal diseases, as reported to the Division, is definitely downward, which fact should be of no little encouragement to those who have devoted so much time and skill to this difficult and elusive problem. The year 1947 provided a total of 8,234 reports of previously unregistered infections, giving a rate of 2 per thousand population, whereas the year 1946 had given a total of 12,188 reports with a rate of 3 per thousand. This reduction of 3,954 reported cases represents a 32.4% reduction of reported incidence. The rate of 2 per thousand population for 1947 marks a return of the reported incidence rate to the lowest level recorded during the past ten-year period.

TABLE 1  
THE REPORTED INCIDENCE OF VENEREAL DISEASE IN ONTARIO  
Showing the Annual Number of Venereal Disease Infections Reported  
1938 to 1947

Year	SYPHILIS (All Forms)	GONOR- RHOEA	TOTAL VENEREAL DISEASE	
			No.	Rate per 1,000 Popu- lation
1938 .....	3,010	4,188	7,198	1.96
1939 .....	3,285	4,125	7,410	2.00
1940 .....	4,953	4,218	9,171	2.45
1941 .....	7,484	5,293	12,777	3.37
1942 .....	5,952	6,220	12,172	3.13
1943 .....	6,849	6,390	13,239	3.38
1944 .....	5,365	7,908	13,273	3.35
1945 .....	4,919	8,225	13,144	3.28
1946 .....	4,834	7,354	12,188	3.04
1947 .....	3,302	4,932	8,234	2.00

### A. REPORTED INCIDENCE OF SYPHILIS

From the standpoint of public health prevention and control of syphilis those infections which are actually or potentially infectious are of the greatest concern. These infections comprise primary and secondary syphilis and latent syphilis of less than two years duration, as well as syphilis of any duration in a

female of child bearing age. It is only by prompt diagnosis and control of these infections by treatment, that control of syphilis can be accomplished. The thorough investigation of the source and spread of every such infection is of course of equal importance if further dissemination of the disease is to be prevented. The following tables present statistical data, provided through the co-operation of physicians and clinics, with added comments to indicate their probable significance.

TABLE 2  
THE REPORTED INCIDENCE OF SYPHILIS IN ONTARIO  
Showing the Annual Number of Syphilis Infections Reported  
1938 to 1947

Year	SYPHILIS (All Forms)	
	No.	Rate per 1,000 Population
1938.....	3,010	0.82
1939.....	3,285	0.89
1940.....	4,953	1.32
1941.....	7,484	1.97
1942.....	5,952	1.53
1943.....	6,849	1.75
1944.....	5,365	1.35
1945.....	4,919	1.23
1946.....	4,834	1.20
1947.....	3,302	0.80

There has been a continued decrease in the annual number of reported syphilis infections since the year 1943, as shown in Table 2. This table also shows that the annual reported syphilis incidence rate, per 1,000 population, for the year 1947 was the lowest rate recorded during the ten-year period just completed.

The numerical distribution of reported syphilis by age groups, sex and classification of infection is shown in Table 3.

TABLE 3

## THE REPORTED INCIDENCE OF SYPHILIS IN ONTARIO

Showing the Distribution of Reported Syphilis by Age Group, Sex and Classification of Disease  
January to December, 1947

Age Group	Prenatal Syphilis		ACQUIRED SYPHILIS								Type not Stated		Total	
			Early				Late							
			Primary		Secondary		Latent		Other					
			M	F	M	F	M	F	M	F				
0-4	31	33	...	...	...	...	...	...	...	...	1	...	32	33
5-9	10	5	...	3	...	...	...	...	...	...	2	...	12	8
10-14	8	4	...	...	1	...	...	...	...	...	1	...	8	6
15-16	2	5	6	6	6	11	1	9	...	...	2	...	15	33
17-19	1	2	47	34	10	49	15	42	3	1	1	10	77	138
20-24	2	6	185	76	54	81	77	105	2	1	9	24	329	293
25-29	2	5	129	36	44	65	66	86	3	6	10	27	254	225
30-34	1	3	75	27	34	34	64	67	9	13	8	11	191	155
35-39	...	...	70	20	27	21	46	59	13	24	11	10	167	134
40-49	...	...	58	6	32	22	94	63	87	34	13	12	284	137
50-59	...	...	23	2	17	3	70	26	97	22	17	10	224	63
60 plus	...	...	10	...	12	6	59	22	54	8	16	5	151	41
N.S.	...	3	36	26	13	30	47	49	28	15	21	24	145	147
All Ages	57	66	639	236	249	323	539	528	296	124	109	136	1,889	1,413
	123		875		572		1,067		420		245		3,302	

The distribution of reported infections by age group has been extended up to age 60. It may now be noted that the occurrence of primary syphilis extends in significant numbers through the older age groups among males. The same observation might be made regarding secondary syphilis, although differences in incidence for the two sexes are not so marked. The more uniform distribution of latent syphilis throughout the age groups, in both sexes, from 20 to 60 years of age, is as might be expected although it is noted that a peak occurs among females in the 20-24 year age group, which may be related to the more frequent inclusion of the serologic test in the examination of expectant mothers. Late syphilis, as might be expected, is reported in the later age groups when symptoms of debilitating disease draw attention to existence of previously latent asymptomatic infection.

The age distribution of the population should of course be taken into consideration when the factor of age is related to incidence. This has been done and the data are presented in Table 4. This table also gives the data for the year 1946 for comparative purposes.

TABLE 4  
THE REPORTED INCIDENCE OF SYPHILIS IN ONTARIO  
Showing the Annual Rate per Thousand Population of Reported Syphilis  
By Age Group and Sex  
1946 and 1947

Age Group	MALE			FEMALE		
	1946	1947	Per cent Decrease in 1947	1946	1947	Per cent Decrease in 1947
0-14 .....	0.09	0.09	.....	0.10	0.10	.....
15-19 .....	0.61	0.55	- 9.8	1.26	1.04	-17.5
20-24 .....	3.16	1.88	-40.5	2.26	1.65	-27.0
25-29 .....	3.38	1.51	-55.3	1.81	1.33	-26.5
30-34 .....	1.51	1.18	-35.8	0.62	0.96	-17.7
35-39 .....		1.11			0.92	
40-49 .....		1.06			0.54	
50-59 .....		1.02			0.30	
60 plus.....		0.61			0.16	
N.S.....	0.14	0.07	-50.0	0.10	0.07	-30.0
All Ages.....	1.52	0.91	-40.1	0.89	0.69	-22.5

Although the age group of highest reported incidence among males has apparently shifted from the 25-29 to the 20-24 year age group, the decrease in incidence is quite uniform throughout all the significant age groups for either sex. The smaller percentage decrease shown for females in this table might be considered in the light of further data provided in Table 5.

TABLE 5  
THE REPORTED INCIDENCE OF SYPHILIS IN ONTARIO  
Showing the Annual Rate per Thousand Population of Reported Syphilis  
by Age Group, Classification and Sex  
January to December, 1947

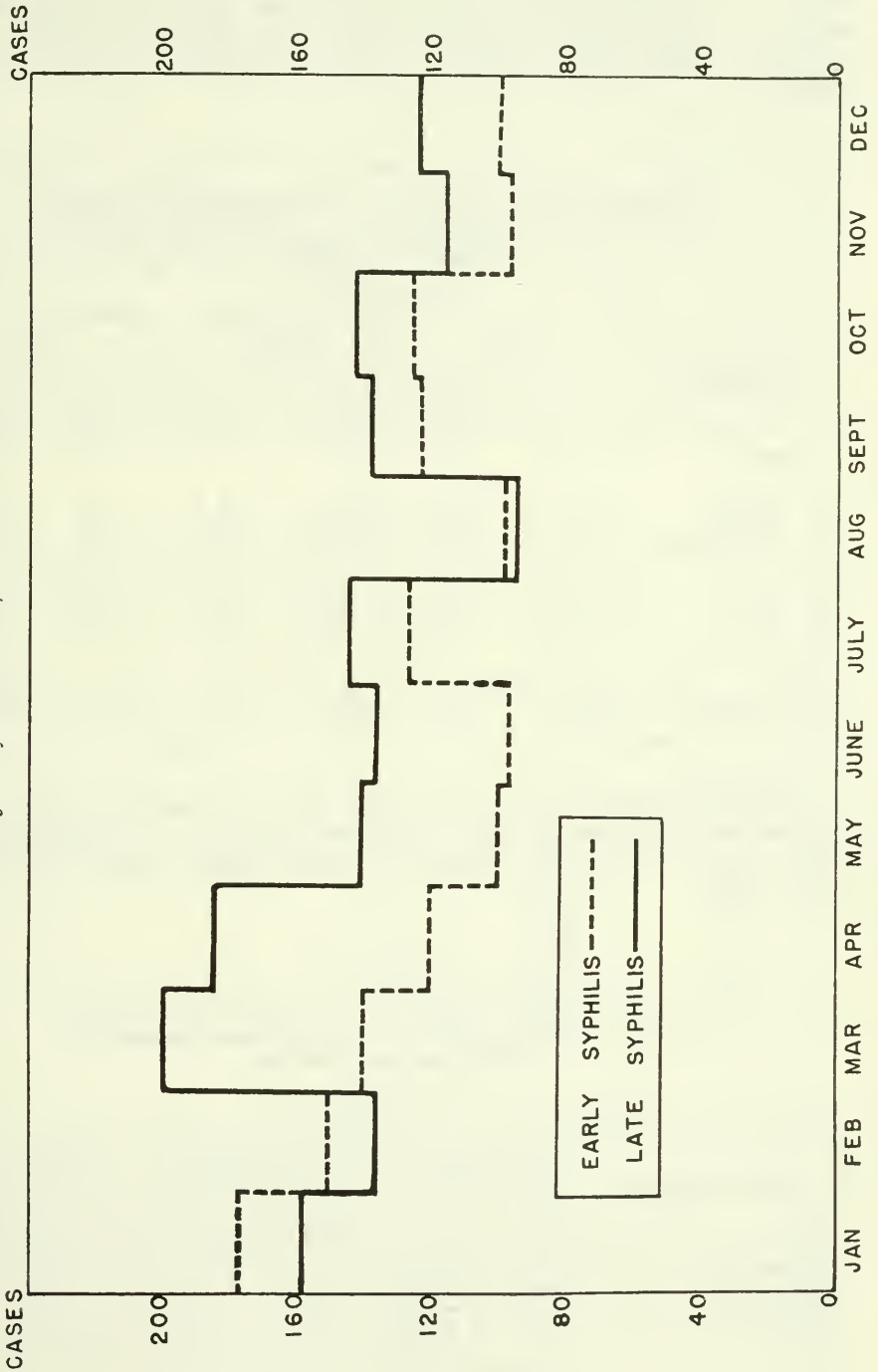
Age Group	PRE-NATAL		PRIMARY AND SECONDARY		OTHER	
	Male	Female	Male	Female	Male	Female
0-4 .....	0.16	0.18	.....	.....	.....	.....
5-9 .....	0.06	0.03	.....	0.02	0.01	.....
10-14 .....	0.05	0.03	.....	0.01	.....	0.01
15-19 .....	0.02	0.04	0.41	0.61	0.12	0.39
20-24 .....	0.01	0.03	1.36	0.89	0.50	0.73
25-29 .....	0.01	0.03	1.03	0.60	0.47	0.70
30-34 .....	0.01	0.02	0.67	0.38	0.50	0.57
35-39 .....	.....	.....	0.65	0.28	0.47	0.64
40-49 .....	.....	.....	0.34	0.11	0.73	0.43
50-59 .....	.....	.....	0.18	0.02	0.83	0.27
60 plus.....	.....	.....	0.09	0.02	0.52	0.13
N.S.....	.....	.....	0.02	0.03	0.05	0.04
All Ages.....	0.03	0.03	0.43	0.27	0.45	0.39

It will be noted that when reported infections are classified by sex and stage of infection, the higher rate of incidence among males is more apparent. This is more evident in the primary and secondary classifications, but is still evident in infections in the later stages of development.

From the standpoint of syphilis control, the early communicable infections are of greatest significance. New syphilis arises from existing infectious syphilis. The effectiveness of control measures will depend ultimately and almost entirely upon the success which is attained in promptly locating infectious early syphilis and rendering that infection non-communicable by adequate treatment. This infectious disease continues to be prevalent in our population either because early cases are not adequately treated when located or because there are still a significant number of early infections which are never located, at least in the infectious stage. The former reason should be decreasing in importance in view of greater public and physician co-operation and the availability of more efficient treatment methods. The latter reason is still by far the major cause of failure in attainment of effective control. For this reason the Division purposes to concentrate its efforts during the coming year in an attempt to reduce the prevalence of communicable infection which must exist.

During the year 1947 a reduction in reported primary and secondary infection was noted. This reduction of 894 reports, or 38.2%, though encouraging to a degree, is still far from the result which should be possible if all the means at the disposal of local health departments are applied effectively. The Division has planned an expansion of assistance and services toward this end and it is hoped that more significant results can be obtained. Figure 1 indicates the trend, as shown by reporting, of the incidence of early and late infections.

FIGURE 1  
 THE REPORTED INCIDENCE OF VENEREAL DISEASE IN ONTARIO  
 Showing the Number of Cases of Venereal Disease Reported by Months  
 January to December, 1947





## B. REPORTED INCIDENCE OF GONORRHOEA

The reported incidence of gonorrhoea shows, as does that of syphilis, a distinct decrease with a reduction of 2,422 infections for the year 1947 as compared with 1946, being a reduction of 32.9%. The assumption that the reported incidence is expressive of actual incidence, would be an error and the Division is aware of this fact. The increasing reliance upon penicillin as therapeutic means to treat any inflammatory genito-urinary condition is tending to eliminate repeated laboratory examinations for the confirmation of a diagnosis of gonorrhoea. It is not considered to be poor public health practice to treat clinical infections suggestive of gonorrhoea on a presumed diagnosis, although it is still the policy of the Division to urge physicians and clinics to follow the most careful methods of examination with a view to establishing an accurate rather than a presumptive diagnosis. Gonorrhoea still presents a wide-spread problem of a dangerous and costly communicable disease and every advantage should be taken of modern progress in therapy. But epidemiologic investigations still in a significant number of instances, may be expected to be the only effective means available to locate and bring undiscovered infections under medical care.

TABLE 8  
THE REPORTED INCIDENCE OF GONORRHOEA IN ONTARIO  
Showing the Annual Number of Gonorrhoea Infections Reported  
1938 to 1947

Year	GONORRHOEA	
	No.	Rate per 1,000 Population
1938.....	4,188	1.14
1939.....	4,125	1.11
1940.....	4,218	1.13
1941.....	5,293	1.40
1942.....	6,220	1.60
1943.....	6,390	1.63
1944.....	7,908	2.00
1945.....	8,225	2.05
1946.....	7,354	1.84
1947.....	4,932	1.20

Few comments need be made respecting the data presented in the following tables. Many of the comments made in respect of similar data related to syphilis, apply also to gonorrhoea. The extended age group distribution shows a continuation of involvement of the male, into the older age groups. The age group of greatest reported incidence was formerly the 20-24 year age group and this distribution still prevails. It may be noted that the distribution of reporting agency for gonorrhoea shows that the highest percentage of reports came from clinics, particularly for infections in the female, whereas the highest number of reports respecting syphilis came from physicians.



TABLE 9

THE REPORTED INCIDENCE OF GONORRHOEA IN ONTARIO  
 Showing the Distribution of Reported Gonorrhoea by Age Group and Sex  
 January to December, 1947

Age Group	GONORRHOEA		
	Male	Female	Total
0-4 .....	4	13	17
5-9 .....	1	13	14
10-14 .....	7	8	15
15-16 .....	16	48	64
17-19 .....	331	252	583
20-24 .....	1,425	428	1,853
25-29 .....	829	190	1,019
30-34 .....	368	96	464
35-39 .....	220	34	254
40-49 .....	209	41	250
50-59 .....	44	13	57
60 plus .....	31	3	34
N.S. ....	238	70	308
All Ages .....	3,723	1,209	4,932

TABLE 10

THE REPORTED INCIDENCE OF GONORRHOEA IN ONTARIO  
 Showing the Annual Rate per Thousand Population of Reported Gonorrhoea  
 by Age Group and Sex  
 1946 and 1947

Age Group	MALE			FEMALE		
	1946	1947	Per cent Decrease in 1947	1946	1947	Per cent Decrease in 1947
0-14 .....	0.02	0.02	.....	0.15	0.06	-60.0
15-19 .....	2.74	2.08	-24.1	2.41	1.83	-24.1
20-24 .....	13.02	8.13	-37.6	3.08	2.42	-21.4
25-29 .....	9.11	4.92	-46.0	1.65	1.12	-32.1
30-34 .....	1.20	2.27	-30.8	0.22	0.60	-18.2
35-39 .....		1.47			0.23	
40-49 .....		0.78			0.16	
50-59 .....		0.20			0.06	
60 plus .....		0.12			0.01	
N.S. ....	0.18	0.11	-38.9	0.06	0.03	-50.0
All Ages .....	2.84	1.80	-36.6	0.81	0.59	-27.2

TABLE 11  
THE REPORTED INCIDENCE OF GONORRHOEA IN ONTARIO  
Showing a Percentage Analysis of Gonorrhoea Reports Received  
by Reporting Agency and Sex  
1945 to 1947

Reporting Agency	MALE GONORRHOEA			FEMALE GONORRHOEA			TOTAL GONORRHOEA		
	1945	1946	1947	1945	1946	1947	1945	1946	1947
Physicians.....	29.2	40.7	45.7	36.6	40.3	34.0	31.0	40.6	42.8
Clinics.....	27.6	41.6	47.0	56.5	54.4	61.4	34.4	44.4	50.5
Armed Forces.....	40.7	15.0	4.8	2.3	0.3	.....	31.6	11.8	3.6
Other.....	2.5	2.7	2.5	4.6	5.0	4.6	3.0	3.2	3.1
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

### C. EPIDEMIOLOGY

The epidemiologic investigations which are initiated by the location of previously unknown communicable venereal disease infections, constitute a major portion of the venereal disease control procedures of any health department. The effectiveness of these procedures depends upon skillful case interviewing, thorough contact investigation and adequate medical examination of contacts located. Skillful interviewing will elicit from the case, adequate, relevant and more or less complete information which offers good prospects for successful location of the contact named. When contacts are located their medical examination must be adequate if the presence or absence of infection, which may be either incubating or active or latent, is to be proven or disproven. The following tables present data on the results obtained during the past year in the over-all programme of epidemiology. These data reflect the recent improvements in recording and assessing of contact information but indicate as in previous years that there is still room for considerable improvement in efficiency.

TABLE 12  
EPIDEMIOLOGIC INVESTIGATION OF CONTACT INFORMATION IN ONTARIO  
Showing Cases Reported and Contact Informations Received  
1943 to 1946

Year	Venereal Disease Cases Reported	Contact Informations Received	Ratio of Cases to Contacts
1943.....	13,239	2,047	1 : 0.15
1944.....	13,273	6,820	1 : 0.51
1945.....	13,144	10,360	1 : 0.79
1946.....	12,188	9,006	1 : 0.74
1947.....	8,234	7,160	1 : 0.87

This table presents numerically the totals of cases and contact informations reported to the Division during the five year period 1943 to 1947, together with the ratio of cases to contact informations. It will be noted that, although the

total number of contact informations for the year 1947 was not as great as last year, the ratio has followed the previous trend of improvement. There are still large numbers of contact informations which are inadequate or are irrelevant to the case concerned. These are included in order to avoid a false impression of the efficiency of epidemiologic procedures. Unless they are included any evaluation of epidemiology would assume case interviewing to be of such efficiency as to always provide adequate contact information for investigation.

TABLE 13

## EPIDEMIOLOGIC INVESTIGATION OF CONTACT INFORMATION IN ONTARIO

Showing Percentage Distribution of Cases Reported and Contact Informations Received by Age Group, Sex and Disease

January to December, 1947

Age Group	EARLY SYPHILIS				GONORRHOEA			
	Male		Female		Male		Female	
	Cases	Contacts	Cases	Contacts	Cases	Contacts	Cases	Contacts
Under 15.....	.....	3.3	0.7	4.6	0.3	0.1	2.8	0.4
15-19.....	7.8	7.3	17.9	13.2	9.3	7.5	24.8	17.0
20-24.....	26.9	20.0	28.1	24.1	38.3	30.9	35.4	38.5
25-29.....	19.5	17.4	18.1	15.1	22.3	22.4	15.7	18.0
Over 30.....	40.3	28.5	25.2	21.0	23.4	21.2	15.5	13.3
Not stated...	5.5	23.5	10.0	22.0	6.4	17.9	5.8	12.8
All Ages.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table 13 shows the age group distribution of persons reported as cases compared with the age group distribution of persons reported as contacts.

TABLE 14

## EPIDEMIOLOGIC INVESTIGATION OF CONTACT INFORMATION IN ONTARIO

Showing the Relation Between Cases Reported and Contact Informations Received by Disease and Sex

January to December, 1947

Disease	REPORTED CASES		CONTACT INFORMATIONS		RATIO OF CASES TO CONTACTS	
	Male	Female	Male	Female	A : D	B : C
Syphilis.....	A 1,889	B 1,413	C 1,316	D 1,353	1 : 0.72	1 : 0.93
Gonorrhoea.....	3,723	1,209	1,314	3,177	1 : 0.85	1 : 1.09
Total Venereal Disease.	5,612	2,622	2,630	4,530	1 : 0.81	1 : 1.00

Table 14 presents, numerically by sex, the number of case reports received in relation to the number of contact informations. The cases in column A when interviewed named the contacts in column D and the case in column B

named the contacts in column C. It is noted that female patients provide more contact informations than male patients. A survey of the information collected also shows that the information obtained from female cases is more adequate and therefore is more useful for investigation purposes.

TABLE 15

## EPIDEMIOLOGIC INVESTIGATION OF CONTACT INFORMATION IN ONTARIO

Showing the Ratio between Cases Reported and Contact Informations Received by Reporting Agency

January to December, 1947

Reporting Agency	Reported Cases of Venereal Disease	Number of Contact Informations	Ratio of Cases to Contacts
Clinics.....	3,803	4,455	1 : 1.17
Physicians.....	3,811	1,820	1 : 0.48
Armed Forces.....	195	162	1 : 0.83
Other*.....	425	732	*
Total.....	8,234	7,160	1 : 0.87

\*Includes contact informations respecting cases of venereal disease residing outside of Ontario.

Table 15 presents the data of reported cases and reported contact informations with ratio of cases to contacts, classified by reporting agency. This table indicates the distribution of the field of case interviewing opportunity. The degree of interviewing activity is shown for each agency group. Due allowance must be made for the fact that the stage of infection in the case frequently determines the advisability or need for interviewing, with the interviewing of early syphilis and gonorrhoea cases being of greatest importance.

TABLE 16

## EPIDEMIOLOGIC INVESTIGATION OF CONTACT INFORMATION IN ONTARIO

Showing the Number of Contacts Located

1944 to 1947

Year	CONTACTS INVESTIGATED	CONTACTS LOCATED	
		No.	Percent
1944.....	6,820	2,518	36.9
1945.....	10,360	3,840	37.1
1946.....	9,006	3,761	41.8
1947.....	7,160	3,544	49.5

In Table 16 the success of contact locating is expressed both numerically and as a percentage of the total investigation load which was undertaken. The percentage of persons named as contacts who are located has improved over previous years and is now close to 50%.

TABLE 17

EPIDEMIOLOGIC INVESTIGATION OF CONTACT INFORMATION IN ONTARIO  
 Showing the Number of Contacts Found Infected  
 1944 to 1947

Year	CONTACTS LOCATED	CONTACTS FOUND INFECTED	
		Number	Percent
1944.....	2,518	1,380	55.1
1945.....	3,840	2,122	55.3
1946.....	3,761	1,856	49.4
1947.....	3,544	1,671	48.9*

\*This statistic excludes those located contacts who were not yet diagnosed at the time this table was prepared.

Of the persons located, approximately 50% are found on examination to be infected. It is doubtful if this latter finding will show much change in the future. However, the percentage of persons named, who are located, can be improved if case interviewing and contact information improves in quality. It is toward this end that appraisal of methods and development of rules of relevancy will be continued in order that irrelevant information may be recognized and valuable staff time saved.

TABLE 18

EPIDEMIOLOGIC INVESTIGATION OF CONTACT INFORMATION IN ONTARIO  
 Showing Contacts Located, Contacts not Located, and Contacts Still under  
 Investigation, by Sex  
 January to December, 1947

	MALE		FEMALE		TOTAL	
	No.	Per Cent	No.	Per Cent	No.	Per Cent
Contacts Located.....	1,532	58.3	2,012	44.4	3,544	49.5
Syphilis.....	310	11.8	307	6.8	617	8.6
Gonorrhoea.....	413	15.7	641	14.2	1,054	14.7
Negative.....	731	27.8	967	21.3	1,698	23.7
In the Course of Examination.....	78	3.0	97	2.1	175	2.5
Contacts Not Located.....	1,036	39.4	1,927	42.5	2,963	41.4
Inadequate Information.....	446	17.0	795	17.5	1,241	17.4
Outside the Province.....	85	3.2	189	4.2	274	3.8
Other Reason.....	505	19.2	943	20.8	1,448	20.2
Contacts under Investigation at the End of the Year.....	62	2.3	591	13.1	653	9.1
Total Contacts Reported.....	2,630	100.0	4,530	100.0	7,160	100.0

Table 18 gives the results of investigations in more detail and shows the value of the more adequate contact identification provided by females respecting male contact who, as shown in the table, were located with considerable more frequency than were the female contacts described by males.

It will be noted that in 20.2% of all contact investigations the contact was classified as not located since the local health authority did not provide an adequate report. In these instances the Division was not able to assess the finding respecting the investigations concerned and therefore classified them in the not located category.

In view of the fact that the true appraisal of the results of epidemiologic procedures is the percentage of all reported infections which were brought under medical care by these procedures, the Division proposes to establish criteria for appraisal of procedures carried out respecting primary and secondary syphilis and will be able to compare future data with the findings for the year 1947.

## D. STATISTICAL AND CLINICAL STUDIES

In the study of syphilis and gonorrhoea, as is the case with any infectious disease, certain basic facts must be known. Among these essential facts are the extent and characteristics of distribution of these infections. This knowledge is a prerequisite to effective prevention and control and for this reason the Division for the past two years has conducted statistical studies on available data. Two such studies are outlined briefly below with comments as to the findings.

### A. *A Study Based on Case Reporting*

The punch-card analysis of 5,032 notifications, received by this Division during the period April 1st to September 30th, 1947, provided data about the venereal disease cases from which annual reported incidence rates per 1,000 population were derived. The compilation of these rates in tabular and other forms on the basis of classification of disease, sex, age-group distribution, marital status and means of identification of the case, together with data respecting the source of notification and the basis for reporting, revealed the following pertinent information:

1. Of 5,032 notifications received, 77.4 per cent pertained to previously unreported infections and 22.6 per cent were forwarded for other reasons.
2. A full name was used as identification in 94.6 per cent of all notifications received.
3. Physicians and clinics shared equally in providing 92.3 per cent of notifications of previously unreported infections.
4. The reported incidence rate, irrespective of sex or diagnosis, appears to be substantially higher among divorced or separated individuals.
5. In a special study it was found that 85 per cent of the reported diagnoses of primary and secondary syphilis, among married persons, were made after these individuals had been married at least four years. Among persons in the divorced or separated group, all such diagnoses were made within four years of the stated date of separation from marriage.

6. In so far as the acquisition of gonorrhoea and early syphilis is concerned, the significant age group for males is 20-29 years and for females 15-24 years.
7. Current reported rates of venereal infections are as low as any rates recorded over the past ten years.
8. The ratio of reported syphilis to reported gonorrhoea is taken to be expressive only of the current seeding of each venereal infection in the population and it is believed that these infections are not distributed in any fixed ratio.

B. *A Study Based on Reported Contact Information and the Related Investigations*

The punch-card analysis of 3,465 contact informations, received by the Division during the period July 1st to December 31st, 1947, and the related investigations permitted an appraisal of the following factors related to interviewing and investigation:

- i. *Volume of contact reporting*—ratio of previously unregistered cases to contact information received.
- ii. *Success in contact locating*—percentage of contacts located in relation to total contact informations received.
- iii. *Success in locating infections*—percentage of located contacts found infected in relation to total contact informations received.
- iv. *Success in locating unknown infections*—percentage of located contacts found infected and not under medical care when located in relation to total reported cases.

This analysis, made in respect of contacts of early syphilis, gave certain findings which can serve as a basis for current assessment of the effectiveness of epidemiologic procedures on a provincial or local basis. The findings respecting the appraisal referred to above are as follows:

- i. *Volume of contact reporting*—The ratio of reported, early syphilis to associated contact informations was 1:0.91 for male cases and 1:1.26 for female cases. The more favourable ratio respecting female cases was found to obtain for other classifications of syphilis and for gonorrhoea.
- ii. *Success in contact locating*—Approximately 70% of male contacts of female cases of early syphilis were located as compared with only 50% of female contacts of male cases of early syphilis. The more favourable percentage of male contacts, named by female cases, located was found to obtain for other classifications of syphilis and for gonorrhoea.
- iii. *Success in locating infections*—Almost 45% of all contact information given by female cases of early syphilis, led to the location of an infected male, whereas 35% of all contact information given by male cases of early syphilis led to the location of an infected female.

iv. *Success in locating unknown infections*—When contacts are located and found infected a certain number are found to be already under medical care for their infection. The measure of the effectiveness of combined epidemiologic procedures is the percentage of contacts located and found infected but not under medical care when located, in relation to the reported volume of early syphilis. For either sex, the analysis shows that about 40% of located, infected contacts were already under medical care when located. The other 60% constitute the located unknown infections which are found to be 13% of reported early syphilis. This latter percentage is the significant measure of effectiveness of all epidemiologic procedures combined and may be taken as a measure to appraise the efficiency of this phase of venereal disease control.

Some of the other fact-finding studies conducted by this Division during 1947 were as follows:

1. An appraisal of the reported results of pre-marital legislation enacted in the United States and Canada in so far as location of previously unknown syphilis is concerned.
2. A statistical study of the incidence of primary, secondary and early syphilis of less than two year's duration, by county and municipality, for the year 1947.
3. A statistical study of reported incidence of syphilis and gonorrhoea in municipalities of more than 10,000 population, by quarters for the year 1947.
4. A punch-card analysis of data respecting 1,000 consecutive cases of previously unreported venereal disease, covering the period April 1st to May 15th, 1947.
5. A study of physician case load of syphilis registered with this Division from 1940 to 1945 to enquire into the present status of cases and complete the Division's case-holding files.
6. A critical analysis of case interviewing and contact investigation in relation to clinic services, during the first quarter of 1947.
7. A statistical study of separation or loss from treatment of clinic patients in the various Ontario clinics during the first quarter of 1947 and for the year 1947.
8. In order to permit the compilation of rates by conjugal condition an estimation of the population of Ontario was made, by sex and conjugal condition as at December, 1946, on the basis of previous estimates supplied by the Dominion Bureau of Statistics.
9. An appraisal of knowledge among teen-agers respecting venereal diseases and the effect upon this knowledge of planned educational programmes.

The Division has supported, through the supply of therapeutic preparations and other aid, several clinical studies which are intended to evaluate newer forms of treatment and the relative value of various schedules of administration. These studies have been carried out through the co-operation of various clinics.



## E. ADMINISTRATION

### *Staff:*

During the year 1947 several changes have occurred among medical and nursing personnel in the Division. The resignation of Dr. A. A. Baker was accepted with regret and our best wishes are extended to him as he pursues his post-graduate studies. Two appointments were made toward the end of the year. Dr. C. E. Hookings and Dr. G. E. Large joined the staff and will devote the major portion of their time to the case control and epidemiologic phases of the Division programme.

The progress attained in participation of public health nurses in venereal disease control has permitted the gradual reduction of the nursing personnel of the Division. The previous needs for field work service by epidemiologists provided by the Division decreased to the extent that the needs in this field have become more advisory and consultative. Miss M. P. Stiver, P.H.N., supervisor of our nursing staff returned from post-graduate studies, having completed courses which have added the degree of Bachelor of Science to her qualifications. The Division now proposes to adjust its service in the nursing field to meet the changing needs but will maintain and expand the educational activities among post-graduate and under-graduate groups and will provide advice and demonstration in epidemiologic techniques as required by local health departments.

The statistical service provided within the Division by our public health statistician continued to be of the greatest importance to the programme. Current statistical analyses and records have been maintained and extended and many statistical studies have been undertaken. Some of these studies will be noted in an appropriate section of this report and although only brief reference can be made to their nature and scope, they have been of invaluable assistance in the clearing of many misconceptions and in the designing of more effective control procedures.

### *Clinics:*

There has been a general reduction in clinic attendances during the year, which reduction is accepted as being a reflection of reduced venereal disease incidence. This reduction occurred generally throughout the Province, with only one clinic showing a slight increase in total attendance. The total reduction amounts to approximately 20% and marks a reversal of the trend of the last few years toward increasing clinic activity.

TABLE 19  
 VENEREAL DISEASE CLINICS IN ONTARIO  
 Showing the Annual Number of Attendances by Clinics  
 1944 to 1947

Clinic	YEAR			
	1944	1945	1946	1947
Toronto East General Hospital.....	2,423	1,768	2,260	1,918
Toronto General Hospital.....	21,016	21,379	20,751	18,215
Toronto, Hospital for Sick Children...	1,325	1,324	1,569	1,736
Toronto, St. Michael's Hospital.....	17,322	21,033	21,911	17,924
Toronto, Western Hospital.....	14,690	14,559	18,937	15,452
Toronto, Women's College Hospital...	4,651	6,297	5,425	3,874
Brantford.....	1,353	1,635	1,849	1,206
Fort William.....	4,595	4,295	4,668	3,565
Hamilton.....	11,853	10,514	11,588	10,527
Kingston.....	2,949	2,655	2,587	1,533
Kitchener.....	1,810	1,818	1,714	1,311
London.....	5,234	6,069	5,635	5,263
Ottawa.....	11,643	11,987	16,403	13,603
Owen Sound.....	2,155	742	1,136	976
St. Catharines.....	2,857	2,377	4,204	3,755
Sault Ste. Marie*.....	5,819	5,264	3,884	1,573
Sudbury.....	8,514	10,573	9,035	9,528
Timmins.....	5,339	5,918	6,644	4,236
Windsor.....	14,091	12,815	14,081	8,968
Peterborough**.....	983	822	—	—
Total.....	140,622	143,844	154,281	125,163

\*Clinic closed on June 30, 1947.

\*\*Clinic closed on October 31, 1945.

Table 20 shows admissions by sex and disease for the years 1944 to 1947. New admission to clinics are less than in 1946 with a reduction of 33% among males and 18% among females.

TABLE 20  
 VENEREAL DISEASE CLINICS IN ONTARIO  
 Showing Annual New Admissions for Total Clinics by Sex and Disease  
 1944 to 1947

Year	SYPHILIS			GONORRHOEA			TOTAL VENEREAL DISEASE		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
1944.....	493	490	983	837	602	1,439	1,330	1,092	2,422
1945.....	981	683	1,664	1,455	900	2,355	2,436	1,583	4,019
1946.....	1,917	979	2,896	2,551	935	3,506	4,468	1,934	6,402
1947.....	1,103	818	1,921	1,912	770	2,682	3,015	1,588	4,603

Table 21 shows the new admissions by clinics for the years 1944 to 1947.

TABLE 21  
 VENEREAL DISEASE CLINICS IN ONTARIO  
 Showing Annual New Admissions by Clinics  
 1944 to 1947

Clinic	YEAR			
	1944	1945	1946	1947
Toronto East General Hospital.....	24	31	76	34
Toronto General Hospital.....	391	550	858	657
Toronto, Hospital for Sick Children...	33	29	19	23
Toronto, St. Michael's Hospital.....	442	772	828	776
Toronto Western Hospital.....	245	309	742	608
Toronto, Women's College Hospital...	146	199	229	164
Brantford.....	22	46	77	33
Fort William.....	89	117	234	165
Hamilton.....	103	217	518	371
Kingston.....	69	85	104	51
Kitchener.....	44	55	97	66
London.....	86	157	224	197
Ottawa.....	182	504	925	514
Owen Sound.....	23	34	54	28
St. Catharines.....	50	79	111	134
Sault Ste. Marie*.....	74	117	194	57
Sudbury.....	92	209	337	330
Timmins.....	83	124	276	155
Windsor.....	210	357	499	240
Peterborough**.....	14	28	—	—
Total.....	2,422	4,019	6,402	4,603

\*Clinic closed on June 30, 1947.

\*\*Clinic closed on October 31, 1945.

### Drug Distribution:

There has been a reduction of therapeutic preparations distributed and this reduced demand is again indicative of lowered requirement due to reduced incidence. There was an increased penicillin distribution as a result of the recognition of the increasing advantages of this form of therapy.

TABLE 22  
 MEDICATIONS DISTRIBUTED BY THE DEPARTMENT OF HEALTH  
 FOR ONTARIO  
 1946 and 1947

MEDICATION	AMOUNT DISTRIBUTED					
	Doses		Tablets		Vials	
	1946	1947	1946	1947	1946	1947
Intravenous Arsenical.....	196,777	155,287	.....	.....	.....	.....
Oral Arsenical.....	.....	.....	24,800	19,800	.....	.....
Intramuscular Arsenical...	2,435	1,566	.....	.....	.....	.....
Intramuscular Bismuth....	201,510	156,300	.....	.....	.....	.....
Sulphonamide.....	.....	.....	340,500	150,000	.....	.....
Penicillin (100,000 units)...	.....	.....	.....	.....	21,304	33,428
Penicillin—Oil—Wax.....	.....	736	.....	.....	.....	.....
Distilled Water.....	.....	.....	.....	.....	92,776	85,740

## F. EDUCATION

Public and professional education has been continued throughout the year and a summary of services in this phase of the Division programme is given in the following tables. The participation of secondary schools in the programme outlined by the Department of Education has expanded and a considerable quantity of visual aids have been utilized. A series of removable and interchangeable charts can now be supplied as a guide for classroom instruction and as a speaker's aid for public education.

A manual on venereal diseases has been produced by the Division as an aid for student nurse education. This is the first of a series of three manuals, the other two being intended for physicians and for public health personnel. The latter two manuals are now in the course of preparation and will be available for distribution early in the year 1948.

There is a need for new films for public education since several of the original films are now outdated by changes in methods of treatment and by the transition of the programme from a war-time to peace-time basis. Film strips are being prepared as visual aid for teaching projects and for public education.

TABLE 23

## VENEREAL DISEASE EDUCATION IN ONTARIO

Showing Educational Aids Distributed or Loaned

January to December, 1947

Educational Aids	Distributed or Loaned
FILMS (loans).....	409
DISPLAYS (loans).....	22
PLATFORM CHARTS (loans).....	12
POSTERS.....	203
LITERATURE.....	66,617
MISCELLANEOUS:	
Plan for Secondary School Instruction on the Subject of Venereal Diseases as Recommended by the Department of Health for Ontario.....	258
Public Health Education in Venereal Disease Control.....	682
Venereal Diseases Reviewed—A Manual on Venereal Diseases with Supple- ment for Nurses.....	1,420
Medical Reprints.....	3,517
Books (loans).....	30

TABLE 24  
 VENEREAL DISEASE EDUCATION IN ONTARIO  
 Showing Projections of Educational Films on Venereal Disease  
 January to December, 1947

Films	Projections
Very Dangerous .....	84
Fight Syphilis .....	77
Sixteen to Twenty-six .....	65
Know for Sure .....	53
With These Weapons .....	45
Health is a Victory .....	26
To the People of the U.S.A. ....	17
Message for Women .....	10
Three Counties Against Syphilis ..	6
Our Job to Know .....	2
Subject for Discussion .....	1
Total Projections .....	386
Average Audience Attendance .....	64

TABLE 25  
 VENEREAL DISEASE EDUCATION IN ONTARIO  
 Showing Professional Addresses and Lectures\*  
 January to December, 1947

Group	Lectures and Addresses	Average Audience Attendance
Medical Students .....	55	32
D. P. H. Students .....	30	15
Public Health Nurses .....	27	49
Medical Groups .....	4	9
Total .....	116	31

\*In conjunction with twenty-three of the above lectures and addresses the medical film "Syphilis" was shown.

The Bulletin of Venereal Disease Control, prepared for physicians, was published four times during the year, with the following leading articles being presented:

- (1) Nomenclature of Syphilis.
- (2) The Significance of a Positive Serologic Test in a Routine Examination.
- (3) Penicillin in Early Syphilis.
- (4) Communicability of Syphilis.

These Bulletins, in general, have had a good reception from the profession and they are intended to bring pertinent and practical information to the physician which may be of assistance to him in dealing with the many problems presented by patients who come under his diagnosis, treatment, or management. With the preparation of the manual for physicians, much of the information circulated by the Bulletin will be made available in a more permanent form for reference.

## MEDICAL STATISTICS BRANCH

A. H. SELLERS, B.A., M.D., D.P.H., *Director*

During 1947, attention continued to be focussed on the establishment of the activities of the Branch on a basic minimum peacetime footing. While work on cancer and mental hospital statistics continued to consume a substantial part of the time of staff, an increasing amount of attention was given to special studies in hospitalization, nursing personnel, industrial morbidity, etc. The statistical library of the Branch was initiated, a total of 88 annual reports being distinctively bound, including: Vital Statistics, Canada, 15; Vital Statistics, Ontario, 24; Public Hospitals, 25; and Ontario (Mental) Hospitals, 24.

The most important phases of the work undertaken by the Branch during the year are summarized briefly, *seriatim*, in the sections which follow.

## I. CANCER RECORDS REPORTS AND STATISTICS

The Branch continued to be responsible for the collection, tabulation, and analysis of cancer data recorded by the Ontario Cancer Centres and to supervise the printing and distribution of the cancer case history and examination forms and follow-up cards which are used in all seven Centres.

*Annual Reports of Cancer Centres*

As in previous years, a statistical summary, comprising twelve tables, was prepared for each Centre, covering all new patients admitted to each Centre during the year. Each Director was provided with a copy of the summary for his Centre, together with a copy of the consolidated report covering the work of all Centres combined.

In future it is planned that this Branch will prepare and supply to the Ontario Cancer Treatment and Research Foundation, for publication in the annual report, a Statistical Report on the work of the Ontario Cancer Centres. This Report will be based on data contained in the Annual Statistical Reports on Cancer published in the Annual Report of the Department.

*Recording and Reporting Procedures*

Visits were made to the seven Cancer Centres during the year for the purpose of discussing and resolving any record problems arising during the previous year. These visits likewise help to ensure the maximum degree of uniformity of the data recorded on the history forms and statistical cards, an important consideration in subsequent analyses of treatment experience and clinical research.

During 1947, further attention was given to proposed changes in the present cancer recording and reporting system. Consideration was given to the possibility of simplifying the clinical records and also the follow-up cards, keeping the basic needs of clinical research and the requirements for analysis of treatment experience clearly in mind. For statistical and for clinical research, com-

pleteness and specificity are essential. It was surprising to find in our studies of the latest printings of cancer record forms of certain important Cancer Centres that much of the detail formerly considered essential now has been abandoned and the details recorded limited to the *minimum* requirements.

In October, 1947, a conference was held with the Directors of the Ontario Cancer Centres for the purpose of reviewing the present position in respect of cancer records, and receiving and discussing any suggested changes either in the forms themselves or in the recording and reporting procedure or terminology. No final decisions were reached but the conference succeeded in bringing forward many useful suggestions and ended with a balance of opinion opposed to oversimplification of the present clinical record system. Indeed, it appeared that changes should, in the general view, be of a relatively modest character.

It was agreed that the problem of cancer records should be referred, for further consideration and recommendations, to the Committee on Cancer Centres of the Ontario Cancer Treatment and Research Foundation, the Chairman of the Committee to appoint a sub-committee for the purpose. Meanwhile, the system is to remain as at present through 1948.

#### *Cancer Morbidity Studies*

Work on both the Middlesex Cancer Survey and the Public Hospital Case Study was continued during the year. In the former study it was found necessary to repeat all tabulations made in 1939 and 1940 due to procurement of added information in many of the cases. The final data on the Middlesex Survey will be incorporated in a formal report for publication in 1948.

#### *The Annual Statistical Report on Cancer*

During 1947, the regular Eleventh Annual Statistical Report on Cancer was prepared. This report presented data on new cancer cases reaching the Clinics during 1946 and included supplementary tables illustrating trends in case volume and the current delay in seeking treatment. This Report was published in the Twenty-Second Annual Report of the Department for 1946. In accordance with usual practice, two hundred copies of this Report were reprinted for distribution to a selected list of authorities engaged in cancer control activities throughout the world.

During the year statistical data were prepared and made available for inclusion in the Annual Report of the Ontario Cancer Treatment and Research Foundation. This policy will be extended in future.

The Twelfth Annual Statistical Report on Cancer for the calendar year 1947, is presented on pages 184 to 222 inclusive, of this Report.

#### *Reporting of Cancer Cases*

In November, 1946, a plan was inaugurated for the voluntary reporting of cases of *cancer or suspected cancer* in the districts of Northern Ontario served by Cancer Diagnostic Centres located at Port Arthur and Fort William, Sudbury, and Timmins. This activity is carried on jointly by the Department of Health and the Ontario Cancer Treatment and Research Foundation. Under this plan, case reports are made by physicians to the appropriate Diagnostic Centre on a special notification form designed for the purpose.

Following receipt of the notification of a case, an appropriate cancer case history form is returned to the physician by the Diagnostic Centre. When the completed history is received, the Foundation pays the physician a fee of two dollars. Provision is also made under the plan for the payment of a follow-up fee of one dollar for each annual examination.

The objectives in cancer reporting include the procurement of accurate data on the incidence of cancer, and the facilitating of early and adequate treatment and follow-up. The data secured under this reporting plan, if successful, will serve to throw some light on the incidence of diagnosed cancer (as reported) and on the need for treatment facilities for cancer in Northern Ontario.

An analysis of the 195 case reports received during the period November 18, 1946, to May 23, 1947, was made and supplied to the Ontario Cancer Treatment and Research Foundation. An abstract of the highlights of the analysis was included in the Report of the Foundation for 1946.

During the period November, 1946, to December 31, 1947, a total of 388 cases of cancer or suspected cancer were reported. These cases were from the Districts of Cochrane, Kenora, Nipissing, Rainy River, Sudbury, Thunder Bay, and Timiskaming. Of all the *reported* cases during the period, over fifty per cent were from Thunder Bay, principally Fort William and Port Arthur.

A review of the recorded reporting experience during the first year is included in the Twelfth Annual Statistical Report on Cancer, on pages 216 to 222 of this Report.

The Director was appointed Ontario representative on a Committee under the Chairmanship of Mr. J. T. Marshall set up to consider the problem of cancer reporting and to draft a national form for the reporting of cancer. Work of this Committee will continue into 1948.

### *Cancer Case Follow-Up*

During the year, services of the Branch were again extended to the Directors of the seven Cancer Centres in the follow-up of patients after treatment. Arrangements were made for the checking of cancer deaths and for the conduct of cancer death searches, as requested. For this latter purpose a new cancer death search record card was introduced.

## II. ONTARIO MENTAL HOSPITAL STATISTICS

The Medical Statistics Branch continued to discharge its responsibility for the collection, tabulation, and analysis of mental hospital statistics during the year and to further develop its programme toward making the most effective use of all recorded data for administrative and medical purposes.

### *Monthly Statements and Special Reports*

Regular monthly statements of movement of patient population were prepared during the year. These statements set out the changes in case load for each hospital and serve as an administrative guide for the Hospitals Division. Periodic analyses of admissions, discharges and population trends were also carried out to meet special problems as they presented. Data for these purposes were secured either from the regular monthly reports submitted to this Branch or from the official Annual Reports of Ontario Hospitals.



*Annual Report of Ontario Hospitals*

During 1947, the Branch completed the preparation of the Seventy-ninth Annual Report of Ontario Hospitals for Mentally Ill, Mentally Defective, Epileptic and Habituate Patients, covering the fiscal year ending March 31, 1946. Responsibility for supervising the printing of this Report was also assumed by this Branch. Distribution of copies was made to a mailing list of two hundred and sixty-five individuals or agencies.

Work on the Eightieth Annual Report of Ontario Hospitals, covering the fiscal year ending March 31st, 1947, was almost completed during the year, including the addition of several new features and extension of the Annual Statistical Review.

The Annual Report of Ontario Hospitals is the only one of the three annual reports for which the Department is responsible, which is still compiled on a fiscal year basis. During 1947, the possibility of placing this Report on a calendar year basis having been canvassed, the decision was reached to convert the Report to a calendar year basis beginning with 1948. Such conversion will stabilize the reporting period, facilitate comparisons of Ontario data with those for other provinces and for Canada as a whole, eliminate certain special separate returns to the Dominion Bureau of Statistics which are required to be made on a calendar year basis and, most important of all, make possible the preparation, tabulation, and publication of Ontario Hospital statistics some nine months closer to the effective date of the figures than has ever been possible heretofore.

*Record Forms and Reporting Procedures*

Further work was done during the year toward revision of the statistical case cards which are completed in duplicate by Ontario Hospitals for each admission, re-admission, discharge, transfer, and death. It is anticipated that revision of the statistical cards will be finalized during 1948.

During 1947 the transfer to ledgers of all statistical data contained in the monthly statistical reports of Ontario Hospitals on Forms 182 for the years 1932 to 1947 inclusive was completed. This arrangement greatly facilitates the satisfaction of requests which are made for information on patient movement in individual hospitals or groups of hospitals for selected periods. It likewise renders unnecessary the retention in active files of all monthly reports except those for the current year.

Several conferences on mental hospital statistics were held with the competent federal authorities. These conferences were concerned particularly with revision of the statistical cards and the annual report tables prepared for the Institutional Statistics Branch of the Dominion Bureau of Statistics.

During the year the set of instructions for the clerical staff of Ontario Hospitals on the preparation of annual statistical report tables, first issued in 1938, was completely revised and expanded to include additional directions regarding the completion of the statistical cards. This material was issued as "An Interim Manual of Instruction on the Use of Statistical Cards and Annual Report Forms." It is intended to further revise this material during 1948 and to add to it more details regarding the statistical cards and sections dealing with the monthly returns on Forms 182 and 194, mental health clinic reports, and reports on community psychiatric activities.

### *Medical Records Committee Established*

During the year the need for a review of and reform in many of the existing recording procedures in Ontario Hospitals became increasingly apparent. At the Superintendents' Conference on April 18, 1947, it was suggested that it would be advantageous to set up a standing Departmental Committee for the purpose of studying the record problems which present in this field and of making recommendations for action.

Effect was given to this proposal in October by the setting up of a standing Departmental Committee on Medical Records and Related Matters, under the authority of the Deputy Minister. This Committee, with the Director as Chairman, held its initial and organizational meeting on October 28. At this meeting a number of pressing problems were discussed and plans were laid for a constructive course of action during 1948.

### *Mental Health Clinics*

Each Mental Health Clinic submits to this Branch a monthly report on current activities and case load, and an Annual Statistical Report. The latter, comprising eight standard statistical tables, provide the essential data for administrative medical purposes.

During 1947, the Branch prepared a consolidated summary concerning the work of the four Mental Health Clinics for the fiscal year ending March 31, 1947, for inclusion in the Eightieth Annual Report of Ontario Hospitals.

### *Consultant Psychiatrists*

During 1947, a simple recording plan was designed for use by consultant psychiatrists employed by the Department. This system provides for the use of a case card (5 x 8) and a statistical and indexing card (3 x 5). On July 1, 1947, an initial supply of these cards was placed in the hands of each consultant psychiatrist for a six-month trial period.

In addition to these records, a system of reports was also developed. These comprised a monthly summary of case load, examinations and treatments, and Annual Statistical Report comprising eight tables. This system was inaugurated on April 1, 1947. A statistical summary for the four centres, prepared by the Branch from the annual report tables submitted by the four consultant psychiatrists, will be included in the Eightieth Annual Report of Ontario Hospitals covering the fiscal year ending March 31, 1947.

### *Special Therapy Records*

The central file of shock therapy case record cards of patients receiving shock therapy was maintained up-to-date during the year, changes in status (discharge, death, etc.) being regularly entered thereon. A proposal was made for changes in these statistical cards at the next reprinting.

## III. PUBLIC HOSPITAL STATISTICS

During the year, further work was done toward bringing up-to-date the statistics on trends in hospitalization in order that they might be available for assessing the significance of current trends and in planning for the future. General statistics on case load, facilities and bed occupancy, as well as certain financial and morbidity data are being included in the scope of the work.

Discussions were held during the year with a view to the extension of available official data on hospitalization and the further development of official hospital morbidity statistics. Consideration was also given to the form and content of the annual reports of public hospitals.

The study of all patients with arthritis and rheumatism treated in public general hospitals and homes for incurables during 1944 was continued. The principal object of this study is to determine the extent to which arthritis and rheumatism contribute to the total hospital case load and record the essential facts regarding the distribution of the cases by age, sex, and place of residence. All statistical tables have been completed and a report on the finding of the study will be made during 1948.

#### IV. SPECIAL PROBLEMS

In addition to the routine activity and special work outlined in the preceding sections, a substantial amount of time was devoted to work in other fields of Departmental interest.

##### *Studies on Nursing Personnel in Ontario*

In collaboration with the Division of Nurses' Registration a study was made of some of the essential features of the current student nurse situation in all of the sixty-three Schools of Nursing in Ontario. Data were secured from each school by questionnaire, including figures for two preceding years. The co-operation of the schools of nursing was excellent and the response was complete. In collaboration with the Division of Nurses' Registration, a report covering the finding of the survey was prepared in September, 1947, under the title "Statistical Report on Student Nurse Enrolment, Schools of Nursing in Ontario."

##### *Analysis of Nurse Registration Examination Marks*

At the request of the Director, Division of Nurses' Registration, an analysis was made of the marks attained at the examinations for nurse registration conducted by the Department of Health of the Province of Ontario in November, 1946. The available data covered a group of 977 applicants from 65 training schools, all of whom were writing all examinations for the first time. For each School of Nursing the median mark attained and the range of marks was determined for each of the seven examinations written. In addition, the mean, the standard deviation of the distribution, and the standard error of the mean were also determined for each examination for each school with five candidates or more and for all schools combined. Completed tables were supplied to the Division of Nurses' Registration. Companion charts showing the median and range for each examination for each school with ten candidates or more (using a code number) were also drafted. A final joint Report covering the whole study will be released early in 1948.

##### *Industrial Morbidity Statistics*

Studies in the field of industrial morbidity statistics which were undertaken last year in collaboration with the Division of Industrial Hygiene, were continued during the year. In August, 1947, a sixteen-page report was published covering "An Analysis of the Lost Time due to Sickness and Injury" in a moderate-sized industrial plant during the three-year period 1942-1944. This study produced basic measures of morbidity which were of great interest, and served as a valuable testing ground for future analyses of industrial morbidity data.

Following completion of this report attention was directed in collaboration with the Division of Industrial Hygiene toward the designing of a plan for the recording, collection, tabulation and analysis of morbidity data which could be adapted for use in any industrial plant. It is expected that the whole plan will be finalized during 1948.

#### V. MISCELLANEOUS ACTIVITIES

During 1947, copies of the Branch report for 1946, including a review of the chief causes of death during 1945, were supplied to Medical Officers of Health. Copies were also used in the preparation of material for health teaching which is distributed by the Department to teachers and nurses.

Further study was given to the form and content of the Annual Report of the Medical Officer of Health with the object of effecting simplification and ensuring close adaptation to the requirements of the local health agency and the Department alike. A special Departmental Committee on Revision of the Annual Report of the Medical Officer of Health was set up by the Deputy Minister of Health. This Committee held five meetings during the year and made substantial progress in a critical review of the present report forms and the drafting of proposed revisions therein. It is expected that this Committee may complete its work and submit its report and recommendations during 1948.

Further assistance was rendered the Department of Clinical Preventive Medicine, University of Western Ontario, in connection with a study of trends in hospitalization in Western Ontario with specific reference to the increased use of hospital facilities in relation to hospital care insurance.

The Director attended a special conference of public health statisticians at Endicott, New York, July 7-11, 1947. This conference was organized jointly by the International Business Machines Company and the United States Public Health Service and took place in the International Business Machines Administrative School at Endicott, New York.

A review was made of the present position in respect of the preservation of hospital case records for extended indefinite periods. Consideration was given to the part which microfilming might play in resolving the record storage problem now faced by many public hospitals.

Assistance was afforded the Division of Nurses' Registration in the revision of the application and registration form to incorporate much needed occupational data. The new form is being introduced in 1948 and data from the records will become available in 1949.

In view of the growing interest in population structure, two tables were prepared presenting population data by age for the period 1881 to 1971. Two companion charts were also prepared for distribution on request.

Statistical data were prepared on request during the year on a wide variety of subjects including cancer, heart disease, infant mortality, maternal mortality, appendicitis, venereal disease and mental disorders.

A paper under the title "The Cancer Problem in Ontario" was presented by the Director at the Symposium on Cancer held at Sunnybrook Hospital on October 21-22, 1947. This paper reviewed the highlights of the problem as reflected by available mortality and morbidity data.

## THE CHIEF CAUSES OF DEATH IN ONTARIO DURING 1946

This section of the Report is devoted to a presentation of the highlights of recorded mortality experience in Ontario during 1946. The tables which are included were derived from the official tabulations of causes of death, by age and sex, prepared by the Vital Statistics Branch of the Dominion Bureau of Statistics. The list of causes of death follows the Fifth Revision of the International List of 1938 and the figures in the tables are comparable with those of the last six years. All tables refer to deaths among residents of the Province.

*The Crude Mortality Picture*

The crude death rate for 1946 was 9.69 per 100,000 population. Despite the increasing proportion of population at the older ages, this is the lowest recorded figure to date. For the year 1945 the rate was 9.86 per 100,000 population.

In Table I there is presented the twenty "chief causes"\* of death during 1946. The specific death rate per 100,000 population (all ages) and the percentage of all deaths attributed to each cause is also indicated.

TABLE I  
CHIEF CAUSES OF DEATH—ALL AGES  
ONTARIO, 1946

Rank	CAUSE OF DEATH	Int'l List Numbers	Number of Deaths	Specific* Death Rate	Per Cent of Total Deaths
1	Diseases of the heart.....	90-95	12,648	308.4	31.8
2	Cancer (all forms).....	45-55	5,414	132.0	13.6
3	Intracranial lesions of vascular origin.....	83	4,195	102.3	10.6
4	Accidental causes.....	169-195	2,641	64.4	6.6
5	Pneumonia and bronchitis.....	106-109	1,779	43.4	4.5
6	Nephritis.....	130-132	1,754	42.7	4.4
7	Prematurity.....	159	1,232	30.0	3.1
8	Tuberculosis (all forms).....	13-22	1,054	25.7	2.7
9	Diabetes mellitus.....	61	962	23.5	2.4
10	Diseases of the arteries.....	96-99	914	22.3	2.3
11	Congenital malformations.....	157	744	18.1	1.9
12	Injury at birth.....	160	422	10.3	1.1
13	Suicides.....	163, 164	414	10.1	1.0
14	Senility.....	162	326	7.9	0.8
15	Diseases of the prostate.....	137	300	7.3	0.8
16	Influenza.....	33	279	6.8	0.7
17	Diarrhoea, enteritis and dysentery.....	27, 119, 120	272	6.6	0.7
18	Hernia and intestinal obstruction.....	122	266	6.5	0.7
19	Ulcer of the stomach and duodenum.....	117	259	6.3	0.7
20	Leukaemia and aleukaemia†.....	74	185	4.5	0.5
TOTAL.....			36,060	8.79†	90.7
All Other Causes.....			3,698	0.90†	9.3
GRAND TOTAL.....			39,758	9.69†	100.0

\*Rates per 100,000 estimated population (4,101,000).

†Rates per 1,000 population.

‡Excluding Hodgkin's Disease.

\*"Chief Causes" has the force of "most frequent causes" without any other implication.

The twenty causes listed accounted for 36,060 deaths or 90.7 per cent of all deaths recorded during the year. The number of deaths attributed to "prematurity" increased by 252 or 25.7 per cent over the figure for 1945 and this cause assumed seventh position in the list of chief causes. Suicide, from which there were 307 deaths last year, contributed 414 deaths in 1946. Deaths from diarrhoea, enteritis, and dysentery declined still further and only 272 deaths were attributed thereto in 1946, compared with 320 in 1945 and 439 in 1944. Leukaemia and aleukaemia has replaced syphilis as the twentieth cause in the 1946 list.

*Diseases of the Heart, Arteries and Kidneys (C.V.R.)* together contributed 19,511 deaths or 49.1 per cent of all deaths recorded during the year. In Tables II and III it will be seen that most of these deaths occur among persons of 70 years of age or over.

*Cancer (all forms)* continued to contribute substantially to the death rate with a total of 5,414 recorded deaths or 13.6 per cent of the total deaths during 1946 attributed to these diseases. The specific cancer rate, 132 per 100,000 population, has remained unchanged since 1944.

*Accidental Causes* ranked fourth among the chief causes with 2,641 deaths or 6.6 per cent of the total deaths during the year. While the number of deaths attributed to accidental causes in 1946 was higher than in 1945, the increase was small (33).

*Tuberculosis* mortality, which had attained a new low point in 1945 with a rate of 25.3 per 100,000 population, showed a slight increase in 1946 with a rate of 25.7 per 100,000 population. This rate is still half of what it was in 1931 and almost 30 per cent below the rate for 1937. Three-fifths of the deaths from tuberculosis still fall at ages under 50 years (Table III).

It is essential that Table I be looked upon as presenting merely the *crude* mortality picture for the year. The public health significance of any cause in this table requires a more detailed examination of the individual diseases and conditions which are included in certain of the cause groups (e.g., accidental causes) and, in particular, a careful consideration of the age distribution of the deaths so classified.

#### *Causes of Death by Age*

In Table II there is shown a summary of the distribution by age of the twenty chief causes of death in the Province during 1946. The age groups included in this table were selected in order to reflect the mortality experience in age-bands which are of general interest.

Table III shows for each of the twenty principal causes of death included in Table I, the proportion of all deaths from each cause which had occurred by a given age. For instance, 0.2 per cent of the deaths from diseases of the heart occurred in children under 15 years of age, 20.0 per cent among persons under 50 years of age, etc.

TABLE II  
CHIEF CAUSES OF DEATH BY AGE GROUPS  
ONTARIO, 1946

Rank	CAUSE OF DEATH	Age Groups (years)								70 & over	N.S.	ALL AGES
		Under 1	1-4	5-14	15-19	20-49	50-59	60-69	60-69			
1	Diseases of the heart.....	—	6	13	16	905	1,590	2,896	7,215	7	12,648	
2	Cancer (all forms).....	4	17	26	15	726	1,011	1,508	2,106	—	5,414	
3	Intracranial lesions of vascular origin.....	3	5	6	2	178	437	915	2,638	—	4,195	
4	Accidental causes.....	108	166	193	118	723	227	277	820	9	2,641	
5	Pneumonia and bronchitis.....	375	102	22	8	143	137	221	770	1	1,779	
6	Nephritis.....	1	11	8	12	190	214	356	961	1	1,754	
7	Prematurity.....	1,232	—	—	—	—	—	—	—	—	1,232	
8	Tuberculosis (all forms).....	16	33	46	55	518	175	129	82	—	1,054	
9	Diabetes mellitus.....	1	2	5	4	68	152	315	415	—	962	
10	Diseases of the arteries.....	—	—	—	—	31	41	91	751	—	914	
11	Congenital malformations.....	654	52	18	4	12	3	—	1	—	744	
12	Injury at birth.....	422	—	—	—	—	—	—	—	—	422	
13	Suicides.....	—	—	4	7	215	91	54	41	2	414	
14	Senility.....	—	—	—	—	—	—	8	318	—	326	
15	Diseases of the prostate.....	—	—	—	—	—	8	51	241	—	300	
16	Influenza.....	53	17	10	3	23	17	24	132	—	279	
17	Diarrhoea, enteritis and dysentery.....	205	19	4	1	12	6	8	17	—	272	
18	Hernia and intestinal obstruction.....	—	5	3	2	40	33	64	119	—	266	
19	Ulcer of the stomach and duodenum.....	—	—	—	—	40	61	70	86	—	259	
20	Leukaemia and aleukaemia*.....	1	22	14	8	40	22	51	27	—	185	
TOTAL.....		3,075	457	372	257	3,874	4,225	7,038	16,740	22	36,060	
All Other Causes.....		578	179	157	80	829	453	580	842	—	3,698	
GRAND TOTAL.....		3,653	636	529	337	4,703	4,678	7,618	17,582	22	39,758 <sup>y</sup>	

\*Excluding Hodgkin's Disease

TABLE III  
 PERCENTAGE OF DEATHS OCCURRING BY A GIVEN AGE  
 ONTARIO, 1946

Rank	CAUSE OF DEATH	Percentage of Deaths at Ages Under							TOTAL NUMBER OF DEATHS
		1	5	15	20	50	60	70	
1	Diseases of the heart.....	0	0.1	0.2	0.3	7.4	20.0	42.9	12,648
2	Cancer (all forms).....	0.1	0.4	0.9	1.1	14.6	33.2	61.1	5,414
3	Intracranial lesions of vascular origin.....	0.1	0.2	0.3	0.4	4.9	15.3	37.1	4,195
4	Accidental causes.....	4.1	10.4	17.7	22.2	49.5	58.1	68.6	2,641
5	Pneumonia and bronchitis.....	21.1	26.8	28.0	28.5	36.5	44.2	56.7	1,779
6	Nephritis.....	0.1	0.7	1.1	1.8	12.7	24.9	45.1	1,754
7	Prematurity.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1,232
8	Tuberculosis (all forms).....	1.5	4.6	9.0	14.2	63.4	80.0	92.2	1,054
9	Diabetes mellitus.....	0.1	0.3	0.8	1.2	8.3	24.1	56.9	962
10	Disease of the arteries.....	0	0	0	0	3.4	7.9	17.8	914
11	Congenital malformations.....	87.9	94.9	97.3	97.8	99.5	99.9	99.9	744
12	Injury at birth.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	422
13	Suicides.....	0	0	1.0	2.7	54.6	76.6	89.6	414
14	Semility.....	0	0	0	0	0	0	2.5	326
15	Diseases of the prostate.....	0	0	0	0	0	2.7	19.7	300
16	Influenza.....	19.0	25.1	28.7	29.7	38.0	44.1	52.7	279
17	Diarrhoea, enteritis and dysentery.....	75.4	82.4	83.8	84.2	88.6	90.8	93.8	272
18	Hernia and intestinal obstruction.....	0	1.9	3.0	3.8	18.8	31.2	55.3	266
19	Ulcer of the stomach and duodenum.....	0	0	0	0.8	16.2	39.8	66.8	259
20	Leukaemia and aleukaemia*.....	0.5	12.4	20.0	24.3	45.9	57.8	85.4	185
	TOTAL.....	8.5	9.8	10.8	11.5	22.3	34.0	53.5	36,080
	All Other Causes.....	15.6	20.5	24.7	26.9	49.3	61.5	77.2	3,678
	GRAND TOTAL.....	9.2	10.8	12.1	13.0	24.8	36.6	53.2	39,758

\*Excluding Hodgkin's Disease.



*Chief Causes of Death in Selected Age-Groups*

In Table IV and V are presented the eight leading causes of death in each of eight age-groups—infancy, 1-4 years, 5-14 years, 15-19 years, 20-49 years, 50-59 years, 60-69 years and 70 years and over. In these tables attention is focussed on those individual causes or groups of causes which are important in each of the age-bands. For each age group, the actual number of recorded deaths attributed to each cause, and the percentage of all deaths contributed to the total by each cause, are shown.

*Infancy*—Table IV shows the eight chief causes of death for 1946 during the first year of life. In this table are given the number of deaths for each cause together with the percentage of all infant deaths which are attributed to each cause and the infant mortality rate per 1,000 live births for 1946 and 1945.

TABLE IV  
CHIEF CAUSES OF DEATH DURING INFANCY\*  
ONTARIO, 1946

Rank	CAUSE OF DEATH	Deaths in Age Group	Per Cent of Deaths in Age Groups due to Specified Cause	Specific Death Rate per 100,000 Live Births	
				1946	1945
1	Prematurity . . . . .	1,232	33.7	1,264	1,241
2	Congenital malformations . . . . .	654	17.9	671	767
3	Injury at birth . . . . .	422	11.5	433	480
4	Pneumonia and bronchitis . . . . .	375	10.3	385	412
5	Other diseases peculiar to early infancy	252	6.9	259	306
6	Diarrhoea, enteritis and dysentery . . . . .	205	5.6	210	276
7	Accidental causes . . . . .	108	3.0	111	133
8	Congenital debility . . . . .	70	1.9	72	89
	Other causes . . . . .	335	9.2	344	360
	TOTAL . . . . .	3,653	100.0	3,749	4,064

\*First year of life.

During the year 1946 a total of 3,653 resident infant deaths occurred. This is a rate of 37.5 per 1,000 live births compared with 40.6 per 1,000 live births in 1945. *This is an all-time low in the history of this Province.*

Prematurity and congenital malformations were the two leading causes of death in this age-band. Prematurity contributed 1,232 deaths or 33.7 per cent of all deaths under one year of age. These figures compare with 980 deaths or 30.5 per cent of the total attributed to this cause in 1945. In congenital malformations there was but a slight increase in the number of deaths—654 in 1946 and 606 in 1945, but a decrease in the percentage of total recorded deaths—17.9 in 1946 and 18.9 in 1945. This situation arises out of the increase in the absolute number of births and deaths during 1946.

Injury at birth, which was in fourth position in 1945, contributing 325 deaths or 10.1 per cent of the total, assumed third position in 1946 with 422 deaths or 11.5 per cent of the total deaths recorded for infants under one year of age. The number of deaths attributed to the other five causes remained much the same as for the previous year. With the single exception of "prematurity" there was a recorded reduction in mortality from all causes of death among infants.

Data on the eight chief causes of death at ages one year and over are presented in Table V. For each age group, the actual number of recorded deaths attributed to each cause, and the percentage of all deaths contributed by each cause, are shown.

TABLE V  
CHIEF CAUSES OF DEATH AFTER INFANCY  
ONTARIO, 1946

Rank	CAUSE OF DEATH	Deaths in Age Groups	Per Cent of Deaths in Age Groups due to Specified Cause
<b>Ages—1-4 years:</b>			
1	Accidental causes.....	166	26.1
2	Pneumonia and bronchitis.....	102	16.0
3	Congenital malformations.....	52	8.2
4	Tuberculosis (all forms).....	33	5.2
5	Measles.....	28	4.4
6	Leukaemia and aleukaemia.....	22	3.5
7	Diarrhoea, enteritis and dysentery.....	19	3.0
8	Influenza.....	17	2.7
	Other causes.....	197	30.9
	<b>TOTAL.....</b>	<b>636</b>	<b>100.0</b>
<b>Ages—5-14 years:</b>			
1	Accidental causes.....	193	36.5
2	Tuberculosis (all forms).....	46	8.7
3	Cancer (all forms).....	26	4.9
4	Pneumonia and bronchitis.....	22	4.1
5	Congenital malformations.....	18	3.4
6	Leukaemia and aleukaemia.....	14	2.6
7	Diseases of the heart.....	13	2.5
8	Appendicitis.....	13	2.5
	Other causes.....	184	34.8
	<b>TOTAL.....</b>	<b>529</b>	<b>100.0</b>
<b>Ages—15-19 years:</b>			
1	Accidental causes.....	118	35.0
2	Tuberculosis (all forms).....	55	16.3
3	Diseases of the heart.....	16	4.7
4	Cancer (all forms).....	15	4.4
5	Nephritis.....	12	3.6
6	Pneumonia and bronchitis.....	8	2.4
7	Leukaemia and aleukaemia.....	8	2.4
8	Appendicitis.....	8	2.4
	Other causes.....	97	28.8
	<b>TOTAL.....</b>	<b>337</b>	<b>100.0</b>

TABLE V (Continued)  
CHIEF CAUSES OF DEATH AFTER INFANCY  
ONTARIO, 1946

Rank	CAUSE OF DEATH	Deaths in Age Groups	Per Cent of Deaths in Age Groups due to Specified Cause
<b>Ages—20-49 years:</b>			
1	Diseases of the heart.....	905	19.2
2	Cancer (all forms).....	726	15.4
3	Accidental causes.....	723	15.4
4	Tuberculosis (all forms).....	518	11.0
5	Suicides.....	215	4.6
6	Nephritis.....	190	4.0
7	Intracranial lesions of vascular origin.....	188	4.0
8	Puerperal state.....	153	3.3
	Other causes.....	1,085	23.1
	<b>TOTAL.....</b>	<b>4,703</b>	<b>100.0</b>
<b>Ages—50-59 years:</b>			
1	Diseases of the heart.....	1,590	34.0
2	Cancer (all forms).....	1,011	21.6
3	Intracranial lesions of vascular origin.....	437	9.3
4	Accidental causes.....	227	4.9
5	Nephritis.....	214	4.6
6	Tuberculosis (all forms).....	175	3.7
7	Diabetes mellitus.....	152	3.2
8	Pneumonia and bronchitis.....	143	3.1
	Other causes.....	729	15.6
	<b>TOTAL.....</b>	<b>4,678</b>	<b>100.0</b>
<b>Ages—60-69 years:</b>			
1	Diseases of the heart.....	2,896	38.0
2	Cancer (all forms).....	1,508	19.8
3	Intracranial lesions of vascular origin.....	915	12.0
4	Nephritis.....	356	4.7
5	Diabetes mellitus.....	315	4.1
6	Accidental causes.....	277	3.6
7	Pneumonia and bronchitis.....	221	2.9
8	Tuberculosis (all forms).....	129	1.7
	Other causes.....	1,001	13.1
	<b>TOTAL.....</b>	<b>7,618</b>	<b>100.0</b>
<b>Ages—70 years and over:</b>			
1	Diseases of the heart.....	7,215	41.0
2	Intracranial lesions of vascular origin.....	2,638	15.0
3	Cancer (all forms).....	2,106	12.0
4	Nephritis.....	961	5.4
5	Accidental causes.....	820	4.7
6	Pneumonia and bronchitis.....	770	4.4
7	Diseases of the arteries.....	751	4.3
8	Diabetes mellitus.....	415	2.4
	Other causes.....	1,906	10.8
	<b>TOTAL.....</b>	<b>17,582</b>	<b>100.0</b>

*Pre-School Ages*—At these ages, 1-4 years, accidental causes continued to rank first in importance, contributing 166 deaths or 26.1 per cent of the total recorded deaths for this group. Pneumonia and bronchitis remained in second

position with 102 deaths or 16.0 per cent of the total. Together, these two causes were responsible for over two-fifths of the deaths among children of pre-school age. The percentage of deaths attributed to tuberculosis amounted to 8.2 per cent in 1946 compared with 5.4 per cent in 1945, while the mortality from measles (which did not appear among the eight causes for 1945) amounted to 28 deaths or 4.4 per cent of the total deaths recorded for this age-group. Leukaemia and aleukaemia accounted for 22 deaths.

*School Ages*—In the school-age period, 5-14 years, accidental causes was by far the most important group, there being 193 deaths or 36.5 per cent of the 529 deaths recorded for this age group. This is a better record than in 1945 when there were 224 accidental deaths. Tuberculosis contributed 46 deaths, cancer 26 deaths, pneumonia and bronchitis 22 deaths, congenital malformations 18 deaths and leukaemia and aleukaemia 14 deaths.

*Adolescence*—At ages 15-19 years, accidental causes still rank first. In 1946, a total of 118 deaths or 35.0 per cent of all deaths in this age group were attributed to accidental causes. Tuberculosis ranked second with 55 deaths. Together these two causes accounted for 51.3 per cent of all deaths at ages 15-19 years. The total number of deaths from all causes for this group showed a significant decrease from 391 in 1945 to 337 in 1946.

*Ages 20-49 years*—It is significant that diseases of the heart and cancer remain the two leading causes of death for this age group, contributing 1,631 deaths or 34.6 per cent of the total of 4,703 deaths recorded for this age-group. Accidental causes were responsible for 723 deaths or 15.4 per cent of the total. The number of deaths due to tuberculosis increased slightly from 501 deaths or 10.5 per cent of the total in 1945 to 518 deaths or 11.0 per cent of the total in 1946. Of all deaths attributed to tuberculosis during the year, 50 per cent were in this age-group (Table III).

*Ages 50 Years and Over*—Among persons of 50-69 years of age, diseases of the heart, arteries and kidneys are the leading causes of death with cancer in second position. At these ages one death in every five in 1946 was attributed to cancer. Accidental causes, diabetes mellitus, pneumonia and bronchitis and tuberculosis follow in that order. At ages 70 and over, 61.5 per cent of all deaths were classified as due to C.V.R. disease, followed in importance by cancer, accidents, pneumonia and bronchitis, and diabetes mellitus.

#### *New Records Established in 1946*

The vital records of Ontario for 1946 indicate further gains of significance for the public health. These include the following:

- (a) A new low in the crude death rate—9.69 per 1,000 population.
- (b) A new low in the maternal mortality rate—1.6 per 1,000 live births.
- (c) A new low in the infant mortality rate—37.5 per 1,000 live births.

This resume of the recorded mortality experience in Ontario during 1946 is designed merely to provide a few highlights. The observations made can be supplemented by perusal of the data included in the statistical tables, or by reference to the original data contained in the Report of Births, Marriages and Deaths for Ontario for 1946.

THE TWELFTH ANNUAL STATISTICAL REPORT ON CANCER  
CALENDAR YEAR—1947

Prepared by the Medical Statistics Branch  
A. H. SELLERS, B.A., M.D., D.P.H., Director

This Report, The Twelfth Annual Statistical Report on Cancer in Ontario, includes a brief review of important developments during the year, a discussion of the highlights presented by the recorded cancer mortality data and a statistical summary of the work of the Ontario Cancer Centres during the calendar year 1947.

Last year a beginning was made toward extending the scope of the section of the Report devoted to the Ontario Cancer Centres by the inclusion of some information on duration of symptoms and delay in treatment. More data of this nature has been added this year. In future, considerably more information will be produced and increasingly effective use made of the great wealth of statistical data on some 25,000 cases of cancer which have been accumulated in the seven Cancer Centres.

SECTION I—CANCER MORBIDITY STUDIES

Still the greatest need in the field of cancer control is a reasonably accurate estimate of the incidence or prevalence of cancer in any community. Mortality data, however accurate, can never meet this need. The morbidity studies which were initiated in 1938 and 1939 (see earlier Reports) were deferred indefinitely in 1940. This work was revived during 1946 but as yet has not been finalized. When completed these reports will afford useful information on the incidence and prevalence of cancer which is not yet available in Ontario.

The trial plan for the reporting of cancer or suspected cancer which was initiated on a voluntary basis in certain of the Districts of Northern Ontario in October, 1946, is still in operation. A review of the reporting experience during the first year is presented in Section IV of this Report on pages 216 to 222. There are indications that this plan will provide valuable information on the incidence of known or diagnosed cancer and will afford a measure of the extent to which facilities for diagnosis, treatment and hospitalization are required.

SECTION II—CANCER MORTALITY IN ONTARIO

Emphasis continues to be placed on the leading position occupied by cancer among the causes of death. In Table A, the recorded volume of deaths attributed to cancer in Ontario during the past twenty years is presented. The relationship between total deaths from all causes and cancer deaths is also indicated.

TABLE A  
RECORDED CANCER MORTALITY  
ONTARIO, 1927-1946

YEAR	Total Deaths, All Causes	Cancer Deaths	Per Cent of Total Deaths	Crude* Death Rate	Adjusted† Death Rate
1927.....	34,775	3,117	9.1	99	117
1928.....	37,128	3,441	9.3	105	123
1929.....	38,123	3,402	8.9	102	119
1930.....	37,313	3,635	9.7	109	124
1931.....	35,705	3,726	10.4	109	125
1932.....	36,436	3,825	10.5	110	125
1933.....	35,301	4,044	11.5	115	128
1934.....	35,105	4,034	11.5	114	125
1935.....	36,317	4,214	11.6	118	129
1936.....	37,571	4,441	11.3	123	134
1937.....	38,475	4,547	11.8	125	133
1938.....	36,890	4,472	12.1	122	127
1939.....	37,530	4,567	12.2	123	127
1940.....	38,503	4,847	12.6	129	131
1941.....	39,226	4,931	12.6	130	130
1942.....	39,119	5,005	12.8	129	129
1943.....	41,063	5,193	12.6	133	132
1944.....	39,781	5,236	13.2	131	129
1945.....	39,499	5,294	13.4	132	129
1946.....	39,758	5,414	13.6	132	128

\*Rate per 100,000 estimated population, all ages.

†Adjusted rate per 100,000 population adjusted for age and sex based on the population of Ontario, 1941 census.

The absolute number of recorded cancer deaths has increased by 74 per cent since 1927. The proportion of all deaths attributed to cancer has risen from 9.1 in 1927 to 13.6 in 1946. The crude cancer death rate has risen from 99 deaths per 100,000 population in 1927 to 132 per 100,000 in 1945. There has been little change in the crude death rate during the past seven years.

It is important that the limitations of these crude data as an index of the trend in cancer mortality should be realized. The recorded increases in the volume of cancer deaths and in the crude cancer death rate do not necessarily reflect a true increase in the incidence, prevalence or mortality from cancer. In fact, correction for changes in the age distribution of the population by sex, alone eliminates a large part of the observed increase. This fact is illustrated by the adjusted cancer death rate given in the last column of Table A. Much of the increase which remains may be accounted for by improvement in the quality of medical certification and the increasing attention given to this disease.

#### *Site of Disease*

Significant sex variations in "organ incidence" exist in cancer mortality. An appreciation of these variations is important in interpreting the problem and in assessing the degree of control which can be exercised with available methods and facilities.

Table B presents the distribution of cancer deaths by site and sex for the five-year period 1942-1946.

TABLE B  
CANCER DEATHS BY SEX AND SITE OF DISEASE  
ONTARIO, 1942-1946

SITE OF DISEASE	Males		Females		Both Sexes	
	No. of Deaths	Per Cent of Total	No. of Deaths	Per Cent of Total	No. of Deaths	Per Cent of Total
Stomach and duodenum.....	2,699	21.4	1,554	11.5	4,253	16.3
Other digestive tract.....	4,159	33.0	4,194	31.0	8,353	32.0
Genital organs.....	1,467	11.6	2,775	20.5	4,242	16.2
Breast.....	32	0.3	2,771	20.5	2,803	10.7
Buccal cavity and pharynx.....	679	5.4	179	1.3	858	3.3
Urinary organs.....	965	7.6	522	3.9	1,487	5.7
Respiratory organs.....	1,249	9.9	430	3.2	1,679	6.4
Skin.....	267	2.1	133	1.0	400	1.5
Other and unspecified sites.....	1,105	8.7	962	7.1	2,067	7.9
TOTAL.....	12,622	100.0	13,520	100.0	26,142	100.0

Of the 26,142 deaths from cancer during the five-year period, 12,606 deaths or 48.3 per cent were classified cancer of the digestive tract (including oesophagus, stomach and duodenum, intestines, rectum, liver and pancreas, etc.). The principal single site of importance among men is stomach and duodenum which accounted for 2,699 deaths or 21.4 per cent of the total male cancer deaths during the period. Cancer of the breast is the individual leading site of importance among women with 2,771 deaths or 20.5 per cent of the total female deaths attributed to cancer. The ratios of male to female mortality show striking differences. Deaths from cancer of the stomach and duodenum, buccal cavity, urinary organs, respiratory system and skin are more common among males than among females.

Cancer cases which are particularly amenable to treatment, including cancer of the genital organs, breast, buccal cavity and skin, comprised 31.7 per cent of all cancer deaths in 1945. Among women, this group contributed 43.3 per cent of all female cancer deaths during this period.

TABLE C  
CANCER AS A CAUSE OF DEATH BY AGE  
ONTARIO, 1946

AGE GROUP	Number of Cancer Deaths	Per Cent of All Deaths	Rank as a Cause of Death	Specific* Death Rate	Per Cent of All Deaths from Cancer
0-19.....	62	1.2	.....	5	1.1
20-49.....	726	15.4	Second	40	13.4
50-59.....	1,011	21.6	Second	234	18.7
60-69.....	1,508	19.8	Second	501	27.9
70 and over.....	2,107	12.0	Third	1,013	38.9
TOTAL.....	5,414	13.6†	Second	132	100.0

\*Per 100,000 estimated population at ages.

†Total deaths in 1946 were 39,758.

*Cancer as a Cause of Death at Selected Ages*

The recorded mortality from cancer during 1946 in selected age groups is given in Table C.

During the year, 5,414 deaths or 13.6 per cent of the total of 39,758 deaths were attributed to cancer. This disease ranked second as a cause of death in the age groups 20-49, 50-59 and 60-69 years, being exceeded only by deaths from heart disease. At ages 50-69 years, one death in every five was attributed to cancer. Persons 50 years of age or over accounted for 85.5 per cent of all cancer deaths.

*Sex Differences in Cancer Mortality, at Ages*

In Table D is presented the recorded cancer mortality by age and sex over the five-year period 1942-1946. There are significant differences between the two sexes in the force of cancer mortality throughout life. These differences are indicated in the table.

TABLE D  
CANCER MORTALITY BY AGE AND SEX  
ONTARIO, 1942-1946

AGE	Males				Females			
	Annual Deaths	Per Cent of All Deaths	Per Cent of Cancer Deaths	Annual* Rate	Annual Deaths	Per Cent of All Deaths	Per Cent of Cancer Deaths	Annual* Rate
Under 30.....	52	1.5	2.1	5.2	47	1.8	1.7	4.8
30-39.....	59	7.9	2.3	19.6	113	17.6	4.2	38.7
40-49.....	175	12.4	6.9	67.6	317	30.5	11.7	129.4
50-59.....	435	15.3	17.2	202.8	542	28.4	20.1	265.5
60-69.....	740	16.7	29.3	514.6	700	21.8	25.9	489.4
70 and over..	1,064	12.1	42.2	1,144.1	985	11.2	36.4	936.5
TOTAL.....	2,525	11.6	100.0	125.7	2,704	14.9	100.0	197.9

\*Per 100,000 population at ages.

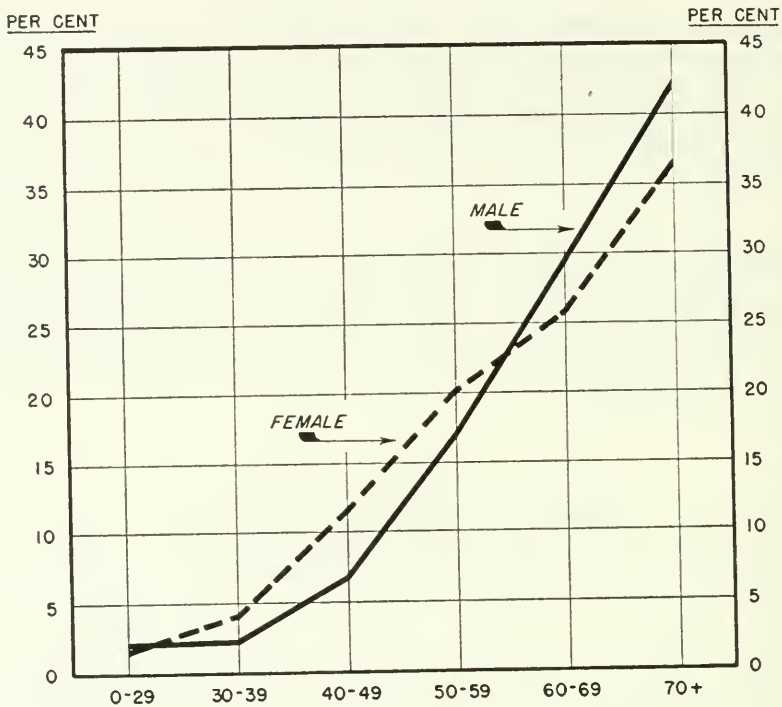
The percentage distribution of cancer deaths by age for each sex during the five-year period 1942-1946 is illustrated by Figure I.

There is little difference between the sexes in the cancer mortality rate at ages up to 30 years. At ages 30-49 years, the cancer death rate among females is almost twice that among males. A sharp female excess persists up to age 60, there is little difference in the age-group 60-69 years, at ages 70 and over there is a sharp male excess.

Cancer is the leading cause of death among women in the age-group 30-59 years. At ages 30-39, 17.6 per cent of all deaths are attributed to cancer; at ages 40-49 years, 30.5 per cent; and at 50-59 years, 28.4 per cent.



FIGURE I  
AGE DISTRIBUTION OF CANCER DEATHS  
ONTARIO - 1942 TO 1946



*Deaths from Cancer of the Accessible Sites at Ages Under 70 Years*

In Table E there is shown the number and proportion of deaths attributed to cancer of the so-called "accessible" sites at ages under 70 years in Ontario during 1946.

TABLE E  
"ACCESSIBLE" CANCER MORTALITY AT AGES UNDER 70 YEARS  
ONTARIO, 1942-1946

SITE OF DISEASE	Males		Females	
	No. of Deaths	Per Cent	No. of Deaths	Per Cent
Oral Cavity.....	310	4.3	98	1.2
Breast.....	14	0.2	1,961	22.8
Uterus.....	-	0	1,513	17.6
Skin.....	82	1.1	44	0.5
TOTAL.....	406	5.6	3,616	42.1
Other Sites.....	6,897	94.4	4,977	57.9
GRAND TOTAL.....	7,303	100.0	8,593	100.0

Of the total of 15,896 deaths of persons under 70 years of age which were attributed to cancer over the five-year period 1942-1946, 4,022 deaths or 25 per cent were cancer of the accessible sites—breast, uterus, oral cavity and skin, and of these 4,022 cancer deaths, 90 per cent were among women.

The data in Table E show that of the 7,303 recorded deaths among males under the age of 70 years during the period 1942-1946, only 406 deaths or 5.6 per cent were due to cancer of the specified sites. In contrast, of the 8,593 recorded cancer deaths among women at ages under 70 years, 3,616 deaths or 42.1 per cent were in the "accessible" group—breast contributing 22.8 per cent and uterus 17.6 per cent.

#### Site Differences in Cancer Mortality at Ages

Cancer mortality during 1946 by age and site of disease, is presented in Table F.

TABLE F  
CANCER MORTALITY BY AGE AND SITE OF DISEASE  
ONTARIO, 1946

SITE OF DISEASE	<30	30-39	40-49	50-59	60-69	70+	Total
	Number of Deaths						
Stomach and duodenum.....	4	12	50	132	260	380	838
Other digestive tract.....	17	45	123	290	484	780	1,739
Genital organs*.....	9	19	32	67	128	248	503
Uterus.....	11	28	72	96	96	89	392
Breast.....	—	35	78	133	155	178	579
Buccal cavity and pharynx.....	3	1	6	27	45	91	173
Urinary organs.....	9	5	16	55	96	111	292
Respiratory organs.....	4	12	54	112	128	69	379
Skin.....	2	3	1	5	12	61	84
Other or unspecified sites.....	51	30	56	94	104	100	435
TOTAL.....	110	190	488	1,011	1,508	2,107	5,414
SITE OF DISEASE	Specific Rate per 100,000 Population						Total
	<30	30-39	40-49	50-59	60-69	70+	
Stomach and duodenum.....	0.2	1.9	9.6	30.6	86.4	182.6	20.4
Other digestive tract.....	0.8	7.3	23.7	67.2	160.9	374.8	42.4
Genital organs*.....	0.4	3.1	6.2	15.5	42.6	119.2	12.3
Uterus.....	0.5	4.5	13.9	22.2	31.9	42.8	9.6
Breast.....	0	5.7	15.0	30.8	51.5	85.5	14.1
Buccal cavity and pharynx.....	0.1	0.2	1.2	6.3	15.0	43.7	4.2
Urinary organs.....	0.4	0.8	3.1	12.7	31.9	53.3	7.1
Respiratory organs.....	0.2	1.9	10.4	25.9	42.6	33.2	9.2
Skin.....	0.1	0.5	0.2	1.2	4.0	29.3	2.0
Other or unspecified sites.....	2.5	4.9	10.8	21.8	34.6	48.1	10.6
TOTAL.....	5.4	30.8	93.9	234.2	501.3	1,012.5	132.0

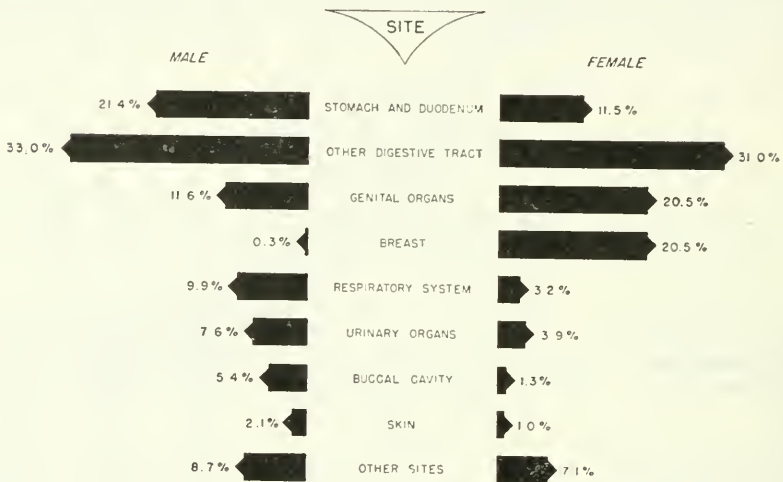
\*Excluding uterus.

Cancer of the stomach and duodenum is the principal single site of importance in each age-group. This site contributed 838 of the total of 5,414 deaths, a rate of 20.4 per 100,000 population. A total of 1,739 deaths, 42.4 per 100,000 popula-

tion, were attributed to other cancer of the digestive tract (including oesophagus, intestines, rectum, liver pancreas, etc.). The next individual site of leading importance is breast, contributing 579 deaths or 14.1 per 100,000 population. Cancer of the uterus contributed 392 deaths or 9.6 per 100,000 population.

The essential features of the distribution of cancer deaths by site for each sex, during the five-year period 1942-1946 are illustrated by Figure II.

FIGURE II  
SITE DISTRIBUTION OF CANCER DEATHS  
MORTALITY EXPERIENCE — ONTARIO, 1942 TO 1946



Cancer of the digestive system is the leading site of cancer in both men and women. Cancer of the breast and uterus are the principal individual sites among women and cancer of the stomach among men. Among women cancer of the accessible sites (genital organs, breast, buccal cavity, and skin) contribute 43.3 per cent of all deaths.

### SECTION III—THE WORK OF THE ONTARIO CANCER CENTRES DURING 1947

In the following section there is presented an analysis of the work of the seven Ontario Cancer Centres during the calendar year 1947. The tabulations throughout were made by the Medical Statistics Branch from data recorded on the individual "follow-up" cards for all new cases admitted to the Ontario Cancer Centres during the year 1947. This year, as in 1946, in addition to the usual tables by age, sex, site of disease and method of treatment, supplementary tables dealing with special features not regularly reported upon have been added.

The volume of new cases on record and new cases treated in each of the seven Centres during 1947 is shown in Table 1.

TABLE 1  
NEW CASES ADMITTED—BY CENTRE

CENTRE	Cancer Cases						Non-Cancer Cases†	Total New Patients Treated
	On Record			Treated*				
	Private	Public	Total	Private	Public	Total		
Hamilton....	459	77	536	456	75	531	677	1,208
Kingston....	291	78	369	261	71	332	604	936
London....	361	109	470	360	106	466	895	1,361
Ottawa (C)..	326	67	393	307	65	372	315	687
Ottawa (G)..	189	39	228	145	20	165	315	480
Toronto....	429	794	1,223	401	748	1,149	738	1,887
Windsor....	262	56	318	227	50	277	264	541
TOTAL....	2,317	1,220	3,537	2,157	1,135	3,292	3,808	7,100

\*Treated by any method or combination. Includes cases treated by surgery alone, but excludes palliative surgery.

†Non-malignant tumours and non-neoplastic diseases.

During the year there were recorded 3,537 cases of cancer.\* This is 35 cases less than were recorded in 1946. Of the 3,537 cases admitted, 3,292 cases or 93.1 per cent received treatment; the remainder (245) were not treated for one reason or another. In addition, 3,808 patients were treated for benign tumours and non-neoplastic diseases. A total of 7,100 patients were *treated* in the seven Centres, an increase of 189 patients over the previous year.

The number of patients designated as private exceeded the number of public patients in the ratio of 2 to 1. The variations in this ratio from one Centre to another may be accounted for in large measure by differences in the definition of the term "public".

In Table 2 there is given the distribution of the 3,537 new cases, by site of disease, in broad groups.

\*Cancer includes leukaemia and Hodgkin's disease.

TABLE 2  
NEW CANCER CASES ADMITTED BY SITE OF DISEASE

CENTRE	Breast		Uterus		Oral Cavity		Air Passages		Rectum		Other Sites		TOTAL	
	Private	Public	Private	Public	Private	Public	Private	Public	Private	Public	Private	Public	Private	Public
Hamilton.....	115	10	58	17	33	7	7	2	13	1	233	40	459	77
Kingston.....	38	9	19	9	25	9	3	—	9	2	197	49	291	78
London.....	57	22	33	14	41	13	12	3	4	—	214	57	361	109
Ottawa (C)....	63	11	48	9	43	12	4	1	4	4	104	30	326	67
Ottawa (G)....	19	2	25	9	17	5	2	—	13	1	113	22	189	39
Toronto.....	76	118	27	165	59	95	11	28	10	19	246	369	429	794
Windsor.....	52	8	26	11	20	2	4	1	11	2	149	32	262	56
TOTAL.....	420	180	236	234	238	143	43	35	64	29	1,316	599	2,317	1,220
TOTAL BY SITE..	600		470		381		78		93		1,915		3,537	
PER CENT.....	17.0		13.3		10.8		2.2		2.6		54.1		100.0	

Comparison of the total number of cases for each site with those in the 1946 report, shows an increase in the number of cases admitted in the "Other Site" group amounting to 85 cases. There were 78 cases of cancer of the air passages compared with 76 in 1946 and the remaining sites all show a decrease in the number of cases admitted compared with the previous year. The proportion of cases of each site remained much the same as in 1946.

#### *Trends in Volume of Treated Cases*

The present uniform system of record-keeping has been in operation in all seven Ontario Cancer Centres for ten full years, having been introduced in August, 1937. It is useful, therefore, to record the trend in case volume during this period. A summary of the new cases treated, by site of disease, for the period 1938-1947 inclusive, is given in Table 3 for all Centres combined. Data for each Centre, all sites combined, are given in Table 4.

TABLE 3  
NEW CASES TREATED\* BY SITE OF DISEASE  
1938-1947

SITE OF DISEASE	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947
Breast.....	401	418	430	377	433	428	524	532	599	572
Cervix uteri.....	201	212	223	233	261	262	262	275	349	334
Body of uterus...	62	60	54	59	64	78	85	102	98	116
Lip.....	211	219	188	218	191	218	199	205	259	195
Tongue.....	46	36	42	37	38	54	53	46	62	45
Other oral†.....	89	104	87	97	97	97	94	113	123	128
Air passages‡.....	38	48	59	64	66	65	67	54	74	74
Rectum and anus.	51	41	48	53	66	56	65	66	85	75
Skin.....	549	595	493	598	674	635	749	831	880	919
Other sites§.....	447	534	505	559	565	564	636	695	806	834
TOTAL.....	2,105 <sup>Ⓢ</sup>	2,267	2,129	2,295	2,455	2,456	2,734	2,918	3,335	3,292

\*Treated by any method or combination. Includes cases treated by surgery alone, but excludes palliative surgery.

†Including buccal surface of cheek, tonsil, etc.

‡Including air sinuses, larynx, pharynx and nasal fossae.

§Including leukaemia, Hodgkin's disease, etc.

<sup>Ⓢ</sup>Including 10 cases treated by surgery alone not included in site distribution.

TABLE 4  
NEW CASES TREATED\* BY CENTRE  
1938-1947

CENTRE	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947
Hamilton.....	302	374	322	322	351	327	353	376	487	531
Kingston.....	186	184	162	206	165	177	192	217	260	332
London.....	146	143	148	203	254	270	365	413	464	466
Ottawa Civic.....	253	267	237	253	228	247	249	292	390	372
Ottawa General.	97	115	86	84	119	57	104	102	149	165
Toronto.....	985	1,015	973	1,041	1,127	1,155	1,197	1,292	1,305	1,149
Windsor.....	136	169	201	186	211	223	274	226	280	277
TOTAL.....	2,105	2,267	2,129	2,295	2,455	2,456	2,734	2,918	3,335	3,292

\*Treated by any method or combination. Includes cases treated by surgery alone but excludes palliative surgery.

These tables illustrate the steady increase in case volume from 1938 to 1946. In 1947, however, the number of cases treated in the seven Centres was actually 43 fewer than in 1946; Centres at Hamilton, Kingston, London and Ottawa General show an increase but this has been offset by decreases in the remaining three Centres. The ratios of the 1947 case-volume to that for 1938, for each Centre, are as follows: Hamilton 1.76; Kingston 1.78; London, 3.19; Ottawa Civic 1.47; Ottawa General 1.70; Toronto 1.17; Windsor 2.04.

A comparison of the volume of new cases treated by radiotherapy (alone or in combination with other methods) in each Centre, during the five-year period 1943-1947, inclusive, is given in Table 5.

TABLE 5  
NEW CANCER CASES TREATED BY RADIOTHERAPY\*  
1943-1947

CENTRE	Private					Public					Total				
	1943	1944	1945	1946	1947	1943	1944	1945	1946	1947	1943	1944	1945	1946	1947
	Hamilton.....	271	294	312	410	432	43	40	47	52	73	314	334	359	462
Kingston.....	130	150	164	178	177	41	33	24	33	44	171	183	188	211	221
London.....	192	260	300	350	323	57	75	74	77	103	249	335	374	427	426
Ottawa Civic.....	173	188	234	299	276	53	47	43	65	62	226	235	277	364	338
Ottawa General.....	32	34	47	63	76	11	21	4	22	13	43	55	51	85	89
Toronto.....	582	619	612	546	381	551	571	596	653	701	1,133	1,190	1,208	1,199	1,082
Windsor.....	172	215	178	233	213	30	26	23	32	44	202	241	201	265	257
TOTAL.....	1,552	1,760	1,847	2,079	1,878	786	813	811	934	1,040	2,338	2,573	2,658	3,013	2,918

\*Alone or in combination with surgery or other methods.

†Cases treated by surgery alone, cases not treated and recurrences are excluded.



The total number of new cases treated by radiotherapy in 1947 (excluding recurrences) was 2,918. This is a decrease of 95 cases or 3 per cent below 1946. All Centres other than Hamilton, Kingston and Ottawa General show a reduction. The recorded increases for these three centres were: Hamilton, 9.3 per cent; Kingston, 4.7 per cent; and Ottawa General, 4.7 per cent.

A summary of the number of cases treated during the year, by site of disease and status, is given in Table 6, the number of patients who were reported alive at December 31, 1947, being indicated in each case.

TABLE 6  
NEW CASES TREATED BY SITE OF DISEASE

SITE OF DISEASE	Private		Public		Total		GRAND TOTAL	
	Alive*	Dead	Alive*	Dead	Alive*	Dead	Num-ber	Per Cent
Breast.....	375	22	163	12	538	34	572	17.4
Cervix uteri.....	143	13	160	18	303	31	334	10.2
Body of uterus.....	68	7	38	3	106	10	116	3.5
Lip.....	138	2	51	4	189	6	195	5.9
Tongue.....	19	—	20	6	39	6	45	1.4
Other oral†.....	66	5	46	11	112	16	128	3.9
Air sinuses.....	3	1	7	—	10	1	11	0.3
Larynx.....	11	6	8	4	19	10	29	0.9
Other air passages....	17	2	12	3	29	5	34	1.0
Rectum and anus.....	44	10	16	5	60	15	75	2.3
Skin.....	656	8	249	6	905	14	919	27.9
Vagina.....	4	—	7	—	11	—	11	0.3
Ovary.....	43	18	22	4	65	22	87	2.6
Bone.....	16	7	10	4	26	11	37	1.1
Other digestive tract..	48	16	6	8	54	24	78	2.4
Other sites‡.....	301	88	175	57	476	145	621	18.9
TOTAL.....	1,952	205	990	145	2,942	350	3,292	100.0

\*As of December 31st. 1947 (reported).

†Including buccal surface of cheek, tonsil, etc.

‡Including leukaemia, Hodgkin's disease, etc.

These data indicate that 70.2 per cent of the new cases treated by radiotherapy or surgery or both (including recurrences) had cancer of the so-called "accessible" sites (breast, uterus, oral cavity and skin). This figure is much the same as it has been in previous years. Skin cases comprised 27.9 per cent of all cases treated during the year, breast cases comprised 17.4 per cent, and cervix uteri 13.7 per cent. The recorded percentages for both skin and cervix uteri are slightly higher than for the previous year.

#### *New Cases Treated—By Site and Centre of Treatment*

The distribution of new treated cancer cases by centre, site of disease and status, is given in Table 7.

TABLE 7  
NEW CASES TREATED\* BY SITE OF DISEASE AND STATUS

SITE OF CANCER	Hamilton		Kingston		London		Ottawa (C)		Ottawa (G)		Toronto		Windsor		TOTAL		
	Priv.	Pub.	Priv.	Pub.	Priv.	Pub.	Priv.	Pub.	Priv.	Pub.	Priv.	Pub.	Priv.	Pub.	Priv.	Pub.	Total
Breast.....	114	9	36	9	57	22	53	10	19	2	68	115	50	8	397	175	572
Cervix uteri.....	42	12	11	7	18	11	26	9	21	2	20	127	18	10	156	178	334
Body of uterus.....	16	5	7	2	15	3	21	6	7	3	7	27	7	1	75	41	116
Lip.....	20	2	15	3	30	4	25	6	7	3	32	37	11	-	140	55	195
Tongue.....	1	3	1	1	1	3	6	1	3	-	4	17	3	1	19	26	45
Other oral†.....	12	2	9	5	10	6	10	5	6	1	19	37	5	1	71	57	128
Air passages‡.....	7	2	3	-	12	3	4	1	2	1	9	27	3	1	40	34	74
Rectum and anus.....	13	1	8	1	4	-	4	3	8	-	10	14	7	2	54	21	75
Skin.....	115	25	88	11	157	44	93	14	13	4	134	142	64	15	664	255	919
Ovary.....	23	1	9	2	6	1	1	1	6	-	8	21	8	-	61	26	87
Other sites§.....	93	13	74	30	50	9	64	15	58	5	90	184	51	11	480	267	747
TOTAL.....	456	75	261	71	360	106	307	65	145	20	401	748	227	50	2,157	1,135	3,292
CLINIC TOTALS.....	531		332		466		372		165		1,149		277		3,292		

\*By radium, x-ray or surgery, or any combination of these three.

†Including buccal surface of cheek, tonsil, etc.

‡Including air sinuses, larynx, pharynx, and nasal fossae.

§Including leukaemia, Hodgkin's disease, etc.

It is noted that there has been an increase in the volume of treated cases for each of the following sites: body of uterus, 18 per cent; skin, 4 per cent; ovary, 10 per cent. For the individual remaining sites, the volume of treated cases was less than in 1946. Cancer of the lip, in particular, showed a decrease of 64 cases or 25 per cent.

#### *Stage of Disease at the Beginning of Treatment*

In view of the marked differences in "survival" rates in early and late cases, considerable interest attaches to data on the stage of disease at the time when treatment is sought, and to any trends toward earlier treatment such as might be reflected by a shortening of the interval between first recognized symptom or sign and diagnosis as well as between diagnosis and treatment, and by the proportion of cases reaching treatment centres in the earlier stages of disease.

In assessing the recorded data on these points, it must be kept in mind that, with improvement in methods, treatment may be undertaken now in cases which formerly might have been considered too far advanced for treatment.

In Table 8, data are presented on the recorded stage of disease at the time the patient first presented himself for treatment. Data for the two periods, 1939-1941 and 1942-1946, are given for comparison with the 1947 experience. Recurrences are excluded from these data.

TABLE 8  
STAGE OF DISEASE ON ADMISSION—CERTAIN SITES\*  
CASES TREATED 1939-1941, 1942-1946 AND 1947

SITE OF DISEASE	Stage of Disease	1939-1941		1942-1946		1947	
		Cases	Per Cent	Cases	Per Cent	Cases	Per Cent
Breast	I	241	23.0	519	22.6	166	31.9
	II	309	29.5	611	26.7	187	36.0
	III	165	15.7	392	17.1	115	22.1
	N.S.	333	31.8	770	33.6	52	10.0
	Total	1,048	100.0	2,292	100.0	520	100.0
Cervix uteri	I	93	14.3	232	16.8	90	27.6
	II	221	34.1	441	32.0	80	24.5
	III	216	33.3	457	33.2	105	32.2
	IV	99	15.2	170	12.3	36	11.1
	N.S.	20	3.1	78	5.7	15	4.6
Total	649	100.0	1,378	100.0	326	100.0	
Lip	I	441	74.6	674	66.3	136	72.0
	II	91	15.4	184	18.1	34	18.0
	III	29	4.9	64	6.3	12	6.3
	IV	9	1.5	24	2.4	4	2.1
	N.S.	21	3.6	70	6.9	3	1.6
Total	591	100.0	1,016	100.0	189	100.0	
Tongue	I	35	31.8	65	26.9	15	34.9
	II	40	36.4	65	26.9	15	34.9
	III	28	25.5	64	26.4	6	14.0
	IV	5	4.5	30	12.4	5	11.6
	N.S.	2	1.8	18	7.4	2	4.7
Total	110	100.0	242	100.0	43	100.0	
Other oral	I	64	22.9	103	20.0	33	26.0
	II	102	36.6	150	29.1	41	32.3
	III	68	24.4	157	30.4	32	25.2
	IV	23	8.2	62	12.0	13	10.2
	N.S.	22	7.9	44	8.5	8	6.3
Total	279	100.0	516	100.0	127	100.0	
Skin	I	1,295	81.9	2,721	74.4	692	77.6
	II	169	10.7	422	11.5	113	12.7
	III	42	2.6	153	4.2	30	3.4
	IV	13	0.8	41	1.1	13	1.5
	N.S.	63	4.0	320	8.8	43	4.8
Total	1,582	100.0	3,657	100.0	891	100.0	

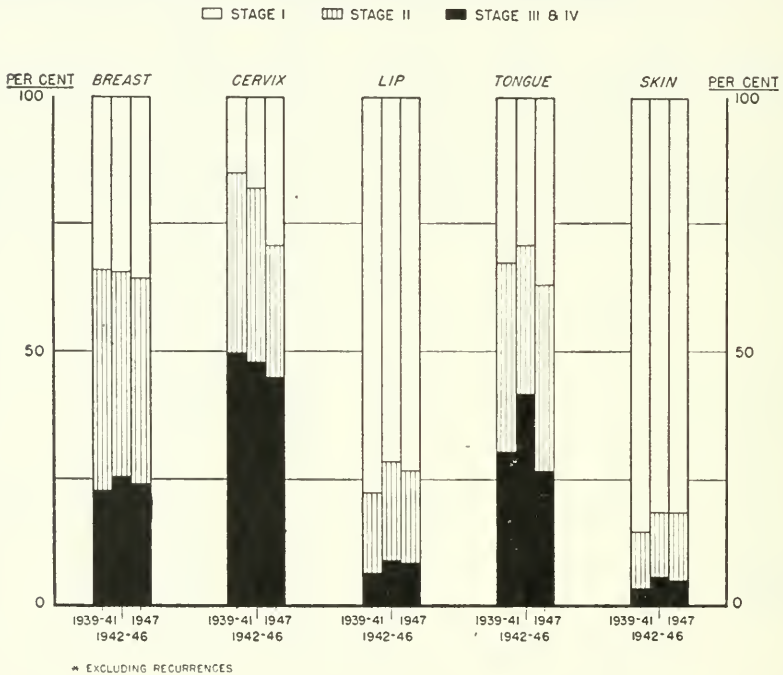
\*Excluding recurrences.

The improvement in the proportion of new cases in the early stages remains on the whole, quite small. The improvement in cervix uteri is the most significant of all with 27.6 per cent classed as Stage I in 1947 compared with 16.8 per cent in the five-year period 1942-1946. The figures for breast show definite improvement but if the "not stated" group is excluded, there is no material change over the whole period. Excluding cases in which stage of disease was not recorded,

41 per cent of the patients with cancer of the breast, cervix uteri and oral cavity presented themselves for treatment during 1947 before local spread, extension or metastasis had occurred.

The changes which have taken place in the percentage distribution of new cases by stage of disease on admission are illustrated by Figure III. In preparing this chart the percentages have been computed excluding the cases for which the stage of disease was not recorded.

FIGURE III  
STAGE OF DISEASE ON ADMISSION - CERTAIN SITES\*  
CASES TREATED 1939-41, 1942-46 AND 1947



There continues to be evidence of greater delay in seeking treatment (in terms of stage of disease when treatment is begun) in public patients as compared with private patients. In Table 9, data on stage of disease for certain sites, for public and private cases separately, illustrate the point.

TABLE 9  
STAGE OF DISEASE—PRIVATE AND PUBLIC CASES—CERTAIN SITES\*  
NEW TREATED CASES ONLY

STAGE OF DISEASE	Breast				Cervix uteri				Oral Cavity			
	Private		Public		Private		Public		Private		Public	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
I	143	39.3	23	14.7	58	38.2	32	18.4	137	61.2	47	34.8
II	134	36.8	53	34.0	43	28.3	37	21.3	55	24.5	35	25.9
III	67	18.4	48	30.8	38	25.0	67	38.5	22	9.8	28	20.8
IV	—	0	—	0	6	3.9	30	17.2	2	0.9	20	14.8
N.S.	20	5.5	32	20.5	7	4.6	8	4.6	8	3.6	5	3.7
TOTAL	364	100.0	156	100.0	152	100.0	174	100.0	224	100.0	135	100.0

\*Excluding recurrences.

The recorded data on the breast cases are of limited significance because the stage of disease was not recorded in 20 per cent of the public cases. The picture for cervix uteri and oral cavity cases is quite striking. In cancer of the cervix uteri, 38.2 per cent of the "private" cases were Stage I compared with only 18.4 per cent in the "public" cases. In cases of oral cancer, 61.2 per cent of the private patients presented themselves for treatment in the early stage, compared with only 34.8 per cent of public cases.

#### *Classification of New Cases Recorded During 1947*

A summary of the 3,537 new patients recorded by the seven Cancer Centres during 1947, indicating the number with recurrences and the number not treated (for any reason) is presented in Table 10.

TABLE 10  
CLASSIFICATION OF NEW CASES ADMITTED BY SITE OF DISEASE

SITE OF DISEASE	Classification				TOTAL
	Primary	Previous	Recurrent	Not Treated	
Breast.....	192	328	52	28	600
Cervix uteri.....	309	17	8	12	346
Body of uterus.....	74	32	10	8	124
Oral cavity.....	349	10	9	13	381
Air passages.....	69	3	2	4	78
Rectum and anus.....	62	3	10	18	93
Skin.....	828	63	28	31	950
Other sites.....	551	216	67	131	965
TOTAL.....	2,434	672	186	245	3,537
PER CENT.....	68.8	19.0	5.3	6.9	100.0

There is little change in the proportion of cases classified in each group although the absolute number of patients classified as "primary", "previous"\* and "recurrent" are somewhat less for 1947 than for the previous year. The number of patients admitted to the Centres but who were not treated (245) showed a slight increase over last year (237). Further details on these untreated cases are given in Table 17.

#### *Histological Confirmation of Clinical Diagnosis*

A pathological report was available in 2,840 or 86 per cent of the total of 3,292 new cases treated during the year at the time this Report was prepared. The frequency of recorded histological examination, by site of disease, is given in Table 11.

TABLE 11  
HISTOLOGICAL EXAMINATION OF NEW CASES TREATED  
BY SITE OF DISEASE

SITE OF DISEASE	Pathology Done		Pathology Not Done		No Data		TOTAL	
	Private	Public	Private	Public	Private	Public	Private	Public
Breast.....	357	161	32	13	8	1	397	175
Cervix uteri.....	145	170	8	7	3	1	156	178
Body of uterus.....	71	40	2	—	2	1	75	41
Oral cavity.....	209	129	20	9	1	—	230	138
Air passages.....	32	31	8	3	—	—	40	34
Rectum and anus.....	44	19	10	1	—	1	54	21
Skin.....	464	122	98	28	—	—	562	150
Other sites.....	519	327	109	59	15	12	643	398
TOTAL.....	1,841	999	287	120	29	16	2,157	1,135
PER CENT.....	85.4	88.0	13.3	10.6	1.3	1.4	100.0	100.0

Histological confirmation of the clinical diagnosis was available in 90.6 per cent of the breast cases, in 94.3 per cent of the cervix uteri cases, in 91.8 per cent of the oral cases and in 82.3 per cent of the skin cases.

The proportion of new treated cases of cancer of the breast, uterus, oral cavity, air passages, and rectum in which a pathological report was obtained is shown for each Centre in Table 12.

\*Cases in which there has been treatment elsewhere (largely surgery) before admission to the Centre.

TABLE 12  
HISTOLOGICAL EXAMINATIONS OF CERTAIN SITES\*  
NEW CASES TREATED

CENTRE	Private Cases			Public Cases		
	Histological Exams.		TOTAL	Histological Exams.		TOTAL
	Number	Per Cent		Number	Per Cent	
Hamilton.....	185	82.2	225	30	83.3	36
Kingston.....	88	97.8	90	24	85.7	28
London.....	138	93.9	147	50	96.2	52
Ottawa Civic.....	139	93.3	149	28	80.0	35
Ottawa General.....	57	83.8	68	10	90.9	11
Toronto.....	155	91.7	169	385	96.0	401
Windsor.....	96	92.3	104	20	83.3	24
TOTAL.....	858	90.1	952	547	93.2	587

\*Includes breast, uterus, oral cavity, air passages and rectum.

A pathological report was available in over 90 per cent of all breast, uterus, oral cavity, air passages and rectum cases. This figure has shown considerable improvement over the past ten years. In 1939, for example, the proportion of new treated cases of these sites in which a pathological report was available was 77.4 per cent.

### Prognosis

Each follow-up card provides for a statement of whether the patient is regarded at the outset as treatable for cure, or for palliation only. A summary of the data given for all new cases recorded during 1947 is set out in Table 13.

TABLE 13  
TOTAL NEW CASES BY PROGNOSIS AND SITE OF DISEASE

SITE OF DISEASE	Treatable for			No Data	Not* Treated	TOTAL
	Cure	Palliation	Ratio			
Breast.....	400	144	2.8	28	28	600
Cervix uteri.....	233	96	2.4	5	12	346
Body of uterus.....	84	29	2.9	3	8	124
Lip.....	181	13	13.9	1	3	198
Tongue.....	29	16	1.8	—	3	48
Other oral†.....	87	40	2.2	1	7	135
Air passages‡.....	29	44	0.7	1	4	78
Rectum and anus.....	23	50	0.5	2	18	93
Skin.....	885	28	31.6	6	31	950
Ovary.....	33	53	0.6	1	5	92
Other sites§.....	214	525	0.4	8	126	873
TOTAL.....	2,198	1,038	2.1	56	245	3,537
PER CENT.....	62.2	29.3	...	1.6	6.9	100.0

\*For any reason—see subsequent section and tabulation.

†Including buccal surface of cheek, tonsil, etc.

‡Including air sinuses, larynx, pharynx and nasal fossae.

§Including leukaemia, Hodgkin's disease, etc.



In 2,198 cases or 62.2 per cent of the total, the patient was recorded as treatable for cure. Patients classified as treatable for palliation only, amounted to 1,038 or 29.3 per cent of the total. The ratio of cases treatable for cure to those treatable for palliation only reflects, among other things, the stage of disease when treatment was begun and the susceptibility to treatment in general.

#### *Method of Treatment*

A general summary of the methods of treatment of new cases during the year (excluding recurrences) is given in Table 14.

Of all cases, 748 or 22.3 per cent were treated by radium alone. Radium, alone or in combination with x-ray, surgery, or both, was employed in 35.8 per cent of the cases. X-ray, in combination with radium, surgery or both, was employed in 63.3 per cent of the cases. Cases treated by radiotherapy alone comprised 66.0 per cent of the cases. Surgery, alone or in combination with other forms of treatment, was used in 26.7 per cent of all the cases.

The distribution of treated cases (excluding recurrences) by method of treatment, for each Centre, is presented in Table 15.

TABLE 14  
METHOD OF TREATMENT OF NEW CASES BY SITE OF DISEASE\*

METHOD OF TREATMENT	Site of Disease								TOTAL	
	Breast	Cervix Uteri	Body of Uterus	Oral Cavity	Air Passages	Rectum and Anus	Skin	Other Sites	Number	Per Cent
X-ray.....	115	60	15	125	44	25	316	399	1,099	32.8
Radium.....	-	45	24	165	10	7	472	25	748	22.3
Radium and x-ray.....	6	201	25	56	15	8	35	21	367	10.9
Surgery and x-ray.....	372	6	24	8	1	10	20	178	619	18.5
Surgery and radium.....	-	2	4	-	-	-	29	14	49	1.5
Surgery, radium and x-ray.....	4	8	9	3	1	-	1	10	36	1.1
Surgery alone.....	23	4	5	2	1	15	18	120	188	5.6
Not treated.....	28	12	8	13	4	18	31	131	245	7.3
TOTAL.....	548	338	114	372	76	83	922	898	3,351	100.0

\*Excluding recurrences.

TABLE 15  
NEW CASES TREATED BY CENTRE AND METHOD OF TREATMENT\*

METHOD OF TREATMENT	Hamilton	Kingston	London	Ottawa (C)	Ottawa (G)	Toronto	Windsor	TOTAL
	Number of Cases							
X-ray.....	279	48	280	76	21	322	73	1,099
Radium.....	26	94	36	126	38	361	67	748
Radium and x-ray.....	49	20	34	61	9	145	49	367
Surgery and x-ray.....	148	49	67	70	16	206	63	619
Surgery and radium.....	1	7	1	2	3	33	2	49
Surgery, radium and x-ray.....	2	3	8	3	2	15	3	36
Surgery alone.....	-	88	4	4	76	9	7	188
TOTAL.....	505	309	430	342	165	1,091	264	3,106

METHOD OF TREATMENT	Per Cent							TOTAL
	Per Cent							
X-ray.....	55.2	15.5	65.1	22.2	12.7	29.5	27.7	35.4
Radium.....	5.1	30.4	8.4	36.8	23.0	33.1	25.4	24.1
Radium and x-ray.....	9.7	6.5	7.9	17.8	5.5	13.3	18.6	11.8
Surgery and x-ray.....	29.3	15.9	15.6	20.5	9.7	18.9	23.9	19.9
Surgery and radium.....	†	2.3	†	†	†	3.0	†	1.6
Surgery, radium and x-ray.....	†	†	1.9	†	†	1.4	†	1.2
Surgery alone.....	†	28.5	†	†	46.1	0.8	2.7	6.1
TOTAL.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

\*Excludes recurrences.

†Percentages calculated only where 5 or more cases.

Radium alone was used in only 5.1 per cent of the cases in one Centre compared with 36.8 per cent in another. This trend also applies when the method of treatment involves radium in combination with the other methods. X-ray alone was employed in 65.1 per cent of the cases in one Centre compared with 12.7 per cent in another.

These data must not be used alone as a basis for comparing treatment practice among the seven Cancer Centres. While the wide variations shown in Table 15 are so great as to suggest real differences in treatment procedure, data for individual sites alone are useful for this purpose.

The proportions of cases treated by radium alone, and by radium alone and in combination with other methods of treatment, for cervix uteri, oral cavity and skin cases, for each Centre, are given in Table 16.

TABLE 16  
PROPORTION OF CASES TREATED WITH RADIUM BY CENTRE\*

CENTRE	Radium Alone (%)			Radium Alone and in Combination† (%)		
	Cervix	Oral	Skin	Cervix	Oral	Skin
Hamilton.....	6	10	1	80	15	1
Kingston.....	0	50	75	67	71	82
London.....	3	39	7	90	39	8
Ottawa Civic.....	3	42	90	71	79	94
Ottawa General...	61	75	41	87	90	41
Toronto.....	17	56	82	72	72	94
Windsor.....	4	48	70	89	71	92
TOTAL (%).....	14	46	51	77	63	58

\*Excludes recurrences.

†With x-ray, surgery or both.

These data provide a better basis for comparison between the Centres in respect of treatment procedure. Most striking in this table are the differences in the proportions of cases of cancer of the skin which are treated by radium alone or in combination with other methods. Hamilton and London stand in sharp contrast to the Ottawa Civic and Toronto Centres in this respect.

#### *Untreated Cases*

Of the 3,537 cases admitted to the seven Centres during 1947, 245 or 6.9 per cent were not treated. The number of untreated cases reported by each Centre were as follows: Hamilton, 5; Kingston, 37; London, 4; Ottawa Civic, 21; Ottawa General, 63; Toronto, 74; Windsor, 41.

The reasons recorded for non-treatment are summarized in Table 17.

TABLE 17  
 UNTREATED CASES BY REASON FOR NON-TREATMENT

REASON FOR NON-TREATMENT	SITE OF DISEASE						TOTAL
	Breast	Uterus	Oral Cavity	Air Passages	Rectum and Anus	Other Sites	
Too far advanced.....	4	7	3	2	5	65	86
Refused treatment.....	1	3	1	—	3	11	19
Did not return.....	2	3	2	1	1	18	27
Died before treatment.....	—	1	—	—	—	7	8
Co-existent disease.....	—	—	—	—	—	—	—
Age and general condition....	1	—	1	—	1	4	7
Other and no data.....	20	6	6	1	8	57	98
TOTAL.....	28	20	13	4	18	162	245
TOTAL TREATED.....	572	450	368	74	75	1,753	3,292

In 86 or 35 per cent of the cases, treatment was not given because of the advanced stage of disease. This number is equivalent to 2.4 per cent of the total new cases recorded during the year.

#### *Age and Sex Distribution of New Treated Cases*

In Table 18 there is presented the distribution of new *treated* cases by age, sex and site of disease.

TABLE 18  
NEW CASES TREATED BY AGE, SEX AND SITE OF DISEASE

SITE OF DISEASE	Under 40		40-49		50-59		60-69		70-79		80 and over		Not stated		TOTAL	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
	Breast.....	—	51	1	128	1	135	1	146	—	91	—	17	—	1	3
Cervix uteri.....	—	55	—	107	—	98	—	42	—	24	—	5	—	3	—	334
Body of uterus.....	—	6	—	21	—	35	—	31	—	18	—	1	—	4	—	116
Lip.....	9	1	23	—	41	1	44	—	49	1	24	—	2	—	192	3
Tongue.....	1	2	2	—	7	2	9	4	13	2	1	—	—	2	33	12
Other oral.....	1	1	5	2	17	4	37	7	27	6	13	5	3	—	103	25
Air sinuses.....	—	—	3	—	—	2	2	1	2	—	1	—	—	—	8	3
Larynx.....	2	—	3	—	10	2	7	1	4	1	2	—	—	—	28	1
Other air passages.....	3	1	1	—	7	6	7	2	5	1	—	—	—	—	23	11
Rectum and anus.....	3	3	5	2	11	7	14	16	9	2	—	—	—	—	43	32
Skin.....	29	14	39	31	98	48	147	85	164	100	79	49	24	12	580	339
Ovary.....	—	10	—	24	—	38	—	11	—	4	—	—	—	—	—	87
Other digestive tract.....	2	2	5	10	9	12	13	8	6	8	—	—	1	1	36	42
Other sites.....	102	47	60	41	100	46	112	46	56	31	16	7	3	2	449	220
TOTAL.....	152	193	147	366	301	434	393	399	335	289	137	87	33	26	1,498	1,794
PER CENT (by sex).....	10.1	10.8	9.8	20.4	20.1	24.2	26.2	22.2	22.4	16.1	9.2	4.9	2.2	1.4	100.0	100.0
RATIO OF MALES TO FEMALES.....	0.79		0.40		0.69		0.98		1.16		1.57		1.27		0.84	

Of the 3,292 new treated cases, 1,498 were males and 1,794 were females. This is equivalent to a ratio of 84 male cases to each 100 female cases. Female cases substantially exceeded male cases at all ages under 60 years. At 60-69 years the sexes are equally represented. At ages 70 and over there is a substantial male excess.

Of the total of 1,794 female cases, 55.4 per cent were under the age of 60 years compared with 40.1 per cent of male cases. The sharp sex differences in recorded frequencies of cancer of the breast, lip, larynx and skin are striking.

#### *Geographic Distribution of New Treated Cases*

The new treated cases are distributed by county or district of residence in Table 19. Data for 1946 are included for comparison. The 1947 case distribution is illustrated by Figure IV.

FIGURE IV  
NEW CANCER CASES TREATED  
COUNTY OR DISTRICT OF RESIDENCE  
ONTARIO CANCER CENTRES - 1947

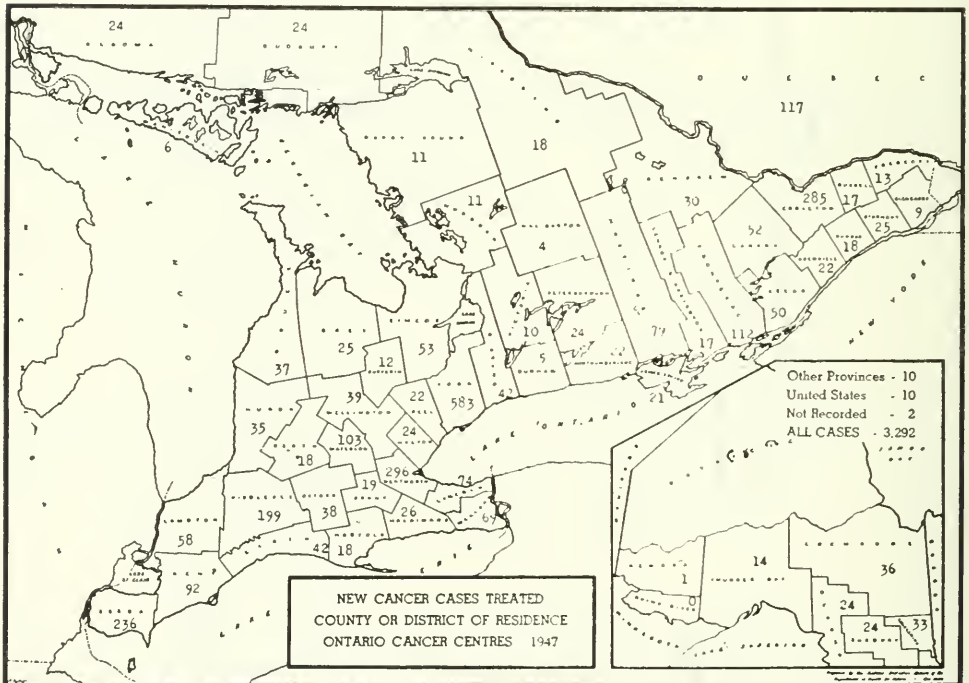


TABLE 19  
NEW CASES TREATED BY AREA OF RESIDENCE—1946 and 1947

COUNTY OR DISTRICT	Total Cases—All Sites				Accessible Sites Only†	
	Number		Rate*		Number	
	1946	1947	1946	1947	1946	1947
Algoma.....	23	24	41	42	18	18
Brant.....	47	19	76	30	36	13
Bruce.....	33	37	73	80	29	29
Carleton.....	299	285	136	127	206	180
Cochrane.....	49	36	56	41	35	24
Dufferin.....	12	12	79	77	8	9
Dundas.....	24	18	137	100	15	8
Durham.....	18	5	66	18	11	4
Elgin.....	46	42	92	82	37	33
Essex.....	249	236	132	122	158	165
Frontenac.....	79	112	136	189	56	71
Glengarry.....	11	9	54	43	8	8
Grenville.....	21	22	121	124	17	16
Grey.....	27	25	44	40	20	19
Haldimand.....	21	26	89	108	18	17
Haliburton.....	2	4	§	54	2	2
Halton.....	24	24	78	76	18	17
Hastings.....	60	79	87	113	41	48
Huron.....	53	35	112	72	44	31
Kenora‡.....	—	1	§	§	—	1
Kent.....	78	92	108	125	61	70
Lambton.....	42	58	68	92	34	48
Lanark.....	30	52	77	142	29	41
Leeds.....	58	50	148	125	44	31
Lennox and Addington.....	22	17	110	83	19	11
Lincoln.....	77	74	109	103	56	54
Manitoulin.....	5	6	43	50	5	4
Middlesex.....	186	199	135	142	142	159
Muskoka.....	13	11	63	46	13	7
Nipissing.....	28	18	60	38	19	13
Norfolk.....	21	18	54	46	17	14
Northumberland.....	23	22	69	65	18	16
Ontario.....	51	42	72	58	39	26
Oxford.....	46	38	83	67	35	32
Parry Sound.....	11	11	34	33	8	9
Peel.....	29	22	85	63	22	14
Perth.....	19	18	35	33	15	12
Peterborough.....	28	24	54	46	19	10
Prescott.....	8	13	29	47	4	11
Prince Edward.....	15	21	82	113	12	13
Rainy River.....	1	—	§	§	—	—
Renfrew.....	46	30	78	50	35	22
Russell.....	12	17	63	88	6	12
Simcoe.....	54	53	57	55	42	42
Stormont.....	16	25	36	55	12	21
Sudbury.....	32	24	37	27	16	12
Thunder Bay.....	23	14	25	15	17	11
Timiskaming.....	29	33	53	59	22	23
Victoria.....	12	10	43	35	9	8
Waterloo.....	82	103	76	94	49	64
Welland.....	59	69	58	67	42	45
Wellington.....	65	39	101	59	46	32
Wentworth.....	299	296	133	130	228	204
York.....	592	583	57	55	379	416
Quebec.....	87	117	§	§	54	79
Other Provinces.....	12	10	§	§	10	5
U.S.A.....	14	10	§	§	10	4
Not stated.....	10	2	§	§	5	1
GRAND TOTAL.....	3,335	3,292	§	§	2,370	2,309
ONTARIO TOTAL.....	3,212	3,153	78.3	75.3	2,291	2,220

\*Per 100,000 estimated population (1946—4,101,000; 1947—4,189,000).

†Including breast, uterus, oral cavity and skin.

‡Including District of Patricia. §Rate not computed.



The treated case load for 1947 was 75.3 per 100,000 population compared with 78.3 in 1946 and 70.4 in 1945. The case rate varied from 189 per 100,000 population in Frontenac and 142 in Middlesex to 15 per 100,000 population in Thunder Bay. The recorded case rate in the counties in which the Cancer Centres are located substantially exceeds the rate for the Province as a whole in all instances except York County.

The reliability of many of the crude rates shown in Table 19 is limited by the smallness of the recorded experience. For this reason sizable fluctuations from year to year are to be expected. Accumulation of data for at least a five-year period will be required before effective comparison can be made and age-adjusted rates prepared. It is noteworthy, however, that for the most part the rates for the various counties and districts for 1947 are of the same general order (high, average or low) as they were in 1946 and 1945 as well as in 1938 and 1939. This fact makes it reasonable to refer to the recorded rates as being high (100 or over), average (60-99), or low (under 60).

It is emphasized that the individual county and district rates in Table 19 merely reflect the extent to which various part of the Province contribute to the total recorded treated case load in the seven Cancer Centres. *They do not reflect the comparative incidence or prevalence of cancer* for at least two very good reasons. In the first place, by no means do all of the new cases of cancer—even cancer of the “accessible” sites—reach the seven Ontario Cancer Centres. Many cases are treated elsewhere even in those cities where the Centres are located. In the second place, the age distribution of the population in any area is an important factor in determining the number of cases requiring treatment and the annual number of recorded deaths.

#### *Scope of Service—Professional Interest*

A summary of the number of physicians referring cases of cancer to each of the Cancer Centres for treatment during 1947 is given in Table 20.

TABLE 20  
REFERRING PHYSICIANS BY CENTRE

CENTRE	New Cases on Record	No. of Different Referring Physicians	Different Physicians per New Case
Hamilton.....	536	264	0.49
Kingston.....	369	120	0.33
London.....	470	213	0.45
Ottawa Civic.....	393	171	0.44
Ottawa General.....	228	51	0.22
Toronto.....	1,223	683	0.56
Windsor.....	318	138	0.43
TOTAL.....	3,537	1,640	0.46

A total of 1,640 physicians, or about one-third the number in practice in Ontario, each referred one or more new cases of cancer during 1947. This fact, and the widespread distribution of cases throughout the Province (Table 19), serve to indicate the scope and recognition of the service available.

*Delay in Treatment*

Data have been presented in Tables 8 and 9 to illustrate the substantial proportion of patients reaching the clinics after local spread, extension or metastasis has occurred. The extent of delay in diagnosis and treatment, in terms of time since recognizable symptoms or signs were present, is difficult if not impossible to determine accurately for the reason that statements made by patients as to date of onset of disease (first sign or symptom) are unreliable in a great many cases. Patients who present themselves in the early stages of disease are more likely to report the appearance of the first sign or symptom accurately. On the contrary, patients with far advanced disease are likely to understate the duration of disease.

The recorded durations of symptoms in a group of *new* cases of cancer of the breast, cervix and lip treated during 1947 are presented in Table 21. These data were taken directly from the follow-up cards and refer to the recorded intervals between date of first recorded sign or symptom and the date of admission to the Centre for treatment. Intervals are to the nearest month and figures are given separately by site and stage of disease.

Almost one-half of the cases of cancer of the breast and cervix had had symptoms for six months or longer before receiving treatment. The figures are as follows: breast, 43.8 per cent and cervix 43.2 per cent. In the case of lip cancer the proportion of cases which had had a symptom for six months or longer amounted to 58.2 per cent. Of the 520 cases of cancer of the breast, 211 cases or 40.6 per cent were admitted for treatment within three months of recorded onset. For cervix cases the percentage amounted to 34.3 per cent and for lip cases 24.9 per cent.

Another aspect of the problem of early treatment is that of delay following first consultation of patients with a physician for signs or symptoms referable to cancer. Data on the recorded intervals between date of first consultation and admission to the Centre for treatment are given in Table 22. The cases included in this table are the same as those covered by Table 21.

TABLE 21  
DURATION OF SYMPTOMS BY STAGE OF DISEASE\*  
CERTAIN SITES

SITE OF DISEASE	Stage	Duration of Symptoms (months)											TOTAL	
		<1	1	2	3	4	5	6-8	9-11	12-17	18-23	24+		N.S.
Breast . . . . .	I . . . . .	30	26	17	17	15	12	18	8	10	-	12	1	166
	II . . . . .	22	29	19	13	9	11	21	6	22	9	22	4	187
	III . . . . .	2	3	10	4	2	5	15	4	21	4	38	7	115
	IV . . . . .	2	5	10	2	3	7	7	4	5	1	1	5	52
	N.S. . . . .													
TOTAL . . . . .	56	63	56	36	29	35	61	22	58	14	73	17	520	
PER CENT	10.8	12.1	10.8	6.9	5.6	6.7	11.7	4.2	11.2	2.7	14.0	3.3	100.0	
Cervix . . . . .	I . . . . .	9	12	7	7	8	7	11	3	5	1	14	6	90
	II . . . . .	4	13	5	9	8	9	10	7	8	-	3	4	80
	III . . . . .	6	9	13	7	8	6	16	10	14	3	7	6	105
	IV . . . . .	3	-	4	2	1	3	7	3	6	1	5	1	36
	N.S. . . . .	-	1	-	1	-	2	2	1	-	1	3	4	15
TOTAL . . . . .	22	35	29	26	25	27	46	24	33	6	32	21	326	
PER CENT	6.7	10.7	8.9	8.0	7.7	8.3	14.1	7.4	10.1	1.8	9.8	6.5	100.0	
Lip . . . . .	I . . . . .	1	10	15	13	11	3	18	4	23	7	23	8	136
	II . . . . .	1	1	1	2	4	2	7	-	5	1	9	1	34
	III . . . . .	1	1	-	-	-	-	1	-	3	1	4	1	12
	IV . . . . .	-	-	-	-	-	-	-	1	-	-	2	1	4
	N.S. . . . .	-	-	-	1	-	-	-	-	-	-	1	1	3
TOTAL . . . . .	3	12	16	16	15	5	26	5	31	9	39	12	189	
PER CENT	1.6	6.3	8.5	8.5	7.9	2.7	13.8	2.6	16.4	4.8	20.6	6.3	100.0	

\*Excluding recurrences.

TABLE 22  
 TIME SINCE FIRST CONSULTATION BY STAGE OF DISEASE  
 TREATED CASES\*—CERTAIN SITES

SITE OF DISEASE	STAGE	Time Since First Consultation (months)											TOTAL	
		<1	1	2	3	4	5	6-8	9-11	12-17	18-24	24+		N.S.
Breast . . . . .	I . . . . .	77	47	13	5	6	4	3	2	2	—	4	3	166
	II . . . . .	76	46	21	9	5	4	8	5	1	5	4	3	187
	III . . . . .	47	22	11	4	4	1	5	4	5	1	8	3	115
	N.S. . . . .	4	11	12	6	3	5	3	1	2	—	—	5	52
	TOTAL . . . . .	204	126	57	24	18	14	19	12	10	6	16	14	520
	PER CENT	39.2	24.2	11.0	4.6	3.5	2.7	3.7	2.3	1.9	3.1	2.7	100.0	
Cervix . . . . .	I . . . . .	39	19	6	4	2	1	4	1	6	—	4	4	90
	II . . . . .	37	20	8	4	3	1	2	2	—	1	—	—	80
	III . . . . .	45	21	11	2	2	3	8	1	1	3	1	7	105
	IV . . . . .	9	8	6	—	—	1	4	—	2	—	4	2	36
	N.S. . . . .	2	2	2	—	—	1	—	1	1	—	2	4	15
	TOTAL . . . . .	132	70	33	10	7	7	18	5	10	13	17	326	
	PER CENT	40.5	21.5	10.1	3.1	2.1	2.1	5.6	1.5	3.1	4.0	5.2	100.0	
Lip . . . . .	I . . . . .	72	21	8	4	2	—	4	4	7	—	7	7	136
	II . . . . .	20	3	3	1	2	—	2	1	—	—	1	1	34
	III . . . . .	5	2	1	—	—	—	—	—	—	—	2	2	12
	IV . . . . .	—	1	—	—	—	—	1	—	—	—	1	1	4
	N.S. . . . .	1	—	—	—	—	—	—	—	—	—	1	1	3
	TOTAL . . . . .	98	27	12	5	4	—	7	5	7	12	12	189	
	PER CENT	51.9	14.3	6.3	2.6	2.1	0	3.7	2.6	3.7	6.4	6.4	100.0	

\*Excluding recurrences.

Of the 520 cases of cancer of the breast, 39.2 per cent received treatment within one month of their first consultation. For cancer of the cervix the percentage amounted to 40.5 per cent while for cancer of the lip, 51.9 per cent received treatment within one month of their first consultation.

Considerably more data are required to afford a precise statistical appraisal of the delays which occur between the reported onset of disease, diagnosis and treatment. The facts presented in Tables 21 and 22, however, are most striking.

#### *Non-Cancer Cases*

During 1947, a total of 3,871 cases diagnosed as non-malignant tumours or non-neoplastic diseases, were treated in the seven Cancer Centres. A summary of the main diagnosis groups is presented in Table 23.

TABLE 23  
NON-CANCER CASES

Non-malignant Tumours		Non-neoplastic Diseases	
Diagnosis	Cases	Diagnosis	Cases
Angiomata, haemangiomata.....	441	Actinomycosis.....	5
Cysts (various).....	87	Asthma.....	7
Fibromata.....	17	Cervicitis.....	71
Keloids.....	61	Diseases of the thyroid.....	7
Keratosis.....	404	Fibrosis uteri.....	7
Leukoplakia.....	74	Infections n.s.e.....	257
Moles, naevi.....	110	Mastitis.....	86
Papillomata.....	157	Menorrhagia, etc.....	176
Polypi.....	30	Parotitis.....	20
Warts.....	405	Pruritis.....	32
Others.....	248	Skin diseases (various).....	558
		Thymic enlargement.....	35
		Tuberculosis.....	13
		Consultation only.....	129
		Others.....	434
<b>TOTAL.....</b>	<b>2,034</b>	<b>TOTAL.....</b>	<b>1,837</b>

Of the total number, 2,034 were cases of non-malignant tumours (including "precancerous" conditions such as leukoplakia) and 1,837 were non-neoplastic diseases. Of interest is the large number of cases of leukoplakia and keratosis.

#### SECTION IV—NOTIFICATION OF CANCER IN NORTHERN ONTARIO A REVIEW OF EXPERIENCE DURING THE FIRST YEAR

In November, 1946, a plan for the voluntary reporting of cases of cancer or suspected cancer was inaugurated in the Districts of Northern Ontario served by Cancer Diagnostic Centres located at Sudbury, Timmins, Fort William and Port Arthur. This activity is carried on jointly by the Department of Health for Ontario and the Ontario Cancer Treatment and Research Foundation. Under the plan, case reports are made by physicians to the appropriate Diagnostic Centre on a special notification form designed for the purpose (Appendix A). These reports are actioned by the Diagnostic Centre concerned and are then transmitted forthwith to the Medical Statistics Branch of the Department of Health, where the necessary record and statistical action is taken.

Following receipt of the notification of a case to a Diagnostic Centre, a set of the appropriate cancer case history forms is returned to the reporting physician. When the completed history is received, the Foundation pays the physician a fee of two dollars. Provision is also made under the plan for the payment of a follow-up fee of one dollar for each annual examination.

The objectives of cancer reporting include the procurement of accurate data on the incidence of cancer, and the facilitating of early and adequate treatment and follow-up. The data secured under the present scheme, if successful, will serve to throw some light on the incidence of diagnosed cancer (as reported) and to provide some idea of the need for treatment facilities for cancer in Northern Ontario.

Having in mind the original objectives of the reporting plan, and since this is the first occasion on which data on reported cases of cancer of all sites have been available for any area in Ontario, it seemed desirable to review the recorded information carefully. The present Review covers all cases reported from the date the reporting scheme was inaugurated to the end of 1947. Few reports were made during the first few weeks and for practical purposes the period covered by this Review may be regarded as being the calendar year 1947.

The data contained in this Review are not to be regarded as a measure of the incidence or site distribution of cancer in the area covered by the plan. Such an assumption cannot be made until comprehensive reporting in the area is assured and until we have information on the date of onset and/or date of diagnosis of each reported case. Furthermore, there is no doubt that at the outset notification forms were submitted for a substantial number of old cases diagnosed in previous years. These limitations are to be kept prominently in mind in reviewing the figures which are presented.

#### *Volume of Reported Cases by Area*

During the period November 18th, 1946, to December 31st, 1947, a total of 388 cases of cancer or suspected cancer were reported. The distribution of these cases by place of residence is set out in Table I. The number of recorded cancer deaths during the preceding calendar year and the ratio of reported cases to recorded deaths of residents of the area covered are also indicated.

TABLE I  
SOURCE OF REPORTED CASES OF CANCER\*  
November 18, 1946, to December 31, 1947

DISTRICT	REPORTED CASES			Cancer Deaths 1946	Ratio of Cases to Deaths
	Male	Female	Total		
Cochrane.....	49	50	99	67	1.48
Kenora.....	9	4	13	33	0.39
Nipissing.....	-	2	2	36	0.06
Rainy River.....	-	1	1	18	0.06
Sudbury.....	27	13	40	64	0.63
Thunder Bay.....	135	68	203	103	1.97
Timiskaming.....	9	21	30	40	0.75
TOTAL.....	229	159	388	361	1.07

\*Includes cancer and "suspected" cancer.

The District of Thunder Bay contributed 203 or 52.3 per cent of the 388 cases reported. Fort William and Port Arthur alone contributed 154 cases. The ratios of reported cases to the recorded deaths during the preceding calendar year are of interest. The observed differences between the ratios for the several districts shown are due largely to differences in completeness of reporting, *not* to real differences in cancer incidence or prevalence. It is significant that the number of reported cases among males should substantially exceed the number for females.

The number of recorded deaths from cancer by site and by place of residence are given in Table II.

TABLE II  
RECORDED DEATHS FROM CANCER VS. REPORTED CASES  
CERTAIN DISTRICTS OF NORTHERN ONTARIO

SITE OF DISEASE	Cochrane	Kenora	Nipissing	Rainy River	Sudbury	Thunder Bay	Timiskaming	Total Recorded Cancer Deaths 1946	Total Reported Cases 1947	Ratio of Cases to Deaths
Oral cavity . . . . .	4	2	—	1	—	2	—	9	41	4.6
Stomach . . . . .	17	8	8	4	11	29	8	85	44	0.5
Intestines . . . . .	4	8	6	2	9	15	3	47	22	0.5
Rectum . . . . .	3	1	1	—	4	6	1	16	14	0.9
Other digest. system	6	2	3	2	10	12	8	43	14	0.3
Larynx . . . . .	—	1	—	—	2	—	1	4	2	0.5
Lung and mediast..	2	1	5	1	2	9	4	24	7	0.3
Uterus . . . . .	5	4	5	1	8	7	3	33	43	1.3
Other fem. gen. org..	2	—	—	—	1	1	1	5	10	2.0
Male genital organs.	5	4	1	1	4	3	1	19	29	1.5
Breast . . . . .	6	1	1	—	4	8	4	24	45	1.9
Urinary organs . . . .	6	—	1	1	5	5	2	20	51	2.6
Skin . . . . .	—	—	1	2	1	—	—	4	31	7.8
Brain . . . . .	1	—	—	1	1	1	—	4	4	1.0
Other sites . . . . .	6	1	4	2	2	5	4	24	31	1.3
TOTAL . . . . .	67	33	36	18	64	103	40	361	388	1.07
Mean for 1944-46 . . .	57	30	35	17	63	99	44	345	—	—

These figures, in comparison with those in Table I, show that while reporting is, on the whole, quite encouraging, it is still deficient for the "inaccessible" sites. The latter cases are in many instances not diagnosed until the terminal illness intervenes.

#### *Reported Cases by Site, Age and Sex*

The distribution of the 388 reported cases by site, age, and sex, is presented in Table III. Of the 388 cases reported 229 or 59.0 per cent were males, and 159 or 41.0 per cent were females.

TABLE III  
REPORTED CASES OF CANCER BY SITE OF DISEASE AND AGE GROUP

SITE OF DISEASE	Under 45		45-64		65 and over		ALL AGES†		
	M	F	M	F	M	F	M	F	T
Oral cavity . . . . .	2	1	22	1	8	3	36	5	41
Stomach . . . . .	5	2	18	2	12	1	38	6	44
Intestines . . . . .	1	1	5	3	8	3	14	8	22
Rectum . . . . .	1	2	3	2	4	1	9	5	14
Other digestive system . . . . .	3	—	5	2	2	1	10	4	14
Larynx . . . . .	—	—	1	—	1	—	2	—	2
Lung and mediastinum . . . . .	—	—	4	1	1	—	6	1	7
Uterus . . . . .	—	9	—	19	—	6	—	43	43
Other fem. gen. org. . . . .	—	3	—	5	—	—	—	10	10
Male genital organs . . . . .	2	—	9	—	16	—	29	—	29
Breast . . . . .	—	10	—	19	—	7	1	44	45
Urinary organs . . . . .	5	1	17	2	14	2	42	9	51
Skin . . . . .	5	3	9	5	6	1	21	10	31
Brain . . . . .	1	—	1	1	—	—	3	1	4
Other sites* . . . . .	9	8	5	4	2	—	18	13	31
TOTAL . . . . .	34	40	99	66	74	25	229	159	388
PER CENT . . . . .	8.7	10.3	25.5	17.0	19.1	6.5	59.0	41.0	100.0

\*Includes: Hodgkin's disease, 4; leukaemia, 4; bone, 9; metastases, 7; thyroid, 2; others, 5.

†Include cases (23 males and 28 females) for whom ages were not recorded.

Of the 388 cases reported, 74 or 19.0 per cent were under age 45, and 99 or 25.6 per cent were 65 years of age or over. Of the 159 female cases, 106 or 66.7 per cent were under 65 years of age. Only 5 cases were reported among persons under the age of 20 years.

For both sexes combined, the principal site groups involved were: digestive system (94), genital organs (82), urinary organs (51), breast (45), and oral cavity (41). Among males the sites of leading importance were: digestive system (71), genito-urinary organs (71), and oral cavity (36). In females, the principal sites were: genital organs (53), breast (44), and digestive system (23).

#### *Stage of Disease—Type of Case—Confirmation of Diagnosis*

Stage of disease is required to be designated on the Notification Form as "early", "moderately advanced", and "far advanced". Provision is also made for indicating whether the patient is a "new case" or a "recurrence", and whether treatment has already been undertaken.

Of the 388 cases reported, 179 had had some previous contact with a physician either for diagnosis or treatment and 235 were already "under treatment".

Only 209 cases or 53.9 per cent of the total cases reported were new cases in the sense of first contact with a physician either for diagnosis or treatment. Thirty-seven of the cases reported were recurrences after previous treatment elsewhere. It is important to recognize the fact that total cases reported do not reflect the incidence of cancer in an area. Only new cases can throw any light on this point, and then only if case reporting is essentially complete.



The recorded data on stage of disease for the 209 "new cases" reported are presented in Table IV.

TABLE IV  
NEW REPORTED CASES OF CANCER BY SITE OF DISEASE AND STAGE

SITE OF DISEASE	STAGE OF DISEASE						TOTAL†		
	Early		Mod. Adv.		Far Adv.		M	F	T
	M	F	M	F	M	F			
Oral cavity.....	17	1	4	2	—	—	22	3	25
Stomach.....	3	—	10	3	10	1	24	4	28
Intestines.....	—	1	4	—	3	—	7	1	8
Rectum.....	2	—	1	1	3	4	6	5	11
Other digestive tract.....	1	—	3	—	2	4	6	4	10
Larynx.....	—	—	1	—	—	—	1	—	1
Lung and mediastinum...	1	—	2	1	—	—	3	1	4
Uterus.....	—	9	—	10	—	6	—	26	26
Other fem. gen. org.....	—	1	—	3	—	2	—	6	6
Male genital organs.....	4	—	3	—	5	—	12	—	12
Breast.....	1	3	—	13	—	7	1	25	26
Urinary organs.....	3	2	3	2	3	1	9	5	14
Skin.....	12	6	2	1	—	—	14	7	21
Brain.....	—	—	—	—	—	—	—	—	—
Other sites.....	2	2	4	5	3	—	10	7	17
TOTAL.....	46	25	37	41	29	25	115	94	209

†Includes cases (3 males and 3 females) for whom stage was not recorded.

Of the 209 new cases, 71 cases or 34.0 per cent were classified as "early"; 78 cases or 37.3 per cent as "moderately advanced" and 54 cases or 25.8 per cent as "far advanced". In 6 cases the "stage" was not recorded. Of the female cases (94), only 25 or 26.7 per cent were recorded as "early"!

In cancer of the "accessible" sites (buccal cavity, uterus, breast and skin), it is noted that 72.0 per cent of the buccal cavity cases and 85.7 per cent of the skin cases were classified as "early", compared with *only 34.6 per cent of the uterus cases*, and *only 15.4 per cent of the breast cases*. Of the "far advanced" cases, 7 were rectum, 6 were uterus, 7 were breast.

#### Confirmation of Diagnosis

Of the total 388 cases reported, 238 or 61.3 per cent were recorded as confirmed by biopsy. There was less variation among the several sites than might be expected. Of 31 skin cases, 65 per cent had been confirmed by biopsy compared with 53 per cent for the digestive system, 53 per cent for oral cavity, 65 per cent for breast and 76 per cent for genital organs. In 71 cases, or 18.3 per cent, biopsy reports were not available.

#### General Comment

The figures presented in this Review afford some idea of the cancer diagnosis and treatment requirements of the areas concerned. The data seem to suggest

that the needs may not be as great as at first supposed. The morbidity data are incomplete, of course, and to what degree we do not yet know. Death statistics are possibly still the most useful guide, supplemented by reporting for the accessible sites.

This Review has served to indicate that there is some need for revision of the reporting form and for the addition of information regarding date of onset and/or date of diagnosis. With such modifications, better use could be made of the case reports in terms of assessing the incidence of cancer (i.e., the number of new diagnosed and reported cases in a given period) and it would be possible to more accurately reflect the extent to which there is delay in seeking treatment.

APPENDIX A

Second Printing  
A3229

FORM C.F. 1

Jan. 1947/2000

**NOTIFICATION OF CANCER  
OR SUSPECTED CANCER**  
**(For use of attending physician)**

Complete all sections of the form

**1. Patient's Name**.....  
(Surname) (Given name)

P.O. Address.....

Municipality..... County.....  
(City, Town, Village or Township)

Duration of residence in municipality.....

Age..... Sex..... M. S. W. or separated.....

**2. Site of Disease:**.....

**3. Stage of Disease:**  
Early..... Moderately Advanced..... Far Advanced.....

**4. Type of Case:**  
New case, no previous treatment.....  
Is patient at present under treatment? Yes..... No.....  
Recurrence following previous treatment.....

**5. Confirmation of Diagnosis:**  
Has diagnosis been confirmed by biopsy? Yes..... No.....

**6. Type of Assistance Required:**  
(a) Private patient; no assistance required.....  
(b) Hospitalization.....  
(c) Treatment.....  
(d) Transportation.....  
.....  
(Attending physician)

Date.....  
.....  
(Address)





# EIGHTIETH ANNUAL REPORT

*of the*

HOSPITALS DIVISION  
DEPARTMENT OF HEALTH

*upon the*

## Ontario Hospitals for the Mentally Ill, Mentally Defective, Epileptic and Habitué Patients

*of the*

PROVINCE OF ONTARIO

FOR THE YEAR ENDING MARCH 31st, 1947

PRINTED BY ORDER OF  
THE LEGISLATIVE ASSEMBLY OF ONTARIO



ONTARIO

TORONTO

Printed and Published by Baptist Johnston, Printer to the King's Most Excellent Majesty,  
1948



TO THE HONOURABLE RAY LAWSON, O.B.E.,  
Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

I herewith beg to present for your consideration the Eightieth Annual Report of the Hospitals Division, Department of Health, relating to the Ontario Hospitals for the Mentally Ill, Mentally Defective, Epileptic and Habituate Patients, for the year ending March 31, 1947.

Respectfully submitted,

RUSSELL T. KELLEY,

Minister of Health.





THE HONOURABLE RUSSELL T. KELLEY,  
Minister, Department of Health,  
Parliament Buildings,  
Toronto, Ontario.

Sir:

I have the honour to submit for your approval the Eightieth Annual Report of the Hospitals Division, Department of Health, relating to the Ontario Hospitals for the Mentally Ill, Mentally Defective, Epileptic and Habituate Patients, for the year ending March 31, 1947.

Respectfully submitted,

J. T. PHAIR, M.B., D.P.H.,

Deputy Minister of Health.



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# ONTARIO HOSPITAL, BROCKVILLE

DR. C. E. HANNA, Superintendent

## Care and Treatment of Patients

The general physical health of our patients has continued favourable. A fully-staffed male service has assured a resumption of a much more active and supervised physical and recreational program. All male patients, except the acutely ill and infirm, have been engaged to a greater or lesser extent in these activities, which have included physical therapy (gymnastics), under a qualified attendant with army experience in this field. Such games and recreations as softball, volleyball, football, badminton, tennis, lawn bowling, curling and croquet have been enjoyed by the more active types, while medicine ball practice and walking parties (80 to 100 patients) have been instituted for the less active group. The shortage of nurses and aides has limited to some extent the opportunities for female patients to take full advantage of recreational facilities, although some who require less supervision, have taken part in lawn bowling, curling, croquet, etc.

The addition of a second electro-shock unit has greatly increased the facilities and extended the field of this form of therapy and has been the only type of convulsive therapy practised during the year, mainly because of lack of sufficient nursing personnel, to give adequate care to insulin-treated cases.

The Mental Health Clinic has had the heaviest load in its history and the public demand and appreciation of its services has shown a remarkable increase. The return of our social worker to this department following war service in September 1946, rejuvenated the whole unit and restored the very excellent pre-war contacts with our probation cases, as well as the bi-monthly visits to patients in boarding homes.

A number of new boarding-out homes have been approved and the number of patients placed in these homes has been doubled during the past year (at present there are 74 patients so placed).

There has been an increase in the total admissions over the previous fiscal year of some 93 patients, yet the resident population shows a decrease of some 62 patients. This favourable general picture may be accounted for by the transfer of 50 male patients to St. Thomas in April 1946, the expansion of our boarding-out accommodation, and increased death rate incident to the large number of admissions in the aged group.

## Staff, Administration and Buildings

Although we are well into the second year following the end of hostilities, the major problems of the war years continue to delay progress. Overcrowding, shortages of nursing staff and scarcity of materials are still with us. Despite these adversities, some progress has taken place that heralds things to come. Circumstances have vetoed the possibility of much needed expansion and new construction and ordinary maintenance has of necessity been reduced to a minimum. However, some improvement of a face-lifting nature has been accomplished. A painting and decorating program has been completed during the past fiscal year.

A new system of grounds lighting has been undertaken and presently extends from the administration building to the western entrance of the hospital property.

The following staff changes affecting senior officers and heads of hospital departments have taken place during the year:

Dr. E. J. Rosen was appointed Physician, Gr. 2, on May 16, 1946, on discharge from the army, replacing Dr. A. G. Allen, who was transferred to the Ontario Hospital, Woodstock. In September, 1946, Dr. Rosen was posted to the Psychiatric Hospital, Toronto, for a year's course of instruction.

Dr. F. K. Switzer (Dentist), was transferred to this hospital from the Dental Car Service on June 3, 1946, replacing Dr. Wm. C. McLachlan, who resigned to resume general practice. Dr. Switzer resigned December 31, 1946, to open private practice in Chapleau, Ontario. Dr. H. S. Lankin was appointed March 17, 1947, to replace Dr. Switzer.

Dr. A. K. Bochner returned from enlistment and was transferred to this hospital on June 3, 1946, replacing Dr. M. G. Rendall as Director of the Mental Health Clinic.

Dr. N. L. Walker returned from enlistment and was transferred to this hospital from the Ontario Hospital School, Orillia, effective July 1, 1946.

Dr. Charles C. Schutt was appointed January 2, 1947, replacing Dr. Isabella Ralph

Miss P. Parisien, Social Service Worker, returned from enlistment on September 30, 1946.

Miss Natalie Berry was appointed as Occupational Therapist, Gr. 1, on July 1, 1946, and Miss M. E. Webber was appointed Occupational Therapist, Gr. 1, on November 13, 1946, these two remaining on our staff on the completion of their internship.

Mr. L. W. Barnes returned from enlistment on June 15, 1946, and assumed duty as Storekeeper, Gr. 2.

Mr. E. A. Clamp, Chief Engineer, was transferred to the Ontario Hospital, Cobourg, and was replaced by Mr. Walter Fairbrother, October 1, 1946. Subsequently, Mr. Fairbrother was transferred to the Ontario Hospital, Woodstock, and Mr. M. Jarvie from the Ontario Hospital, Woodstock, came here as chief engineer, effective November 1, 1946.

Mr. James Conning was transferred to this hospital as Laundry Supervisor from the Ontario Hospital, Woodstock, January 6, 1947.

Miss Margaret Moriarity, Reg. N., Nurse-Instructress, resigned July 7, 1946, to be married, and was replaced by Mrs. Edythe Wilkins, Reg. N.

Two valued and long associated members of our attendant staff were superannuated as of March 31, 1947, having reached superannuation age. These were Mr. Thomas Mott and Mr. Thomas Griffiths.

Our attendant staff has now reached its full quota, but unfortunately, the nursing service is severely handicapped by a progressive depletion of its members. There is a shortage of thirty nurses at the present time in this department. The Training School for Nurses, I regret to report, is also at the lowest ebb in its history. This school in pre-war years graduated classes of more than twenty nurses. Our present enrolment consists of five students in the junior year, two students in the intermediate year, and five students graduating. However, the prospects for 1947 appear much better. We already have applications from fifteen students who are acceptable providing they pass matriculation examinations in June to meet the required standard. We are hopeful of increasing this number considerably before the opening of the fall term.

A very successful course of instruction was given during the past fiscal year to all newly appointed attendants and ward-aides, and many of our older staff members have availed themselves of this opportunity for a refresher course. Written and oral examinations were conducted at the completion of the course.

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## ONTARIO HOSPITAL, COBOURG

DR. G. W. KELLS, Superintendent

### Care and Treatment of Patients

Twenty-eight patients were admitted during the year, 39 were discharged, 15 were transferred here from other Ontario Hospitals, and 11 were transferred to other Ontario Hospitals. One hundred and fifty-two were allowed out on probation, and 114 were returned. Eleven patients died.

Religious services were held in the auditorium every Sunday during the year, by the Protestant and Roman Catholic Clergy of Cobourg. Some members of the Clergy conducted services during the week at the hospital, and some of our girls attended special communion services in the Cobourg churches, under special arrangement.

Moving pictures were presented each week during the winter months, and during the remainder of the year, a group of about 50 girls were allowed to attend picture shows in Cobourg, Saturday afternoons.

The annual Hallowe'en Party was held in the auditorium. A field day was held in September and was much enjoyed. A concert was held during Christmas week and a Christmas tree on December 23rd. A concert was given for St. Patrick's Day by a group of local amateurs, in the auditorium.

The Mental Health Clinic functioned by appointment in the various communities in the counties of Northumberland, Durham, Peterborough, Victoria, and Ontario.

**Staff, Administration and Buildings**

The work of the engineer's and carpenter's departments, as that of our painter, has practically all been maintenance. These services have been well maintained.

Mr. Charles F. Gee, Chief Engineer, was transferred to the Ontario Hospital, St. Thomas, on October 15, 1946. Mr. Edward Clamp was taken on the staff as Chief Engineer, on a transfer from the Ontario Hospital, Brockville.

Mr. Kenneth M. Pack resigned from the staff as Bursar on January 31, 1947, having accepted a position in the Department of Veterans Affairs, Ottawa.

Mr. Edmond J. Downey joined out staff as Bursar on January 28, 1947, on a transfer from the Ontario Hospital School, Orillia.

Miss Inez Davis, Psychologist, was transferred June 1, 1946, to the Ontario Hospital School, Orillia.

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## ONTARIO HOSPITAL, FORT WILLIAM

DR. C. A. CLELAND, Superintendent

**Care and Treatment of Patients**

During the year a total of 94 patients was admitted, and discharges and deaths totalled 63. There are 127 patients in residence. Forty new admissions received electro-shock therapy. Our Port Arthur Unit with a total of 45 beds is used for the group of senile and chronic continuous treatment patients, and this has been a great advantage both to patients and staff.

Our moving picture machine has been used at both units, has added considerably to our recreational facilities, and is appreciated very much by our patients. Fifty books have been added to our library.

Church services have been provided regularly by the Baptist Young People's Organization of Fort William, and the Salvation Army with their band has visited on special occasions. These services are greatly appreciated.

The consultation work in this district continues to be quite heavy, and we are asked to see practically every patient coming from the Lakehead prior to his admission to hospital. We are also at times able to assist in the care of female patients before they are admitted to Ontario Hospitals in the east.

**Staff, Administration and Buildings**

Mrs. McGrath, Reg. N., resigned in September to move to Vancouver. Miss B. Knowles, Reg. N., was with us for two months, but left to take a position in Kingston. Our attendant staff turn-over is still quite high mainly because of the distance of the hospital from the city and transportation difficulties. The senior members of staff are to be commended for their extra efforts in maintaining the necessary services.

There has been no new construction during the past year. Our laundry has been enlarged, and a heat circulator added which has increased its efficiency. Our water supply has again been our chief worry. Our farm program has continued as usual with a carload of beef shipped to the eastern hospitals in the fall.

A course of lectures in psychiatry and mental hygiene has been given to the nurses-in-training as part of their regular training course at the 3 general hospitals—McKellar Hospital, Fort William, St. Joseph's Hospital, Port Arthur, and the General Hospital of Port Arthur. Talks on mental hygiene and related topics have been given to the Registered Nurses' Association, the Public School Teachers' Association, the Professional Social Workers' Association, and 5 Young Peoples' Church Associations. Orientation lectures have been given to the attendant staff.



# ONTARIO HOSPITAL, HAMILTON

DR. J. N. SENN, Superintendent

## Care and Treatment of Patients

All of our staff, with one exception, have now returned from active service. This member of staff is still in the United Kingdom on duty, and his discharge is being delayed on account of the nature of the work that he is performing.

The return of our experienced staff has reacted beneficially in the care and treatment being given to patients. This, of course, affects particularly the male side. Treatment on the female side is very badly hampered by lack of staff, which we seem unable to obtain. This applies particularly to ward staff, both in the field of registered nurses and nurses' aides. New applicants for attendants are of good quality, and this is showing itself in the general morale of the whole male nursing service.

I would like to pay tribute to married members of the female nursing and nurses' aide staff who are rendering invaluable assistance under particularly trying circumstances.

We have been able, during the past year, to reduce our population somewhat by transfer of both male and female patients to the St. Thomas Hospital. During the last year, also, three counties have been transferred from our admitting list to other hospitals, namely, Norfolk to St. Thomas, Waterloo and Grey to London. This has resulted in our admission list falling off somewhat, although we must still be considered as an extremely active admitting hospital.

All wards are, of course, overcrowded, but not to the extent that they were previously and as a result better treatment can be carried out.

We have noticed particularly in the field of admissions, the increase in number of elderly patients being admitted, and the fact also that our average age at death has increased very markedly in the last few years. Electro-shock treatment is being carried out, also Narco diagnosis and treatment, together with an increasing treatment facility by means of occupational therapy and other types. We have had during the last year two additional occupational therapists entering our staff for work particularly in the shock treatment units.

## Staff, Administration and Buildings

On August 31, 1946, Dr. J. D. Atcheson was transferred from this hospital to the Toronto Psychiatric Hospital for his course there. Additions to our medical staff include Dr. J. D. Grieve on October 14, 1946, on his discharge from the active forces. Dr. W. H. Weber, transferred to this hospital on October 1, 1946, having completed his course at the Toronto Psychiatric Hospital, and Dr. B. A. Boyd on October 7, 1946, and Dr. K. W. Runnalls on August 15, 1946, both entering the service from the army. Miss Helen Bush, on October 1, 1946, and Miss Pauline Gilliland, on October 14, 1946, were transferred to our occupational therapy staff.

We have lost several of our valuable employees through death, and Harvey Hull Mason, was superannuated on September 25, 1946, on account of ill health.

I would like to commend particularly the staff of physicians for their devotion to their duty, and for their painstaking effort in the care and treatment of patients.

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# ONTARIO HOSPITAL, KINGSTON

DR. J. S. STEWART, Superintendent

## Care and Treatment of Patients

No radical change has been made in the care and treatment of patients during the past year. Electro-shock therapy has been actively utilized. It is hoped, as soon as nursing staff and physical accommodation is available, to have a unit for the use of insulin shock therapy in addition to electro-shock treatment, but there appears to be no prospect of commencing insulin shock therapy in the near future.

We still have a great shortage of nurses, and are only able to carry on with the aid of ward-aides and part-time nursing help.

**Staff, Administration and Buildings**

Dr. Grant C. Beacock joined the staff in May 1946, and Dr. P. P. Mandl resigned in September 1946. Miss Marion Crawford, Superintendent of Nurses on leave of absence for military duty, was released from the army in 1946, but having married in the meantime resigned from her appointment as Superintendent of Nurses at this hospital. Miss Ella G. Smith, Acting Superintendent of Nurses during the war years, was appointed as Superintendent of Nurses.

Mrs. Edith Alexander, Nurse Instructress, was transferred to the Ontario Hospital, London, and in exchange Miss Bessie Jones, of the Ontario Hospital, London, joined the staff of this hospital as Nurse Instructress.

Our present hospital accommodation continues to be greatly over-taxed, and the demand for admission of senile and arteriosclerotic patients continues to be one of our major problems. It is hoped, however, that Pavilion One of the Mowat Division, which has been closed for the past year for repairs, will soon be ready for occupancy again, and will relieve the pressure on the male division until such time as the buildings may be replaced by more suitable accommodation.

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## ONTARIO HOSPITAL, LANGSTAFF

DR. W. A. REDDICK, Superintendent

**Care and Treatment of Patients**

The Concord Unit again has been placed under the administration of the Langstaff Hospital, female patients from the Ontario Hospital, Toronto, who were being taken care of in this unit, were transferred to other Ontario Hospitals, and 90 patients from the Ontario Hospital, Langstaff, placed in residence at this unit. During the past fiscal year, 78 patients were transferred to this institution, 5 were discharged, one discharged from elopement, 6 died, and 26 were transferred to other Ontario Hospitals.

Our chief therapy, as formerly, consisted of work on farm parties. A small infirmary of eight beds was organized in a large side room which centralizes our acute sick cases where they can be given special nursing attention. Throughout the fall and winter months, movies were shown once each week, all church services were held regularly, and a field day was enjoyed by both the patients and the staff with their families on August 15th. A new undertaking this year was the establishment of a library in a large well heated, airy room in one of our basements, and in this the patients are supplied with a large assortment of books, most of the current magazines, and different types of indoor games.

**Staff, Administration and Buildings**

There has been very little change in personnel this year, with the exception of a few members being transferred to the Ontario Hospital, St. Thomas.

This winter was exceptionally severe and the staff are to be complimented on their regular attendance.

There were no major building operations undertaken during the year, but the interior of several buildings were painted. Farm and garden operations proceeded in a favourable manner.

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## ONTARIO HOSPITAL, LONDON

DR. G. H. STEVENSON, Superintendent

**Care and Treatment of Patients**

During the year there were admitted for the first time 138 men and 184 women, and as readmissions 42 men and 64 women, a total of 428 persons. The Ontario Hospital at St. Thomas accepted by transfer 41 men and 2 women, and in addition, is now admitting directly all patients from Elgin, Kent, Essex and Lambton, counties formerly served by this hospital. To relieve the situation at the Ontario Hospital, Hamilton, the department arranged that patients from Grey County and Waterloo County, formerly admitted

to the Ontario Hospital at Hamilton, be admitted to this hospital. Our population at the end of the year is still 1,494, indicating a degree of over crowding that still needs to be remedied.

Patients discharged during the year were 130 men and 136 women, a total of 266, and a discharge rate, based on admissions, of 62%.

There were 182 deaths, 76 men and 106 women. The old age group of admissions is still our most serious administrative problem, and it is again urged that some other arrangements be made for the care of elderly people who so frequently show various degrees of mental enfeeblement.

Our treatment facilities have been fully used during the year, in spite of staff shortages. The electrotherapy department was transferred from Ward 9, so that Wards 11 and 13 constitute an electroshock and insulin therapy service for women patients, and a part of Ward 4 for men patients. Dr. J. J. Geoghegan continues in charge of this service, assisted by Dr. Kenyon and Dr. Davis. Dr. Geoghegan published a fine report of the work of this service in the January 1947 number of the Canadian Medical Association Journal. We are indebted to Dr. C. C. Burlingame, President of the Institute of Living, for the generous gift of a new type of electrotherapy equipment, devised by Dr. Liberson, which is being used to good advantage. In connection with the Psychology Department of the University of Western Ontario, special psychological studies are being made of patients treated with different types of equipment.

While electrotherapy is given more prominence than other therapies at this time, we endeavour to keep in mind that it is only one therapy, and that all staff and all our therapies combine for the welfare of the patient. Psychotherapy, the nursing service, occupational and recreational therapy, dietetics, surgery, dentistry, gynaecology, ophthalmology and otolaryngology, medicines, arsenicals are all used for their respective values.

#### Staff, Administration and Buildings

In this, the first full year after the cessation of hostilities, the hospital has been returning to a peacetime basis. Practically all of our male staff, who enlisted, have returned to duty, and we are happy to have them with us again. Salaries have been revised upwards, but there are still acute shortages which interfere with the efficient functioning of the hospital, shortages in textiles, equipment, and particularly in nursing staff. There has been a steady reduction in the number of graduate and student nurses, and we have not been able to secure sufficient ward-aides for our needs. It has been increasingly necessary to use men attendants for certain duties in the women's division, such as the special clinics, ward cleaning, escort duties, etc.

There has been no material change in the School of Nursing during the year. A few more students are entering the School of Nursing and the affiliate groups continue. The graduation exercises were held on the evening of May 17, 1946, with Dr. G. E. Hall, Dean of the School of Medicine and President-designate, as the guest speaker.

The training of attendants and ward-aides has been put on a more definite basis this year.

No major changes structurally have been made during the year, but it is hoped that funds may be provided during the coming year for the modernization of those sections of the hospital most urgently in need of it. The usual painting and minor repairs have been done.

The kitchen in the Examination Building was closed during the year to permit its conversion into a suite of rooms for the admission of patients. We hope to complete this work shortly. A light delivery panel truck was purchased and is used for the delivery of food from the main kitchen to all other buildings.

A beauty parlor is being set up in the Recreation Building, the equipment being purchased from the canteen profits, and this should be available shortly.

As the year ends, we are disposing of all our hogs and closing our piggery.

The clinical laboratory has been modernized and equipped with better apparatus. A technician has been appointed.

An additional social worker, Miss Kellerman, was appointed to give her full time to aftercare. It is our opinion that the most needed improvement in treatment is more adequate aftercare. It is hoped additional social workers and public health nurses can be appointed during the coming year.

The Mental Health Clinic has been able to increase its activities, and its staff now consists of Dr. G. E. Jenkins, Miss June Cumberland, Psychologist, and Miss Rita Lindenfield, Social Worker.

On September 1, 1946, Mr. Humphrey Marshall, a member of our staff for 40 years, and Chief Supervisor for many years, superannuated. He has been succeeded by Mr. Arthur Davies, and Mr. Archie Wright has been appointed Assistant Chief Supervisor.

In closing, I should like to thank the managers of Loews Theatre and the Capitol Theatre for generous permission to take a group of 50 patients once a week to these theatres without charge. Our thanks are also due to many others who have sent books and magazines, or who have entertained the patients in other ways.

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## ONTARIO HOSPITAL, NEW TORONTO

DR. T. D. CUMBERLAND, Superintendent

### Care and Treatment of Patients

Owing to the shortage of staff, it has been very difficult to care for the patients. The out-door exercises have been curtailed because there is not sufficient staff to take charge of the patients outside the wards. The treatment of patients by electric and insulin shock could be extended if we had sufficient staff to do so.

### Staff, Administration and Buildings

The staff situation has improved a little amongst the attendants during the past year. A number who enlisted returned to their former positions at this hospital. There is a great shortage in the nursing staff, this applies to graduate nurses and ward-aides. A considerable percentage of the nurses are married women who are living in this district.

The necessary repairs to buildings were carried out during the year. There is no new construction.

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## ONTARIO HOSPITAL SCHOOL, ORILLIA

DR. S. J. W. HORNE, Superintendent

### Care and Treatment of Patients

This year showed an increase in the number of patients admitted, and the average daily population for the year was 2,372.

Lack of accommodation is still acute; this in spite of the 300-bed addition. There is a steady increase in applications, particularly for infants.

The health of the patients was good. There were no epidemics and very little physical illness during the year.

In spite of the overcrowding, particularly in the winter months, I feel that the patients of this institution received excellent care, adequate training and recreation. There are still many improvements that can and will be made when facilities and additional staff are available.

### Staff, Administration and Buildings

The training programme was carried on with a better organized and more varied programme. In this respect, we feel that we have been of some assistance to other institutions of this type in the Dominion, as during the year we had four teachers from the school in British Columbia, each of whom spent three months observing and obtaining instruction. In addition, we had the Superintendent of Nurses from the Weyburn School in Saskatchewan who spent two weeks with us obtaining instruction.

The University Classes in Occupational Therapy, Psychology, and Social Service were given clinics.

The staff is being brought up to pre-war status. Dr. C. V. Tisdale was transferred from Woodstock on March 15, 1946, as Clinical Director. Dr. W. G. Watts was appointed on June 1, 1946, Dr. M. L. Baragar on September 9, 1946, and Dr. C. C. Bracken on March 7, 1947. In addition to the medical staff, our male staff was brought up to standard, but there is still a lack of ward-aides and graduate nurses.

During the year the following members were honoured by the Quarter Century Club and presented with Quarter Century buttons: Miss M. West, Miss M. Thomson, Miss M. Chadwick, Mr. H. Allison, Mr. J. White, Mr. Geo. Smith, Mr. K. Cunningham, Mr. D. T. S. Thomson, Mr. J. E. Duncan, Mr. P. Leeking, and Mr. J. Gidman.

There was a concentrated effort put on repairs to the buildings both by the Department of Public Works and our own maintenance staff. The major project was transferring the Terrace Residence into an office section. The basement is used for Dispensary and drug store room. The first floor provides three offices, and the second and third floors were renovated to make two apartments for medical staff. Other work was done on roofs, eavestroughing, etc.

I would also like to add that we have received the utmost cooperation and assistance from the various offices in the Department of Health, and wish to express our thanks and appreciation to them at this time.

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## ONTARIO HOSPITAL, PENETANGUISHENE

DR. C. S. TENNANT, Superintendent

### Care and Treatment of Patients

An Electro-shock Unit was recently provided, and it is expected that patients will benefit considerably by the use of this form of treatment.

A careful and thorough investigation of all patients in the Criminal Insane Unit has been almost completed, with all cases being considered in conference of the medical staff.

The number of male patients employed both inside and outside has been increased, especially at the unit for the criminally insane, and the benefits of such a program are very apparent to all.

The number of patients in approved homes is somewhat less than it was a year ago, chiefly because suitable patients are not available in the hospital to replace those who have had to be returned from approved homes.

The number of patients on probation shows an increase.

The number of patients in residence shows a small decrease, although the total number of patients admitted remains the same as for the previous fiscal year.

### Staff, Administration and Buildings

We have found that the new attendants engaged, all veterans, have greatly improved our staff. Resignations amongst our registered nurses have increased, and we have not been able to replace them except with ward-aides. This situation will prove very serious if resignations continue and replacements are not made with nurses equally qualified as soon as possible.

A new electric range was provided at the unit for the criminally insane which has enabled us to establish a proper kitchen where all cooking for that unit can be done with the exception of the baking. The steam table was moved to the patients' dining room, and a cafeteria system has proved very successful. Patients are provided with better and hotter meals.

A canteen was established and this has proved very popular. As profits accrue both patients and staff will stand to benefit in different ways.

Dr. E. Aeberli, Assistant Physician, resigned on March 31, 1946.

Dr. W. Harvey Clare reported for duty as Assistant Physician on April 1, 1946.

Dr. W. H. Gauld reported for duty as Senior Clinical Specialist on April 15, 1946.

Mr. Lorne Livingstone, Chief Male Supervisor, was superannuated as from August 13, 1946. He was succeeded by Mr. Robert Trustham, who was been on the staff for many years, latterly as Supervisor and X-ray Technician.

Mr. Robert Trott was appointed Chief Male Supervisor at the Criminal Insane Unit, replacing Mr. Robert MacAulay.

Miss Mary MacMillan, Occupational Therapist, was superannuated as from October 31, 1946.

Mr. Fred Gowland, Baker, was superannuated on account of ill health, November 1946.

A course of training including the St. John Ambulance Course has been given to fifteen members of the male attendant staff. These men gave evidence of being very keen on improving their qualifications by such a course of instruction.

The Superintendent read a paper before the members of the Ontario Neuropsychiatric Association, and addressed members of service clubs both in Midland and Penetanguishene.

## ONTARIO HOSPITAL, ST. THOMAS

DR. D. O. LYNCH, Superintendent

### Care and Treatment of Patients

This, the first complete report since the re-opening of the hospital, is of interest in that it represents the entire re-organization and the building up of staff and therapy facilities necessary for the efficient operation of an active treatment centre. In this south-western corner of the Province, the hospital is now serving a useful purpose, and our admission rate, small at first but rapidly increasing, indicates the need for such community facilities.

At the beginning of the fiscal year, there were 383 patients in residence. On March 31, 1947, there were 1,053; first and readmissions accounted for 227, while transfers received amounted to 603, a total of 830 patients. In all, 1,214 patients were treated during the year, those discharged amounting to 62 while 52 are still on probation and there were 21 deaths. Twenty-one per cent of all admissions were over 60 years of age.

Transfers were received from the following hospitals:

Ontario Hospital, Toronto	— 147 patients
Ontario Hospital, New Toronto	— 131 patients
Ontario Hospital, London	— 43 patients
Ontario Hospital, Brockville	— 61 patients
Ontario Hospital, Kingston	— 60 patients
Ontario Hospital, Hamilton	— 132 patients
Ontario Hospital, Langstaff	— 16 patients
Ontario Hospital, Woodstock	— 8 patients
Ontario Hospital, Cobourg	— 4 patients
Ontario Hospital, Whitby	— 1 patient
Grand Total.....	603 patients

On January 1, 1947, female admissions were accepted from Essex County and at the close of the year, Lambton County was added to our admitting district. We are now accepting all patients from Norfolk, Elgin, Kent, Essex and Lambton Counties. At this date, the average monthly admission rate is 35.

With the increasing number of admissions and transfers, the female reception unit was opened on November 18, 1946, and the male infirmary on October 28, 1946. Pavilion 6 was also opened on November 20, 1946. Pavilion 5 and the female infirmary were re-opened early this month.

**Hydrotherapy:** These units are functioning satisfactorily in both male and female reception centres. Six continuous bath tubs are in use eight to ten hours daily and when the upper floors of the reception units are occupied, six more tubs will be available for treatment procedures. Hydrotherapy in the form of wet sheet packs is also utilized in both reception units and in pavilion 2-A where a number of more disturbed patients are domiciled.

There are no continuous bath tubs in the pavilions and patients requiring this form of therapy must be transferred to the reception units.

**Electroshock Therapy:** Since the opening of this unit a little over a year ago, 102 patients have been so treated, 66.2% recovering sufficiently to leave hospital. Our best results continue with the agitated depressions although a number of manic and schizophrenic patients have shown satisfactory response to treatment. A few selected patients have been given insulin at sub-coma dosage with improved physical results.

**Occupational Therapy:** On September 3rd, Miss Eileen Rider took over the duties of Occupational Therapist and shortly after was joined by Miss Jeanne Porter to organize and develop this important therapeutic work. Miss Bernice Flaherty, formerly of the C.W.A.C. and attached to Crumlin Military Hospital as Occupational Therapy Assistant, was added to the staff. Ideal work rooms and shops were soon located in Hut 18, a former R.C.A.F. temporary building, and at present the set-up provides for the various crafts in bright cheerful surroundings.

The male patients have their work room which is fitted for carpentry, hobbies and handicrafts with a finishing room adjoining. In the neighbourhood of 80 patients attend classes daily and one therapist is enabled to visit reception buildings and pavilions and encourage therapeutic effort among the "shut-ins". Card parties, entertainments and ward parties have been carried out throughout the winter, usually of an evening and provide much enjoyment and diversion for small groups. Ward picnics in the form of lawn suppers, which were started last summer, were continued under the supervision of the Therapy Department until late fall and proved very popular. These will be carried on again this summer.

Another extension of occupational therapy service is the library. A basement room under the female reception ward, decorated in bright colours, was selected. Comfortable furniture, floor lamps and a radio have been added. The patients obtain books on weekdays, and on Sundays privileged male patients make use of the room as a lounge. Its popularity is evident, and it will undoubtedly be utilized to a greater extent during the winter months. The supervision of this department under the Occupational Therapy Assistant is not difficult. An added feature of the library is a book cart made from a discarded tray truck, and which the engineer rebuilt to carry books and periodicals. A travelling library is thus provided, and newly admitted patients are assured of reading material within a few days of their entry to hospital.

**Recreational Therapy:** Large numbers of transfers, mostly chronic deteriorated patients, were observed with little to occupy their time during winter months, and this prompted the development of organized recreation. Started several months ago, four classes of male patients were selected for one hour's P.T. daily. Well over 100 patients have received the benefits of calisthenics, and later organized group activities such as volleyball, indoor hockey, etc., and as a result we have been able to recruit many patients formerly considered "bench warmers" for the occupational group employed on farm and garden. The equipment necessary to establish these classes has been relatively inexpensive, and perhaps the most enthusiastic participant is the recreational instructor, Mr. W. Capern. Mr. Capern was previously in charge of organized recreation with the R.C.A.F. in England, and is well qualified for his duties.

Other patients' recreational activities developed during the fall and winter months, and usually held weekly in the Amusement Hall, have been: dances, card parties, band concerts, a variety show, motion pictures, and bingos. Movies and dances are still the most popular.

In connection with patients' activities, it may be of interest to note the enthusiasm by both patients and staff when the canteen was opened recently. This is located in the Recreation Hall, and is under the management of Mr. Albert Noviss of the attendant staff. The patients require no encouragement to spend their pin money, and already receipts are very gratifying. Accrued profits will do much towards the purchase of additional equipment for the enjoyment of patients and staff.

It has also been possible to establish beauty parlor service for our female patients. Such services are appreciated by our patients, and before entertainments and dances, the beautician is very much in demand. We have found too that a little personal attention to the coiffure, following a course of electroshock therapy, is an added stimulus to the patient's well being.

#### **Staff, Administration and Buildings**

In order to properly care for the harvest of vegetables, a new root cellar was started, the site chosen near the garden south of the hospital. A building of brick and tile construc-

tion is rapidly nearing completion and will be available this fall for our root crop. A second root cellar will probably be required in the near future.

Through the cooperation of Professor J. A. Weall, Horticulturist at the Ontario Agricultural College, Guelph, a survey of the hospital grounds was made and plans completed towards a landscaping program. It is felt the entire project will take 8 to 10 years to finish but the end result should justify the time and expense entailed. A start was made last fall with the planting of evergreens about the administration building, and 6 large trees were winter moved from a nursery in Toronto. Tulip beds were also placed on the lawns in front of the offices and the appearance from the highway should be very pleasing this summer. We were also fortunate in obtaining some 8,000 seedlings from the Saint Williams Reforestation Depot and these have been utilized to establish our own nursery. It is our intention to add each year until the stock is of sufficient size to utilize for hedges, wind-breaks, Christmas evergreens etc.

**STAFF.** The medical staff appointed when the hospital was re-opened is unchanged. Other members have been appointed to the hospital staff as follows:

Mr. W. J. Irvine	Chief Supervisor
Mr. C. F. Gee	Assistant Chief Engineer
Mrs. Florence Martin	Dietitian
Miss M. Weldon	Assistant Dietitian (Transferred to Ontario Hospital, Kingston)
Mrs. F. Winrow	Chef
Miss Eileen Rider	Occupational Therapist
Miss Jeanne Porter	Assistant Occupational Therapist
Mr. Percy Shackleton	Senior Clerk and Assistant to the Bursar (Transferred to Head Office, March 31, 1947)
Mr. John H. Daugharty	Senior Clerk (Transferred from Head Office)

**Organization of Civil Service Branch:** Last August, a local branch of the Civil Service Association was formed under the Presidency of Mr. W. E. Van Dusen. The organization is a most flourishing one and at present has a membership of 191. The Association held dances, several card parties, and a corn roast, all of which were very successful. The branch continues to encourage activities in the sports' field, and a softball team is being entered in the local league this summer. The recreation hall has been turned over to the staff during the evenings, and with the canteen in operation, badminton, table tennis, etc. are becoming very popular.

**Medical Group Meetings:** Early last winter, to stimulate professional interest, it was decided to hold monthly medical group meetings. In all, four were held. In February, we entertained the local practitioners and the psychiatric staff from Westminster Hospital. These meetings are always of interest, particularly where an interchange of ideas and the discussion of common problems is possible. It is our intention to continue such activities next fall.

**Staff Presentations:** The following papers and addresses were given during the year by the members of the medical staff:

Dr. D. O. Lynch	—Treatment of Epilepsy	—Group Medical Meeting
	—The value of Psychiatry in the Army	—Lions Club, St. Thomas
	—The Mental Hospital in the Community	—Knights of Columbus, St. Thomas
	—Conserving our Mental Health	—Couples' Club, United Church, Aylmer, Ontario
	—Mental Health	—So Ed Club, St. Thomas
	—The Role of the Psychiatrist in the Community	—Knights of Columbus, Ingersoll
	—Conserving our Mental Health	—Kinsmen's Club, St. Thomas
Dr. J. R. McGeoch	—Bromide Intoxication	—Group Medical Meeting
Dr. T. A. Sweet	—Electroshock Therapy	—St. Thomas Medical Association
	—Modern Concepts of Preventive Psychiatry	—County Teachers' and Parents' Association, St. Andrew's United Church, St. Thomas
	—Modern Psychiatric Concepts and Treatment	—Lions Club, St. Thomas
	—Importance of Mental Health	—Married Couples' Association, Grace United Church, St. Thomas



- Dr. O. J. Stewart —Newer Concepts in the Treat- —St. Thomas Medical Association  
 —ment of Neurosyphillis  
 —Mental Health —Ladies Aid, St. Andrew's United  
 Church, St. Thomas
- Dr. K. M. McGregor—Tuberculosis Program in —Group Medical Meeting  
 Ontario Hospitals

In spite of the shortage of trained staff, it has been possible to obtain nurse-aides and attendants in sufficient numbers to carry on the work of the hospital and develop therapy procedures. To date, we have completed four preliminary courses of instruction to both male and female ward staffs. Over 80% now have received instructions comprising 27 lectures and the increased knowledge and more efficient handling of patients has amply rewarded our efforts. One might also remark in passing that the last salary revision has encouraged graduates to apply and at present we have 23 in positions of responsibility.

In concluding, I would like to express my sincere thanks to the entire staff for their earnest cooperation. Without their loyal assistance and advice, the re-organization would have been impossible.

## ONTARIO HOSPITAL, TORONTO

DR. S. R. P. MONTGOMERY, Superintendent

### Care and Treatment of Patients

In spite of difficulty in obtaining sufficient ward staff, the care and treatment of patients has continued at high level. Four hundred and sixty patients were admitted or received on transfer, and 531 were either discharged, died, or transferred to other hospitals.

Group psychotherapy has been carried on over the past year, each of the medical staff participating, and it has proved very beneficial.

Excellent results are being obtained in the Fever Therapy Unit. Electroshock treatment has been extended and at the present time, a room has been prepared for a second shock machine on the Men's Service.

During the year, 68 men and 110 women making a total of 178 persons were discharged from the hospital. Sixty-one men and 57 women died. The old age group accounts for a considerable proportion of these deaths, and our present population contains 393 persons over sixty years of age. This of necessity adds to the nursing problem because many of these older people are bedridden. Naturally, this old age group affects the remission rate, and somewhat decreases the nursing care available to younger patients.

Many of the patients treated with fever are returned to their own hospitals, ready for a trial in the community, it being felt that it is wiser to probate them nearer home. This naturally decreases somewhat the remission rate here.

Our Consultant Staff: Dr. R. J. W. Brooks, Medicine; Dr. W. W. Barraclough, Neurology; Dr. C. A. Rae, Ear, Nose and Throat; Dr. H. W. Johnston, Gynaecology, and Dr. Burns Plewes, Surgery, have been giving excellent service. Dr. A. J. Elliott, Ophthalmology, has done excellent work in filling a long felt need. It is felt that a word of gratitude for the unflinching service given the hospital by the consultants is very definitely warranted.

During the year, more patients were employed in useful occupations than in the past. Such employment as care of garden, grass cutting, care of flower beds, painting, wall washing, laundry and kitchen work, mechanical trades, etc., were all used to advantage.

On the Women's Service, laundry, cleaning, sewing, mending, hairdressing and occupational therapy were useful adjuncts.

At the end of the fiscal year, there were 33 patients in boarding homes. The social worker has had great success in placement in occupations so that patients have re-established themselves in the community. The boarding homes have been regularly visited by one of the senior physicians.

Probationary patients have been seen by our social worker and some have visited the hospital for further talks with the medical staff.

### Staff, Administration and Buildings

In the painting programme, several wards were painted. The four verandahs on the corners of the hospital were each given two coats of paint, which has improved the external appearance of the building considerably. The Public Works Department carried out some building repairs in the main portion of the hospital, particularly brickwork and cornices. Some repairs were made to roofs, although this project was not completed.

Dr. S. M. Colthart, resigned on April 27, 1946.

Dr. G. C. Ferrier returned from active service with the army and was transferred from the Ontario Hospital, Whitby, May 15, 1946.

Dr. M. J. MacLean was appointed to the staff on July 1, 1946, following service with the R.C.A.M.C.

Dr. A. Miller was appointed to the staff on July 8, 1946, following discharge from the R.C.A.M.C.

Dr. W. C. Brown discontinued his service as part-time medical officer on August 31, 1946.

Dr. A. C. DeMille terminated his service as dental surgeon at this hospital on May 30, 1946.

Dr. J. W. Corbett was transferred to this hospital from the Ontario Hospital, Hamilton, on June 1, 1946, as dental surgeon, and resigned on July 18, 1946.

Dr. E. G. Sinclair returned from active service with the army and was transferred from the Ontario Hospital, Whitby, on August 1, 1946, as dental surgeon.

Mr. W. J. Morrow, Chief Male Supervisor of this hospital from April 4, 1921, was superannuated because of ill health on April 3, 1946. His untimely death on March 15, 1947, came as a distinct shock to his many friends and co-workers at the hospital.

Mr. John Boyd, who joined the staff on December 15, 1926, was appointed as Chief Male Supervisor on April 1, 1947.

Courses for both ward-aides and attendants will continue, and have been participated in with great interest.

Papers by Drs. H. K. Moir and M. A. Fischer were presented and published through the Ontario Neuropsychiatric Association:

“Electroshock as an Adjunct in the Treatment of Neurosyphillis”

Dr. H. K. Moir

“Some Clinical, Serological, Chemotherapeutic and Prognostic Observations in a Group of General Paretic Patients”

Dr. M. A. Fischer

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## ONTARIO HOSPITAL, WHITBY

DR. D. R. FLETCHER, Superintendent

### Care and Treatment of Patients

We have had an extremely busy year. We admitted a total of 640 patients, including transfers received, and of that number, 366 were females, making a total of over one patient every day, including Sundays, going into our women's ward, where we have very rarely been able to have more than one nurse on duty.

Our discharge rate was again roughly 70%, which still keeps us in the forefront of hospitals of this class anywhere. One hundred and twenty-six patients were admitted during the year on voluntary application, and several more would have come by that method had they been allowed to do so by their physicians, which indicates, I think, a change in the attitude of the general public toward our hospitals. The increasing pressure of the old age group upon our facilities is evidenced by the fact that we admitted 71 patients over seventy years of age, and this had its effect upon our death rate, which was again high, about half of the deaths having less than six months residence in hospital.

The staff problem remains very acute, especially on the female side, although we have done our utmost to attract intelligent women to this service. Our boarding-out group remains stationary, and although workers are not now at the premium they were some time ago, Mrs. Holliday, our Social Service Nurse, has succeeded in finding remunerative employment for a substantial number. Our group therapy with our alcoholics, and with the mentally ill population, has continued throughout the year, and while it is difficult to assess results, the interest shown by questions and otherwise is gratifying. Our vocational groups are functioning well, and the psychotherapeutic effort with shock therapy is progressing favourably, and it is our belief that these two forms of therapy should go hand in hand. Our ambition is to have every patient on an active therapeutic programme.

#### Staff, Administration and Buildings

The remainder of our staff who were in the armed forces have been welcomed back and are doing good work. We have reorganized our training course for the nursing staff and the response has been most gratifying. At the present time we have 24 employees taking this course, and the results of the examinations show that they are not only interested but working hard, and I am certain that the results of their efforts will be shown by increased efficiency of treatment as time goes on.

We regret to announce the death of Raymond North as a direct result of his overseas service. Mr. Len Gillard was superannuated on account of ill health. We added to our staff Dr. J. P. Grant and Dr. D. M. Wickware. Miss Christine Robertson resigned on February 23, 1947, having married, and we are left without a dietitian in the meantime. Mrs. William Ruddy, who was my secretary for several years, resigned and moved to Peterborough to be with her husband. The staff this year revived the children's Christmas party, which had been discontinued for some years, and the party was a huge success.

Owing largely to the difficulty of obtaining materials, only necessary repairs were carried out during the year.

In conclusion, I would pay tribute to the members of the nursing staff and their staff who have carried on under tremendous difficulties on account of the lack of numbers throughout the year.

Our boarding-out hostesses have been faced with rising costs and must have found it very difficult to carry on, but none of them has left us on this account. The local press and citizens generally have given us that support which in this district we have almost been led to consider our right, so consistent is it.

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## ONTARIO HOSPITAL, WOODSTOCK

DR. E. A. CLARK, Superintendent

#### Care and Treatment of Patients

During the past year, there was a moderate increase in the total number of patients under treatment, but the resident population on March 31st was identical with that one year ago. Practically all the increase in patient movement occurred in the Tuberculosis Division, and resulted from a rather sharp increase in the number of transfers received, and the number transferred to other hospitals. The majority of the patients received from other hospitals were for observation because of suspect tuberculosis. No increase in the number of residents can be expected, as the hospital is filled to such a point as to make further additions to the bed capacity a physical impossibility.

The value of the programme, whereby suspect, as well as active cases of tuberculosis are admitted for observation, is borne out by the rapidly decreasing number of cases of new disease discovered annually in other Ontario Hospitals. In 1940, new cases totalled 137, while in the year just ended, only 57 were found on x-ray surveys.

During the year, a subsidized laboratory, with a staff of four technicians, was opened at the hospital, and this new department is equipped to carry out practically all laboratory procedures. The volume of work has grown very rapidly, and services are extended to all the surrounding municipalities, including hospitals, sanatoria and county health units. Arrangements have been virtually completed to introduce electroshock therapy for use among selected cases in the Tuberculosis Division, and this additional therapeutic measure will be in operation within the next few months.

**Staff, Administration and Buildings**

The total staff, on a numerical basis, is at a fairly adequate level, but the over-all picture is far from being satisfactory due to the dearth of qualified applicants in various specialized fields. Graduate nurses are still unobtainable, and the occupational therapy departments are very much under-staffed. Female employees in all classifications are most difficult to secure, and, as a result the female services in both divisions of the hospital are working under great difficulties.

No major construction was undertaken during the year, and the difficulty of securing essential materials still creates a constant problem with reference to any major maintenance projects. In spite of this, a considerable amount of work was completed during the year by the artisan staff.

# REPORT OF ONTARIO HOSPITALS' CHEST CLINIC

FOR THE FISCAL YEAR ENDING MARCH 31st, 1947

The work of this Clinic in the control of tuberculosis among patients and staff of the Ontario Hospitals has continued according to the plan described in the report for the fiscal year ending March 31st, 1938.

The table\*, "Report of Work by Ontario Hospitals' Chest Clinic" indicates the volume of work carried out during the year. It is noted in the "Totals" on this table that the "Number of New Cases Advised for Treatment", both staff and patients, is appreciably less and that the actual work performed has definitely increased over the previous year.

As previously, all mentally ill patients with active tuberculosis have been admitted immediately to Woodstock. While the majority come from other Ontario Hospitals, there are no restrictions or qualifications concerning admission, other than residency in Ontario, and cases are admitted from sanatoria, general hospitals, private homes, etc. For the fiscal years ending March 31st from 1940 to 1947, the numbers recommended for admission to the Tuberculosis Unit from Ontario Hospitals because of active pulmonary tuberculosis have been respectively 137, 99, 90, 79, 73, 62, 69, and 57. It is encouraging to note that there has been a steady average decrease in the number of active cases, and also that the number in the past year has reached a "new low".

In an effort to remove potential sources of infection from Ontario Hospitals, about three years ago a program was begun, by which all patients with questionably active or suspect tuberculosis, who previously had been cared for on the Chest Observation Wards, were transferred to the Tuberculosis Unit for further investigation. This program was completed early in this fiscal year. In order to accept these patients, it has been necessary, to transfer patients with minimal arrested tuberculosis from the Tuberculosis Unit to other Ontario Hospitals.

During the past year, 1,464 staff applicants were examined radiologically. Of these 3 or 0.2% were considered unsuitable for employment because of pulmonary tuberculosis either active or questionably active, and 250 or 17.1% were accepted with reservations because of abnormal chest x-ray markings, possibly but not necessarily tuberculous. These were accepted for temporary employment, and are further investigated, within six months of commencing work. The remaining 1,211 or 82.7% were considered suitable for employment without reservations as far as chest x-ray was concerned. (In previous reports the group unsuitable for employment reached more than 0.6% and those accepted with reservations more than 20% in the mid and latter war years. This was probably accounted for to some extent by the fact that older persons and those not medically fit for the armed forces were applying for positions.)

Three thousand, five hundred and fifty-nine (3,559) patient admissions were examined radiologically. Of this number 22 or 0.6% were found to have active pulmonary tuberculosis and were, therefore, recommended for transfer to the Tuberculosis Unit, and 11 or 0.3% were recommended for isolation and further investigation also in the Tuberculosis Unit because of questionably active or suspect tuberculosis. Also 36 or 1.1% were recommended for temporary isolation in their parent hospital and repeat x-ray in one month because of pneumonia of unknown etiology (not suspected of tuberculosis). In addition 442 or 12.4% were placed on casual observation because of abnormal chest x-ray markings, possibly but not necessarily tuberculous in nature. The remainder 3,048 or 85.6% had normal films.

On March 31st, 1947 there were 603 patients in the Tuberculosis Unit at Woodstock under treatment or undergoing investigation with respect to pulmonary tuberculosis. This total included 342 males and 261 females and represented all the known active or suspect cases of pulmonary tuberculosis in the Ontario Hospitals.

A further sub-division of the patients under treatment in the Tuberculosis Unit is presented in the following table which indicates the present classification with reference to tuberculosis. These figures change frequently as a result of recheck examinations but the table is of interest in showing an approximation in the tuberculous status of patients in residence. Patients who are classified as having "quiescent" tuberculosis are on part time exercise, and those classified as having "probably arrested" disease are for the most part on full exercise, and depending on their next examination, their classification, may be altered; if improved they will be classed as having "arrested" tuberculosis. The "ar-

\*Table No. 41. Page 102.

rested" group have been on exercise for at least 6 months without showing any radiological changes. Patients whose tuberculosis is classified as other than "arrested" and whose mental condition has improved sufficiently are transferred to a sanatorium for further treatment of their chest disease.

Sex	Active	Suspect and Act. Quest.	Quiesc.	Prob. Arrested	Arrested	Non Pul- monary	TOTAL
Male .....	90	45	47	61	86	13	342
Female .....	84	12	32	83	47	3	261
Total .....	174	57	79	144	133	16	603

NOTE:—Table G. (Page 130) of the Tuberculosis Unit Report gives information similar to the above and is further subdivided for age groups and extent of disease.

In cases of Ontario Hospital employees who develop tuberculosis, this clinic performs or arranges for re-examinations during their convalescence following discharge from sanatoria and after their return to duty. The clinic also performs artificial pneumothorax refills upon such employees who require these treatments and who live within reasonable distance of Woodstock. There is close co-operation between the Division of Tuberculosis Prevention and this clinic with regard to "post-sanatorium care" of members of Ontario Hospital Staff.

There has been no change in the clinical staff since the report of one year ago. The gradually increasing patient population and personal and the re-opening of the Ontario Hospital, St. Thomas has resulted in an increasing load superimposed on a schedule already filled to capacity. However, it still has been possible to arrange for a complete annual survey and semi-annual recheck at each Ontario Hospital within the year. Dr. Lois E. Kent has continued very ably to conduct the surveys and rechecks up to the present, but the increasing volume of work will necessitate additional clinical staff as soon as available.

The continued assistance and co-operation of the Superintendents and staffs of the various Ontario Hospitals has been of great help in the completion of this work.

Although there is now a quorum on the staff of the Chest Clinic and Tuberculosis Unit to decide on problem cases, and it is, therefore, unnecessary to consult the Special Chest Board as frequently as previously, the members of the Chest Consultant Board, Dr. G. C. Brink, Dr. A. R. Riddell, Dr. K. M. Shorey and other Clinicians in the Division of Tuberculosis Prevention have continued to take a very active interest in this service, and their assistance is deeply appreciated.



# ONTARIO HOSPITAL STATISTICS ANNUAL REVIEW

FISCAL YEAR ENDING MARCH 31, 1947

A. H. SELLERS, B.A., M.D., D.P.H., MEDICAL STATISTICIAN

This Review presents a general analysis of data derived from the detailed tables included in the Eightieth Annual Report of Ontario Hospitals for the fiscal year ending March 31, 1947, and in the Reports for preceding years. It is designed to focus attention on some of the essential current facts and trends.

## Trends in Patient Population

The numbers of patients in residence and patients under supervision together with the corresponding rates per 100,000 population in each case, for the period from 1933 to 1947, inclusive, are given in Table I.

TABLE I  
TRENDS IN PATIENT POPULATION—ONTARIO HOSPITALS  
1933-1947

END OF FISCAL YEAR	IN RESIDENCE*		ON BOOKS†	
	Number	Rate‡	Number	Rate‡
1933.....	11,578	325	12,236	343
1934.....	12,068	333	12,883	355
1935**.....	12,314	335	12,879	351
1936.....	13,142	356	13,868	376
1937.....	13,487	363	14,288	385
1938.....	14,056	377	14,736	395
1939.....	14,247	380	15,196	405
1940.....	14,314	379	15,283	405
1941.....	14,486	383	15,490	409
1942.....	14,728	389	15,712	415
1943.....	14,826	388	15,811	413
1944.....	14,922	377	15,866	401
1945.....	15,073	376	15,987	397
1946.....	15,471	382	16,414	405
1947.....	15,920	380	16,974	405

\*Includes patients boarded out from 1934.

†Includes patients in residence and on probation.

‡Per 100,000 population.

\*\*Five-month period.

On March 31, 1947, there were 16,974 patients of all classes under the supervision of Ontario Hospitals, an increase of 560 persons over 1946. This figure represents a rate of 405 patients under supervision for each 100,000 in the general population, or approximately one person in 247. The number of patients actually in residence in Ontario Hospitals on March 31, 1947, was 15,920, an increase of 449 over the preceding year. This is equivalent to a rate of 380 patients in hospital per 100,000 population, or approximately one person in 263.

### Patients on Probation and in Boarding Homes

The relationship between the number of patients on probation, the number in boarding homes, the number in residence, and the total number on the books, for each of the past ten years, is given in Table II.

TABLE II  
PATIENT POPULATION—ONTARIO HOSPITALS  
1938-1947  
Number of Patients on March 31

END OF FISCAL YEAR	Patients in Residence		Patients on Probation		Patients Boarded Out		TOTAL ON BOOKS*
	Number	Per Cent	Number	Per Cent	Number	Per Cent	
1938.....	13,574	92.1	680	4.6	482	3.3	14,736
1939.....	13,746	90.5	940	6.2	501	3.8	15,196
1940.....	13,764	90.0	962	6.4	550	3.6	15,283
1941.....	13,981	90.3	986	6.4	505	3.3	15,490
1942.....	14,169	90.2	970	6.2	559	3.6	15,712
1943.....	14,264	90.2	960	6.1	562	3.6	15,811
1944.....	14,376	90.6	927	5.8	546	3.4	15,866
1945.....	14,551	91.0	895	5.6	522	3.4	15,987
1946.....	15,000	91.5	909	5.6	471	2.9	16,414
1947.....	15,453	91.2	1,026	6.0	467	2.8	16,974

\*Includes patients on elopement and not discharged.

On March 31, 1947, a total of 1,026 patients were on probation and 467 patients were under supervision in boarding homes. These two groups comprised 8.8 per cent of the total number of patients on the books. Both the absolute number and the proportion of patients in boarding homes (2.8) is the lowest recorded in the last ten years. The number of patients who are on probation is the highest recorded during the period.

### The Age Distribution of the Patient Population

The distribution of the resident patient population (including patients in boarding homes) by sex and age, is given in Table III. The distribution of the general population of Ontario as estimated for June, 1947, is included for comparison. Case rates per 1,000 population for each sex and age-group are also given.



TABLE III  
AGE DISTRIBUTION BY SEX—RESIDENT POPULATION AND  
GENERAL POPULATION OF PROVINCE

AGE	MALES			FEMALES		
	Estimated* Population 1947	Ontario Hospitals	Rate†	Estimated* Population 1947	Ontario Hospitals	Rate†
Under 5.....	190,647	15	0.08	183,004	7	0.04
5-9.....	168,971	138	0.82	163,197	91	0.56
10-14.....	154,613	253	1.64	149,363	157	1.05
15-19.....	166,328	399	2.40	160,737	359	2.23
20-24.....	174,082	477	2.74	169,368	413	2.44
25-29.....	168,043	542	3.23	163,084	471	2.89
30-34.....	164,685	702	4.26	157,476	617	3.92
35-39.....	151,513	725	4.79	144,834	666	4.60
40-44.....	140,205	810	5.78	130,160	745	5.72
45-49.....	126,955	831	6.55	120,002	782	6.52
50-54.....	114,835	769	6.70	110,637	784	7.09
55-59.....	102,148	665	6.51	99,110	744	7.51
60-64.....	86,388	588	6.81	83,524	640	7.66
65-69.....	66,628	464	6.96	69,106	500	7.24
70-74.....	47,123	311	6.60	51,608	417	8.08
75-79.....	28,961	170	5.87	33,929	282	8.31
80-84.....	14,438	92	6.37	18,099	137	7.57
85-89.....	5,444	40	7.35	7,336	56	7.63
90-94.....	1,301	8	6.15	1,906	11	5.77
95 and Over....	202	—	—	365	2	5.48
Not Stated.....	—	22	—	—	18	—
ALL AGES....	2,073,510	8,021	3.87	2,016,845	7,899	3.92

\*As in "The Population of Ontario from 1921-1965" Division of Psychiatric Research, August, 1944.

†Rate per 1,000 population at ages.

On March 31, 1947, the resident male patient population was 8,021 and case rate per 1,000 males was 3.87, the corresponding figures for females were 7,899 and 3.92 respectively. The number of male patients exceeds the number of female patients in all age-groups below 50 years. Above that age there is a substantial female excess. The case rates for both males and females increase steadily with age and reach a maximum in the sixty year age-group for males and in the seventy year age-group for females.

Of all patients in residence on March 31, 1947, a total of 2,490 were 65 years of age or older, compared with 1,538 patients at these ages on March 31, 1937.

#### Age Distribution of First Admissions

A total of 2,713 patients (1,308 males and 1,405 females) were admitted for the first time to an Ontario Hospital during the year ending March 31, 1947. The distribution of

these first admissions by sex and age is presented in Table IV. First admission rates per 1,000 population are included in this table.

TABLE IV  
AGE DISTRIBUTION BY SEX—FIRST ADMISSIONS

AGE	MALES		FEMALES	
	Number	Rate†	Number	Rate†
Under 5.....	13	0.07	3	0.02
5-9.....	44	0.26	32	0.20
10-14.....	41	0.27	30	0.20
15-19.....	106	0.64	114	0.71
20-24.....	105	0.60	115	0.68
25-29.....	95	0.57	121	0.74
30-34.....	91	0.55	130	0.83
35-39.....	113	0.75	115	0.79
40-44.....	94	0.67	102	0.78
45-49.....	86	0.68	88	0.73
50-54.....	97	0.84	84	0.76
55-59.....	75	0.73	79	0.80
60-64.....	58	0.67	77	0.92
65-69.....	72	1.08	69	1.00
70-74.....	88	1.87	78	1.51
75-79.....	66	2.28	81	2.39
80-84.....	36	2.49	49	2.71
85-89.....	20	3.67	29	3.95
90-94.....	7	5.38	5	2.62
95 and Over.....	—	—	4	1.10
Not Stated.....	1	—	—	—
ALL AGES.....	1,308	0.63	1,405	0.70

†Rate per 1,000 population at ages.

The crude male first admission rate per 1,000 population is 0.63, and that for female first admissions, 0.70. The high first admission rates in the age-groups 65 years and over, compared with other age-groups, are noteworthy. Of all first admissions, 604 or 22.3 per cent were 65 years of age or older.

Data on first admissions and patients in residence for the two sexes combined, by five-year age-groups, are set out in Table V.

TABLE V  
FIRST ADMISSIONS AND PATIENTS IN RESIDENCE BY AGE  
YEAR ENDING MARCH 31, 1947

AGE	Estimated* Population 1947	FIRST ADMISSIONS		PATIENTS IN RESIDENCE†	
		Number	Rate‡	Number	Rate‡
Under 5.....	373,651	16	0.04	22	0.06
5-9.....	332,168	76	0.23	229	0.69
10-14.....	303,976	71	0.23	410	1.35
15-19.....	327,065	220	0.67	768	2.82
20-24.....	343,450	220	0.64	890	2.59
25-29.....	331,127	216	0.65	1,013	3.05
30-34.....	322,161	221	0.69	1,319	4.09
35-39.....	296,347	228	0.77	1,391	4.69
40-44.....	270,365	196	0.72	1,555	5.75
45-49.....	246,957	174	0.70	1,613	6.53
50-54.....	225,472	181	0.80	1,553	6.89
55-59.....	201,258	154	0.77	1,409	7.00
60-64.....	169,912	135	0.79	1,228	7.23
65-69.....	135,734	141	1.04	964	7.10
70-74.....	98,731	166	1.68	728	7.37
75-79.....	62,890	147	2.34	452	7.19
80-84.....	32,537	85	2.61	229	7.04
85-89.....	12,780	49	3.83	96	7.51
90-94.....	3,207	12	3.74	19	5.92
95 and Over.....	567	4	7.05	2	3.53
Not Stated.....	-	1	-	40	-
ALL AGES.....	4,090,355	2,713	0.66	15,920	0.89

\*Estimated as previously

‡Rate per 1,000 population at ages.

†Includes patients boarded out.

Both first admission and resident patient rates increase with age up to age 65. At this age-level, a further increase occurs in the first admission rate while the resident population rate, reflecting the influence of the "forces of mortality", turns downward.

#### Patients in Residence by Diagnosis

The volume of patients in the principal diagnosis groups in residence at the end of each of the past six years, is given in Table VI, together with corresponding rates per 100,000 general population.

TABLE VI  
 PATIENTS IN RESIDENCE BY DIAGNOSIS  
 1942-1947

DIAGNOSIS	1942	1943	1944	1945	1946	1947
	NUMBER OF PATIENTS					
Dementia Praecox.....	6,751	6,786	6,811	6,914	7,045	7,135
Manic-depressive Psychoses.....	1,113	1,092	1,095	1,029	1,040	1,081
Psychoses with Mental Deficiency.....	607	599	595	606	607	645
Senile Psychoses.....	415	428	453	489	501	536
Epileptic Psychoses.....	395	372	368	348	346	341
Mental Deficiency without Psychosis.....	2,979	3,040	3,125	3,194	3,370	3,484
G.P.I. and Cerebral Syphilis.....	551	522	529	522	556	560
Psychoses with Cerebral Arteriosclerosis.....	379	414	431	450	449	491
Involuntal Psychoses.....	265	268	243	251	240	243
Paranoia and Paranoid Conditions.....	235	239	211	223	221	213
Alcoholic Psychoses.....	56	59	62	65	73	79
Alcoholism without Psychosis.....	15	14	15	21	26	32
Epilepsy without Psychosis.....	566	577	555	560	564	603
All Other.....	401	416	429	401	433	477
<b>TOTAL.....</b>	<b>14,728</b>	<b>14,826</b>	<b>14,922</b>	<b>15,073</b>	<b>15,471</b>	<b>15,920</b>
DIAGNOSIS	RATES PER 100,000 POPULATION*					
Dementia Praecox.....	178.2	177.4	172.1	172.5	173.9	174.4
Manic-depressive Psychoses.....	29.3	28.6	27.7	25.7	25.7	26.4
Psychoses with Mental Deficiency.....	16.0	15.7	15.0	15.1	15.0	15.8
Senile Psychoses.....	10.9	11.2	11.4	12.2	12.4	13.1
Epileptic Psychoses.....	10.4	9.7	9.3	8.7	8.5	8.3
Mental Deficiency without Psychosis.....	78.6	79.5	79.0	79.7	83.2	86.2
G.P.I. and Cerebral Syphilis.....	14.5	13.6	13.4	13.0	13.7	13.7
Psychoses with Cerebral Arteriosclerosis.....	10.0	10.8	10.9	11.2	11.1	12.0
Involuntal Psychoses.....	6.9	7.0	6.1	6.3	5.9	5.9
Paranoia and Paranoid Conditions.....	6.2	6.2	5.3	5.6	5.5	5.2
Alcoholic Psychoses.....	1.4	1.5	1.6	1.6	1.8	1.9
Alcoholism without Psychosis.....	0.3	0.4	0.4	0.5	0.6	0.8
Epilepsy without Psychosis.....	14.9	15.1	14.0	14.0	13.9	14.7
All Other.....	10.5	10.5	10.8	10.0	10.7	11.7
<b>TOTAL.....</b>	<b>388.8</b>	<b>387.6</b>	<b>377.0</b>	<b>376.1</b>	<b>381.8</b>	<b>389.2</b>

\*1944-47—As in "The Population of Ontario from 1921 to 1965" Division of Psychiatric Research, August, 1944.

The resident population continues to increase in number each year, reaching the highest figure recorded to date (15,920) on March 31, 1947. While there has been little significant change in the resident case rate, this rate also reached a new all-time high in 1947 at 389 per 100,000 population.

An examination of Table VI reveals the essential absolute and relative changes in the several diagnostic categories. Most striking, in recent years, is the steady upward trend in the volume of patients with senile psychosis and psychosis with cerebral arteriosclerosis.

**First Admissions by Diagnosis**

Recorded trends in first admissions are subject to fluctuations which are independent of the actual *incidence* of mental disorders in the population. Despite this fact, first admission rates are the most satisfactory guide which we have as to trends in incidence, and the reservations which we formerly were accustomed to attach to them as such were possibly somewhat exaggerated.

The number of first admissions for each of the larger clinical groups, together with the corresponding rates per 100,000 population in each case, for the fifteen-year period 1933-1947, are given in Table VII.

TABLE VII  
FIRST ADMISSIONS BY DIAGNOSIS, 1933-1947\*

DIAGNOSIS	NUMBER OF PATIENTS														
	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947
Dementia Praecox.....	545	576	232	616	603	594	586	524	504	489	462	425	476	507	603
Manic-depressive Psychoses.....	303	306	110	394	334	325	316	274	306	274	284	297	290	315	315
Senile Psychoses.....	121	150	58	183	171	194	165	173	200	217	260	270	265	310	278
Mental Deficiency without Psychosis.....	299	309	73	369	373	385	404	332	279	337	331	341	244	353	334
G.P.I. and Cerebral Syphilis.....	142	140	49	145	124	147	128	129	125	102	89	116	103	99	89
Psychoses with Cerebral Arteriosclerosis.....	147	155	56	187	125	165	178	189	209	195	195	226	209	261	258
Psychoses with Mental Deficiency.....	96	67	86	54	54	52	52	50	52	64	42	54	39	42	55
Epileptic Psychoses.....	44	54	15	53	47	61	48	51	34	29	29	34	24	29	19
Involuntary Psychoses.....	52	57	23	73	72	90	95	134	91	98	105	101	112	109	148
Paranoia and Paranoid Conditions.....	53	42	22	52	39	43	51	43	40	32	34	28	35	43	39
Alcoholic Psychoses.....	24	19	9	62	39	36	42	42	32	37	43	20	20	34	54
Alcoholism without Psychosis.....	19	25	16	55	71	72	70	56	21	23	13	16	20	34	46
Epilepsy without Psychosis.....	85	65	29	101	56	76	95	107	88	78	69	70	64	62	83
All Other.....	268	276	118	391	396	397	382	362	332	327	303	271	255	322	392
TOTAL.....	2,198	2,241	837	1,767	2,536	2,636	2,612	2,541	2,304	2,370	2,259	2,269	2,158	2,520	2,713

RATE PER 100,000 POPULATION†

DIAGNOSIS	RATE PER 100,000 POPULATION†														
	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947
Dementia Praecox.....	15.7	16.2	15.5	17.1	16.3	15.9	15.6	13.9	13.4	12.9	12.1	11.0	11.9	12.5	14.7
Manic-depressive Psychoses.....	8.6	8.6	7.4	10.9	9.1	8.7	8.4	8.6	8.1	7.2	7.4	7.5	7.2	7.8	7.7
Senile Psychoses.....	3.4	4.2	3.9	5.1	4.6	5.2	4.4	4.6	5.3	5.7	6.8	6.8	6.6	7.7	6.8
Mental Deficiency without Psychosis.....	8.5	8.7	4.9	10.2	10.2	10.3	10.8	8.8	7.4	10.2	8.7	8.6	6.1	8.7	8.2
G.P.I. and Cerebral Syphilis.....	4.0	4.0	3.3	4.0	3.4	3.9	3.4	3.4	3.3	2.7	2.3	2.9	2.6	2.4	2.2
Psychoses with Cerebral Arteriosclerosis.....	4.2	4.4	3.8	5.2	3.4	4.4	4.7	5.6	5.0	5.5	5.1	5.7	5.2	6.4	6.3
Psychoses with Mental Deficiency.....	2.7	1.9	1.8	2.4	1.5	1.4	1.4	1.3	1.4	1.7	1.1	1.4	1.0	1.0	1.3
Epileptic Psychoses.....	1.3	1.5	1.0	1.5	1.3	1.6	1.3	1.4	1.2	0.9	0.6	0.9	0.6	0.7	0.5
Involuntary Psychoses.....	1.5	1.6	1.0	2.0	1.9	2.4	2.5	3.5	2.4	2.6	2.7	2.6	2.8	2.7	3.6
Paranoia and Paranoid Conditions.....	1.5	1.2	0.6	1.4	1.8	1.2	1.4	1.1	1.1	0.8	0.9	0.7	0.8	1.1	1.0
Alcoholic Psychoses.....	0.7	0.5	0.6	1.7	1.1	1.0	1.1	1.1	0.9	0.9	1.1	0.5	0.6	0.8	1.3
Alcoholism without Psychosis.....	0.5	0.7	1.1	1.5	1.9	1.9	1.9	1.5	0.6	0.6	0.3	0.4	0.5	0.8	1.1
Epilepsy without Psychosis.....	2.4	1.8	1.9	2.8	1.5	2.0	2.5	2.8	2.3	2.1	1.8	1.8	1.6	1.5	2.0
All Other.....	7.6	7.7	7.9	10.8	10.7	10.6	10.2	9.0	8.8	8.6	7.9	6.8	6.4	7.9	9.6
TOTAL.....	62.5	63.9	56.1	76.9	68.7	70.7	69.6	67.3	61.2	62.5	58.8	57.6	53.8	62.2	66.3

\*1933-34—Year ending October 31. 1935—Five months ending March 31. 1936-47—Year ending March 31.  
†1944-47—As in "The Population of Ontario from 1921 to 1965", Division of Psychiatric Research, August, 1944.

The volume of first admissions during the year ending March 31, 1947, (2,713) is the greatest recorded in any one year to date. The first admission rate for the year was 66.3 per 100,000 population, the highest rate recorded since 1940 when the rate was 67.3, and considerably higher than those during the war years when admissions were limited due to restriction of facilities. The most important changes in individual diagnosis categories, compared with last year, are the increases in dementia praecox (96 patients) and involuntional psychoses (39 patients).

### Discharge and Death Rates

The crude discharge rates and death rates, each expressed in terms of both numbers of total admissions during the year, and total numbers of patients treated during the year, for each Ontario Hospital, are given in Table VIII.

TABLE VIII  
DISCHARGE AND DEATH RATES BY HOSPITAL  
ONTARIO HOSPITALS—1947

HOSPITALS	Total Admissions	Total* Treated	DISCHARGES			DEATHS		
			Number	Per 100 Admitted	Per 1,000 Treated	Number	Per 100 Admitted	Per 1,000 Treated
Brockville.....	284	1,409	137	48.2	97.2	87	30.6	61.7
Cobourg.....	28	639	39	139.3	61.0	11	39.3	17.2
Fort William.....	88	198	60	68.2	303.0	8	9.1	40.4
Hamilton.....	555	2,170	329	59.3	151.6	115	20.7	53.0
Kingston.....	220	1,340	133	60.1	99.3	62	28.2	46.3
Langstaff.....	—	480	6	—	12.5	6	—	12.5
London.....	428	2,109	266	62.1	126.1	182	42.5	86.8
New Toronto.....	325	1,727	171	52.6	99.0	70	21.5	40.5
Orillia.....	218	2,518	91	41.7	36.1	32	14.7	12.7
Penetang.....	19	654	6	31.6	9.2	21	110.5	32.1
St. Thomas.....	227	1,188	62	27.3	52.2	21	9.3	17.7
Toronto.....	406	1,561	180	44.3	115.3	118	29.1	75.6
Whitby.....	609	2,500	424	69.6	169.6	152	25.0	60.8
Woodstock.....	109	1,440	79	72.5	54.9	91	83.5	63.2
ALL HOSPITALS	3,516	19,933	1,983	56.4	99.5	976	27.8	49.0
Previous Year....	3,252	19,249	1,825	55.9	94.8	1,010	31.0	52.5

\*Patients on the books March 31, 1947, plus discharges and deaths during the year.

The discharge rate for all hospitals combined, 56.4 per 100 patients admitted and 99.5 per 1,000 patients treated, is slightly higher than the corresponding rates for the preceding year, which were 55.9 and 94.8 respectively. The crude death rate for the year, 27.8 per 100 admissions and 49.0 per 1,000 patients treated, is slightly lower than that for the preceding year.

There are wider variations in the crude discharge and death rates in Table VIII among the several hospitals. These observed differences arise from differences in the age distribution and in the types of patients treated. Without correction for age and diagnosis distribution (standardization), neither the discharge rates nor the death rates for individual hospitals are comparable and such direct comparisons have no meaning.

### Discharge Rates by Condition on Discharge

The number of discharges and the discharge rates by condition on discharge, expressed both in terms of total admissions and total patients under care, are shown for each hospital in Table IX.

TABLE IX  
DISCHARGE RATES BY CONDITION ON DISCHARGE  
YEAR ENDING MARCH 31, 1947

HOSPITALS	Total Admissions	Patients Treated *	RECOVERED			IMPROVED			UNIMPROVED			WITHOUT MENTAL DISORDER			TOTAL		
			No.	Per 100 Admitted	Per 1,000 Treated	No.	Per 100 Admitted	Per 1,000 Treated	No.	Per 100 Admitted	Per 1,000 Treated	No.	Per 100 Admitted	Per 1,000 Treated	No.	Per 100 Admitted	Per 1,000 Treated
Brockville.....	284	1,409	54	19.0	38.3	53	18.7	37.6	12	4.2	8.5	18	6.3	12.8	137	48.2	97.2
Cobourg.....	28	639	-	-	-	1	3.6	1.6	-	-	-	38	135.7	59.4	39	139.3	61.0
Fort William.....	88	198	41	46.6	207.1	12	13.6	60.6	2	2.3	10.1	5	5.7	25.2	60	68.2	303.0
Hamilton.....	555	2,170	89	16.1	41.0	165	29.7	76.0	31	5.6	14.3	44	7.9	20.3	329	59.3	151.6
Kingston.....	220	1,340	52	23.6	38.8	47	21.4	35.1	15	6.8	11.2	19	8.6	14.2	133	60.4	99.3
Langstaff.....	-	480	-	-	-	3	-	6.3	3	-	6.3	-	-	-	6	-	12.6
London.....	428	2,109	90	21.0	42.7	137	32.0	64.9	17	4.0	8.1	22	5.1	10.4	266	62.1	126.1
New Toronto.....	325	1,727	88	27.0	51.0	51	15.7	29.5	8	2.5	4.6	24	7.4	13.9	171	52.6	99.0
Oroville.....	218	2,518	-	-	-	-	-	-	-	-	-	91	41.7	36.1	91	41.7	36.1
Penetang.....	19	654	-	-	-	1	5.3	1.5	-	-	-	5	26.3	7.7	6	31.6	9.2
St. Thomas.....	227	1,188	20	8.8	16.8	23	10.1	19.4	7	3.1	5.9	12	5.3	10.1	62	27.3	52.2
Toronto.....	406	1,561	80	19.7	51.2	81	20.0	51.9	5	1.2	3.2	14	3.4	9.0	180	44.3	115.3
Whitby.....	609	2,500	191	31.4	76.4	162	26.6	64.8	21	3.4	8.4	50	8.2	20.0	424	69.6	169.6
Woodstock.....	109	1,440	11	10.1	7.6	9	8.3	6.3	6	5.5	4.2	53	48.6	36.8	79	72.5	54.9
ALL HOSPITALS.....	3,516	19,933	716	20.1	35.9	745	21.2	37.4	127	3.6	6.4	395	11.2	19.8	1,983	56.4	99.5
Previous Year.....	3,262	19,249	639	19.6	33.2	750	23.0	39.0	90	2.8	4.7	346	10.6	18.0	1,825	56.0	94.9

\*Patients on the Books March 31, 1947, plus discharges and deaths during the year.

It is to be noted that the data on "condition on discharge" in this table refer to psychotic patients only. All other discharges are grouped under the caption "Without Mental Disorder", without reference to condition on discharge.

During the year ending March 31, 1947, a total of 1,983 patients were discharged from the books of Ontario Hospitals. Of this number, 395 were non-psychotic patients, and the remainder (1,588) were psychotic patients. Of the latter, 716 or 45.1 per cent were discharged as "recovered", 745 or 46.9 per cent were discharged as "improved" and 127 or 8.0 per cent were discharged as "unimproved".

The general "recovery" rate for psychotic patients discharged during the year, 35.9 per 1,000 patients treated, is slightly higher than that for the previous year.

The variations in the "recovered", "improved", and "unimproved" rates among the several hospitals are substantial. Part of this is due to differences in the age distribution and in the type of patients in the various hospitals, but differences in the interpretation of the term "recovered" and "improved" may also be a factor.

#### Discharge and Death Rates for Selected Psychoses

In order to throw some light on the recorded discharge and mortality data for individual clinical entities, discharge and death rates for six major groups of psychoses are given in Table X. Rates in this table are expressed as before both per 100 total admissions and per 1,000 patients under care for each diagnosis group.

TABLE X  
DISCHARGE AND DEATH RATES FOR SELECTED PSYCHOSES  
YEAR ENDING MARCH 31, 1947

PSYCHOSES	Total Admissions	Number* Treated	DISCHARGES			DEATHS		
			Number	Per 100 Admitted	Per 1,000 Treated	Number	Per 100 Admitted	Per 1,000 Treated
Senile†	557	1,549	65	11.7	40.8	457	82.0	286.7
Dementia Praecox	859	7,808	482	56.1	61.7	191	22.2	24.5
Manic-Depressive	578	1,606	464	80.3	288.9	61	10.6	38.0
General Paresis‡	111	663	52	46.8	78.4	51	45.9	76.9
Epileptic	31	378	25	80.6	66.1	12	38.7	31.7
With Mental Deficiency	81	690	31	38.3	44.9	14	17.3	20.3
Other Psychoses	654	1,527	469	71.7	307.1	104	15.9	68.1
Without Psychosis	645	4,658	395	61.2	84.8	86	13.3	18.5
<b>TOTAL</b>	<b>3,516</b>	<b>18,879</b>	<b>1,983</b>	<b>56.4</b>	<b>105.0</b>	<b>976</b>	<b>27.8</b>	<b>51.7</b>
Previous Year	3,262	18,306	1,825	55.9	99.7	1,010	31.0	55.2

\*Patients in residence, March 31, 1947, plus discharges and deaths during the year.

†Including psychoses with cerebral arteriosclerosis.

‡Including psychoses due to cerebral syphilis.

Ten per cent of all the patients under treatment during the year were discharged, and five per cent died. The discharge rate is by far the highest in the manic-depressive group, 28.9 per cent of the patients treated being discharged during the year. By contrast the discharge rate for the senile psychotic group amounted to only 4.2 per cent of the total patients treated during the year. In other specific diagnosis categories the discharge rate is also comparatively low, e.g. 6.2 per cent for dementia praecox, 6.6 per cent for epilepsy and 7.8 per cent for general paresis.



It is to be noted that the figures in the total row of Tables X and XI do not agree with those in other tables. This is due to the use of a slightly different base for "patients treated", arising out of lack of data on the diagnosis of patients on probation and on elopement, i.e. patients on the books but not in residence.

In the last analysis, discharge is a most satisfactory criterion of success in treatment, and analysis of discharge and death statistics by diagnosis, age, and sex can be extended profitably. In future years, as much useful data of this sort will be included in this Review as the program may permit. Due to the pressure of other statistical commitments, it has not been possible to include a review of the noteworthy trends in discharge rates by diagnosis, as planned for this year.

### Discharges and Deaths by Age

Data have already been presented on case frequency by age (Tables III, IV, V). The relationship between discharges and deaths at selected ages and the total number of admissions and the number of patients under treatment at those ages during the year, is illustrated by Table XI.

TABLE XI  
DISCHARGES AND DEATHS BY AGE  
YEAR ENDING MARCH 31, 1947

AGE GROUPS	First and Readmissions	Number* Treated	DISCHARGES			DEATHS		
			Number	Per 100 Admitted	Per 1,000 Treated	Number	Per 100 Admitted	Per 1,000 Treated
Under 15.....	164	685	18	11.0	26.3	6	3.7	8.8
15-24.....	492	2,010	340	69.1	169.2	22	4.5	10.9
25-34.....	615	2,783	414	67.3	148.8	37	6.0	13.8
35-44.....	605	3,417	410	67.8	120.0	61	10.1	17.9
45-54.....	518	3,623	373	72.0	103.0	84	16.2	23.2
55-64.....	429	3,061	273	63.6	89.2	151	35.2	49.3
65 and Over.....	691	3,257	153	22.1	47.0	614	88.9	188.5
Not stated.....	2	43	2	100.0	46.5	1	50.0	23.8
ALL AGES.....	3,516	18,879	1,983	56.4	105.0	976	27.8	51.7

\*Patients in residence, March 31, 1947, plus discharges and deaths.

During the year ending March 31, 1947, for every 100 patients admitted to Ontario Hospitals, 56 were discharged and 28 died. This leaves a residuum of 14, a figure which has been referred to as the "retention rate".

The variations with age in the discharge and death rates are striking. The discharge rates per 1,000 patients under treatment are highest in the age-groups 15-34 years, and lowest at ages under 15 and 65 years and over. In the age-group 15-24, 16.9 per cent of those under treatment were discharged during the year, at ages 25-34 years, 14.9 per cent of those treated were discharged. Discharge rates show a steady decrease with age in the age-groups above 15-24 years.

The specific death rate per thousand patients under treatment is lowest among patients at ages under 15 years, a group comprised largely of mental defectives, and increases progressively thereafter with increasing age. At ages 65 and over, deaths exceed discharges by four to one.

The crude death rate of the patient population is five times that of the general population of the Province (Table XII) but at all ages under 65 years the excess mortality is much greater.

**Principal Recorded Causes of Death**

The principal recorded cause of death for the Ontario Hospital patient population during the fiscal year ending March 31, 1947, are given in Table XII. Data for the Province as a whole are included for comparison.

TABLE XII  
 PRINCIPAL RECORDED CAUSES OF DEATH  
 ONTARIO HOSPITALS, 1946-47, AND ONTARIO 1946

CAUSE OF DEATH	ONTARIO HOSPITALS			PROVINCE		
	Number	Rate*	Per Cent	Number	Rate†	Per Cent
1. Diseases of the heart.....	297	15.7	30.4	12,648	3.1	31.8
2. Pneumonia and bronchitis.....	176	9.3	18.0	1,779	0.4	4.5
3. Diseases of the arteries.....	155	8.2	15.9	914	0.2	2.3
4. Intracranial lesions of vascular origin..	84	4.4	8.6	4,195	1.0	10.5
5. Tuberculosis (all forms).....	57	3.0	5.9	1,054	0.3	2.7
6. Cancer (all forms).....	42	2.2	4.3	5,414	1.3	13.6
<b>TOTAL 1-6.....</b>	<b>811</b>	<b>43.0</b>	<b>83.1</b>	<b>26,004</b>	<b>6.3</b>	<b>65.4</b>
<b>All other causes.....</b>	<b>165</b>	<b>8.7</b>	<b>16.9</b>	<b>13,754</b>	<b>3.4</b>	<b>34.6</b>
<b>GRAND TOTALS.....</b>	<b>976</b>	<b>51.7</b>	<b>100.0</b>	<b>39,758</b>	<b>9.7</b>	<b>100.0</b>

\*Rate per 1,000 under treatment (18,879).

†Rate per 1,000 population (4,101,000).

The *crude* death rate from all causes during the year ending March 31, 1947, was 51.7 per 1,000 patients under treatment compared with 55.2 for the preceding year. Of the 976 deaths among patients in Ontario Hospitals during the year 297 or 30.4 per cent were attributed to diseases of the heart, compared with 39.2 per cent in 1946 and 41.2 per cent in 1945. Pneumonia and bronchitis were responsible for 176 deaths or 18.0 per cent of the total and diseases of the arteries contributed 155 deaths or 15.9 per cent of the total deaths. Tuberculosis was responsible for 57 deaths or 5.9 per cent of the total, figures somewhat higher than last year.

The last twenty years have witnessed important changes in the mortality experience of Ontario Hospitals. Further data on mortality trends will be included in subsequent Annual Reviews, as opportunity permits.

**Comment**

This brief Review is intended to draw attention to certain of the salient points reflected by the data contained in the Eightieth Annual Report of Ontario Hospitals. A great deal of information not covered by this Review is included in the forty-one detailed tables which form the main body of the Report, as well as in the thirty-nine supplementary tables covering special fields of activity.

It is hoped that the ANNUAL STATISTICAL REVIEW may achieve its objective and that, in due course, it may be extended to bring into focus the more important highlights reflected by the great volume of detailed statistical data which are tabulated annually.



DETAILED  
STATISTICAL  
TABLES

TABLE No. 1  
DETAILED MOVEMENT OF PATIENT POPULATION  
April 1, 1946—March 31, 1947

POPULATION	TOTAL		BROCKVILLE		COBURG		FORT WILLIAM		HAMILTON		KINGSTON		LANGSTAFF			
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.		
1. Patients on Books, April 1, 1946:																
In Residence.....	7,603	7,400	15,003	542	1,094	513	513	116	116	827	797	1,624	555	544	1,099	422
In Boarding Homes.....	159	309	468	20	38	16	16	—	—	7	12	19	8	25	33	—
On Probation.....	340	589	909	24	68	78	78	3	3	47	86	133	19	33	52	6
On Elopement (not discharged).....	19	15	34	—	—	—	—	—	—	1	—	1	2	—	2	—
Total on Books.....	8,121	8,293	16,414	586	1,200	607	607	119	119	882	895	1,777	584	602	1,186	428
2. Admitted During Year:																
First Admissions.....	1,308	1,405	2,713	96	115	211	21	21	69	202	241	443	84	84	168	—
Readmissions.....	352	451	803	34	73	7	7	19	19	49	63	112	23	29	52	—
Transfers Received.....	731	364	1,095	11	20	15	15	6	6	22	8	30	6	7	13	78
Total Admitted.....	2,391	2,220	4,611	141	163	304	43	43	94	273	312	585	113	120	233	78
3. Total Under Care*.....	10,512	10,513	21,025	727	1,504	650	650	213	213	1,155	1,207	2,362	697	722	1,419	506
4. Discharged During Year:†																
Recovered.....	316	400	716	16	38	54	—	—	41	43	46	89	23	29	52	—
Improved.....	325	420	745	23	53	76	—	—	12	60	105	165	19	28	47	3
Unimproved.....	58	69	127	8	12	1	1	—	2	14	17	31	6	9	15	3
Without Psychosis.....	219	176	395	16	2	38	38	5	5	32	12	44	13	6	19	—
Died.....	460	516	976	30	57	87	11	11	8	55	60	115	23	39	62	6
Transferred.....	731	361	1,092	88	7	95	11	11	15	115	77	192	68	11	79	26
Total Discharged from Books*.....	2,109	1,942	4,051	177	142	319	61	61	83	319	317	636	152	122	274	38
5. Patients on Books, March 31, 1947:																
In Residence.....	7,853	7,600	15,453	473	1,032	512	512	127	127	772	778	1,550	516	539	1,055	462
In Boarding Homes.....	168	299	467	42	27	69	7	7	—	8	11	19	8	24	32	—
On Probation.....	361	665	1,026	35	49	84	70	3	3	56	101	157	18	37	55	6
On Elopement (not discharged).....	21	7	28	—	—	—	—	—	—	—	—	—	3	—	3	—
Total on Books.....	8,403	8,571	16,974	550	1,185	589	589	130	130	836	890	1,726	545	600	1,145	468
6. Daily Average Population in Residence.....	7,840	7,418	15,258	482	556	1,038	522	522	123	785	801	1,586	514	549	1,063	468
7. Daily Average Population on Books.....	8,324	8,489	16,813	534	626	1,160	601	129	129	851	912	1,763	545	612	1,157	472

\*These figures include transfers—actual numbers for all hospitals combined are 19,930 and 2,959.

†Elopement discharged (68) are included with ordinary discharges.

‡Excludes deaths on probation and elopement; these are included with ordinary discharges.

TABLE No. 1 (Continued)  
 DETAILED MOVEMENT OF PATIENT POPULATION  
 April 1, 1946—March 31, 1947

	LONDON		NEW TORONTO		ORILLIA		PENETANG		ST. THOMAS		TORONTO		WHITBY		WOODSTOCK	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
<b>POPULATION</b>																
1. Patients on Books, April 1, 1946:																
In Residence.....	774	1,536	683	696	1,156	965	2,121	365	247	612	60	323	383	807	843	1,650
In Boarding Homes.....	18	27	45	48	13	81	94	4	9	13	—	9	27	36	32	45
On Probation.....	72	69	141	28	45	73	36	27	63	3	6	—	62	106	168	17
On Elopement (not discharged).....	1	—	1	—	—	13	15	28	—	—	—	1	—	—	—	—
Total on Books.....	865	1,723	759	790	1,218	1,088	2,306	372	259	631	60	324	384	902	994	1,896
2. Admitted During Year:																
First Admissions.....	138	184	322	131	142	273	108	102	210	10	6	16	104	69	173	151
Readmissions.....	42	64	106	19	33	52	4	4	8	2	1	3	22	32	54	38
Transfers Received.....	18	4	22	30	10	40	3	1	4	16	1	17	371	232	603	39
Total Admitted.....	198	252	450	180	185	365	115	107	222	28	8	36	497	333	830	228
3. Total Under Care*.....	1,063	1,110	2,173	939	975	1,914	1,333	1,195	2,528	400	267	667	557	657	1,214	902
4. Discharged During Year																
Recovered.....	38	52	90	35	53	88	—	—	—	—	—	—	11	9	20	34
Improved.....	73	64	137	20	31	51	—	—	—	—	1	1	10	13	23	27
Unimproved.....	3	14	17	4	4	8	—	—	—	—	5	2	7	2	3	5
Without Psychosis.....	16	6	22	17	7	24	31	60	91	5	—	5	11	1	12	7
Died.....	76	105	182	34	36	70	21	20	32	7	14	21	61	57	118	76
Transferred.....	57	7	64	113	74	187	9	1	10	10	3	13	14	12	26	118
Total Discharged from Books*.....	263	249	512	223	205	428	51	82	133	22	18	40	66	43	109	249
5. Patients on Books, March 31, 1947:																
In Residence.....	741	753	1,494	634	665	1,299	1,228	998	2,226	372	238	610	466	587	1,053	622
In Boarding Homes.....	10	23	33	50	58	108	9	71	80	2	5	7	—	—	6	27
On Probation.....	49	85	134	32	47	79	30	37	67	4	6	10	25	27	52	24
On Elopement (not discharged).....	—	—	—	—	—	—	15	7	22	—	—	—	—	—	—	1
Total on Books.....	800	861	1,661	716	770	1,486	1,282	1,113	2,395	378	249	627	491	614	1,105	653
6. Daily Average Population in Residence.....	749	763	1,512	655	675	1,330	1,185	977	2,162	368	242	610	453	360	813	619
7. Daily Average Population on Books.....	827	868	1,695	735	780	1,515	1,254	1,118	2,372	377	254	631	392	481	873	648

\*These figures include transfers—actual numbers for all hospitals combined are 19,930 and 2,959.  
 †Elopers discharged (58) are included with ordinary discharges.  
 ‡Excludes deaths on probation and elopement; these are included with ordinary discharges.

TABLE No. 2  
MOVEMENT OF PATIENT POPULATION  
YEAR ENDING MARCH 31, 1947

HOSPITALS	To Population											
	FIRST ADMISSIONS			READMISSIONS			TRANSFERS RECEIVED			TOTAL ADDED TO POPULATION		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
BROCKVILLE.....	96	115	211	34	39	73	11	9	20	141	163	304
COBOURG.....	-	21	21	-	7	7	-	15	15	-	43	43
FORT WILLIAM.....	69	-	69	19	-	19	6	-	6	94	-	94
HAMILTON.....	202	241	443	49	63	112	22	8	30	273	312	585
KINGSTON.....	84	84	168	23	29	52	6	7	13	113	120	233
LANGSTAFF.....	-	-	-	-	-	-	78	-	78	78	-	78
LONDON.....	138	184	322	42	64	106	18	4	22	198	252	450
NEW TORONTO.....	131	142	273	19	33	52	30	10	40	180	185	365
ORILLIA.....	108	102	210	4	4	8	3	1	4	115	107	222
PENETANG.....	10	6	16	2	1	3	16	1	17	28	8	36
ST. THOMAS.....	104	69	173	22	32	54	371	232	603	497	333	830
TORONTO.....	151	152	303	38	65	103	39	15	54	228	232	460
WHITBY.....	170	248	418	87	104	191	17	14	31	274	366	640
WOODSTOCK.....	45	41	86	13	10	23	114	48	162	172	99	271
ALL HOSPITALS.....	1,308	1,405	2,713	352	451	803	731	364	1,095	2,391	2,220	4,611

TABLE No. 2 (Continued)  
MOVEMENT OF PATIENT POPULATION  
YEAR ENDING MARCH 31, 1947

HOSPITALS	FROM POPULATION																	
	DISCHARGED*			DIED†			TRANSFERRED TO OTHER HOSPITALS			ELOSERS DISCHARGED			TOTAL FROM POPULATION			CHANGE IN POPULATION		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
BROCKVILLE.....	57	78	135	30	57	87	88	7	95	2	-	2	177	142	319	-36	+21	-15
COBOURG.....	-	39	39	-	11	11	-	11	11	-	-	-	-	61	61	-	-18	-18
FORT WILLIAM.....	59	-	59	8	-	8	15	-	15	1	-	1	83	-	83	+11	-	+11
HAMILTON.....	145	180	325	55	60	115	115	77	192	4	-	4	319	317	636	-46	-5	-51
KINGSTON.....	55	72	127	23	39	62	68	11	79	6	-	6	152	122	274	-39	-2	-41
LANGSTAFF.....	5	-	5	6	-	6	26	-	26	1	-	1	38	-	38	+40	-	+40
LONDON.....	126	136	262	76	106	182	57	7	64	4	-	4	263	249	512	-65	+3	-62
NEW TORONTO.....	73	95	168	34	36	70	113	74	187	3	-	3	223	205	428	-43	-20	-63
ORILLIA.....	28	34	62	11	21	32	9	1	10	3	26	29	51	82	133	+64	+25	+89
PENETANG.....	5	1	6	7	14	21	10	3	13	-	-	-	22	18	40	+6	-10	-4
ST. THOMAS.....	36	25	61	15	6	21	14	12	26	1	-	1	66	43	109	+431	+290	+721
TORONTO.....	69	110	179	61	57	118	118	115	233	1	-	1	249	282	531	-21	-50	-71
WHITBY.....	191	229	420	76	76	152	20	16	36	4	-	4	291	321	612	-17	+45	+28
WOODSTOCK.....	38	39	77	58	33	91	78	27	105	1	1	2	175	100	275	-3	-1	-4
ALL HOSPITALS.....	887	1,038	1,925	460	516	976	731	361	1,092	31	27	58	2,109	1,942	4,051	+282	+278	+560

\*Discharges include 4 deportations.

†Does not include deaths on probation or elopement. These are classed as discharges.



TABLE No. 3  
 PATIENT POPULATION ON APRIL 1, 1946, AND MARCH 31, 1947

HOSPITALS	POPULATION APRIL 1, 1946														
	PATIENTS IN HOSPITAL			PATIENTS ON PROBATION			PATIENTS BOARDING-OUT			ELOPED AND NOT DISCHARGED			TOTAL ON BOOKS		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Brockville.....	542	552	1,094	24	44	68	20	18	38	-	-	-	586	614	1,200
Cobourg.....	-	513	513	-	78	78	-	16	16	-	-	-	-	607	607
Fort William.....	116	-	116	3	-	3	-	-	-	-	-	-	119	-	119
Hamilton.....	827	797	1,624	47	86	133	7	12	19	1	-	1	882	895	1,777
Kingston.....	555	544	1,099	19	33	52	8	25	33	2	-	2	584	602	1,186
Langstaff.....	422	-	422	6	-	6	-	-	-	-	-	-	428	-	428
London.....	774	762	1,536	72	69	141	18	27	45	1	-	1	865	858	1,723
New Toronto.....	683	696	1,379	28	45	73	48	49	97	-	-	-	759	790	1,549
Orillia.....	1,156	965	2,121	36	27	63	13	81	94	13	15	28	1,218	1,088	2,306
Penetang.....	365	247	612	3	3	6	4	9	13	-	-	-	372	259	631
St. Thomas.....	60	323	383	-	1	1	-	-	-	-	-	-	60	324	384
Toronto.....	641	576	1,217	23	57	80	9	27	36	1	-	1	674	660	1,334
Whitby.....	807	843	1,650	62	106	168	32	45	77	1	-	1	902	994	1,896
Woodstock.....	655	582	1,237	17	20	37	-	-	-	-	-	-	672	602	1,274
<b>TOTAL.....</b>	<b>7,603</b>	<b>7,400</b>	<b>15,003</b>	<b>340</b>	<b>569</b>	<b>909</b>	<b>159</b>	<b>309</b>	<b>468</b>	<b>19</b>	<b>15</b>	<b>34</b>	<b>8,121</b>	<b>8,293</b>	<b>16,414</b>

TABLE No. 3 (Continued)  
 PATIENT POPULATION ON APRIL 1, 1946 AND MARCH 31, 1947

HOSPITALS	POPULATION MARCH 31, 1947														TOTAL NUMBER OF PATIENTS ON BOOKS DURING YEAR			
	PATIENTS IN HOSPITAL			PATIENTS ON PROBATION			PATIENTS BOARDING-OUT			ELOPED AND NOT DISCHARGED			TOTAL ON BOOKS			M.	F.	T.
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Brockville.....	473	559	1,032	35	49	84	42	27	69	-	-	-	550	635	1,185	727	777	1,504
Cobourg.....	-	512	512	-	70	70	-	7	7	-	-	-	-	589	589	-	650	650
Fort William.....	127	-	127	3	-	3	-	-	-	-	-	-	130	-	130	213	-	213
Hamilton.....	772	778	1,550	56	101	157	8	11	19	-	-	-	836	890	1,726	1,155	1,207	2,362
Kingston.....	516	539	1,055	18	37	55	8	24	32	3	-	3	545	600	1,145	697	722	1,419
Langstaff.....	462	-	462	6	-	6	-	-	-	-	-	-	468	-	468	506	-	506
London.....	741	753	1,494	49	85	134	10	23	33	-	-	-	800	861	1,661	1,063	1,110	2,173
New Toronto.....	634	665	1,299	32	47	79	50	58	108	-	-	-	716	770	1,486	939	975	1,914
Orillia.....	1,228	998	2,226	30	37	67	9	71	80	15	7	22	1,282	1,113	2,395	1,383	1,195	2,528
Penetang.....	372	238	610	4	6	10	2	5	7	-	-	-	378	249	627	400	267	667
St. Thomas.....	466	587	1,053	25	27	52	-	-	-	-	-	-	491	614	1,105	557	657	1,214
Toronto.....	622	527	1,149	24	56	80	6	27	33	1	-	1	653	610	1,263	902	892	1,794
Whitby.....	790	857	1,647	62	136	198	33	46	79	-	-	-	885	1,039	1,924	1,176	1,360	2,536
Woodstock.....	650	587	1,237	17	14	31	-	-	-	2	-	2	669	601	1,270	844	701	1,545
TOTAL.....	7,853	7,600	15,453	361	665	1,026	168	299	467	21	7	28	8,403	8,571	16,974	10,512	10,513	21,025*

\*This figure includes 1,095 transfers. Actual number of patients under supervision or treatment during the year was 19,930.

TABLE No. 4  
MOVEMENT OF PATIENT POPULATION

PATIENT POPULATION	ALL HOSPITALS		BROCKVILLE		COBourg		FORT WILLIAM		HAMILTON		KINGSTON		LANGSTAFF		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
In Boarding Homes at beginning of year.....	159	309	468	20	18	38	-	16	16	7	12	19	8	25	33
Placed in Boarding Homes during year.....	138	226	364	44	29	73	-	5	5	6	2	8	-	5	5
Returned from Boarding Homes during year	101	224	325	22	20	42	-	13	13	5	3	8	-	6	6
Discharged while in Boarding Homes.....	28	12	40	-	-	-	-	1	1	-	-	-	-	-	-
Died while in Boarding Homes.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Remaining in Boarding Homes at end of year	168	299	467	42	27	69	-	7	7	8	11	19	8	24	32
Daily average in Boarding Homes.....	166	302	468	31	23	54	-	11	11	7	11	18	8	24	32
On Probation at beginning of year.....	340	569	909	24	44	68	-	78	78	47	86	133	19	33	52
Placed on Probation during year.....	1,206	1,758	2,964	64	96	160	-	152	152	137	226	363	51	90	141
Returned from Probation during year.....	635	793	1,428	16	28	44	-	125	125	41	56	97	18	31	49
Discharged while on Probation.....	546	857	1,403	37	62	99	-	34	34	86	152	238	34	54	88
Died while on Probation.....	4	12	16	-	1	1	-	1	1	1	3	4	-	1	1
Remaining on Probation at end of year.....	361	665	1,026	35	49	84	-	70	70	56	101	157	18	37	55
Daily average on Probation.....	380	666	1,046	25	45	70	-	80	80	57	99	156	18	35	53

IN BOARDING HOMES

ON PROBATION

TABLE No. 4—(Continued)  
MOVEMENT OF PATIENT POPULATION

PATIENT POPULATION	LONDON		NEW TORONTO		ORILLIA		PENETANG		ST. THOMAS		TORONTO		WHITBY		WOODSTOCK										
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.									
	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.									
In Boarding Homes at beginning of year . . . . .	18	27	45	48	49	97	13	81	94	4	9	13	—	—	9	27	36	32	45	77	—	—	—	—	
Placed in Boarding Homes during year . . . . .	12	31	43	10	30	40	1	42	43	1	1	2	—	—	12	46	58	52	35	87	—	—	—	—	
Returned from Boarding Homes during year . . . . .	19	35	54	8	21	29	5	50	55	3	5	8	—	—	5	39	44	34	32	66	—	—	—	—	
Discharged while in Boarding Homes . . . . .	1	—	1	—	—	—	—	2	2	—	—	—	—	—	10	7	17	17	2	19	—	—	—	—	
Died while in Boarding Homes . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remaining in Boarding Homes at end of year . . . . .	10	23	33	50	58	108	9	71	80	2	5	7	—	—	6	27	33	33	46	79	—	—	—	—	—
Daily average in Boarding Homes . . . . .	16	23	39	50	55	105	11	77	88	3	7	10	—	—	7	28	35	33	43	76	—	—	—	—	—
On Probation at beginning of year . . . . .	72	69	141	28	45	73	36	27	63	3	3	6	—	1	23	57	80	62	106	168	17	20	37	—	—
Placed on Probation during year . . . . .	141	225	366	60	104	164	298	209	507	6	10	16	54	65	80	167	247	173	323	496	112	91	203	—	—
Returned from Probation during year . . . . .	57	97	154	9	17	26	276	172	448	2	6	8	19	25	32	72	104	63	100	163	84	64	148	—	—
Discharged while on Probation . . . . .	107	108	215	47	85	132	28	27	55	3	1	4	10	14	47	94	141	110	193	303	25	33	58	—	—
Died while on Probation . . . . .	—	4	4	—	—	—	—	—	—	—	—	—	—	—	—	2	2	—	—	—	—	3	—	3	—
Remaining on Probation at end of year . . . . .	49	85	134	32	47	79	30	37	67	4	6	10	25	27	24	56	80	62	136	198	17	14	31	—	—
Daily average on Probation . . . . .	63	82	145	30	45	75	46	48	94	5	5	10	14	16	26	59	85	62	130	192	23	22	45	—	—

IN BOARDING HOMES

ON PROBATION

TABLE No. 5  
CHANGES IN PATIENT POPULATION  
APRIL 1, 1946 to MARCH 31, 1947

HOSPITALS	PATIENTS IN HOSPITAL			PATIENTS ON PROBATION			PATIENTS IN BOARDING HOMES			ELOPED AND NOT DISCHARGED			TOTAL ON BOOKS		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
	Brookville.....	- 69	+ 7	- 62	+ 11	+ 5	+ 16	+ 22	+ 9	+ 31	-	-	-	- 36	+ 21
Cobourg.....	-	- 1	- 1	-	- 8	- 8	-	- 9	- 9	-	-	-	-	- 18	- 18
Fort William.....	+ 11	-	+ 11	-	-	-	-	-	-	-	-	-	+ 11	-	+ 11
Hamilton.....	- 55	- 19	- 74	+ 9	+ 15	+ 24	+ 1	- 1	-	-	- 1	- 1	- 46	- 5	- 51
Kingston.....	- 39	- 5	- 44	- 1	+ 4	+ 3	-	- 1	- 1	+ 1	+ 1	+ 1	- 39	- 2	- 41
Langstaff.....	+ 40	-	+ 40	-	-	-	-	-	-	-	-	-	+ 40	-	+ 40
London.....	- 33	- 9	- 42	- 23	+ 16	- 7	- 8	- 4	- 12	- 1	- 1	- 1	- 65	+ 3	- 62
New Toronto.....	- 49	- 31	- 80	+ 4	+ 2	+ 6	+ 2	+ 9	+ 11	-	-	-	- 43	- 20	- 63
Oroville.....	+ 72	+ 33	+105	- 6	+ 10	+ 4	- 4	- 10	- 14	+ 2	- 8	- 6	+ 64	+ 25	+ 89
Penetang.....	+ 7	- 9	- 2	+ 1	+ 3	+ 4	- 2	- 4	- 6	-	-	-	+ 6	- 10	- 4
St. Thomas.....	+406	+264	+670	+ 25	+ 26	+ 51	-	-	-	-	-	-	+431	+290	+721
Toronto.....	- 19	- 49	- 68	+ 1	- 1	-	- 3	-	- 3	-	-	-	- 21	- 50	- 71
Whitby.....	- 17	+ 14	- 3	-	+ 30	+ 30	+ 1	+ 1	+ 2	- 1	- 1	- 1	- 17	+ 45	+ 28
Woodstock.....	- 5	+ 5	-	-	- 6	- 6	-	-	-	+ 2	-	+ 2	- 3	- 1	- 4
<b>TOTAL.....</b>	<b>+250</b>	<b>+200</b>	<b>+450</b>	<b>+ 21</b>	<b>+ 96</b>	<b>+117</b>	<b>+ 9</b>	<b>- 10</b>	<b>- 1</b>	<b>+ 2</b>	<b>- 8</b>	<b>- 6</b>	<b>+282</b>	<b>+278</b>	<b>+560</b>

TABLE No. 6  
SUMMARY OF PATIENT POPULATION  
YEAR ENDING MARCH 31, 1947

	ADMISSIONS			DISCHARGES			DEATHS			PATIENTS IN RESIDENCE*		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
<b>DIAGNOSIS</b>												
01. With Syphilitic Meningo-Encephalitis.....	80	28	108	38	11	49	41	7	48	445	92	537
02. With other forms of Syphilis.....	1	2	3	3	-	3	2	1	3	14	9	23
03. With Epidemic Encephalitis.....	5	-	5	1	-	1	1	1	2	25	8	33
04. With other Infectious Diseases.....	1	2	3	2	3	5	1	-	1	3	6	9
05. Alcoholic Psychoses.....	57	7	64	49	4	53	6	2	8	68	11	79
06a. Due to Opium and Other Drugs.....	6	7	13	3	2	5	-	-	-	3	2	5
06b. Due to other Exogenous Toxins.....	-	2	2	1	5	6	-	-	-	2	3	5
07. Traumatic Psychoses.....	4	2	6	2	2	4	1	-	1	17	3	20
08. With Cerebral Arteriosclerosis.....	147	126	273	20	22	42	114	89	203	257	234	491
09. With other Disturbances of Circulation.....	10	19	29	2	6	8	5	9	14	12	16	28
10. With Convulsive Disorders (Epilepsy).....	15	16	31	9	16	25	6	6	12	174	167	341
11. Senile Psychoses.....	109	175	284	8	15	23	101	153	254	207	329	536
12. Involutional Psychoses, etc. Diseases.....	52	121	173	42	104	146	5	11	16	67	176	243
13. Due to other Metabolic, etc. Diseases.....	14	33	47	5	12	17	7	10	17	11	45	56
14. Due to New Growth.....	4	1	5	1	-	1	2	2	2	3	4	7
15. With Organic Changes of Nervous System.....	14	14	28	2	4	6	9	13	22	28	25	53
16. Psychoneuroses.....	67	128	195	58	109	167	4	3	7	39	89	128
17. Manic-Depressive Psychoses.....	212	366	578	184	280	464	27	34	61	443	638	1,081
18. Dementia Praecox (Schizophrenia).....	405	454	859	237	245	482	80	111	191	3,549	3,586	7,135
19. Paranoia and Paranoid Conditions.....	22	26	48	8	18	26	5	2	7	87	126	213
20. With Psychopathic Personality.....	9	2	11	5	2	7	-	-	-	14	11	25
21. With Mental Deficiency.....	37	44	81	10	21	31	1	13	14	339	306	645
22. Undiagnosed Psychoses.....	7	20	27	9	8	17	2	5	7	13	37	50
<b>WITHOUT PSYCHOSES</b>												
231a. Epileptics not Psychotic or Feeble-minded.....	28	22	50	22	14	36	4	-	4	69	57	126
231b. Epileptics who are Feeble-minded.....	25	30	55	17	12	29	4	5	9	228	249	477
232. Alcoholism.....	52	7	59	43	3	46	-	-	-	29	3	32
233. Drug Addiction.....	9	3	12	9	3	12	1	-	1	3	2	5
234. Mental Deficiency.....	196	176	372	71	122	193	30	40	70	1,836	1,648	3,484
235. Disorders of Personality.....	-	1	1	-	-	-	-	-	-	3	1	4
236. Psychopathic Personality.....	30	8	38	25	5	30	-	-	-	21	4	25
237. Other Non-Psychotic Diseases or Conditions.....	9	6	15	6	6	12	-	-	-	6	5	11
24. Primary Behaviour Disorders.....	14	6	20	9	4	13	1	1	2	3	7	10
25. No Mental Illness or Mental Defect.....	19	2	21	17	3	20	-	-	-	3	-	3
Total 1-22.....	1,278	1,593	2,871	699	889	1,588	420	470	890	5,820	5,923	11,743
Total 23-25.....	382	263	645	219	176	395	40	46	86	2,201	1,976	4,177
<b>GRAND TOTAL.....</b>	<b>1,660</b>	<b>1,856</b>	<b>3,516</b>	<b>918</b>	<b>1,065</b>	<b>1,983</b>	<b>460</b>	<b>516</b>	<b>976</b>	<b>8,021</b>	<b>7,899</b>	<b>15,920</b>

\*Includes patients boarding out.

TABLE No. 7  
PLACE OF RESIDENCE (COUNTY OR DISTRICT) OF FIRST ADMISSIONS,  
READMISSIONS AND PATIENTS IN RESIDENCE

COUNTY OR DISTRICT	FIRST ADMISSIONS			READMISSIONS			PATIENTS IN RESIDENCE†		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Algoma.....	14	21	35	8	2	10	120	94	214
Brant.....	17	22	39	4	7	11	100	102	202
Bruce.....	13	15	28	1	4	5	69	83	152
Carleton.....	69	81	150	14	26	40	387	492	879
Cochrane.....	23	20	43	3	1	4	151	84	235
Dufferin.....	1	6	7	—	—	—	18	37	55
Dundas.....	2	3	5	1	1	2	22	29	51
Durham.....	9	12	21	4	5	9	50	56	106
Elgin.....	24	23	47	5	9	14	84	88	172
Essex.....	70	59	129	15	23	38	318	298	616
Frontenac.....	23	23	46	4	13	17	157	117	274
Glenngarry.....	4	3	7	1	1	2	54	36	90
Grenville.....	4	9	13	1	1	2	42	42	84
Grey.....	16	18	34	3	4	7	131	94	225
Haldimand.....	7	12	19	—	3	3	44	41	85
Haliburton.....	2	2	4	—	—	—	9	7	16
Halton.....	4	5	9	1	3	4	45	46	91
Hastings.....	21	28	49	6	3	9	144	143	287
Huron.....	13	11	24	—	2	2	64	71	135
Kenora.....	5	7	12	2	—	2	53	30	83
Kent.....	23	29	52	4	13	17	143	116	259
Lambton.....	16	25	41	11	8	19	116	105	221
Lanark.....	8	11	19	2	4	6	74	61	135
Leeds.....	13	18	31	8	7	15	76	106	182
Lennox and Addington.....	6	11	17	2	2	4	41	51	92
Lincoln.....	24	30	54	9	6	15	125	111	236
Manitoulin.....	—	—	—	3	—	3	9	13	22
Middlesex.....	48	60	108	14	30	44	272	331	603
Muskoka.....	6	2	8	—	2	2	41	39	80
Nipissing.....	23	14	37	6	4	10	188	98	286
Norfolk.....	9	7	16	1	2	3	59	64	123
Northumberland.....	9	17	26	3	2	5	57	66	123
Ontario.....	22	32	54	9	20	29	111	102	213
Oxford.....	20	14	34	5	5	10	93	84	177
Parry Sound.....	8	12	20	3	1	4	73	75	148
Peel.....	13	11	24	—	2	2	46	44	90
Perth.....	15	15	30	3	1	4	80	85	165
Peterborough.....	21	30	51	5	7	12	61	94	155
Prescott.....	6	4	10	2	2	2	64	61	125
Prince Edward.....	2	7	9	—	2	2	37	30	67
Rainy River.....	4	—	4	3	—	3	33	21	54
Renfrew.....	24	6	30	6	6	12	124	106	230
Russell.....	2	4	6	—	—	—	57	30	87
Simcoe.....	26	29	55	5	14	19	204	205	409
Stormont.....	15	13	28	5	4	9	72	64	136
Sudbury.....	21	22	43	2	2	4	147	97	244
Temiskaming.....	14	8	22	12	1	13	133	65	198
Thunder Bay.....	57	19	76	14	1	15	284	132	416
Victoria.....	14	11	25	7	2	9	64	50	114
Waterloo.....	32	35	67	7	9	16	140	189	329
Welland.....	39	28	67	6	9	15	163	162	325
Wellington.....	16	22	38	4	8	12	142	116	258
Wentworth.....	85	97	182	19	24	43	477	480	957
York.....	299	376	675	93	144	237	2,056	2,427	4,483
Patricia.....	1	—	1	—	—	—	1	1	2
Other Provinces.....	18	4	22	2	1	3	48	11	59
U.S.A.....	3	2	5	2	—	2	12	11	23
Unascertained.....	5	—	5	2	—	2	36	6	42
<b>TOTAL.....</b>	<b>1,308</b>	<b>1,405</b>	<b>2,713</b>	<b>352</b>	<b>451</b>	<b>803</b>	<b>8,021</b>	<b>7,899</b>	<b>15,920</b>

†Includes patients boarding-out.

TABLE No. 8  
RELIGION OF FIRST ADMISSIONS AND PATIENTS IN RESIDENCE

RELIGION	First Admissions			In Residence‡		
	Male	Female	Total	Male	Female	Total
Baptist.....	62	64	126	328	360	688
Church of England.....	214	273	487	1,300	1,541	2,841
Hebrew.....	18	23	41	165	194	359
Presbyterian.....	131	163	294	863	925	1,788
Roman Catholic.....	366	318	684	2,301	1,796	4,097
United Church.....	254	352	606	1,472	1,657	3,129
Lutheran.....	37	27	64	194	105	299
Greek Catholic.....	2	5	7	44	26	70
Salvation Army.....	2	1	3	13	18	31
None.....	—	—	—	1	—	1
Other Denominations.....	159	144	303	887	897	1,784
Unascertained.....	63	35	98	453	380	833
<b>TOTAL.....</b>	<b>1,308</b>	<b>1,405</b>	<b>2,713</b>	<b>8,021</b>	<b>7,899</b>	<b>15,920</b>

‡Includes Patients Boarding-out.

CHURCH SERVICES	Number Held	Attendance		
		Male	Female	Total
Protestant.....	681	82,320	54,463	136,783
Catholic.....	490	21,895	16,096	37,991





TABLE No. 9—(Continued)  
PATIENTS IN RESIDENCE BY AGE AND DIAGNOSIS

DIAGNOSIS	AGE GROUP																		TOTAL			
	45-49		50-54		55-59		60-64		65-69		70 and Over		Unascertained		M.	F.	T.					
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.				T.				
01. With Syphilitic Meningo-Encephalitis.....	88	21	109	87	10	97	62	8	70	58	10	68	37	2	39	17	1	1	445	92	537	
02. With other forms of Syphilis.....	2	3	5	5	5	2	4	2	4	2	1	2	1	1	1	1	1	1	1	1	1	23
03. With Epidemic Encephalitis.....	3	5	8	7	1	8	1	1	1	1	1	1	1	1	1	1	1	1	25	8	33	
04. With other Infectious Diseases.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6	6	9	
05. Alcoholic Psychoses.....	12	1	13	11	2	13	11	1	11	7	2	9	8	1	8	7	2	9	68	11	79	
06a. Due to Opium and Other Drugs.....	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	3	2	5	
06b. Due to other Exogenous Toxins.....	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	2	3	5	
07. Traumatic Psychoses.....	1	1	2	2	4	3	4	3	3	2	2	2	5	4	3	3	3	3	17	7	24	
08. With Cerebral Arteriosclerosis.....	1	2	3	5	6	11	17	11	28	27	26	53	54	54	108	151	135	286	257	234	491	
09. With other Disturbances of Circulation.....	1	1	2	1	4	5	2	3	9	1	3	3	2	1	3	3	1	4	12	16	28	
10. With Convulsive Disorders (Epilepsy).....	24	22	46	21	24	45	14	23	37	16	9	25	5	8	13	8	7	15	174	167	341	
11. Senile Psychoses.....	2	16	18	10	35	45	16	45	61	11	29	40	19	28	55	167	295	462	207	329	536	
12. Involutional Psychoses.....	1	6	7	1	4	5	3	6	6	1	7	8	3	3	6	1	5	24	67	176	243	
13. Due to other Metabolic, etc. Diseases.....	1	6	7	1	4	5	3	6	6	1	7	8	3	3	6	1	5	24	11	45	56	
14. Due to New Growth.....	4	6	10	5	4	9	3	4	7	2	2	2	1	1	1	1	2	6	3	4	7	
15. With Organic Changes of Nervous System.....	10	10	20	5	11	16	1	12	13	6	9	15	2	3	5	1	2	9	28	25	53	
16. Psychoneuroses.....	36	64	100	47	85	132	64	91	155	60	82	142	53	56	109	60	88	148	39	89	128	
17. Manic-Depressive Psychoses.....	481	455	936	415	450	865	348	402	750	285	349	634	180	256	436	148	284	432	443	638	1,081	
18. Dementia Praecox (Schizophrenia).....	19	13	32	11	22	33	8	26	34	14	18	32	10	19	29	9	16	25	3,549	3,586	7,135	
19. Paranoia and Paranoid Conditions.....	2	2	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	87	126	213	
20. With Psychopathic Personality.....	34	45	79	39	27	66	35	27	62	30	27	57	15	19	34	13	14	27	14	11	25	
21. With Mental Deficiency.....	1	4	5	1	4	5	2	1	3	3	7	10	1	1	2	1	1	2	339	306	645	
22. Undiagnosed Psychoses.....	4	4	8	5	3	8	2	2	4	4	1	5	3	2	5	6	2	8	13	37	50	
231a. Epileptics not Psychotic or Feeble-minded.....	4	4	8	5	3	8	2	2	4	4	1	5	3	2	5	6	2	8	69	57	126	
231b. Epileptics who are Feeble-minded.....	7	25	32	10	10	20	5	5	10	1	3	4	2	1	3	1	1	1	228	249	477	
232. Alcoholism.....	4	2	6	4	1	4	5	5	4	4	4	4	1	1	3	1	1	1	29	3	32	
233. Drug Addiction.....	8	7	15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	2	5	
234. Mental Deficiency.....	29	79	168	74	72	146	57	67	124	43	49	92	32	21	53	13	28	41	1,836	1,648	3,484	
235. Disorders of Personality.....	1	1	2	1	1	2	1	2	2	1	1	1	2	1	2	1	1	1	3	3	4	
236. Psychopathic Personality..... or conditions.	2	2	4	1	1	2	2	2	2	1	1	1	2	1	3	1	1	1	21	6	25	
237. Other non-psychotic diseases..... or conditions.	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	6	5	11	
24. Primary Behaviour Disorders.....	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	3	7	10	
25. No mental illness or mental defect.....	1	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	3	3	6	
TOTAL 1-22.....	72	71	1,394	675	697	1,372	596	667	1,263	534	586	1,120	422	475	897	600	873	1,473	5,820	5,923	11,743	
TOTAL 23-25.....	108	111	219	94	87	181	69	77	146	54	54	108	42	25	67	21	32	53	2,201	1,976	4,177	
GRAND TOTAL.....	831	782	1,613	769	784	1,553	665	744	1,409	588	640	1,228	464	500	964	621	905	1,526	8,021	7,899	15,920	

WITH PSYCHOSIS

WITHOUT PSYCHOSIS

TABLE No. 10  
PATIENTS IN RESIDENCE BY AGE

AGE	Male	Female	TOTAL	AGE	Male	Female	TOTAL
Under 1	—	—	—	52	152	164	316
1	—	—	—	53	141	111	252
2	2	2	4	54	155	183	338
3	7	2	9	55	160	138	298
4	6	3	9	56	132	170	302
5	10	12	22	57	134	161	295
6	27	14	41	58	124	142	266
7	23	13	36	59	115	133	248
8	41	25	66	60	143	122	265
9	37	27	64	61	102	153	255
10	35	22	57	62	128	114	242
11	43	28	71	63	114	134	248
12	41	36	77	64	101	117	218
13	65	29	94	65	113	106	219
14	69	42	111	66	96	121	217
15	67	60	127	67	87	94	181
16	78	69	147	68	78	92	170
17	74	88	162	69	90	87	177
18	88	74	162	70	68	104	172
19	92	68	160	71	63	109	172
20	93	66	159	72	64	81	145
21	107	86	193	73	64	67	131
22	82	89	171	74	52	56	108
23	112	76	188	75	45	58	103
24	83	96	179	76	43	73	116
25	110	96	206	77	22	62	84
26	91	96	187	78	39	50	89
27	108	80	188	79	21	39	60
28	127	101	228	80	28	36	64
29	106	98	204	81	17	34	51
30	117	101	218	82	21	29	50
31	108	109	217	83	12	20	32
32	169	122	291	84	14	18	32
33	150	132	282	85	9	14	23
34	158	153	311	86	14	18	32
35	145	128	273	87	5	11	16
36	153	153	311	88	8	7	15
37	154	111	265	89	4	6	10
38	142	129	271	90	—	3	3
39	126	145	271	91	3	1	4
40	152	146	298	92	2	5	7
41	141	159	300	93	3	2	5
42	200	148	348	94	—	—	—
43	164	141	305	95	—	—	—
44	153	151	304	96	—	—	—
45	180	152	332	97	—	1	1
46	195	182	377	98	—	—	—
47	180	155	335	99	—	—	—
48	145	144	289	100+	—	1	1
49	131	149	280	Unascert.	22	18	40
50	154	161	315				
51	167	165	332				
				TOTAL	8,021	7,899	15,920

TABLE No. 11  
PATIENTS IN RESIDENCE\* BY HOSPITAL AND AGE

AGE GROUP (YEARS)	TOTAL		BROCKVILLE		COBOURG		FORT WILLIAM		HAMILTON		KINGSTON		LANGSTAFF		LONDON		
	M.	F.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Under 15.....	406	255	661	-	-	-	-	-	-	-	-	-	-	-	1	1	2
15-19.....	399	359	758	4	3	7	-	20	3	12	5	17	7	6	13	8	20
20-24.....	477	413	890	14	15	29	-	50	6	34	24	58	30	8	38	6	45
25-29.....	542	471	1,013	29	34	63	-	56	8	48	30	78	33	16	49	12	60
30-34.....	702	617	1,319	46	46	92	-	51	18	56	55	111	33	25	58	29	103
35-39.....	725	666	1,391	52	56	108	-	42	10	69	58	127	54	33	87	45	137
40-44.....	810	745	1,555	63	63	126	-	46	11	74	66	140	53	58	111	75	168
45-49.....	831	782	1,613	65	80	145	-	33	15	69	83	152	67	79	146	76	174
50-54.....	769	784	1,553	55	63	118	-	41	12	86	83	169	56	87	143	67	172
55-59.....	665	744	1,409	57	70	127	-	47	7	82	83	165	73	60	133	54	149
60-64.....	588	610	1,228	52	49	101	-	47	9	86	80	166	50	71	121	49	159
65-69.....	464	500	964	39	37	76	-	29	9	76	63	139	36	48	84	21	125
70 and Over.....	621	905	1,526	38	69	107	-	56	19	86	159	245	32	72	104	28	213
Not Stated.....	22	18	40	1	1	2	-	1	-	1	-	1	-	-	-	-	-
ALL AGES.....	8,021	7,899	15,920	515	586	1,101	-	519	127	780	789	1,569	524	563	1,087	462	1,527

\*Includes patients boarding-out.

TABLE No. 11—(Continued)  
 PATIENTS IN RESIDENCE\* BY HOSPITAL AND AGE

AGE GROUP (YEARS)	NEW TORONTO		ORILLIA		PENETANG		ST. THOMAS		TORONTO		WHITBY		WOODSTOCK			
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
Under 15.....	-	-	400	251	651	-	1	1	2	-	2	-	-	2	2	4
15-19.....	9	4	273	251	524	27	7	34	9	7	16	6	9	15	30	61
20-24.....	22	20	213	164	377	36	13	49	10	15	25	19	22	41	46	78
25-29.....	42	41	116	107	223	57	35	92	26	26	52	38	28	66	52	87
30-34.....	77	62	139	83	166	66	24	90	38	38	76	47	40	87	61	129
35-39.....	66	67	133	49	106	54	40	94	42	56	98	53	44	97	79	153
40-44.....	71	80	151	34	41	75	40	34	74	63	132	70	48	118	74	128
45-49.....	86	79	165	28	29	57	35	23	58	71	143	82	45	127	92	135
50-54.....	58	82	140	18	23	41	26	26	52	60	153	83	50	133	97	122
55-59.....	63	80	143	8	20	28	12	21	33	50	140	56	49	105	82	102
60-64.....	58	66	124	7	21	28	8	7	15	38	52	54	52	106	60	75
65-69.....	46	54	100	6	13	19	4	6	10	24	31	50	43	93	56	65
70 and Over.....	74	81	155	1	9	10	7	6	13	29	38	70	124	194	83	89
Not Stated.....	12	7	19	1	-	1	2	-	2	4	-	-	-	-	1	9
ALL AGES.....	684	723	1,407	1,237	2,306	374	243	617	466	587	1,053	628	554	1,182	823	903
															650	587
															1,237	1,237

\*Includes patients boarding-out.

TABLE No. 12  
PATIENTS IN RESIDENCE BY HOSPITAL AND DIAGNOSIS

DIAGNOSIS	BROCKVILLE			COBORG			FORT WILLIAM			HAMILTON			KINGSTON			LANGSTAFF			LONDON		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
	01. With Syphilitic Meningo-Encephalitis.....	44	14	58	-	2	2	9	-	9	50	14	64	34	3	37	13	-	13	59	11
02. With other forms of Syphilis.....	3	2	5	-	-	-	-	-	-	2	1	3	5	1	5	2	-	-	2	1	3
03. With Epidemic Encephalitis.....	4	-	4	-	-	-	-	-	-	2	8	10	1	-	2	5	-	5	5	2	7
04. With other Infectious Diseases.....	4	2	6	-	-	-	2	-	2	8	2	10	2	-	1	5	-	5	5	2	7
05. Alcoholic Psychoses.....	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	-	-	1	1	2
06a. Due to Opium and Other Drugs.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06b. Due to other Exogenous Toxins.....	1	1	1	-	-	-	-	-	-	3	2	3	-	-	-	1	-	1	1	1	2
07. Traumatic Psychoses.....	20	15	35	6	6	6	8	51	79	130	6	8	6	8	14	4	-	4	30	26	56
08. With Cerebral Arteriosclerosis.....	-	1	1	-	-	-	-	8	1	1	1	6	4	10	4	-	-	11	3	14	14
09. With other Disturbances of Circulation.....	1	1	2	2	7	3	10	6	4	10	6	4	10	2	2	2	-	2	26	33	59
10. With Convulsive Disorders (Epilepsy).....	13	22	35	8	8	8	17	17	38	50	17	31	48	2	2	2	-	2	26	33	59
11. Senile Psychoses.....	7	14	21	5	5	5	1	14	28	42	7	4	11	1	1	1	-	1	4	18	22
12. Involutional Psychoses.....	-	4	4	-	-	-	-	7	7	7	7	7	2	2	2	1	-	1	3	10	13
13. Due to other Metabolic, etc. Diseases.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14. Due to New Growth.....	2	1	3	-	-	-	-	-	2	6	8	3	4	7	1	1	-	1	4	3	7
15. With Organic Changes of Nervous System.....	1	12	13	-	-	-	-	-	12	18	30	3	9	12	2	3	-	2	3	10	13
16. Psycho-neuroses.....	33	72	105	11	11	11	6	48	66	114	49	53	102	17	17	54	-	17	54	101	155
17. Manic-Depressive Psychoses.....	305	388	643	173	173	173	54	54	442	419	861	219	304	523	302	425	-	302	425	458	883
18. Dementia Praecox (Schizophrenia).....	2	8	10	3	3	3	6	2	8	10	15	31	46	5	5	13	-	5	13	8	21
19. Paranoia and Paranoid Conditions.....	2	8	10	3	3	3	6	2	8	10	15	31	46	5	5	13	-	5	13	8	21
20. With Psychopathic Personality.....	1	1	1	-	-	-	-	4	4	4	4	4	4	-	1	2	-	1	2	2	4
21. With Mental Deficiency.....	25	29	54	-	25	25	4	37	32	69	44	51	95	1	1	35	-	35	51	30	81
22. Undiagnosed Psychoses.....	-	-	-	-	1	1	-	-	4	37	32	69	44	1	1	35	-	35	51	30	81
231a. Epileptics not Psychotic or Feeble-minded.....	-	3	3	-	-	-	-	3	1	4	4	2	1	1	3	1	-	1	1	1	2
231b. Epileptics who are Feeble-minded.....	1	1	1	-	4	4	1	-	1	4	5	1	1	1	1	1	-	1	1	1	2
232. Alcoholism.....	2	1	3	-	-	-	1	4	1	1	5	1	1	1	1	1	-	1	2	-	2
233. Drug Addiction.....	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
234. Mental Deficiency.....	45	45	90	277	277	277	15	72	55	127	99	46	145	67	67	44	-	67	44	44	88
235. Disorders of Personality.....	-	-	-	-	-	-	1	3	1	4	2	1	3	1	3	1	-	1	3	-	3
236. Psychopathic Personality.....	-	-	-	-	-	-	1	3	1	2	3	2	3	1	3	1	-	1	3	-	3
237. Other non-psychotic diseases or conditions.....	-	-	-	-	-	-	-	1	1	1	2	2	1	2	3	-	-	1	2	-	2
24. Primary Behaviour Disorders.....	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	-	-	1	1	-	1
25. No mental illness or mental defect.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total 1-22.....	466	536	1,002	-	238	238	109	-	109	694	728	1,422	418	512	930	393	-	393	700	731	1,431
Total 23-25.....	49	50	99	-	281	281	18	-	18	86	61	147	106	51	157	69	-	69	51	45	96
GRAND TOTAL.....	515	586	1,101	-	519	519	127	-	127	780	789	1,569	524	563	1,087	462	-	462	751	776	1,527

WITH PSYCHOSES

WITHOUT PSYCHOSES

TABLE No. 12—(Continued)  
PATIENTS IN RESIDENCE BY HOSPITAL AND DIAGNOSIS

DIAGNOSIS	NEW TORONTO		ORILLIA		PENETANG		ST. THOMAS		TORONTO		WHITBY		WOODSTOCK		TOTAL									
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.								
	T.	F.	T.	F.	T.	F.	T.	F.	T.	F.	T.	F.	T.	F.	T.	F.								
01. With Syphilitic Meningo-Encephalitis	32	7	39	—	—	—	2	15	44	110	17	127	49	7	56	14	2	16	445	92	537			
02. With other forms of Syphilis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14	9	23			
03. With Epidemic Encephalitis	2	1	3	—	—	—	1	3	2	2	2	8	3	2	5	1	2	3	25	8	33			
04. With other Infectious Diseases	1	—	—	—	—	—	—	2	2	2	2	1	1	1	2	1	2	3	3	6	9			
05. Alcoholic Psychoses	8	2	10	—	—	—	1	1	1	15	16	13	1	1	14	4	1	5	68	11	79			
06a. Due to Opium and Other Drugs	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	2	5			
06b. Due to other Exogenous Toxins	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	3	5			
07. Traumatic Psychoses	—	—	—	—	—	—	2	—	—	6	—	6	3	2	1	—	—	—	17	3	20			
08. With Cerebral Arteriosclerosis	37	23	60	—	—	—	5	23	29	40	53	93	20	16	36	13	2	15	257	234	491			
09. With other Disturbances of Circulation	—	1	1	—	—	—	1	2	3	3	3	6	4	4	8	1	—	1	12	16	28			
10. With Convulsive Disorders (Epilepsy)	—	1	1	—	—	—	1	10	13	1	5	6	5	2	7	127	137	264	174	167	341			
11. Senile Psychoses	58	70	128	—	—	—	2	4	6	20	50	70	29	54	83	8	8	16	207	329	536			
12. Involuntary Psychoses	1	12	13	—	—	—	2	2	11	12	6	17	20	63	83	5	8	13	67	176	243			
13. Due to other Metabolic, etc. Diseases	—	—	—	—	—	—	2	1	3	3	8	11	4	9	13	—	—	—	11	45	56			
14. Due to New Growth	—	1	1	—	—	—	—	—	—	3	3	3	—	—	3	—	—	—	3	4	7			
15. With Organic Changes of Nervous System	1	1	2	—	—	—	1	2	2	7	4	11	5	5	10	—	—	—	28	25	53			
16. Psychoneuroses	3	5	8	—	—	—	—	2	9	11	5	14	4	13	17	4	1	5	39	89	128			
17. Manic-Depressive Psychoses	91	80	171	—	—	—	21	37	23	55	78	37	58	95	53	11	22	443	443	638	1,081			
18. Dementia Praecox (Schizophrenia)	365	419	814	—	—	—	1,183	422	305	260	370	630	267	259	526	509	179	397	3,549	3,586	7,135			
19. Paranoia and Paranoid Conditions	7	6	13	—	—	—	6	3	9	10	19	10	6	16	11	4	—	—	87	126	213			
20. With Psychopathic Personality	2	—	—	—	—	—	1	1	3	—	1	—	—	3	3	1	1	2	14	11	25			
21. With Mental Deficiency	11	8	19	—	—	—	1	15	16	19	10	29	26	32	58	37	74	33	339	306	645			
22. Undiagnosed Psychoses	1	12	13	—	—	—	—	1	1	1	4	5	—	—	5	16	13	29	13	37	50			
231a. Epileptics not Psychotic or Feeble-minded	—	—	—	—	—	—	—	2	1	3	2	1	3	—	—	—	—	—	69	57	126			
231b. Epileptics who are Feeble-minded	—	—	—	—	—	—	—	3	5	1	1	2	1	1	2	119	50	109	228	249	477			
232. Alcoholism	5	—	5	—	—	—	—	—	—	—	—	—	13	1	14	—	—	—	29	3	32			
233. Drug Addiction	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	2	5			
234. Mental Deficiency	57	44	101	1,138	2,094	110	78	188	61	37	98	49	18	67	33	46	29	75	1,836	1,648	3,484			
235. Disorders of Personality	1	—	—	—	—	—	2	1	1	—	—	—	—	1	—	—	—	—	3	1	4			
236. Psychopathic Personality	—	—	—	—	—	—	3	6	1	7	—	—	—	1	2	1	—	1	21	4	25			
237. Other non-psychotic diseases or conditions	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6	5	11			
24. Primary Behaviour Disorders	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	7	10			
25. No mental illness or mental defect	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	—	3			
Total 1-22	621	679	1,300	3	16	19	254	164	418	393	542	935	573	531	1,104	771	879	1,650	425	367	792	5,820	5,923	11,743
Total 23-25	63	44	107	1,234	1,053	2,287	120	79	199	73	45	118	55	23	78	52	24	76	225	220	445	2,201	1,976	4,177
GRAND TOTAL	684	723	1,407	1,237	1,069	2,306	374	243	617	466	587	1,053	628	554	1,182	823	903	1,726	650	587	1,237	8,021	7,899	15,920

With Psychosis

Without Psychosis

TABLE No. 13  
METHOD OF ADMISSION BY HOSPITAL\*

METHOD OF ADMISSION	ALL HOSPITALS			BROCKVILLE			COBOURG			FORT WILLIAM			HAMILTON			KINGSTON			LONDON			
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	
<b>First Admissions</b>																						
Voluntary Application.....	70	71	141	-	2	2	-	-	6	-	6	-	16	15	31	3	-	3	15	5	20	
Two Physicians' Certificates.....	897	1,214	2,111	89	109	198	-	19	19	14	14	-	143	207	350	61	78	139	107	177	284	
Warrant of Deputy Minister.....	203	71	274	2	1	3	-	1	1	49	-	49	26	13	39	7	-	7	-	1	1	
Warrant of Lieutenant-Governor.....	34	23	57	2	1	3	-	1	1	-	-	-	7	3	10	3	-	3	2	1	3	
Order of Magistrate.....	55	11	66	1	-	1	-	-	-	-	-	-	8	2	10	4	5	9	12	-	12	
Warrant of Minister of Justice.....	4	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	
Warrant of Deputy Minister for Person Deported.....	5	2	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	
Habitue-Voluntary.....	4	1	5	-	-	-	-	-	-	-	-	-	2	1	3	-	-	-	-	-	-	
Habitue-Temporary Commitment.....	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Habitue-Warrant of Deputy Minister for Removal.....	26	5	31	2	2	4	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	
Inspector's Warrant.....	8	7	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	
<b>TOTAL.....</b>	<b>1,308</b>	<b>1,405</b>	<b>2,713</b>	<b>96</b>	<b>115</b>	<b>211</b>	<b>-</b>	<b>21</b>	<b>21</b>	<b>69</b>	<b>-</b>	<b>69</b>	<b>202</b>	<b>241</b>	<b>443</b>	<b>84</b>	<b>84</b>	<b>168</b>	<b>138</b>	<b>184</b>	<b>322</b>	
<b>Readmissions</b>																						
Voluntary Application.....	60	62	122	4	-	4	-	-	3	-	3	-	10	7	17	1	3	4	5	9	14	
Two Physicians' Certificates.....	203	352	555	25	38	63	-	4	4	5	5	-	27	49	76	20	26	46	32	54	86	
Warrant of Deputy Minister.....	57	25	82	1	-	1	-	1	1	11	-	11	9	6	15	-	-	-	2	-	2	
Warrant of Lieutenant-Governor.....	7	7	14	1	1	2	-	2	2	-	-	-	1	1	2	-	-	-	-	-	-	
Order of Magistrate.....	9	3	12	1	-	1	-	-	-	-	-	-	1	-	1	2	-	2	2	1	3	
Warrant of Minister of Justice.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Warrant of Deputy Minister for Person Deported.....	3	-	3	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	
Habitue-Voluntary.....	1	-	1	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	
Habitue-Temporary Commitment.....	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Habitue-Warrant of Deputy Minister for Removal.....	6	-	6	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Inspector's Warrant.....	5	2	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>TOTAL.....</b>	<b>352</b>	<b>451</b>	<b>803</b>	<b>34</b>	<b>39</b>	<b>73</b>	<b>-</b>	<b>7</b>	<b>7</b>	<b>19</b>	<b>-</b>	<b>19</b>	<b>49</b>	<b>63</b>	<b>112</b>	<b>23</b>	<b>29</b>	<b>52</b>	<b>42</b>	<b>64</b>	<b>106</b>	

\*Excluding Langstaff.



TABLE No. 13—(Continued)  
METHOD OF ADMISSION BY HOSPITAL

METHOD OF ADMISSION	NEW TORONTO			ORILLIA			PENETANG			ST. THOMAS			TORONTO			WHITBY			WOODSTOCK		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
	Voluntary Application.....	1	1	2	-	-	-	-	-	-	4	6	10	2	-	2	21	41	62	2	1
Two Physicians' Certificates.....	48	99	147	96	86	182	5	6	11	80	58	138	109	138	247	105	199	304	40	38	78
Warrant of Deputy Minister.....	72	41	113	5	1	6	-	-	-	-	1	1	29	10	39	12	1	13	1	1	2
Warrant of Lieutenant-Governor.....	4	1	5	3	14	17	2	2	2	2	1	3	6	1	7	1	-	1	2	-	2
Order of Magistrate.....	2	-	2	4	-	4	1	1	1	18	3	21	-	-	-	5	1	6	-	-	-
Warrant of Minister of Justice.....	-	-	-	-	-	-	2	-	2	-	-	-	1	-	1	-	-	-	-	-	-
Warrant of Deputy Minister for Person Deported.....	1	-	1	-	-	-	-	-	-	-	-	-	1	-	1	1	-	1	-	-	1
Habitue-Voluntary.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	-	-
Habitue-Temporary Commitment.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	-	-
Habitue-Warrant of Deputy Minister.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Habitue-Warrant of Deputy Minister for Removal.....	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	16	3	19	-	-	-
Inspector's Warrant.....	-	-	-	-	1	1	-	-	-	-	-	-	3	3	6	5	3	8	-	-	-
TOTAL.....	131	142	273	108	102	210	10	6	16	104	69	173	151	152	303	170	248	418	45	41	86
Voluntary Application.....	1	2	3	-	-	-	-	-	-	4	3	7	4	-	4	28	36	64	-	2	2
Two Physicians' Certificates.....	3	24	27	4	3	7	1	1	1	17	26	43	19	53	72	41	66	107	10	8	18
Warrant of Deputy Minister.....	14	7	21	-	-	-	1	1	1	-	-	-	12	10	22	6	1	7	1	1	1
Warrant of Lieutenant-Governor.....	1	-	1	-	1	1	1	1	1	1	1	1	1	1	2	2	2	2	-	-	-
Order of Magistrate.....	-	-	-	-	-	-	-	-	-	1	2	3	-	-	-	-	-	-	-	2	2
Warrant of Minister of Justice.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Warrant of Deputy Minister for Person Deported.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-
Habitue-Voluntary.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Habitue-Temporary Commitment.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-
Habitue-Warrant of Deputy Minister.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Habitue-Warrant of Deputy Minister for Removal.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	5	-	-	-
Inspector's Warrant.....	-	-	-	-	-	-	-	-	-	-	-	-	2	1	3	3	1	4	-	-	-
TOTAL.....	19	33	52	4	4	8	2	1	3	22	32	54	38	65	103	87	104	191	13	10	23

FIRST ADMISSIONS

RE-ADMISSIONS

TABLE No. 14  
METHOD OF ADMISSION—FIRST AND READMISSIONS

METHOD OF ADMISSION	First Admissions			Readmissions		
	Male	Female	Total	Male	Female	Total
1. Voluntary Application (Sec. 19) (Form 1) .....	70	71	141	60	62	122
2. Two Physicians' Certificates (Sec. 20) (Form 2, 3 or 26) .....	897	1,214	2,111	203	352	555
Mentally Ill (Form 2) .....	733	1,054	1,787	184	332	516
Mentally Defective (Form 3) .....	126	117	243	9	10	19
Epileptic (Form 26) .....	38	43	81	10	10	20
3. Warrant of Deputy Minister (Sec. 25-30) (Form 11) .....	203	71	274	57	25	82
4. Warrant of Lieutenant-Governor (Sec. 32) .....	34	23	57	7	7	14
5. Order of Magistrate (Sec. 35) (Form 16) .....	55	11	66	9	3	12
Certificated .....	28	9	37	5	2	7
Discharged to Court .....	27	2	29	4	1	5
6. Warrant of Minister of Justice (Under Penitentiary Act) .....	4	—	4	—	—	—
7. Warrant of Deputy Minister for person deported (Sec. 64) (Form 36) .....	5	2	7	3	—	3
8. Habitué—Voluntary (Sec. 46) (Form 20) .....	4	1	5	1	—	1
9. Habitué—Temporary Commitment— Two Physicians' Certificates, 30 days .....	2	—	2	1	—	1
(Sec. 52, 53) (Form 25) .....	—	—	—	—	—	—
Certificated .....	2	—	2	—	—	—
Discharged .....	—	—	—	1	—	1
10. Habitué—Warrant of Deputy Minister for Removal (Sec. 47-51) (Form 24) .....	26	5	31	6	—	6
11. Inspector's Warrant—Sec. 9(3) Psy. Hosp. Act .....	8	7	15	5	2	7
<b>TOTAL</b> .....	<b>1,308</b>	<b>1,405</b>	<b>2,713</b>	<b>352</b>	<b>451</b>	<b>803</b>

TABLE No. 15  
ADMISSIONS BY PLACE OF BIRTH AND NATIVITY OF PARENTS

NATIVITY	First Admissions			Readmissions			TOTAL		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Canadian Born.....	979	1,090	2,069	266	334	600	1,245	1,424	2,669
Canadian born parents..	555	572	1,127	158	206	364	713	778	1,491
British born parents....	141	204	345	41	51	92	182	255	437
Foreign born parents....	52	66	118	17	17	34	69	83	152
Mixed parentage.....	110	143	253	25	36	61	135	179	314
Unknown parentage.....	121	105	226	25	24	49	146	129	275
British Born.....	159	177	336	45	68	113	204	245	449
Foreign Born.....	167	131	298	38	49	87	205	180	385
Unknown.....	3	7	10	3	—	3	6	7	13
<b>TOTAL.....</b>	<b>1,308</b>	<b>1,405</b>	<b>2,713</b>	<b>352</b>	<b>451</b>	<b>803</b>	<b>1,660</b>	<b>1,856</b>	<b>3,516</b>

TABLE No. 16  
ADMISSIONS BY CITIZENSHIP

CITIZENSHIP	First Admissions			Readmissions			TOTAL		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Canadian by Birth.....	979	1,090	2,069	267	334	601	1,246	1,424	2,670
British born who have resided in Canada five years or more.	140	153	293	36	60	96	176	213	389
British born with less than five years residence in Canada	3	10	13	2	—	2	5	10	15
British born, length of resi- dence unknown.....	16	14	30	9	8	17	25	22	47
Alien born (naturalized)....	12	19	31	6	8	14	18	27	46
Alien born with five years or more residence in Canada...	126	96	222	30	37	67	156	133	289
Alien born with less than five years residence.....	4	3	7	1	—	1	5	3	8
Alien born, duration of resi- dence unknown.....	25	13	38	—	4	4	25	17	42
Not given.....	3	7	10	1	—	1	4	7	11
<b>TOTAL.....</b>	<b>1,308</b>	<b>1,405</b>	<b>2,713</b>	<b>352</b>	<b>451</b>	<b>803</b>	<b>1,660</b>	<b>1,856</b>	<b>3,516</b>

TABLE No. 17  
FIRST ADMISSIONS BY AGE

AGE	Male	Female	TOTAL	AGE	Male	Female	TOTAL
Under 1	—	—	—	52	23	19	42
1	—	—	—	53	23	17	40
2	—	1	1	54	15	19	34
3	6	1	7	55	11	14	25
4	7	1	8	56	15	23	38
5	3	4	7	57	18	19	37
6	12	9	21	58	19	15	34
7	9	6	15	59	12	8	20
8	14	5	19	60	10	18	28
9	6	8	14	61	10	15	25
10	7	1	8	62	17	14	31
11	3	5	8	63	13	20	33
12	7	7	14	64	8	10	18
13	15	4	19	65	10	15	25
14	9	13	22	66	9	16	25
15	13	23	36	67	14	10	24
16	19	21	40	68	19	16	35
17	24	24	48	69	20	12	32
18	23	25	48	70	24	13	37
19	27	21	48	71	9	17	26
20	17	22	39	72	14	21	35
21	21	27	48	73	21	15	36
22	25	21	46	74	20	12	32
23	23	27	50	75	12	19	31
24	19	18	37	76	16	19	35
25	20	26	46	77	12	17	29
26	24	29	53	78	18	18	36
27	16	24	40	79	8	8	16
28	19	24	43	80	8	17	25
29	16	18	34	81	5	4	9
30	16	23	39	82	10	12	22
31	22	32	54	83	6	9	15
32	18	23	41	84	7	7	14
33	17	27	44	85	5	9	14
34	18	25	43	86	6	10	16
35	24	25	49	87	6	6	12
36	18	26	44	88	3	2	5
37	24	22	46	89	—	2	2
38	22	20	42	90	—	2	2
39	25	22	47	91	—	—	—
40	17	18	35	92	5	2	7
41	15	22	37	93	2	—	2
42	26	16	42	94	—	1	1
43	22	24	46	95	—	1	1
44	14	22	36	96	—	1	1
45	24	23	47	97	—	1	1
46	24	17	41	98	—	1	1
47	14	13	27	99	—	—	—
48	13	18	31	100+	—	—	—
49	11	17	28	Unascert.	1	—	1
50	22	17	39				
51	14	12	26	TOTAL	1,308	1,405	2,713

TABLE No. 18  
FIRST ADMISSIONS AND READMISSIONS BY AGE AND SEX

AGE GROUP	First Admissions			Readmissions			TOTAL ADMISSIONS		
	M.	F.	T.	M.	F.	T.	M.	F.	T.
Under 10 years.....	57	35	92	-	-	-	57	35	92
10-14.....	41	30	71	1	-	1	42	30	72
15-19.....	106	114	220	8	5	13	114	119	233
20-24.....	105	115	220	15	24	39	120	139	259
25-29.....	95	121	216	35	36	71	130	157	287
30-34.....	91	130	221	47	60	107	138	190	328
35-39.....	113	115	228	31	62	93	144	177	321
40-44.....	94	102	196	43	45	88	137	147	284
45-49.....	86	88	174	39	43	82	125	131	256
50-54.....	97	84	181	33	48	81	130	132	262
55-59.....	75	79	154	35	40	75	110	119	229
60-64.....	58	77	135	28	37	65	86	114	200
65-69.....	72	69	141	22	24	46	94	93	187
70 and over.....	217	246	463	14	27	41	231	273	504
Not Stated.....	1	-	1	1	-	1	2	-	2
<b>ALL AGES.....</b>	<b>1,308</b>	<b>1,405</b>	<b>2,713</b>	<b>352</b>	<b>451</b>	<b>803</b>	<b>1,660</b>	<b>1,856</b>	<b>3,516</b>

TABLE No. 19  
FIRST AND READMISSIONS BY DIAGNOSIS

DIAGNOSIS	FIRST ADMISSIONS			READMISSIONS		
	M.	F.	T.	M.	F.	T.
01 Psychoses with Syphilitic Meningo-Encephalitis (General Paresis).....	68	19	87	12	9	21
02 Psychoses with other Forms of Syphilis of Central Nervous System.....	1	1	2	—	1	1
021 Meningo-vascular type (cerebral syphilis).....	1	—	1	—	1	1
022 With intracranial gumma.....	—	—	—	—	—	—
023 Other types.....	—	1	1	—	—	—
03 Psychoses with Epidemic Encephalitis.....	3	—	3	2	—	2
04 Psychoses with other Infectious Diseases.....	1	2	3	—	—	—
041 With tuberculous meningitis.....	—	—	—	—	—	—
042 With meningitis (unspecified).....	—	—	—	—	—	—
043 With acute chorea (Sydenham's).....	—	—	—	—	—	—
044 With other infectious disease.....	—	—	—	—	—	—
045 Post-infectious psychoses.....	1	2	3	—	—	—
05 Alcoholic Psychoses.....	49	5	54	8	2	10
051 Pathological intoxication.....	3	—	3	—	—	—
052 Delirium tremens.....	8	—	8	1	—	1
053 Korsakow's psychosis.....	5	2	7	1	—	1
054 Acute hallucinosis.....	24	—	24	4	2	6
055 Other types.....	9	3	12	2	—	2
06 Psychoses due to Drugs or other Exogenous Poisons.....	5	7	12	1	—	1
061 Due to metals.....	—	—	—	—	—	—
062 Due to gases.....	—	—	—	—	—	—
063 Due to opium and derivatives.....	1	—	1	—	—	—
064 Due to other drugs.....	4	7	11	1	—	1
07 Traumatic Psychoses.....	4	2	6	—	—	—
071 Traumatic delirium.....	1	—	1	—	—	—
072 Post-traumatic personality disorders.....	2	1	3	—	—	—
073 Post-traumatic mental deteriorations.....	1	—	1	—	—	—
074 Other types.....	—	1	1	—	—	—
08 Psychoses with Cerebral Arteriosclerosis.....	140	118	258	7	8	15
09 Psychoses with other Disturbances of Circulation.....	10	15	25	—	4	4
091 With cerebral embolism.....	4	1	5	—	—	—
092 With cardio-renal disease.....	1	6	7	—	2	2
093 Other types.....	5	8	13	—	2	2
10 Psychoses with Convulsive Disorders (epilepsy).....	9	10	19	6	6	12
101 Epileptic deterioration.....	5	6	11	2	2	4
102 Epileptic clouded states.....	2	1	3	3	1	4
103 Other epileptic types.....	2	3	5	1	3	4
11 Senile Psychoses.....	107	171	278	2	4	6
111 Simple deterioration.....	82	127	209	2	3	5
112 Presbyphrenic type.....	3	5	8	—	—	—
113 Delirious and confused types.....	7	7	14	—	—	—
114 Depressed and agitated types.....	4	7	11	—	1	1
115 Paranoid types.....	11	25	36	—	—	—
12 Involutional Psychoses.....	49	99	148	3	22	25
121 Melancholia.....	38	75	113	2	15	17
122 Paranoid types.....	11	17	28	1	6	7
123 Other types.....	—	7	7	—	1	1
13 Psychoses due to other Metabolic, etc., Diseases.....	13	28	41	1	5	6
131 With diseases of the endocrine glands.....	—	2	2	1	—	1
132 Exhaustion delirium.....	2	6	8	—	—	—
133 Alzheimer's disease.....	—	7	7	—	—	—
134 With pellagra.....	—	—	—	—	—	—
135 With other somatic diseases.....	11	13	24	—	5	5
14 Psychoses due to New Growth.....	4	1	5	—	—	—
141 With intracranial neoplasms.....	2	1	3	—	—	—
142 With other neoplasms.....	2	—	2	—	—	—
15 Psychoses with Organic changes of Nervous System.....	13	12	25	1	2	3
151 With multiple sclerosis.....	—	1	1	—	—	—
152 With paralysis agitans.....	1	3	4	—	—	—
153 With Huntington's chorea.....	3	5	8	—	2	2
154 With other brain or nervous diseases.....	9	3	12	1	—	1

TABLE No. 19—(Continued)  
FIRST AND READMISSIONS BY DIAGNOSIS

DIAGNOSIS	FIRST ADMISSIONS			READMISSIONS		
	M.	F.	T.	M.	F.	T.
16 Psychoneuroses.....	55	99	154	12	29	41
161 Hysteria (anxiety hysteria, conversion hysteria and subgroups).....	6	19	25	—	8	8
162 Psychasthenia or compulsive states (and subgroups).....	1	4	5	—	2	2
163 Neurasthenia.....	3	3	6	2	4	6
164 Hypochondriasis.....	1	5	6	—	4	4
165 Reactive depression (simple situational reaction, others).....	25	33	58	3	6	9
166 Anxiety state.....	8	22	30	3	2	5
167 Mixed psychoneurosis.....	11	13	24	4	3	7
17 Manic-Depressive Psychoses.....	114	201	315	98	165	263
171 Manic type.....	62	92	154	50	93	143
172 Depressive type.....	36	75	111	31	48	79
173 Circular type.....	1	1	2	1	5	6
174 Mixed type.....	12	27	39	15	16	31
175 Perplexed type.....	1	2	3	—	2	2
176 Stuporous type.....	—	1	1	—	—	—
177 Other types.....	2	3	5	1	1	2
18 Dementia Praecox (Schizophrenia).....	286	317	603	119	137	256
181 Simple type.....	24	16	40	11	6	17
182 Hebephrenic type.....	18	13	31	7	4	11
183 Catatonic type.....	102	143	245	55	71	126
184 Paranoid type.....	101	96	197	35	46	81
185 Other types.....	41	49	90	11	10	21
19 Paranoia and Paranoid Conditions.....	16	23	39	6	3	9
191 Paranoia.....	1	3	4	2	—	2
192 Paranoid conditions.....	15	20	35	4	3	7
20 Psychoses with Psychopathic Personality.....	8	1	9	1	1	2
21 Psychoses with Mental Deficiency.....	25	30	55	12	14	26
22 Undiagnosed Psychoses.....	6	16	22	1	4	5
23 Without Psychoses.....	290	221	511	59	34	93
231a Epileptics not psychotic or feeble-minded.....	22	16	38	6	6	12
231b Epileptics who are feeble-minded.....	20	25	45	5	5	10
232 Alcoholism.....	40	6	46	12	1	13
233 Drug Addiction.....	5	2	7	4	1	5
234 Mental Deficiency.....	177	157	334	19	19	38
234a Idiot.....	36	22	58	—	—	—
234b Imbecille.....	62	55	117	5	7	12
234c Moron.....	61	60	121	7	8	15
234d Grade unspecified.....	18	20	38	7	4	11
235 Disorders of personality due to epidemic encephalitis.....	—	—	—	—	1	1
236 Psychopathic personality.....	19	8	27	11	—	11
236a With pathological sexuality.....	5	—	5	—	—	—
236b With pathological emotionality.....	2	1	3	—	—	—
236c With asocial or amoral trends.....	7	4	11	2	—	2
236d Mixed types.....	5	3	8	9	—	9
237 Other non-psychotic diseases or conditions.....	7	7	14	2	1	3
24 Primary Behaviour Disorders.....	14	5	19	—	1	1
241 Simple adult maladjustments.....	7	4	11	—	1	1
242 Primary behaviour disorders in children.....	7	1	8	—	—	—
242a Habit disturbance.....	1	1	2	—	—	—
242b Conduct disturbance.....	5	—	5	—	—	—
242c Neurotic traits.....	1	—	1	—	—	—
25 No Mental Illness or Mental Defect.....	18	2	20	1	—	1
TOTAL 1-22.....	986	1,177	2,163	292	416	708
TOTAL 23-25.....	322	228	550	60	35	95
GRAND TOTAL.....	1,308	1,405	2,713	352	451	803

TABLE No. 20  
FIRST ADMISSIONS BY HOSPITAL AND DIAGNOSIS

DIAGNOSIS	ALL HOSPITALS	Brookville	Cobourg	Fort William	Hamilton	Kingston	Langstaff	London	New Toronto	Orillia	Pene- tang	St. Thomas	Toronto	Whitby	Wood- stock
01. With Syphilitic Meningo-Encephalitis.....	87	7	-	8	13	8	-	7	13	-	-	3	22	6	-
02. With other forms of Syphilis.....	2	-	-	-	-	2	-	-	1	-	-	-	1	1	-
03. With Epidemic Encephalitis.....	3	-	-	-	-	-	-	1	1	-	-	-	9	2	1
04. With other Infectious Diseases.....	54	3	-	10	6	2	-	4	8	-	1	3	9	8	-
05. Alcoholic Psychoses.....	7	-	-	-	1	1	-	-	2	-	-	1	2	-	-
06a. Due to Opium and Other Drugs.....	5	2	-	-	-	-	-	3	-	-	-	-	2	-	-
07. Traumatic Psychoses.....	6	-	-	-	-	-	-	-	-	-	-	-	-	5	-
08. With Cerebral Arteriosclerosis.....	258	15	-	5	71	9	-	49	16	-	4	20	40	22	1
09. With other Disturbances of Circulation.....	25	1	-	2	2	1	-	3	1	-	-	2	9	9	8
10. With Convulsive Disorders (Epilepsy).....	278	30	4	5	35	24	-	39	19	-	3	16	42	54	1
11. Senile Psychoses.....	148	14	-	4	34	9	-	16	6	-	-	11	9	54	-
12. Involutional Psychoses..... Diseases.....	41	2	-	3	6	1	-	1	2	-	-	8	7	7	-
13. Due to other Metabolic, etc. Diseases.....	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-
14. Due to New Growth.....	25	3	-	-	2	1	-	5	1	-	-	1	4	8	-
15. With Organic Changes of Nervous System.....	171	10	1	3	35	21	-	19	15	-	-	10	12	23	5
16. Psychonuroses.....	303	31	-	6	45	11	-	46	63	-	1	21	33	57	1
17. Manic-Depressive Psychoses.....	303	64	-	18	123	37	-	76	63	-	2	39	64	109	8
18. Dementia Praecox (Schizophrenia).....	39	1	-	-	2	2	-	6	4	-	-	1	14	9	-
19. Paranoia and Paranoid Conditions.....	9	1	-	1	1	6	-	2	2	-	-	1	2	4	-
20. With Psychopathic Personality.....	55	2	1	1	8	6	-	15	6	-	-	6	5	4	1
21. With Mental Deficiency.....	22	2	-	-	2	1	-	2	12	-	-	4	1	-	-
22. Undiagnosed Psychoses.....															
231a. Epileptics not Psychotic or Feebleminded.....	38	2	-	-	3	2	-	1	1	-	1	-	-	2	26
231b. Epileptics who are Feebleminded.....	45	3	-	-	10	3	-	3	5	-	-	1	-	20	30
232. Alcoholism.....	46	3	-	1	1	3	-	-	-	-	-	-	-	3	-
233. Drug Addiction.....	7	3	-	-	-	-	-	-	-	-	-	-	-	-	-
234. Mental Deficiency.....	334	13	15	1	21	11	-	18	20	196	2	13	13	8	3
235. Disorders of Personality.....															
236. Psychopathic Personality.....	27	-	-	-	6	3	-	3	5	-	1	6	3	1	1
237. Other Non-Psychotic Diseases or Conditions.....	14	2	-	-	6	3	-	3	3	-	-	-	1	2	-
24. Primary Behaviour Disorders.....	19	2	-	-	5	4	-	3	1	-	-	1	2	1	-
25. No Mental Illness or Mental Defect.....	20	2	-	2	3	5	-	-	2	-	1	3	-	2	-
Total 1-22.....	2,163	186	6	65	388	140	-	294	236	-	11	148	284	379	26
Total 23-25.....	550	25	15	4	55	28	-	28	37	210	5	25	19	39	60
GRAND TOTAL.....	2,713	211	21	69	443	168	-	322	273	210	16	173	303	418	86

WITH PSYCHOSIS

WITHOUT PSYCHOSIS



TABLE No. 21  
FIRST ADMISSIONS BY MARITAL STATUS AND DIAGNOSIS

DIAGNOSIS	Single		Married		Widowed		Divorced		Separated		Uncertained		TOTAL		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	
01. With Syphilitic Meningo-Encephalitis.....	19	1	20	35	15	50	2	11	1	1	1	5	68	19	87
02. With other forms of Syphilis.....	—	—	2	1	1	2	—	—	—	—	—	—	1	1	2
03. With Epidemic Encephalitis.....	2	—	2	—	—	—	—	—	—	—	—	—	3	1	3
04. With other Infectious Diseases.....	1	—	1	2	2	—	—	—	—	—	—	—	1	2	3
05. Alcoholic Psychoses.....	19	—	19	20	2	25	4	1	1	5	2	7	49	5	54
06a. Due to Opium and Other Drugs.....	1	1	2	3	2	5	1	1	—	1	1	1	4	3	7
06b. Due to other Exogenous Toxins.....	1	1	2	3	2	5	—	2	—	—	—	—	4	4	8
07. Traumatic Psychoses.....	25	17	42	68	41	109	44	56	1	3	3	6	140	118	258
08. With Cerebral Arteriosclerosis.....	8	5	13	8	9	17	2	4	—	1	1	1	10	15	25
09. With other Disturbances of Circulation.....	23	37	60	45	34	79	36	97	1	—	—	—	107	171	278
10. With Convulsive Disorders (Epilepsy).....	8	19	27	40	59	99	1	18	1	2	3	5	49	99	148
11. Senile Psychoses.....	4	1	5	7	23	30	—	3	—	2	1	3	13	28	41
12. Involutional Psychoses.....	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—
13. Due to other Metabolic, etc. Diseases.....	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—
14. Due to New Growth.....	5	3	8	7	7	14	—	—	—	—	—	—	4	1	5
15. With Organic Changes of Nervous System.....	17	23	40	31	60	91	3	9	1	2	2	2	13	12	25
16. Psychoneuroses.....	38	40	78	66	137	203	3	14	1	1	1	1	55	99	154
17. Manic-Depressive Psychoses.....	213	162	375	56	135	191	7	16	2	3	5	15	114	201	315
18. Dementia Praecox (Schizophrenia).....	4	16	18	8	11	19	1	3	2	3	8	11	286	317	603
19. Paranoia and Paranoid Conditions.....	7	1	8	9	—	—	1	3	2	1	3	4	16	23	39
20. With Sympathetic Personality.....	22	18	40	1	8	9	1	1	—	—	—	—	8	1	9
21. With Mental Deficiency.....	1	3	4	3	10	13	2	2	—	1	1	1	25	30	55
22. Undiagnosed Psychoses.....	—	—	—	—	—	—	—	—	—	—	—	—	6	16	22
231a. Epileptics not Psychotic or Feeble-minded.....	15	9	24	4	4	8	—	1	1	1	1	4	22	16	38
231b. Epileptics who are Feeble-minded.....	20	23	43	29	2	31	—	—	—	—	—	—	20	25	45
232. Alcoholism.....	7	2	9	2	2	4	—	—	1	1	2	3	40	6	46
233. Drug Addiction.....	2	—	2	3	2	5	—	—	—	—	—	—	5	2	7
234. Mental Deficiency.....	173	147	320	2	8	10	1	1	—	2	1	3	177	157	334
235. Disorders of Personality.....	13	4	17	5	3	8	—	—	—	—	—	—	—	—	—
236. Psychopathic Personality.....	5	—	5	3	3	6	—	—	1	1	1	2	19	8	27
237. Other Psychotic Diseases or conditions.....	12	2	14	2	2	4	4	—	—	—	—	—	7	7	14
24. Primary Behaviour Disorders.....	9	2	11	7	—	—	—	—	—	—	—	—	14	5	19
25. No mental illness or mental defect.....	—	—	—	—	—	—	—	—	—	—	—	—	18	2	20
TOTAL 1-22.....	420	339	759	403	562	965	114	219	333	36	49	85	986	1,177	2,163
TOTAL 23-25.....	256	189	445	53	25	78	—	7	7	10	5	15	322	228	550
GRAND TOTAL.....	676	528	1,204	456	587	1,043	114	226	340	46	54	100	1,308	1,405	2,713

With Psychosis

WITHOUT PSYCHOSIS

TABLE No. 22

## FIRST ADMISSIONS BY AGE AND DIAGNOSIS

DIAGNOSIS	AGE GROUP																							
	Under 10		10-14		15-19		20-24		25-29		30-34		35-39		40-44									
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.								
01. With Syphilitic Meningo-Encephalitis.	-	-	-	-	1	-	-	-	1	1	2	4	2	6	6	1	7	9	4	13				
02. With other forms of Syphilis.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2			
03. With Epidemic Encephalitis.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1			
04. With other Infectious Diseases.	-	-	-	-	-	-	-	-	3	4	3	4	1	1	7	9	1	9	1	10	-			
05. Alcoholic Psychoses.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
06a. Due to Opium and Other Drugs.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
06b. Due to other Exogenous Toxins.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
07. Traumatic Psychoses.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
08. With Cerebral Arteriosclerosis.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
09. With other Disturbances of Circulation.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
10. With Convulsive Disorders (Epilepsy).	-	-	-	-	2	-	-	-	2	2	4	3	3	6	-	-	-	-	-	-	-			
11. Senile Psychoses.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
12. Involutional Psychoses.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
13. Due to other Metabolic, etc. Diseases.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
14. Due to New Growth.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
15. With Organic Changes of Nervous System.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
16. Psychoneuroses.	-	-	-	-	1	9	10	5	13	18	4	12	16	7	13	20	8	17	25	5	11			
17. Manic-Depressive Psychoses.	-	-	-	-	7	8	15	4	18	22	6	19	25	12	32	44	16	31	47	17	27			
18. Dementia Praecox (Schizophrenia).	-	-	-	-	85	21	56	52	56	108	42	61	103	40	61	101	42	37	79	28	26			
19. Paranoia and Paranoid Conditions.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
20. With Psychopathic Personality.	-	-	-	-	1	1	2	3	3	3	1	1	1	1	1	1	2	3	5	1	4			
21. With Mental Deficiency.	-	-	-	-	6	3	9	9	7	16	1	1	1	1	1	1	1	1	1	1	1			
22. Undiagnosed Psychoses.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
231a. Epileptics not Psychotic or Feeble-minded.	-	-	-	-	7	9	9	1	2	3	7	7	1	2	3	3	6	3	1	4	4			
231b. Epileptics who are Feeble-minded.	3	4	7	3	6	10	4	3	7	2	1	2	3	3	3	3	3	3	3	1	1			
232. Alcoholism.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
233. Drug Addiction.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
234. Mental Deficiency.	53	31	84	34	22	56	90	11	8	19	11	13	24	7	4	11	6	7	13	5	10			
235. Disorders of Personality.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
236. Psychopathic Personality.	-	-	-	-	2	2	4	4	3	7	6	1	7	2	1	3	1	1	2	1	1			
237. Other Non-Psychotic Diseases or Conditions.	-	-	-	-	2	2	4	2	2	2	1	2	1	1	1	1	1	1	1	1	2			
24. Primary Behaviour Disorders.	1	1	1	2	5	2	7	1	1	2	2	2	1	1	1	1	2	1	3	1	1			
25. No Mental Illness or Mental Defect.	-	-	-	-	4	4	4	2	2	3	3	1	3	1	1	1	1	1	1	1	2			
Total 1-22.....	-	-	-	1	2	3	54	42	96	79	98	177	61	104	165	72	120	192	89	103	192	79	91	170
Total 23-25.....	57	35	92	40	28	68	62	72	124	26	17	43	34	17	51	19	10	29	24	12	36	15	11	26
GRAND TOTAL.....	57	35	92	41	30	71	106	114	220	105	115	220	95	121	216	91	130	221	113	115	228	94	102	196

WITH PSYCHOSIS

WITHOUT PSYCHOSIS

TABLE No. 22—(Continued)  
FIRST ADMISSIONS BY AGE AND DIAGNOSIS

DIAGNOSIS	AGE GROUP																		TOTAL			
	45-49			50-54			55-59			60-64			65-69			70 and Over			Unascertained			
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	
01. With Syphilitic Meningo-Encephalitis.....	11	5	16	14	3	17	8	2	10	6	—	6	4	1	5	4	—	4	68	19	87	
02. With other forms of Syphilis.....	—	1	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	1	1	2
03. With Epidemic Encephalitis.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	3	3	
04. With other Infectious Diseases.....	6	—	6	9	1	10	4	—	4	2	2	4	2	—	2	1	1	2	49	3	54	
05. Alcoholic Psychoses.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	3	7	
06a. Due to Optum and Other Drugs.....	—	1	1	—	—	—	—	—	—	—	1	1	—	—	—	1	1	2	4	3	4	
06b. Due to other Exogenous Toxins.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
07. Traumatic Psychoses.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	4	6	
08. With Cerebral Arteriosclerosis.....	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	4	2	
09. With other Disturbances of Circulation.....	—	1	1	1	2	3	6	7	13	11	14	25	27	32	59	94	62	156	140	118	258	
10. With Convulsive Disorders (Epilepsy).....	—	2	2	1	1	2	2	3	5	3	3	6	2	3	5	2	4	6	10	13	25	
11. Senile Psychoses.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	10	15	
12. Involutional Psychoses.....	8	25	33	16	20	36	12	25	37	8	13	21	4	5	9	1	2	4	107	171	278	
13. Due to other Metabolic, etc. Diseases.....	2	—	—	1	4	5	5	4	9	2	3	5	2	3	5	1	2	3	19	99	148	
14. Due to New Growth.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13	28	41	
15. With Organic Changes of Nervous System.....	1	2	3	3	2	5	—	—	—	1	1	—	—	—	—	—	—	—	4	1	5	
16. Psychoneuroses.....	10	5	15	5	6	11	6	2	8	2	6	8	2	2	4	—	—	—	13	12	25	
17. Manic-Depressive Psychoses.....	8	16	24	7	15	22	15	10	25	9	12	21	3	8	11	10	3	12	55	99	154	
18. Dementia Praecox (Schizophrenia).....	14	17	31	12	7	19	6	15	21	5	11	16	6	2	8	3	2	5	144	201	315	
19. Paranoia and Paranoid Conditions.....	4	3	7	1	4	5	3	1	7	2	3	5	2	1	3	—	—	—	286	317	603	
20. With Psychopathic Personality.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16	23	39	
21. With Mental Deficiency.....	1	1	2	1	1	2	1	—	—	1	1	2	1	1	2	1	—	—	25	30	55	
22. Undiagnosed Psychoses.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6	16	22	
231a. Epileptics not Psychotic or Feeble-minded.....	1	1	2	2	1	3	—	—	—	1	—	1	—	—	—	—	—	—	22	16	38	
231b. Epileptics who are Feeble-minded.....	1	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20	25	45	
232. Alcoholism.....	5	3	8	10	—	10	4	—	4	1	—	1	2	—	2	—	—	—	40	6	46	
233. Drug Addiction.....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	2	7	
234. Mental Deficiency.....	7	2	9	5	6	11	1	2	3	1	1	2	1	1	2	—	—	—	177	157	334	
235. Disorders of Personality.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
236. Psychopathic Personality.....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19	8	27	
237. Other Non-Psychotic Diseases or Conditions.....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7	7	14	
238. Primary Behaviour Disorders.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14	5	19	
239. No Mental Illness or Mental Defect.....	2	—	—	3	1	3	—	—	—	—	—	—	—	—	—	—	—	—	18	2	20	
Total 1-22.....	67	81	148	77	73	150	69	77	146	54	76	130	68	66	134	215	244	459	986	1,177	2,163	
Total 23-25.....	19	7	26	20	11	31	6	2	8	4	1	5	4	3	7	2	2	4	322	228	550	
GRAND TOTAL.....	86	88	174	97	84	181	75	79	154	58	77	135	72	69	141	217	246	463	1,308	1,405	2,713	

WITH PSYCHOSIS

WITHOUT PSYCHOSIS

TABLE No. 23  
FIRST ADMISSIONS BY RACIAL ORIGIN AND DIAGNOSIS

English		Irish		Scotch		French		German		Hebrew		Italian		Slavonic				
		M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.		
DIAGNOSIS																		
With Psychosis																		
01.	With Syphilitic Meningo-Encephalitis.....	25	8	33	7	1	1	2	3	5	3	8	1	1	2	3	4	7
02.	With other forms of Syphilis.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
03.	With Epidemic Encephalitis.....	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
04.	With other Infectious Diseases.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
05.	Alcoholic Psychoses.....	14	2	16	8	1	9	5	6	6	1	7	1	1	1	5	5	5
06a.	Due to Opium and Other Drugs.....	1	3	4	1	1	2	2	3	1	1	1	1	1	1	1	1	1
06b.	Due to other Exogenous Toxins.....	1	2	2	2	2	4	1	2	3	1	1	1	1	1	1	1	1
07.	Traumatic Psychoses.....	61	58	119	28	19	47	19	18	37	8	3	11	6	3	9	4	4
08.	With Cerebral Arteriosclerosis.....	4	8	12	4	4	4	2	3	3	2	3	1	1	1	1	1	1
09.	With other Disturbances of Circulation.....	4	2	6	3	1	4	2	2	2	2	3	1	1	1	1	1	1
10.	With Convulsive Disorders (Epilepsy).....	52	86	138	17	42	59	17	30	47	8	3	11	4	3	7	1	1
11.	Senile Psychoses.....	25	49	74	9	10	19	4	12	16	2	10	12	2	1	3	2	3
12.	Involutional Psychoses.....	7	13	20	2	5	7	2	4	6	2	3	3	1	1	1	1	1
13.	Due to other Metabolic, etc. Diseases.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14.	Due to New Growth.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15.	With Organic Changes of Nervous System.....	22	49	71	6	13	19	4	8	12	7	6	13	1	5	6	2	1
16.	Psychoneuroses.....	49	75	124	18	29	47	10	26	36	15	19	34	2	12	14	4	3
17.	Manic-Depressive Psychoses.....	80	137	217	25	39	64	26	36	62	51	26	77	21	14	35	4	4
18.	Dementia Praecox (Schizophrenia).....	2	8	10	1	3	4	1	4	5	1	1	2	4	5	9	1	1
19.	Paranoia and Paranoid Conditions.....	3	3	3	3	3	3	2	1	3	3	3	3	3	3	3	3	3
20.	With Psychopathic Personality.....	12	9	21	3	3	4	7	3	4	4	3	7	2	1	3	2	2
21.	With Mental Deficiency.....	4	7	11	1	1	2	2	1	1	1	1	1	1	1	1	1	1
22.	Undiagnosed Psychoses.....	4	7	11	1	1	2	2	1	1	1	1	1	1	1	1	1	1
WITHOUT Psychosis																		
231a.	Epileptics not Psychotic or Feeble-minded.....	8	8	16	4	3	7	1	1	2	2	4	4	1	1	2	1	1
231b.	Epileptics who are Feeble-minded.....	9	11	20	1	2	3	3	3	5	3	6	3	1	1	2	2	2
232.	Alcoholism.....	13	2	15	14	2	16	5	2	7	3	3	3	1	1	1	1	1
233.	Drug Addiction.....	1	1	2	3	1	2	3	1	1	1	1	1	1	1	1	1	1
234.	Mental Deficiency.....	67	62	129	14	18	32	21	12	33	26	9	35	5	3	8	2	3
235.	Disorders of Personality.....	8	4	12	6	3	9	3	3	3	1	1	1	1	1	1	1	1
236.	Psychopathic Personality.....	2	3	5	1	1	2	1	1	2	1	1	1	1	1	1	1	1
237.	Other Non-Psychotic Diseases or Conditions.....	7	7	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24.	Primary Behaviour Disorders.....	7	7	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25.	No Mental Illness or Mental Defect.....	7	7	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total 1-22.....		378	520	898	137	179	316	99	154	253	110	80	190	45	48	93	13	17
Total 23-25.....		122	92	214	42	31	73	40	18	58	38	17	55	7	5	12	5	3
GRAND TOTAL.....		500	612	1,112	179	210	389	139	172	311	148	97	245	52	53	105	18	20

TABLE No. 23—(Continued)  
FIRST ADMISSIONS BY RACIAL ORIGIN AND DIAGNOSIS

DIAGNOSIS	Scandinavian		Other European Races		Chinese and Japanese		Other Asiatic Races		American Indian		Others		Unspecified		TOTAL			
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
01. With Syphilitic Meningo-Encephalitis.....	5	—	8	—	8	—	1	—	1	—	—	—	1	1	68	19	87	
02. With other forms of Syphilis.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	1	3	
03. With Epidemic Encephalitis.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	—	3	
04. With other Infectious Diseases.....	1	1	8	—	8	—	—	—	—	—	—	—	—	1	49	5	54	
05. Alcoholic Psychoses.....	—	—	1	—	1	—	—	—	—	—	—	—	—	—	4	3	7	
06a. Due to Opium and Other Drugs.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	4	5	
06b. Due to other Exogenous Toxins.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	4	5	
07. Traumatic Psychoses.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	2	6	
08. With Cerebral Arteriosclerosis.....	2	2	5	4	9	—	—	—	—	—	—	—	6	3	140	118	258	
09. With other Disturbances of Circulation.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10	15	25	
10. With Convulsive Disorders (Epilepsy).....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9	10	19	
11. Senile Psychoses.....	3	—	3	—	11	1	2	—	1	1	2	3	4	7	107	171	278	
12. Involutional Psychoses.....	1	—	1	—	1	1	2	—	—	—	—	—	—	—	13	28	41	
13. Due to New Growth.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	1	5	
14. Due to other Metabolic, etc. Diseases.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13	12	25	
15. With Organic Changes of Nervous System.....	1	1	2	4	6	10	1	1	—	—	—	—	—	2	55	99	154	
16. Psychoneuroses.....	2	3	7	4	12	16	2	—	—	—	—	—	—	2	114	201	315	
17. Manic-Depressive Psychoses.....	2	3	5	4	12	16	2	—	—	—	—	—	—	1	7	8	15	
18. Dementia Praecox (Schizophrenia).....	11	4	15	21	36	1	2	3	—	2	1	3	4	2	286	317	603	
19. Paranoia and Paranoid Conditions.....	1	1	2	—	—	—	—	—	—	—	—	—	—	—	16	23	39	
20. With Psychopathic Personality.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8	1	9	
21. With Mental Deficiency.....	—	1	1	—	—	—	—	—	—	1	1	—	—	2	25	30	55	
22. Undiagnosed Psychoses.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6	16	22	
231a. Epileptics not Psychotic or Feeble-minded.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22	16	38	
231b. Epileptics who are Feeble-minded.....	—	—	—	1	1	—	—	—	—	1	—	—	—	1	20	25	45	
232. Alcoholism.....	—	—	2	—	2	—	—	—	—	—	—	—	—	1	40	6	46	
233. Drug Addiction.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	2	7	
234. Mental Deficiency.....	2	—	8	8	16	1	—	—	—	5	4	9	20	33	177	157	334	
235. Disorders of Personality.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
236. Psychopathic Personality.....	—	1	1	—	—	—	—	—	—	—	—	—	—	—	19	8	27	
237. Other Non-Psychotic Diseases or Conditions.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7	7	14	
24. Primary Behaviour Disorders.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14	5	19	
25. No Mental Illness or Mental Defect.....	1	—	2	—	—	—	—	—	—	—	—	—	—	1	18	2	20	
Total 1-22.....	27	18	45	63	69	112	12	4	16	1	5	3	8	6	6	24	29	53
Total 23-25.....	3	1	4	13	11	24	1	—	1	7	5	12	4	—	25	36	62	
GRAND TOTAL.....	30	19	49	66	70	136	13	4	17	2	12	8	20	6	16	50	65	115
Total 1-22.....	27	18	45	63	69	112	12	4	16	1	5	3	8	6	6	24	29	53
Total 23-25.....	3	1	4	13	11	24	1	—	1	7	5	12	4	—	25	36	62	
GRAND TOTAL.....	30	19	49	66	70	136	13	4	17	2	12	8	20	6	16	50	65	115

WITH PSYCHOSIS

WITHOUT PSYCHOSIS

TABLE No. 24  
PREVIOUS OCCUPATION OF FIRST ADMISSIONS

PREVIOUS (USUAL) OCCUPATION	Male	Female	TOTAL
Agriculture.....	161	2	163
Commercial.....	47	7	54
Financial.....	5	-	5
Fishing and Trapping.....	7	-	7
Logging.....	18	-	18
Manufacturing.....	40	7	47
Mining.....	16	-	16
Transportation and Communication.....	45	1	46
Civil Service and Public Administration.....	11	1	12
Personal Service.....	41	763	804
Professional.....	36	40	76
Domestic Service.....	7	152	159
Expert Workers.....	131	30	161
Labourers.....	339	22	361
Clerical.....	40	63	103
Retired.....	108	27	135
No occupation.....	242	282	524
Not given.....	14	8	22
<b>TOTAL.....</b>	<b>1,308</b>	<b>1,405</b>	<b>2,713</b>

TABLE  
FIRST ADMISSIONS BY EDUCATIONAL

	DIAGNOSIS	Illiterate			Reads Only		
		M.	F.	T.	M.	F.	T.
WITH PSYCHOSIS	01. With Syphilitic Meningo-Encephalitis.....	2	2	4	-	1	1
	02. With other forms of Syphilis.....	-	1	1	-	-	-
	03. With Epidemic Encephalitis.....	-	-	-	-	-	-
	04. With other Infectious Diseases.....	-	-	-	-	-	-
	05. Alcoholic Psychoses.....	-	-	-	-	-	-
	06a. Due to Opium and Other Drugs.....	-	-	-	-	-	-
	06b. Due to other Exogenous Toxins.....	-	-	-	-	-	-
	07. Traumatic Psychoses.....	-	1	1	-	-	-
	08. With Cerebral Arteriosclerosis.....	5	7	12	1	-	1
	09. With other Disturbances of Circulation.....	-	1	1	-	-	-
	10. With Convulsive Disorders (Epilepsy).....	1	-	1	-	-	-
	11. Senile Psychoses.....	8	4	12	-	1	1
	12. Involutional Psychoses.....	2	1	3	-	-	-
	13. Due to other Metabolic, etc. Diseases.....	1	1	2	-	-	-
	14. Due to New Growth.....	-	-	-	-	-	-
	15. With Organic Changes of Nervous System.....	-	-	-	-	-	-
	16. Psychoneuroses.....	-	1	1	-	-	-
	17. Manic-Depressive Psychoses.....	3	2	5	1	1	2
	18. Dementia Praecox (Schizophrenia).....	2	3	5	1	2	3
	19. Paranoia and Paranoid Conditions.....	1	-	1	-	-	-
	20. With Psychopathic Personality.....	-	-	-	-	-	-
	21. With Mental Deficiency.....	5	7	12	2	-	2
22. Undiagnosed Psychoses.....	-	1	1	-	-	-	
WITHOUT PSYCHOSIS	231a. Epileptics not Psychotic or Feeble-minded.....	-	-	-	-	-	-
	231b. Epileptics who are Feeble-minded.....	8	14	22	-	-	-
	232. Alcoholism.....	-	-	-	-	-	-
	233. Drug Addiction.....	-	-	-	-	-	-
	234. Mental Deficiency.....	125	83	208	3	1	4
	235. Disorders of Personality.....	-	-	-	-	-	-
	236. Psychopathic Personality.....	-	-	-	-	-	-
	237. Other Non-Psychotic Diseases or Conditions.....	1	1	2	-	1	1
	24. Primary Behaviour Disorders.....	-	-	-	-	-	-
	25. No Mental Illness or Mental Defect.....	-	-	-	-	-	-
	Total 1-22.....	30	32	62	5	5	10
	Total 23-25.....	134	98	232	3	2	5
	GRAND TOTAL.....	164	130	294	8	7	15

No. 25

STATUS AND DIAGNOSIS

Reads and Writes			Common School			High School			University			Unascertained			TOTAL		
M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
6	2	8	39	10	49	6	2	8	2	-	2	13	2	15	68	19	87
-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	1	1	2
-	-	-	3	-	3	-	-	-	-	-	-	-	-	-	3	-	3
-	1	1	1	1	2	-	-	-	-	-	-	-	-	-	1	2	3
5	1	6	32	3	35	8	1	9	4	-	4	-	-	-	49	5	54
-	-	-	3	2	5	-	1	1	1	-	1	-	-	-	4	3	7
-	-	-	1	2	3	-	1	1	-	1	1	-	-	-	1	4	5
-	-	-	2	1	3	1	-	1	-	-	-	1	-	1	4	2	6
13	15	28	89	66	155	7	13	20	10	3	13	15	14	29	140	118	258
-	2	2	4	11	15	3	1	4	2	-	2	1	-	1	10	15	25
1	-	1	7	7	14	-	3	3	-	-	-	-	-	-	9	10	19
8	19	27	57	89	146	8	30	38	4	4	8	22	24	46	107	171	278
3	11	14	35	62	97	4	19	23	5	4	9	-	2	2	49	99	148
1	2	3	7	14	21	3	9	12	-	1	1	1	1	2	13	28	41
1	-	1	1	-	1	1	1	2	1	-	1	-	-	-	4	1	5
1	2	3	9	7	16	3	-	3	-	2	2	-	1	1	13	12	25
4	4	8	32	54	86	13	39	52	4	-	4	2	1	3	55	99	154
8	10	18	68	108	176	22	70	92	9	7	16	3	3	6	114	201	315
27	16	43	173	159	332	63	120	183	11	8	19	9	9	18	286	317	603
2	2	4	9	13	22	3	7	10	-	-	-	1	1	2	16	23	39
-	-	-	5	1	6	3	-	3	-	-	-	-	-	-	8	1	9
3	8	11	13	13	26	-	1	1	-	-	-	2	1	3	25	30	55
1	2	3	4	12	16	-	-	-	-	-	-	1	1	2	6	16	22
7	2	9	10	12	22	4	2	6	-	-	-	1	-	1	22	16	38
7	4	11	4	7	11	1	-	1	-	-	-	-	-	-	20	25	45
2	-	2	21	2	23	15	4	19	2	-	2	-	-	-	40	6	46
-	-	-	3	-	3	2	2	4	-	-	-	-	-	-	5	2	7
32	62	94	13	9	22	-	-	-	-	-	-	4	2	6	177	157	334
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	5	12	6	18	-	2	2	1	-	1	1	-	1	19	8	27
1	-	1	1	3	4	1	2	3	-	-	-	3	-	3	7	7	14
2	-	2	10	3	13	1	2	3	-	-	-	1	-	1	14	5	19
-	1	1	13	1	14	4	-	4	-	-	-	1	-	1	18	2	20
84	97	181	595	635	1,230	148	318	466	53	30	83	71	60	131	986	1,177	2,163
56	69	125	87	43	130	28	14	42	3	-	3	11	2	13	322	228	550
140	166	306	682	678	1,360	176	332	508	56	30	86	82	62	144	1,308	1,405	2,713



TABLE No. 26  
ALCOHOLIC HABITS OF FIRST ADMISSIONS BY DIAGNOSIS

DIAGNOSIS	Abstinent		Temperate		Intemperate		Unascertained		TOTAL						
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.					
	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.					
01. With Syphilitic Meningo-Encephalitis.....	14	8	22	29	8	37	12	14	13	14	68	19	87		
02. With other forms of Syphilis.....	1	-	1	2	1	2	-	1	1	-	3	1	2		
03. With Epidemic Encephalitis.....	-	1	1	1	1	2	-	-	1	-	3	2	3		
04. With other Infectious Diseases.....	-	1	3	3	46	5	51	-	-	-	49	5	54		
05. Alcoholic Psychoses.....	1	2	3	1	1	2	-	-	-	-	4	3	7		
06a. Due to Opium and Other Drugs.....	-	4	4	1	-	1	-	-	-	-	4	4	5		
06b. Due to other Exogenous Toxins.....	3	2	5	1	-	1	-	-	-	-	4	2	6		
07. Traumatic Psychoses.....	55	98	153	48	12	60	24	26	13	6	140	118	258		
08. With Cerebral Arteriosclerosis.....	4	12	16	5	2	7	1	2	10	15	25	10	25		
09. With other Disturbances of Circulation.....	6	9	15	2	1	3	1	1	9	10	19	9	19		
10. With Convulsive Disorders (Epilepsy).....	51	153	204	32	16	48	5	5	19	2	107	171	278		
11. Senile Psychoses.....	17	75	92	28	21	49	2	2	2	3	49	99	148		
12. Involutional Psychoses.....	4	26	30	4	2	6	4	4	1	1	13	28	41		
13. Due to other Metabolic, etc. Diseases.....	3	1	4	1	-	1	-	-	-	-	4	1	5		
14. Due to New Growth.....	1	10	11	8	2	10	3	3	1	1	13	12	25		
15. With Organic Changes of Nervous System.....	25	53	78	23	41	61	7	2	3	3	55	99	154		
16. Psychoneuroses.....	34	141	178	43	44	87	31	7	6	6	114	201	315		
17. Manic-Depressive Psychoses.....	118	225	343	106	61	170	42	11	20	17	286	317	603		
18. Dementia Praecox (Schizophrenia).....	6	19	25	5	4	9	3	3	2	2	16	23	39		
19. Paranoia and Paranoid Conditions.....	3	-	3	2	2	4	2	1	1	1	8	1	9		
20. With Psychopathic Personality.....	11	25	36	7	3	10	4	1	3	1	25	30	55		
21. With Mental Deficiency.....	-	12	12	4	2	6	1	-	1	2	6	16	22		
22. Undiagnosed Psychoses.....	-	-	-	-	-	-	-	-	-	-	-	-	-		
231a. Epileptics not Psychotic or Feeble-minded.....	5	11	16	8	3	11	8	2	1	-	22	16	38		
231b. Epileptics who are Feeble-minded.....	14	24	38	3	3	3	3	1	1	-	20	25	45		
232. Alcoholism.....	-	-	-	9	2	9	31	6	-	-	40	6	46		
233. Drug Addiction.....	1	-	1	3	2	5	-	-	1	-	5	2	7		
234. Mental Deficiency.....	153	149	302	13	2	15	5	3	6	3	177	157	334		
235. Disorders of Personality.....	2	3	5	9	1	10	7	4	1	1	19	8	27		
236. Psychopathic Personality.....	2	6	8	1	1	1	4	1	4	1	7	7	14		
237. Other non-psychotic diseases or conditions.....	8	-	8	1	3	4	1	1	4	1	14	5	19		
24. Primary Behaviour Disorders.....	7	-	7	4	2	6	6	1	1	1	18	2	20		
25. No mental illness or mental defect.....	-	-	-	-	-	-	-	-	-	-	-	-	-		
TOTAL 1-22.....	357	879	1,236	355	224	579	191	33	224	83	41	124	986	1,177	2,163
TOTAL 23-25.....	192	193	385	51	13	64	61	17	78	18	5	23	322	228	550
GRAND TOTAL.....	549	1,072	1,621	406	237	643	252	50	302	101	46	147	1,308	1,405	2,713

With Psychosis

Without Psychosis

TABLE No. 27  
DISPOSAL OF FIRST AND READMISSIONS DURING THE YEAR FOR CERTAIN PSYCHOSES  
DISPOSAL AS AT MARCH 31st

DIAGNOSIS	Discharged			Died			Transferred			Eloped and not returned			On Probation			In Boarding Homes			Remaining in Hospital			TOTAL ADMISSIONS					
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.			
Senile Psychosis.....	1	6	7	53	59	112	1	-	1	-	-	-	-	-	1	4	5	1	2	3	52	102	154	109	173	282	
Psychosis with Cerebral Arteriosclerosis.....	5	9	14	52	38	90	2	-	2	-	-	-	-	-	-	8	12	20	-	-	-	81	67	148	148	126	274
General Parais.....	8	3	11	9	2	11	19	5	24	-	-	-	-	-	1	7	9	1	-	1	41	12	53	80	29	109	
Alcoholic Psychosis.....	28	1	29	2	1	3	-	-	-	-	-	-	-	-	1	2	8	1	-	1	18	1	19	55	5	60	
Manic-Depressive Psychosis.....	69	84	153	8	9	17	4	6	10	-	-	-	-	-	1	49	110	159	1	5	6	81	152	233	212	366	578
Dementia Praecox (Schizophrenia).....	73	47	120	4	11	15	11	17	28	5	-	5	-	5	1	66	105	171	1	4	5	245	270	515	405	454	859
All Other Psychoses.....	83	120	203	19	22	41	1	4	5	1	-	1	-	1	41	98	139	1	6	7	122	190	312	268	440	708	
Alcoholism without Psychosis.....	27	3	30	-	-	-	-	-	-	-	-	-	-	-	8	-	8	-	-	-	-	17	4	21	52	7	59
Others without Psychosis.....	74	33	107	6	4	10	3	3	6	5	1	6	-	26	23	49	3	2	5	214	190	404	331	256	587		
TOTAL.....	368	306	674	153	146	299	41	35	76	11	1	12	207	361	568	9	19	28	871	988	1,859	1,660	1,856	3,516			

TABLE No. 26  
DISCHARGES BY AGE AND DIAGNOSIS

DIAGNOSIS	AGE GROUP															
	Under 10		10-14		15-19		20-24		25-29		30-34		35-39		40-44	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
01. With Syphilitic Meningo-Encephalitis.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02. With other forms of Syphilis.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03. With Epidemic Encephalitis.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04. With other Infectious Diseases.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05. Alcoholic Psychoses.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06a. Due to Opium and Other Drugs.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06b. Due to other Exogenous Toxins.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07. Traumatic Psychoses.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08. With Cerebral Arteriosclerosis.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09. With other Disturbances of Circulation.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10. With Convulsive Disorders (Epilepsy).....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11. Senile Psychoses.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12. Involutional Psychoses.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13. Due to other Metabolic, etc. Diseases.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14. Due to New Growth.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15. With Organic Changes of Nervous System.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16. Psychoneuroses.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17. Manic-Depressive Psychoses.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18. Dementia Praecox (Schizophrenia).....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19. Paranoia and Paranoid Conditions.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20. With Psychopathic Personality.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21. With Mental Deficiency.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22. Undiagnosed Psychoses.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
231a. Epileptics not Psychotic or Feeble-minded.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
231b. Epileptics who are Feeble-minded.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
232. Alcoholism.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
233. Drug Addiction.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
234. Mental Deficiency.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
235. Disorders of Personality.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
236. Psychopathic Personality.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
237. Other non-psychotic diseases or conditions.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24. Primary Behaviour Disorders.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25. No mental illness or mental defect.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL 1-22.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL 23-25.....	5	5	10	7	-	7	-	7	28	49	77	40	48	88	32	23
GRAND TOTAL.....	5	5	10	7	1	8	54	78	132	94	114	208	94	114	208	91

WITH PSYCHOSIS

WITHOUT PSYCHOSIS

TABLE No. 28—(Continued)  
DISCHARGES BY AGE AND DIAGNOSIS

DIAGNOSIS	AGE GROUP												TOTAL					
	45-49		50-54		55-59		60-64		65-69		70 and Over		Unascertained		M.	F.	T.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	T.	M.	F.	T.
01. With Syphilitic Meningo-Encephalitis.....	10	4	14	7	2	9	3	1	4	2	2	1	1	1	1	38	11	49
02. With other forms of Syphilis.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	6
03. With Epidemic Encephalitis.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	6
04. With other Infectious Diseases.....	13	1	13	4	4	4	4	4	4	1	2	1	2	1	2	49	4	53
05. Alcohol Psychoses.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	6
06a. Due to Opium and Other Drugs.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	6
06b. Due to other Exogenous Toxins.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	6
07. Toxic Psychoses.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	6
08. With Cerebral Atrophosis.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	6
09. With other Disturbances of Circulation.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	6
10. With Convulsive Disorders (Epilepsy).....	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	6	6	12
11. Senile Psychoses.....	4	21	25	10	30	40	14	21	35	9	15	24	4	6	10	42	104	146
12. Involutional Psychoses.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	6
13. Due to other Metabolic, etc. Diseases.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	6
14. Due to New Growth.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	6
15. With Organic Changes of Nervous System.....	11	6	17	4	7	11	3	8	11	4	8	12	3	2	5	58	109	167
16. Psychoneuroses.....	24	35	59	25	29	54	22	23	45	21	23	44	11	17	28	184	280	464
17. Manic-Depressive Psychoses.....	14	13	27	11	19	30	16	17	23	3	7	10	1	2	3	237	245	482
18. Dementia Praecox (Schizophrenia).....	1	3	4	1	1	2	1	6	7	1	1	2	1	2	1	8	18	26
19. Paranoia and Paranoid Conditions.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	6
20. With Psychopathic Personality.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	6
21. With Mental Deficiency.....	3	1	4	2	1	3	1	1	1	1	1	1	1	1	1	10	2	12
22. Undiagnosed Psychoses.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	6
231a. Epileptics not Psychotic or Feeble-minded.....	2	2	4	1	1	1	1	1	1	1	1	1	1	1	1	22	14	36
231b. Epileptics who are Feeble-minded.....	7	2	9	7	7	7	3	3	3	2	2	1	1	1	1	17	12	29
232. Alcoholism.....	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	43	30	73
233. Drug Addiction.....	2	4	6	2	1	1	3	1	4	1	1	1	1	1	1	9	3	12
234. Mental Deficiency.....	2	4	6	2	1	1	3	1	4	1	1	1	1	1	1	7	122	193
235. Disorders of Personality.....	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	25	5	30
236. Psychopathic Personality.....	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	6	6	12
237. Other Non-Psychotic Diseases or Conditions.....	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	6	4	10
24. Primary Behaviour Disorders.....	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	9	4	13
25. No Mental Illness or Mental Defect.....	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	17	3	20
Total 1-22.....	84	89	173	68	92	160	63	86	149	45	63	108	28	41	69	32	42	74
Total 23-25.....	17	8	25	12	3	15	7	3	10	5	1	6	3	3	6	4	1	4
GRAND TOTAL.....	101	97	198	80	95	175	70	89	159	50	64	114	31	44	75	36	42	78
Unascertained.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
TOTAL.....	699	889	1,588	219	176	395	918	1,065	1,983	2	2	2	2	2	2	2	2	2

WITH PSYCHOSIS

WITHOUT PSYCHOSIS

TABLE No. 29  
DISCHARGES BY CONDITION ON DISCHARGE AND DIAGNOSIS

DIAGNOSIS	FIRST ADMISSIONS											
	RECOVERED			IMPROVED			UNIMPROVED			TOTAL		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
01. With Syphilitic Meningo-Encephalitis.....	4	2	6	22	6	28	3	2	5	29	10	39
02. With other forms of Syphilis.....	1	1	1	1	1	1	—	—	—	2	—	2
03. With Epidemic Encephalitis.....	—	—	—	—	—	—	—	—	—	—	—	—
04. With other Infectious Diseases.....	1	2	3	5	2	7	1	1	1	2	3	5
05. Alcoholic Psychoses.....	33	2	35	5	2	7	3	3	3	41	4	45
06a. Due to Opium and Other Drugs.....	2	2	4	1	—	1	—	—	—	3	2	5
06b. Due to other Exogenous Toxins.....	—	3	3	—	2	2	—	—	—	—	2	5
07. Traumatic Psychoses.....	—	—	—	—	2	2	—	—	—	—	2	2
08. With Cerebral Arteriosclerosis.....	1	3	4	15	11	26	3	5	8	19	19	38
09. With other Disturbances of Circulation.....	1	1	2	1	3	4	—	—	—	2	4	6
10. With Convulsive Disorders (Epilepsy).....	1	4	5	3	4	7	2	2	4	6	10	16
11. Senile Psychoses.....	1	2	3	4	7	11	3	6	9	8	15	23
12. Involutional Psychoses.....	23	40	63	13	36	49	1	8	9	37	84	121
13. Due to other Metabolic, etc. Diseases.....	3	5	8	1	2	3	—	2	2	4	9	13
14. Due to New Growth.....	—	—	—	1	—	1	—	—	—	1	—	1
15. With Organic Changes of Nervous System.....	—	—	—	1	1	2	1	3	4	2	4	6
16. Psychoneuroses.....	14	45	59	29	38	67	5	5	10	48	88	136
17. Manic-Depressive Psychoses.....	61	121	182	28	40	68	6	2	8	95	163	258
18. Dementia Praecox (Schizophrenia).....	47	46	93	105	114	219	14	15	29	166	175	341
19. Paranoia and Paranoid Conditions.....	—	3	3	7	10	17	1	3	4	8	16	24
20. With Psychopathic Personality.....	3	—	3	2	1	3	—	—	—	5	1	6
21. With Mental Deficiency.....	—	1	2	5	13	18	1	3	4	7	17	24
22. Undiagnosed Psychoses.....	6	2	8	—	5	5	2	—	2	8	7	15
Total 1-22.....	203	284	487	244	298	542	46	56	102	493	638	1,131
Total 23-25.....	—	—	—	—	—	—	—	—	—	173	160	333
GRAND TOTAL.....	—	—	—	—	—	—	—	—	—	666	798	1,464

WITH PSYCHOSIS

TABLE No. 29—(Continued)

DISCHARGES BY CONDITION ON DISCHARGE AND DIAGNOSIS

DIAGNOSIS	READMISSIONS						TOTAL ADMISSIONS															
	RECOVERED		IMPROVED		UNIMPROVED		TOTAL		RECOVERED		IMPROVED		UNIMPROVED		TOTAL							
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	T.					
01. With Syphilitic Meningo-Encephalitis.....	2	-	2	6	1	7	1	1	1	10	6	2	8	28	7	35	4	2	6	38	11	49
02. With other forms of Syphilis.....	-	-	-	1	-	1	-	-	-	1	1	-	1	2	-	2	-	-	-	3	-	3
03. With Epidemic Encephalitis.....	-	-	-	1	-	1	-	-	-	1	1	-	1	1	-	1	-	-	-	1	-	1
04. With other Infectious Diseases.....	-	-	-	1	-	1	-	-	-	1	2	3	3	1	1	1	1	1	1	2	3	5
05. Alcoholic Psychoses.....	7	-	7	1	-	1	-	-	8	40	2	42	6	2	8	3	3	3	3	49	4	53
06a. Due to Opium and Other Drugs.....	-	-	-	-	-	-	-	-	-	2	2	4	1	-	2	2	-	-	-	3	2	5
06b. Due to other Exogenous Toxins.....	1	-	1	-	-	-	-	-	1	1	3	4	1	-	2	2	-	-	-	1	5	6
07. Traumatic Psychoses.....	1	-	1	-	-	-	-	-	2	1	3	4	1	-	2	2	1	-	1	2	5	6
08. With Cerebral Arteriosclerosis.....	-	1	1	1	1	2	1	1	1	3	4	1	4	5	16	12	28	3	6	20	22	42
09. With other Disturbances of Circulation.....	-	1	1	-	1	1	-	-	2	2	2	3	1	4	5	5	-	-	-	2	6	8
10. With Convulsive Disorders (Epilepsy).....	2	1	3	1	4	5	1	1	3	6	9	3	5	8	4	8	12	2	3	9	16	25
11. Senile Psychoses.....	-	-	-	-	-	-	-	-	1	2	3	4	7	11	3	6	9	8	15	23	8	15
12. Involutional Psychoses.....	2	14	16	3	4	7	2	2	5	20	25	54	79	16	40	56	1	10	11	42	104	146
13. Due to other Metabolic, etc. Diseases.....	1	1	2	-	2	2	-	-	1	3	4	4	6	10	1	4	5	-	2	5	12	17
14. Due to New Growth.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	1	-	1
15. With Organic Changes of Nervous System.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	1	3	4	2	4
16. Psychoneuroses.....	2	8	10	6	10	16	2	3	5	10	21	16	53	69	35	48	83	7	8	58	109	167
17. Manic-Depressive Psychoses.....	70	73	143	18	43	61	1	1	2	89	117	206	131	194	325	46	83	129	7	3	10	184
18. Dementia Praecox (Schizophrenia).....	23	16	39	41	47	88	7	7	14	71	70	141	70	62	132	146	161	307	21	22	43	237
19. Paranoia and Paranoid Conditions.....	-	1	1	-	1	1	-	-	2	2	2	4	4	7	11	18	1	3	4	8	18	26
20. With Psychopathic Personality.....	-	-	-	-	-	-	-	-	-	1	1	3	3	2	2	4	-	-	-	5	2	7
21. With Mental Deficiency.....	2	1	3	1	3	4	-	-	3	4	7	3	2	5	6	16	22	1	3	10	21	31
22. Undiagnosed Psychoses.....	-	-	-	1	1	2	-	-	1	1	2	6	2	8	1	6	7	2	-	9	8	17
Total 1-22.....	113	117	230	81	119	200	12	15	27	206	251	457	316	401	717	325	417	742	58	71	129	699
Total 23-25.....	-	-	-	-	-	-	-	-	-	46	16	62	-	-	-	-	-	-	-	219	176	395
GRAND TOTAL.....	-	-	-	-	-	-	-	-	-	252	267	519	-	-	-	-	-	-	-	918	1,065	1,983

WITH PSYCHOSIS

TABLE No. 30  
DISCHARGES BY CONDITION ON DISCHARGE, LENGTH OF STAY IN HOSPITAL AND DIAGNOSIS

DIAGNOSIS	RECOVERED												Total Recovered					
	0-5 Mos.		6-11 Mos.		1-2 Years		3-4 Years		5 Years and over		Uncertain		M.	F.	T.			
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.			
01. With Syphilitic Meningo-Encephalitis.....	5	1	6	1	1	2										6	2	8
02. With other forms of Syphilis.....	-	-	-	1	1	1										1	1	1
03. With Epidemic Encephalitis.....	1	2	3	-	-	-										1	2	3
04. With other Infectious Diseases.....	34	2	36	3	3	3										40	2	42
05. Alcoholic Psychoses.....	2	1	3	-	1	1										2	2	4
06a. Due to Opium and Other Drugs.....	-	3	3	-	-	-										1	3	4
06b. Due to other Exogenous Toxins.....	-	3	3	-	-	-										1	3	4
07. Traumatic Psychoses.....	-	-	-	-	-	-										1	3	4
08. With Cerebral Arteriosclerosis.....	1	1	1	1	2	3										1	2	3
09. With other Disturbances of Circulation.....	-	1	2	-	1	1										1	2	3
10. With Convulsive Disorders (Epilepsy).....	-	-	-	-	1	1										1	2	3
11. Senile Psychoses.....	20	40	60	3	9	12										25	54	79
12. Involutional Psychoses.....	4	4	8	-	-	-										4	6	10
13. Due to other Metabolic, etc. Diseases.....	-	-	-	-	-	-										-	-	-
14. Due to New Growth.....	-	-	-	-	-	-										-	-	-
15. With Organic Changes of Nervous System.....	16	43	59	-	6	6										16	53	69
16. Psychoneuroses.....	67	116	183	21	39	60										131	194	325
17. Manic-Depressive Psychoses.....	36	41	77	20	9	29										70	62	132
18. Dementia Praecox (Schizophrenia).....	-	4	4	-	-	-										4	4	4
19. Paranoia and Paranoid Conditions.....	2	2	2	1	1	1										3	4	3
20. With Psychopathic Personality.....	-	1	1	2	2	2										3	2	5
21. With Mental Deficiency.....	4	1	5	1	1	2										6	2	8
22. Undiagnosed Psychoses.....	-	-	-	-	-	-										-	-	-
Total 1-22.....	192	261	453	54	71	125	46	36	82	15	17	32	9	14	23	316	400	716
Total 23-25.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRAND TOTAL.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE No. 30—(Continued)  
DISCHARGES BY CONDITION ON DISCHARGE, LENGTH OF STAY IN HOSPITAL AND DIAGNOSIS

DIAGNOSIS	IMPROVED												Total Improved		
	0-5 Mos.		6-11 Mos.		1-2 Years		3-4 Years		5 Years and Over		Uncertain		M.	F.	T.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	T.
01. With Syphilitic Meningo-Encephalitis.....	11	2	13	7	3	10	3	1	4	1	1	1	28	7	35
02. With other forms of Syphilis.....	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2
03. With Epidemic Encephalitis.....	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1
04. With other Infectious Diseases.....	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1
05. Alcoholic Psychoses.....	4	4	4	4	4	4	4	4	4	4	4	4	6	2	8
06a. Due to Opium and Other Drugs.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
06b. Due to other Exogenous Toxins.....	-	1	1	1	1	1	1	1	1	1	1	1	1	2	2
07. Traumatic Psychoses.....	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
08. With Cerebral Arteriosclerosis.....	12	9	21	1	1	2	3	3	6	1	1	1	16	13	29
09. With other Disturbances of Circulation.....	1	3	4	1	1	1	1	1	1	1	1	1	1	4	5
10. With Convulsive Disorders (Epilepsy).....	2	2	2	1	1	1	1	3	4	2	2	2	4	4	8
11. Senile Psychoses.....	2	6	8	2	2	2	1	1	2	1	1	1	4	9	13
12. Involutional Psychoses.....	7	26	33	4	7	11	3	4	7	1	2	1	16	40	56
13. Due to other Metabolic, etc. Diseases.....	1	2	3	1	1	1	1	1	1	1	1	1	1	4	5
14. Due to New Growth.....	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15. With Organic Changes of Nervous System.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1
16. Psychoneuroses.....	24	34	58	6	7	13	4	5	9	1	2	1	35	48	83
17. Manic-Depressive Psychoses.....	25	32	57	4	25	29	7	14	21	3	4	7	46	83	129
18. Dementia Praecox (Schizophrenia).....	58	74	132	31	42	73	26	26	52	11	6	17	146	161	307
19. Paranoia and Paranoid Conditions.....	7	9	16	1	1	1	1	1	1	1	1	1	7	11	18
20. With Psychopathic Personality.....	1	1	1	1	1	1	1	1	1	1	1	1	2	2	4
21. With Mental Deficiency.....	3	8	11	1	3	3	2	3	5	2	2	2	6	16	22
22. Undiagnosed Psychoses.....	-	2	2	1	3	4	1	1	1	1	1	1	1	6	7
Total 1-22.....	161	211	372	56	98	154	51	64	115	18	20	38	325	420	745
Total 23-25.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRAND TOTAL.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

WITH PSYCHOSES





## PSYCHOSES

CAUSE OF DEATH		General Paresis		Alcoholic		With Cerebral Arteriosclerosis		With Convulsive Disorders (Epile.)		Senile		Involuntal		Psycho-neurosis		
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	T.
<b>Infectious and Parasitic Diseases</b>																
Typhoid and paratyphoid fever.....																
Measles.....																
Scarlet fever.....																
Diphtheria.....																
Influenza.....																
Dysentery.....																
Tuberculosis of the respiratory system.....																
3	3															
Other forms of tuberculosis.....																
18	5	23														
Purulent infection, septicaemia.....																
Other infectious and parasitic diseases.....																
<b>Cancer and other Tumours</b>																
Cancer and other malignant tumours.....																
1	1															
Tumours, non-malignant and unspecified.....																
<b>Rheumatic Diseases, Diseases of Nutrition and of Endocrine Glands and Other General Diseases</b>																
Acute rheumatic fever.....																
Chronic rheumatism and gout.....																
Diabetes mellitus.....																
Diseases of the thyroid and parathyroid glands.....																
Other general diseases.....																
<b>Diseases of the Blood and Blood Forming Organs</b>																
Anaemia.....																
Leukaemias, leukaemias, and other diseases of the blood and blood forming organs.....																
<b>Chronic Poisonings and Intoxications</b>																
Alcoholism (acute or chronic).....																
Other chronic poisonings.....																
<b>Diseases of the Nervous System and Organs of Special Sense</b>																
Meningitis (non-meningococcal).....																
5	5															
Cerebral haemorrhage, cerebral embolism and thrombosis.....																
1	1															
Mental disorders and deficiticy.....																
Epilepsy.....																
Other diseases of the nervous system.....																
Diseases of the eye, ear and their annexa.....																
<b>Diseases of the Circulatory System</b>																
Pericarditis.....																
1	1															
Chronic endocarditis, valvular diseases.....																
3	3															
Diseases of the myocardium.....																
3	1	4														
Other diseases of the coronary arteries and angina pectoris.....																
Arteriosclerosis.....																
Other diseases of the circulatory system.....																
1	1															

\*Includes syphilis of the central nervous system.

TABLE No. 31—(Continued)  
CAUSES OF DEATH BY DIAGNOSIS

CAUSE OF DEATH	PSYCHOSSES																				
	General Paralysis		Alcoholic		With Cerebral Arteriosclerosis		With Convulsive Disorders (Epile.)		Senile		Involuntional		Psycho-neurosis								
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	T.						
<b>Diseases of the Respiratory System</b>																					
Bronchitis.....		5		3		12	19	31													
Pneumonias (lobar, broncho and unspecified).....										30	40	70									
Pleurisy.....												1	4	5							
Other diseases of the respiratory system (not tuberculosis).....										1	1	2									
<b>Diseases of the Digestive System</b>																					
Ulcer of the stomach or duodenum.....	1					1		1							1						
Diarrhoea and enteritis.....																					
Appendicitis.....																					
Hernia, intestinal obstruction.....																					
Cirrhosis of the liver.....	1					1		1							1						
Other diseases of the liver and biliary passages including biliary calculi.....																					
Other diseases of the digestive system.....	1														1						
<b>Diseases of the Genito-Urinary System</b>																					
Nephritis.....																					
Other diseases of the kidneys and ureters.....															1						
Calculi of the urinary passages.....																					
Diseases of the bladder (tumours excepted).....																					
Diseases of the urethra, urinary abscess, etc.....								1													
Diseases of the prostate.....																					
Diseases of the genital organs, not specified as venereal.....	1																				
<b>Diseases of Pregnancy, Childbirth and the Puerperal State</b>																					
Puerperal septicæmia.....																					
Other diseases of pregnancy, childbirth and puerperal state.....																					
<b>Diseases of the Skin and Cellular Tissue</b>																					
Diseases of the Bones and Organs of Locomotion.....																					
Congenital malformations.....																					
Senility.....																					
Violent or Accidental Death																					
Suicide.....																					
Homicide.....																					
Accidental drowning.....																					
Accidental burns.....																					
Other violent or accidental deaths.....																					
<b>Ill-Defined Causes of Death</b>																					
GRAND TOTAL.....	43	8	51	6	2	8	114	89	203	6	6	12	101	153	254	5	11	16	4	8	7



TABLE No. 31—(Concluded)  
CAUSES OF DEATH BY DIAGNOSIS

CAUSE OF DEATH	PSYCHOSES												TOTAL								
	Manic-Depressive			Dementia Praecox (Schizophrenia)			Paranoia and Paranoid Conditions			With Mental Deficiency			All Other			Without Psychosis and Primary Behaviour Disorders		TOTAL			
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.			
<b>Diseases of the Respiratory System</b>																					
Bronchitis.....	5	7	12	9	13	22	1	—	1	—	—	—	—	—	—	6	8	14	75	101	176
Pneumonia (lobar, broncho and unspecified).....	—	—	—	1	1	2	—	—	—	—	—	—	—	—	—	1	1	2	1	1	2
Pleurisy.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other diseases of the respiratory system (not tuberculosis).....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Diseases of the Digestive System</b>																					
Ulcer of the stomach or duodenum.....	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—	1	—	1	5	—	5
Diarrhoea and enteritis.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Appendicitis.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hernia, intestinal obstruction.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cirrhosis of the liver.....	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other diseases of the liver and biliary passages including biliary calculi.....	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	3	1	4
Other diseases of the digestive system.....	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Diseases of the Genito-Urinary System</b>																					
Nephritis.....	—	1	1	1	1	2	—	—	—	—	—	—	—	—	—	—	—	—	1	3	4
Other diseases of the kidneys and ureters.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Calculi of the urinary passages.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diseases of the bladder (tumours excepted).....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diseases of the urethra, urinary abscess, etc.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diseases of the prostate.....	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Diseases of the genital organs, not specified as venereal.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Diseases of Pregnancy, Childbirth and the Puerperal State</b>																					
Puerperal septicæmia.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other diseases of pregnancy, childbirth and puerperal state.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Diseases of the Skin and Cellular Tissue</b>																					
Diseases of the Bones and Organs of Locomotion	—	—	—	2	1	2	—	—	—	—	—	—	—	—	—	—	—	—	2	1	3
Congenital malformations.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Senility.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Violent or Accidental Death</b>																					
Suicide.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Homicide.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Accidental drowning.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Accidental burns.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other violent or accidental deaths.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Ill-Defined Causes of Death</b>																					
Ill-Defined Causes of Death.....	1	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>GRAND TOTAL</b> .....	27	34	61	80	111	191	5	2	7	2	15	17	28	58	66	29	44	53	460	516	976



TABLE NO. 32—(Continued)  
DEATHS BY AGE, SEX AND DIAGNOSIS

DIAGNOSIS	AGE GROUP																		TOTAL			
	45-49		50-54		55-59		60-64		65-69		70 and Over		Unascertained		M.		F.					
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.				
01. With Syphilitic Meningo-Encephalitis.	6	-	4	1	5	12	2	14	4	-	4	4	4	-	4	3	2	5	41	7	48	
02. With other forms of Syphilis.	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	1	1	2	
03. With Epidemic Encephalitis.	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	1	1	2	
04. With other Infectious Diseases.	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	6	2	8	
05. Alcoholic Psychoses.	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	1	1	2	
06a. Due to Opium and Other Drugs.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
06b. Due to other Exogenous Toxins.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
07. Traumatic Psychoses.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	
08. With Cerebral Arteriosclerosis.	-	1	2	1	3	5	3	8	8	4	12	18	26	44	114	89	55	136	114	89	203	
09. With other Disturbances of Circulation.	-	1	1	-	1	2	3	4	2	2	1	2	4	6	5	5	2	4	6	5	9	
10. With Convulsive Disorders (Epilepsy).	-	-	1	-	1	1	3	4	2	1	2	7	5	12	101	153	91	146	101	153	254	
11. Senile Psychoses.	-	-	2	2	4	1	1	2	2	3	3	2	2	4	5	11	3	3	5	7	16	
12. Involutional Psychoses.	2	1	3	-	1	2	3	5	1	1	2	2	2	4	7	10	2	2	11	10	17	
13. Due to other Metabolic, etc. Diseases.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
14. Due to New Growth.	-	1	1	1	2	2	3	5	1	1	2	4	6	2	2	2	2	2	9	13	22	
15. With Organic Changes of Nervous System.	-	1	1	1	1	1	2	3	3	4	7	1	1	1	4	3	1	1	4	3	7	
16. Psychoses.	5	2	7	3	3	2	1	3	3	4	7	6	7	13	27	34	9	12	27	34	61	
17. Meige-Drozesse.	4	7	11	5	9	14	19	8	27	4	13	8	11	19	80	111	15	39	80	111	191	
18. Dementia Praecox (Schizophrenia).	-	-	-	-	-	1	1	1	-	-	-	-	-	-	5	5	5	6	5	5	6	
19. Paranoia and Paranoid Conditions.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20. With Psychopathic Personality.	-	1	1	3	3	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	2	
21. With Mental Deficiency.	-	2	2	1	-	-	-	-	-	-	-	-	-	-	2	5	1	1	2	5	7	
22. Undiagnosed Psychoses.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
231a. Epileptics not Psychotic or Feeble-minded.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
231b. Epileptics who are Feeble-minded.	-	-	-	1	1	-	1	1	-	-	-	2	-	2	4	5	-	2	4	5	9	
232. Alcoholism.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
233. Drug Addiction.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	
234. Mental Deficiency.	5	2	7	1	3	4	1	3	4	1	3	4	6	7	30	40	3	4	30	40	70	
235. Disorders of Personality.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
236. Psychopathic Personality.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
237. Other Non-Psychotic Diseases or Conditions.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
24. Primary Behaviour Disorders.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
25. No Mental Illness or Mental Defect.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total 1-22	17	15	32	17	22	39	50	33	88	27	32	59	53	59	112	217	266	483	-	-	420	890
Total 23-25	6	2	8	2	3	5	1	4	5	1	3	4	3	6	9	6	4	10	1	-	40	86
GRAND TOTAL	23	17	40	19	25	44	51	37	88	28	35	63	56	65	121	223	270	493	1	-	460	976

WITH PSYCHOSIS

WITHOUT PSYCHOSIS

TABLE No. 33

## DEATHS BY TOTAL DURATION OF HOSPITAL LIFE AND DIAGNOSIS

	TOTAL DURATION OF HOSPITAL LIFE																								
	Less than 1 month		1-3 months		4-7 months		8-11 months		1-2 years		3-4 years		5-6 years		7-8 years										
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.							
DIAGNOSIS																									
01. With Syphilitic Meningo-Encephalitis.....	4	-	4	7	3	10	2	-	2	4	-	4	7	1	8	3	4	4	5						
02. With other forms of Syphilis.....	-	-	-	-	-	-	-	-	-	1	1	2	1	1	2	-	-	-	-						
03. With Epidemic Encephalitis.....	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-						
04. With Infectious Diseases.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
05. Alcohol Psychoses.....	1	-	1	-	1	1	-	-	-	-	-	-	2	-	2	-	1	-	1						
06a. Due to Opium and Other Drugs.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
06b. Due to other Exogenous Toxins.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
07. Traumatic Psychoses.....	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
08. With Cerebral Arteriosclerosis.....	22	19	41	25	15	40	17	12	29	12	6	18	24	17	41	4	10	14	3	5	8	4	2	6	
09. With other Disturbances of Circulation.....	2	1	3	2	2	4	2	-	4	1	3	4	-	2	2	1	-	1	1	1	1	1	1	1	1
10. With Convulsive Disorders (Epilepsy).....	29	28	57	16	20	36	16	20	36	9	15	24	21	38	59	3	14	17	3	6	1	1	1	1	1
11. Senile Psychoses.....	1	1	2	1	1	2	1	2	2	2	2	2	3	1	4	1	2	2	2	1	1	1	1	1	1
12. Involutional Psychoses.....	1	2	3	1	2	2	2	2	2	-	-	-	1	4	4	1	4	1	5	-	-	-	-	-	-
13. Due to other Metabolic, etc. Diseases.....	3	4	7	3	2	5	1	4	5	3	2	5	4	3	7	3	2	5	1	1	1	1	1	1	1
14. Due to New Growth.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15. With Organic Changes of Nervous System.....	1	2	3	1	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16. Psychoneuroses.....	3	4	7	3	2	5	1	4	5	3	2	5	4	3	7	3	2	5	1	1	1	1	1	1	1
17. Manic-Depressive Psychoses.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18. Dementia Praecox (Schizophrenia).....	3	4	7	3	2	5	1	4	5	3	2	5	4	3	7	3	2	5	1	1	1	1	1	1	1
19. Paranoia and Paranoid Conditions.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20. With Psychopathic Personality.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21. With Mental Deficiency.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22. Undiagnosed Psychoses.....	2	1	3	-	-	-	-	1	1	-	-	-	-	-	2	-	-	1	1	-	-	-	-	-	-
WITHOUT PSYCHOSES																									
231a. Epileptics not Psychotic or Feeble-minded.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
231b. Epileptics who are Feeble-minded.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
232. Alcoholism.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
233. Drug Addiction.....	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
234. Mental Deficiency.....	2	3	5	3	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
235. Disorders of Personality.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
236. Psychopathic Personality.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
237. Other Non-Psychotic Diseases or Conditions.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24. Primary Behaviour Disorders.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25. No Mental Illness or Mental Defect.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total 1-22.....	66	64	130	60	55	115	45	46	91	34	26	60	66	79	145	25	35	60	17	20	37	18	26	44	
Total 23-25.....	3	3	6	3	1	4	-	1	1	-	2	2	2	3	5	7	3	10	6	2	8	6	3	9	
GRAND TOTAL.....	69	67	136	63	56	119	45	47	92	34	28	62	68	82	150	32	38	70	23	22	45	24	29	53	

WITH PSYCHOSES

WITHOUT PSYCHOSES



DEATHS BY TOTAL DURATION OF HOSPITAL LIFE AND DIAGNOSIS

TOTAL DURATION OF HOSPITAL LIFE

DIAGNOSIS	9-10 years		11-12 years		13-14 years		15-19 years		20 years and Over		Unascertained		TOTAL	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.	T.
01. With Syphilitic Meningo-Encephalitis.....	2	1	3	-	-	-	-	3	1	4	1	-	41	7
02. With other forms of Syphilis.....	-	-	-	-	-	-	-	-	-	-	1	-	2	3
03. With Epidemic Encephalitis.....	-	-	-	1	-	-	-	-	-	-	-	-	1	1
04. With other Infectious Diseases.....	-	-	-	-	-	-	-	-	1	1	2	-	6	2
05. Alcoholic Psychoses.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05a. Due to Opium and Other Drugs.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05b. Due to other Exogenous Toxins.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07. Traumatic Psychoses.....	1	1	2	1	1	1	1	2	2	1	1	-	114	89
08. With Cerebral Arteriosclerosis.....	-	-	-	-	-	-	-	2	1	3	3	-	5	9
09. With other Disturbances of Circulation.....	-	-	-	1	1	1	1	2	1	2	3	6	6	12
10. With Convulsive Disorders (Epilepsy).....	-	2	2	-	3	1	2	1	1	2	2	1	101	153
11. Senile Psychoses.....	-	1	1	1	1	-	-	1	1	1	2	5	11	16
12. Involutional Psychoses.....	-	1	1	-	-	-	-	-	-	-	-	-	7	10
13. Due to other Metabolic, etc. Diseases.....	-	-	-	-	-	-	-	-	-	-	-	-	2	2
14. Due to New Growth.....	1	1	1	1	1	1	1	1	1	1	1	2	9	13
15. With Organic Changes of Nervous System.....	1	1	1	1	1	1	1	1	1	1	1	7	4	7
16. Psychoneuroses.....	1	2	3	2	2	2	1	2	3	6	7	13	27	34
17. Manic-Depressive Psychoses.....	3	4	7	3	6	9	6	15	7	22	30	50	80	111
18. Dementia Praecox (Schizophrenia).....	4	7	1	1	1	2	1	1	1	1	1	1	5	2
19. Paranoia and Paranoid Conditions.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20. With Psychopathic Personality.....	1	1	2	-	-	-	-	-	-	-	-	-	1	1
21. With Mental Deficiency.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22. Undiagnosed Psychoses.....	-	-	-	-	-	-	-	-	-	-	-	-	2	5
231a. Epileptics not Psychotic or Feeble-minded.....	-	-	-	-	-	-	-	-	-	-	-	-	4	4
231b. Epileptics who are Feeble-minded.....	1	1	2	-	-	-	-	-	-	-	-	-	4	5
232. Alcoholism.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-
233. Drug Addiction.....	-	-	-	-	-	-	-	-	-	-	-	-	1	1
234. Mental Deficiency.....	1	1	4	1	5	1	6	7	4	18	22	1	30	40
235. Disorders of Personality.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-
236. Psychopathic Personality.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-
237. Other Non-Psychotic Diseases or Conditions.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24. Primary Behaviour Disorders.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25. No Mental Illness or Mental Defect.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total 1-22.....	9	14	23	8	13	21	8	8	16	39	42	67	420	470
Total 23-25.....	1	2	3	4	1	5	1	1	6	7	5	19	40	46
GRAND TOTAL.....	10	16	26	12	14	26	9	8	17	23	23	46	460	516

WITH PSYCHOSES

WITHOUT PSYCHOSES

TABLE No. 34  
GENERAL STATISTICS  
YEAR ENDING MARCH 31, 1947

HOSPITALS	Date Hospital Opened	ACREAGE		Acres in Fruit and Vegetables	Acres in Grain	Acres in Buildings and Grounds	Acres in Bush or Not Cultivated
		Owned	Rented				
Brockville.....	1894	569	-	40	369	35	125
Cobourg.....	1901	12	-	4	8	-	-
Fort William.....	1936	1,250	-	30	445	25	750
Hamilton.....	1876	525	-	112	339	74	-
Kingston.....	1854	258	135	40	267	66	30
Langstaff.....	1939	-	990	99	777	41	73
London.....	1870	450	-	142	160	110	38
New Toronto.....	1890	136	-	60	5	65	6
Orillia.....	1876	660	-	98	220	120	222
Penetang.....	1904	383	-	78	31	25	249
St. Thomas.....	1945*	463	-	145	184	134	-
Toronto.....	1846	20	-	3	-	17	-
Whitby.....	1920	640	135	125	365	150	135
Woodstock.....	1906	435	25	95	220	90	55
ALL HOSPITALS.....		5,801	1,285	1,071	3,380	952	1,683

\*St. Thomas closed October 21, 1939 to November 1, 1945 for use as a training centre by the Royal Canadian Air Force.

TABLE No. 35  
CLASSIFICATION OF STAFF BY HOSPITAL  
YEAR ENDING MARCH 31, 1947

HOSPITALS	Superintendent	Physicians (not on ward duty)	Physicians (on ward duty)	Medical Consultants	Psychologists and Psychometrists	Pathologists	Occupational Therapists	Dentists	Dietitians	Teachers	Instructors	Social Service Workers	Superintendent of Nurses	Graduate Nurses (not on ward duty)	Graduate Nurses (on ward duty)	Nurses-in-Training (not on ward duty)	Nurses-in-Training (on ward duty)	Ward-Aides (not on ward duty)
BROCKVILLE.....	1	2	5	1	1	1	3	1	1	1	1	1	1	5	33	4	8	1
COBOURG.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	13	1	1	1
FORT WILLIAM.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
HAMILTON.....	1	1	7	4	1	1	3	1	1	1	2	1	1	4	36	1	9	1
KINGSTON.....	1	2	4	3	1	1	2	2	1	1	4	1	1	18	23	1	7	19
LANGSTAFF.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LONDON.....	1	2	10	2	1	1	3	1	1	1	1	2	1	4	46	1	31	27
NEW TORONTO.....	1	1	6	3	1	1	5	1	1	1	2	1	1	1	37	1	10	1
ORILLIA.....	1	1	5	1	1	1	1	1	1	10	2	1	1	2	13	1	1	7
PENETANG.....	1	1	2	1	1	1	1	1	1	1	1	1	1	1	7	1	1	1
ST. THOMAS.....	1	1	4	3	1	1	2	1	2	1	1	1	1	1	21	1	1	1
TORONTO.....	1	1	6	6	1	1	4	1	1	1	1	1	1	2	45	1	3	2
WHITBY.....	1	1	7	1	1	1	1	1	1	1	2	1	1	1	31	2	3	2
WOODSTOCK.....	1	1	7	1	1	1	2	1	1	1	1	1	2	1	44	1	1	3
ALL HOSPITALS.....	14	8	64	22	5	9	25	15	7	10	12	10	14	37	349	6	68	62

TABLE No. 35—(Continued)  
 CLASSIFICATION OF STAFF BY HOSPITAL  
 YEAR ENDING MARCH 31, 1947

HOSPITALS	Ward-Aides (on ward duty)	Chief Attendant	Attendants (not on ward duty)	Attendants (on ward duty)	Bursar, Storekeeper, and Store Assistants	Clerical and Stenographic Staff		Kitchen and Dining Room Help		Laundry Help		Other Domestic Help	Farmers, Gardeners, and Assistants	Engineers and other Mechanical Help	Other Male Employees	Other Female Employees	TOTAL STAFF
						M.	F.	M.	F.	M.	F.						
BROCKVILLE.....	18	1	10	81	4	5	7	4	7	2	5	7	10	20	4	27	279
COBOURG.....	22	-	-	-	2	1	2	-	4	1	1	3	2	10	4	-	70
FORT WILLIAM.....	-	1	5	17	1	-	2	1	6	1	-	-	3	2	-	-	44
HAMILTON.....	29	1	15	89	3	2	10	7	9	1	4	2	13	17	4	1	280
KINGSTON.....	-	1	8	77	3	2	9	7	-	2	-	13	9	19	11	1	251
LANGSTAFF.....	-	1	1	52	2	1	1	2	1	1	-	-	22	7	-	-	93
LONDON.....	29	1	2	117	3	1	12	4	11	3	6	11	13	23	1	3	372
NEW TORONTO.....	14	1	-	88	3	10	1	3	4	3	6	-	3	17	2	3	226
ORILLIA.....	82	1	17	114	4	4	11	16	18	3	5	-	13	24	10	3	370
PENETANG.....	21	2	-	79	2	1	3	3	6	1	3	1	5	9	6	2	156
ST. THOMAS.....	78	1	10	78	3	4	9	11	10	3	3	4	7	25	4	4	289
TORONTO.....	27	1	-	77	3	2	6	4	7	2	5	4	1	12	12	5	237
WHITBY.....	33	1	11	101	3	3	11	8	8	1	5	5	13	22	1	-	278
WOODSTOCK.....	57	1	12	114	3	2	15	12	16	3	4	-	10	19	7	3	348
ALL HOSPITALS.....	410	14	91	1,084	39	38	99	82	107	27	47	50	124	226	66	52	3,293

TABLE No. 36  
EXPENDITURES REPORTED BY ONTARIO HOSPITALS  
APRIL 1, 1946 TO MARCH 31, 1947

HOSPITALS	ALL HOSPITALS*	BROCKVILLE	COBOURG	FORT WILLIAM	HAMILTON	KINGSTON	LANGSTAFF
Total Days' Stay	5,731,663	393,184	190,579	44,592	586,406½	395,411	168,911
Average Daily Population**	15,635	1,091	522	122	1,607	1,083	463
Medicines*	\$ 175,425.62	\$ 8,087.49	\$ 2,816.91	\$ 1,985.38	\$ 18,684.19	\$ 9,202.62	\$ 4,595.09
Provisions	1,297,969.27	82,505.12	37,661.54	9,126.95	129,669.99	94,645.97	50,146.78
Boarding Out	120,927.23	12,920.88	—	—	5,746.39	9,154.87	—
Fuel, Light and Water	556,165.31	31,328.76	17,805.83	7,157.49	68,617.83	40,760.20	12,542.45
Clothing	215,366.04	11,196.25	5,644.07	1,884.28	20,465.70	13,818.80	6,335.97
Laundry and Cleaning	121,124.00	7,262.05	4,023.42	1,467.55	11,786.77	8,723.85	3,109.28
Furniture and Furnishings	154,890.82	12,206.52	2,962.42	1,420.68	15,494.14	9,452.96	3,131.46
Office Expense	32,559.09	2,273.66	718.02	583.61	4,133.08	2,499.79	983.23
Allowances†	186,500.56	13,339.78	3,343.31	1,684.55	21,836.70	20,755.96	6,523.03
Feed, Fodder and Livestock	254,033.17	20,130.42	259.65	7,052.14	38,333.38	20,215.26	34,602.40
Farm Expense	71,390.49	4,067.69	394.97	2,097.29	6,940.66	5,794.40	9,931.97
Contingencies	83,797.74	4,510.86	1,874.23	2,550.02	8,051.00	6,308.69	10,959.71
Salaries	5,235,735.21	405,796.10	108,419.92	68,016.85	477,755.30	430,554.69	148,140.77
TOTAL GROSS	\$8,505,884.55	\$ 615,625.58	\$ 185,924.29	\$ 105,026.79	\$ 827,515.13	\$ 671,888.06	\$ 291,002.14
Less Recoveries‡	\$2,255,899.83	\$ 174,221.18	\$ 32,832.28	\$ 31,562.07	\$ 242,270.02	\$ 135,936.35	\$ 135,855.56
TOTAL NET	\$6,249,984.72	\$ 441,404.40	\$ 153,092.01	\$ 73,464.72	\$ 585,245.11	\$ 535,951.71	\$ 155,146.58
Repairs to Building Expense	\$ 136,533.07	\$ 7,800.99	\$ 3,483.52	\$ 2,061.19	\$ 18,647.33	\$ 16,713.15	\$ 4,188.78
TOTAL	\$6,386,517.79	\$ 449,205.39	\$ 156,575.53	\$ 75,525.91	\$ 603,892.44	\$ 552,664.86	\$ 159,335.36

\*Medicines include tobacco.

†Allowances include employees' meals, employees' uniforms and employees' other allowances.

‡Recoveries include farm recovery, miscellaneous receipts, perquisites and patients' maintenance.

\*\*Includes patients in boarding homes.

§In the 79th Annual Report the figures for Hamilton are adjusted to:—582,237 Total Days' Stay and 1,596 Average Daily Population.

TABLE No. 36—(Continued)  
EXPENDITURES REPORTED BY ONTARIO HOSPITALS  
APRIL 1, 1946 MARCH 31, 1947

HOSPITALS.....	LONDON	NEW TORONTO	ORILLIA	PENETANG	ST. THOMAS	TORONTO	WHITBY	WOODSTOCK
Total Days' Stay.....	566,961	518,602	820,447	226,953	296,502	443,050	630,151	445,130
Average Daily Population**.....	1,553	1,400	2,248	622	765	1,214	1,726	1,220
Medicines*.....	\$ 23,487.44	\$ 12,688.52	\$ 13,825.76	\$ 7,794.12	\$ 17,419.91	\$ 17,240.41	\$ 16,787.36	\$ 20,810.42
Provisions.....	122,305.26	102,431.58	169,302.98	48,791.51	91,740.36	105,076.79	133,107.78	119,456.66
Boarding Out.....	13,034.74	27,472.93	17,481.85	3,169.30	—	12,056.46	19,889.81	—
Fuel, Light and Water.....	51,398.98	33,349.39	60,197.43	27,666.89	71,868.35	33,907.86	59,399.10	40,164.75
Clothing.....	25,466.55	17,453.77	34,636.80	7,767.98	22,006.85	20,090.63	15,302.71	13,295.68
Laundry and Cleaning.....	11,883.71	10,475.83	16,098.47	4,191.03	8,255.57	10,340.36	12,406.97	11,099.14
Furniture and Furnishings.....	17,808.42	18,981.29	23,320.51	4,916.94	9,005.79	14,622.69	13,091.10	8,475.90
Office Expense.....	2,566.23	2,838.98	2,857.29	1,494.24	3,337.55	1,969.14	2,369.59	3,434.68
Allowances†.....	15,075.75	16,185.72	22,998.02	6,575.59	16,755.94	14,894.14	20,284.94	6,247.13
Feed, Fodder and Livestock.....	18,611.84	6,510.21	33,502.33	14,676.63	15,601.01	—	27,694.39	16,843.51
Farm Expense.....	6,241.97	4,001.22	8,153.06	3,126.73	5,492.06	506.23	8,298.21	6,344.03
Contingencies.....	7,450.49	6,751.67	6,830.79	3,574.19	7,548.76	4,750.15	5,719.16	6,918.02
Salaries.....	547,115.99	409,989.42	586,430.57	262,128.97	350,199.24	399,094.77	472,127.65	569,964.97
TOTAL GROSS.....	\$ 862,447.37	\$ 669,130.53	\$ 995,635.86	\$ 395,874.12	\$ 619,231.39	\$ 634,549.63	\$ 808,478.77	\$ 823,554.89
Less Recoveries‡.....	\$ 231,155.87	\$ 148,274.06	\$ 208,951.88	\$ 71,619.67	\$ 107,941.16	\$ 112,453.37	\$ 400,552.14	\$ 222,874.22
TOTAL NET.....	\$ 631,291.50	\$ 520,856.47	\$ 787,283.98	\$ 324,254.45	\$ 511,290.23	\$ 522,096.26	\$ 407,926.63	\$ 600,680.67
Repairs to Building Expense.....	\$ 14,361.55	\$ 11,104.41	\$ 14,423.58	\$ 6,985.63	\$ 4,062.82	\$ 12,256.33	\$ 10,216.30	\$ 10,227.49
TOTAL.....	\$ 645,653.05	\$ 531,960.88	\$ 801,707.56	\$ 331,240.08	\$ 515,353.05	\$ 534,352.59	\$ 418,142.93	\$ 610,908.16

\*Medicines include tobacco.

†Allowances include employees' meals, employees' uniforms and employees' other allowances.

‡Recoveries include farm recovery, miscellaneous receipts, perquisites and patients' maintenance.

\*\*Includes patients in boarding homes.

TABLE No. 37  
COST PER PATIENT PER DAY BY HOSPITAL.  
APRIL 1, 1946 TO MARCH 31, 1947

ITEMS	TOTAL	Brock-ville	Cobourg	Fort William	Hamilton	Kingston	Lang-staff	London	New Toronto	Orillia	Pene-tang	St. Thomas	Toronto	Whitby	Wood-stock
	Cents	Cents	Cents	Cents	Cents	Cents	Cents	Cents	Cents	Cents	Cents	Cents	Cents	Cents	Cents
Medicines*	3.06	2.04	1.48	4.45	3.19	2.32	2.73	4.14	2.45	1.69	3.43	5.88	3.89	2.67	4.67
Provisions	22.65	20.73	19.76	20.47	22.11	23.91	29.92	21.58	19.75	20.64	21.49	30.94	23.72	21.44	26.84
Boarding Out	2.11	3.24	-	-	.98	2.32	-	2.30	5.30	2.13	1.40	-	2.72	3.15	-
Fuel, Light and Water	9.70	7.87	9.34	16.05	11.70	10.31	8.41	9.06	6.43	7.33	12.19	24.24	7.66	9.42	9.02
Clothing	3.76	2.81	2.96	4.22	3.49	3.50	3.75	4.49	3.37	4.22	3.42	7.42	4.53	2.42	2.99
Laundry and Cleaning	2.11	1.82	2.11	3.29	2.01	2.21	1.85	2.10	2.02	1.96	1.84	2.78	2.33	1.97	2.49
Furniture and Furnishings	2.70	3.06	1.55	3.19	2.64	2.39	1.85	3.14	3.66	2.84	2.21	3.03	3.30	2.08	1.90
Office Expense	.57	.57	.38	1.31	.71	.63	.67	.45	.55	.35	.65	1.12	.45	.38	.88
Allowances†	3.25	3.35	1.76	3.78	3.72	5.25	3.86	2.66	3.12	2.80	2.89	5.65	3.36	3.22	1.40
Feed, Fodder and Livestock	4.43	5.06	.13	15.82	6.54	5.11	20.49	2.99	1.25	4.10	6.46	5.26	-	4.39	3.79
Farm Expense	1.25	1.02	.21	4.70	1.18	1.46	5.94	1.10	.77	.99	1.38	1.85	.12	1.32	1.42
Contingencies	1.46	1.13	.98	5.72	1.37	1.60	6.70	1.31	1.30	.83	1.57	2.56	1.07	.91	1.55
Salaries	91.35	101.90	56.89	152.52	81.47	108.90	87.70	96.50	79.04	71.48	115.48	118.10	90.07	74.93	128.05
Total Gross per Diem	148.40	154.60	97.55	235.52	141.11	169.94	173.87	151.82	129.01	121.36	174.41	208.83	143.22	128.30	185.00
Less Recoveries‡	39.36	43.76	17.24	70.78	41.31	34.38	80.43	40.78	28.59	25.40	31.56	36.40	25.38	63.57	50.07
Total Net per Diem	109.04	110.84	80.31	164.74	99.80	135.56	93.44	111.04	100.42	95.96	142.85	172.43	117.84	64.73	134.93
Repairs to Building Expense	2.38	1.96	1.83	4.53	3.18	4.22	2.60	2.53	2.14	1.76	3.08	1.37	2.77	1.62	2.30
TOTAL	111.42	112.80	82.14	169.27	102.98	139.78	96.04	113.57	102.56	97.72	145.93	173.80	120.61	66.35	137.23

\*Medicines include tobacco.

†Allowances include employees' meals, employees' uniforms and employees' other allowances.

‡Recoveries include farm recovery, miscellaneous receipts, perquisites and patients' maintenance.

TABLE No. 38  
ANNUAL DENTAL REPORT—ONTARIO HOSPITALS  
YEAR ENDING MARCH 31, 1947

	TOTAL	Brockville	Cobourg	Fort William	Hamilton	Kingston	Langstaff	London	New Toronto	Orillia	Pene- tang	St. Thomas	Toronto	Whitby	Wood- stock
Patients at Clinic.....	31,458	2,499	719	431	2,763	2,010	547	2,028	4,496	3,502	1,450	2,427	2,622	2,516	3,448
Examinations Only.....	12,462	1,361	214	275	630	1,257	248	575	2,221	1,493	331	758	1,713	943	443
Patients Treated.....	12,718	-	514	156	-	-	-	1,553	2,051	2,009	1,127	2,288	-	-	3,020
Patients x-rayed.....	1,754	33	21	-	232	64	2	82	248	106	23	381	28	394	140
Number of Pictures Taken.....	16,749	301	255	-	2,392	595	-	1,079	2,187	1,075	-	5,232	88	2,428	1,117
Extractions.....	9,537	1,078	251	142	833	288	253	1,177	779	1,089	327	472	2,033	353	462
General Anaesthetics.....	34	-	-	-	4	-	-	-	1	-	-	28	-	1	-
Local Anaesthetics.....	7,190	861	119	55	1,222	288	192	672	550	505	246	266	1,439	325	450
Fillings.....	7,232	710	167	35	732	199	63	676	344	1,218	128	1,060	476	689	735
Pyrrohoea Treatments.....	2,650	34	16	-	80	366	3	-	1,388	309	-	349	57	48	-
Prophylaxis.....	5,831	534	138	102	341	858	246	405	28	402	473	261	506	571	966
Other Treatments.....	5,723	114	34	-	264	657	-	387	1,747	340	87	449	61	249	1,334
Replacements.....	262	7	-	-	3	6	1	82	14	4	-	61	20	38	26
Dentures Repaired.....	387	37	24	2	30	27	6	7	19	1	44	18	41	67	64



TABLE No. 39  
LABORATORY AND PATHOLOGICAL REPORT  
APRIL 1, 1946 TO MARCH 31, 1947

PROCEDURES	TOTAL	Brookville	Cobourg	Fort William	Hamilton	Kingston	London	New Toronto	Orillia	Pene- tang	St. Thomas	Toronto	Whitby	Wood- stock	Psychia- tric
<b>Urinalysis:</b>															
Chemical.....	14,392	573	94	150	4,675	328	1,456	856	1,457	137	761	403	1,944	532	1,026
Microscopic.....	7,316	100	6	—	1,815	26	—	854	628	50	540	769	1,331	532	865
Other procedures.....	865	—	14	4	—	—	—	6	170	27	465	—	2	177	—
<b>Blood Examinations:</b>															
White Cell Counts.....	5,006	17	—	14	1,146	259	724	497	324	4	209	643	155	424	590
Red Cell Counts.....	4,951	53	—	14	758	267	702	447	298	4	702	647	216	437	81
Differential Counts.....	4,836	53	—	14	1,003	4	43	118	17	3	4	32	26	160	29
Haemoglobin Estimations.....	2,684	63	41	14	773	267	732	556	256	2	228	652	162	489	599
Chemical Estimations.....	1,517	4	—	—	170	265	634	153	4	—	29	353	61	858	128
Blood Cultures.....	151	4	—	—	11	2	—	12	—	—	15	3	56	15	1
Blood Sugars.....	23	4	—	2	172	70	623	32	—	8	45	356	117	34	52
Glucose Tolerance Tests.....	95	—	—	18	—	—	—	1	—	—	2	—	—	—	2
Widal and B. Abortus.....	5,036	—	—	—	2	—	—	—	—	—	1	—	—	92	—
Wasserman s.....	2,610	453	50	111	900	254	643	390	—	48	265	679	341	367	535
Kahn s.....	656	453	—	111	—	254	691	98	—	6	269	—	341	387	—
Presumptive Kahn's.....	774	—	—	—	—	—	656	—	—	—	—	—	—	—	—
<b>Spinal Fluid Examinations:</b>															
Cell Counts.....	466	34	—	13	3	40	327	14	—	1	54	189	56	42	1
Protein Tests.....	761	34	—	12	2	40	69	9	—	1	13	189	56	40	1
Colloidal Gold and Mastics.....	917	34	—	12	114	40	328	10	—	1	51	189	56	39	1
Wasserman s.....	667	34	—	12	—	50	328	41	—	1	50	189	56	41	1
Kahn s.....	16,572	108	—	294	4,511	50	311	8	—	—	5	189	56	1	1
Spurium Examinations.....	101	—	—	—	8	9	212	918	—	124	1,398	2,046	196	6,756	—
Throat Swabs.....	271	—	—	—	63	6	3	6	—	3	4	25	—	50	—
Facial Analyses.....	4	—	—	—	—	5	128	32	6	—	10	25	—	2	—
Gastric Analyses.....	12	—	—	—	—	—	—	—	—	—	—	—	12	4	—
Basal Metabolism.....	53	1	—	—	9	1	37	1	—	—	—	—	3	—	—
Thyroid Examinations:	39	1	—	—	2	—	—	—	—	—	—	—	—	—	—
Surgical.....	39	1	—	—	3	—	35	—	—	—	—	—	—	—	—
Post-Mortem.....	7,325	711	42	148	—	79	1,290	12	1,224	305	563	1,958	834	159	—
Autopsies.....	11,389	2	131	200	50	104	588	154	3,369	604	129	1,492	68	4,483	12
Other Tests (Not Listed).....															
<b>TOTAL PROCEDURES.....</b>	<b>89,317</b>	<b>2,727</b>	<b>390</b>	<b>1,133</b>	<b>15,307</b>	<b>2,421</b>	<b>10,584</b>	<b>5,225</b>	<b>7,753</b>	<b>1,329</b>	<b>5,328</b>	<b>11,024</b>	<b>6,050</b>	<b>16,121</b>	<b>3,925</b>

TABLE No. 40  
RESULTS OF BLOOD WASSERMANN TESTS ON FIRST ADMISSIONS  
APRIL 1, 1946 TO MARCH 31, 1947

HOSPITAL	FIRST ADMISSIONS		PATIENTS TESTED		NEGATIVE		DOUBTFUL		POSITIVE		PATIENTS NOT TESTED						
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	T.				
Brockville.....	96	115	211	91	111	202	85	109	194	-	-	6	2	8	5	4	9
Cobourg.....	-	21	21	-	18	18	-	17	17	-	-	-	1	1	-	3	3
Fort William.....	69	-	69	67	-	67	58	-	58	-	-	9	-	9	2	-	2
Hamilton.....	202	241	443	192	228	420	177	224	401	1	1	14	3	17	10	13	23
Kingston.....	84	84	168	84	84	168	79	81	160	-	-	5	3	8	-	-	-
London.....	138	184	322	131	170	301	126	166	292	1	1	4	3	7	7	14	21
New Toronto.....	131	142	273	129	137	266	118	133	251	-	-	11	4	15	2	5	7
Orillia.....	108	102	210	95	87	182	94	86	180	-	-	1	1	2	13	15	28
Penetang.....	10	6	16	8	5	13	8	5	13	-	-	-	-	-	2	1	3
St. Thomas.....	104	69	173	104	69	173	102	67	169	-	-	2	2	4	-	-	-
Toronto.....	151	152	303	149	151	300	127	146	273	-	-	22	5	27	2	1	3
Whitby.....	170	248	418	165	208	373	159	205	364	3	-	3	3	6	5	40	45
Woodstock.....	45	41	86	45	38	83	45	36	81	-	1	-	1	1	-	3	3
TOTAL.....	1,308	1,405	2,713	1,260	1,306	2,566	1,178	1,275	2,453	5	3	77	28	105	48	99	147

TABLE No. 41  
 REPORT OF WORK BY ONTARIO HOSPITALS' CHEST CLINIC (Year Ending March 31st, 1947)\*

	TORONTO PSYCHIATRIC		BROCKVILLE		COBOURG		PORT WILLIAM		HAMILTON		KINGSTON		LONDON		NEW TORONTO		ORILLIA	
	Staff	Patients	Staff	Patients	Staff	Patients	Staff	Patients	Staff	Patients	Staff	Patients	Staff	Patients	Staff	Patients	Staff	Patients
No. of individuals considered.....	152	480	399	1,333	104	521	68	210	389	2,090	466	1,259	541	1,907	362	1,562	452	2,216
No. of chest examinations performed.....	3	-	9	30	1	16	-	-	7	23	14	38	18	30	6	21	4	35
No. of chest x-rays interpreted.....	185	491	585	1,832	123	627	87	229	483	2,364	669	1,488	727	2,186	570	2,111	534	1,202
No. of tuberculin tests performed.....	61	-	156	30	55	18	23	2	190	29	191	29	181	26	117	24	306	1,191
No. of cases advised for treatment (active disease).....	-	-	1	11	-	-	-	2	-	4	-	9	-	7	-	10	1	3
No. of cases advised for investigation in hospitals. Staff merely repeat x-rays. Patients segregated while investigated.....	28	57	71	199	18	75	12	25	61	296	75	148	72	231	65	205	54	128
Total number of cases showing significant tuberculosis. (pulmonary).....	5	2	15	134	4	38	1	3	7	128	13	138	19	129	9	129	13	83

\*See text on page 24.

TABLE No. 41—(Continued)  
 REPORT OF WORK BY ONTARIO HOSPITALS' CHEST CLINIC (Year Ending March 31st, 1947)

	PENETANG		ST. THOMAS		TORONTO		WHITBY		WOODSTOCK		LANGSTAFF		T. B. UNIT		COLONY HOUSES		TOTAL		GRAND TOTAL
	Staff	Patients	Staff	Patients	Staff	Patients	Staff	Patients	Staff	Patients	Staff	Patients	Staff	Patients	Staff	Patients	Staff	Patients	
No. of individuals considered.....	180	638	444	977	332	1,542	336	1,977	422	735	118	464	788	6	49	4,771	18,748	23,519	
No. of chest examinations performed.....	4	20	4	22	7	49	12	50	111	4	4	9	1,509	-	-	204	1,856	2,060	
No. of chest x-rays interpreted.....	211	677	551	1,195	439	1,985	359	2,194	962	861	134	485	1,509	6	49	6,625	21,485	28,110	
No. of tuberculin tests performed.....	77	23	280	30	57	48	171	53	242	5	57	9	38	-	-	2,164	1,555	3,719	
No. of cases advised for treatment (active disease).....	-	-	-	2	-	2	-	6	-	1	-	-	-	-	-	2	57	59	
No. of cases advised for investigation in hospitals. Staff merely repeat x-rays. Patients segregated while investigated.....	17	70	87	126	61	202	45	230	69	53	24	79	-	-	759	2,124	2,883		
Total number of cases showing significant tuberculosis (pulmonary).....	5	85	4	86	15	111	14	119	22	33	2	36	-	-	148	1,254	1,402		

\*See text on page 24.

TABLE No. 42  
 MOVEMENT OF PATIENT POPULATION, PSYCHIATRIC HOSPITAL, TORONTO  
 YEAR ENDING MARCH 31, 1947

POPULATION	Male	Female	TOTAL
1. Patients in Residence April 1, 1946.....	32	34	66
2. Patients Admitted During the Year:			
(a) First Admissions.....	234	232	466
(b) Readmissions.....	53	56	109
TOTAL ADMISSIONS.....	287	288	575
3. Total Patients Under Care During Year.....	319	322	641
4. Discharged from Books During Year:			
(a) Discharged as Recovered.....	-	-	-
(b) Discharged as Improved.....	146	174	320
(c) Discharged as Unimproved.....	10	11	21
(d) Discharged under P.H.A. Sec. 9(4).....	39	6	45
(e) Discharged under M.H.A. Sec. 16(3).....	5	5	10
TOTAL DISCHARGES.....	200	196	396
(f) Deaths.....	7	3	10
(g) Transfers to Other Ontario Hospitals.....	83	89	172
TOTAL PATIENTS DISCHARGED FROM BOOKS.....	290	288	578
5. Patients in Residence March 31, 1947.....	29	34	63
6. Average Daily Population in Residence.....	27.2	32.7	59.9
7. Normal Capacity of Institution.....	32	34	66
8. Patients Examined in Out-Patients Department:			
(a) New Cases.....	396	526	922
(b) Old Cases.....	737	798	1,535
TOTAL CASES EXAMINED.....	1,133	1,324	2,457

## COMMUNITY MENTAL HEALTH SERVICES

In March, 1926, an out-patient clinic was established at the Toronto Psychiatric Hospital which has been in continuous operation since that date. In 1946, the clinic outgrew the quarters available in the Psychiatric Hospital and moved to a separate building at 112 College Street. Early in 1930, the Provincial Government commenced the organization of mental health clinics throughout the Province. These clinics were developed to assist in the early identification and community treatment of mental illness as one phase of a preventive public hospital program. Operating through certain Ontario Hospitals, it is part of their task also to assist in the re-establishment of persons recovering from more severe mental conditions.

Following a preliminary organization conference in June, 1930, clinics were established in six Ontario Hospitals. These clinics continued in active operation until World War II. During the war sixty physicians enlisted in the Armed Forces from the Ontario Hospital Service and certain clinics were closed; others carried on part time with a reduced staff.

During the past year, the Mental Health Clinics attached to the Ontario Hospitals at London, Hamilton, Brockville and Kingston have carried on a full-time program and it has also been possible to re-establish the staff of the out-patient department, Toronto Psychiatric Hospital.

As a result of experience gained in the operation of Mental Health Clinics for fifteen years, it appeared that the Department might make a further addition to preventive psychiatric services by assigning consultant psychiatrists to selected general hospitals in the Province. It was considered that by making psychiatric advice and treatment available in the general hospitals the necessity for admission of a considerable number of patients to a mental hospital might be prevented.

In accordance with this policy, during the past eighteen months consultant psychiatrists have been appointed to the Civic Hospital, Ottawa, general hospitals at St. Catharines and Welland, and to the Victoria Hospital, London. The experience gained during the first year of operation indicates that this type of community mental health service is worthy of continued trial.

A summary of the work of the Consultant Psychiatrists and of the Mental Health Clinics during the fiscal year ending March 31, 1947, follows.

# SUMMARY OF THE WORK OF CONSULTANT PSYCHIATRISTS

YEAR ENDING MARCH 31, 1947

TABLE I  
PSYCHIATRIC EXAMINATIONS

CENTRE†	OUT-PATIENTS*				IN-PATIENTS*				PROBATION PATIENTS	
	New		Return		New		Return		M.	F.
	M.	F.	M.	F.	M.	F.	M.	F.		
KINGSTON.....	-	-	-	-	139	213	-	-	-	-
LONDON.....	36	45	-	-	29	90	3	15	-	-
OTTAWA.....	91	119	-	-	-	-	-	-	3	7
ST. CATHARINES.	183	147	109	96	8	17	-	5	2	-
ALL CENTRES.	310	311	109	96	176	320	3	20	5	7

\*Excludes probation patients. No boarding out patients were examined during the period.

†Periods covered are as follows: Kingston—April 1, 1946 to March 31, 1947; London—April 1, 1946 to March 31, 1947; Ottawa—June, 1946 to April, 1947 and St. Catharines—October, 1946 to March, 1947.

TABLE II  
PLACE OF EXAMINATION

PLACE OF EXAMINATION	OUT-PATIENTS				IN-PATIENTS				PROBATION PATIENTS	
	New		Return		New		Return		M.	F.
	M.	F.	M.	F.	M.	F.	M.	F.		
KINGSTON— Hospital.....	-	-	-	-	139	213	-	-	-	-
LONDON— Hospital.....	33	41	-	-	29	90	3	15	-	-
Home.....	-	4	-	-	-	-	-	-	-	-
Jail.....	3	-	-	-	-	-	-	-	-	-
OTTAWA— Hospital.....	72	110	-	-	-	-	-	-	3	6
Home.....	5	6	-	-	-	-	-	-	-	1
Jail.....	14	3	-	-	-	-	-	-	-	-
ST. CATHARINES— Hospital.....	103	69	78	47	7	9	-	5	2	-
Home.....	2	9	1	-	-	-	-	-	-	-
Jail.....	8	-	1	-	-	-	-	-	-	-
NIAGARA FALLS— Hospital.....	12	15	1	3	-	-	-	-	-	-
WELLAND— Hospital.....	57	50	28	46	1	8	-	-	-	-
Home.....	1	4	-	-	-	-	-	-	-	-
ALL CENTRES.....	310	311	109	96	176	320	3	20	5	7

TABLE III  
TREATMENTS GIVEN

CENTRE	TYPE OF TREATMENT	OUT-PATIENTS		IN-PATIENTS	
		New	Return	New	Return
KINGSTON	Psychotherapy.....	-	-	314	-
	Electroshock.....	-	-	65	-
	TOTAL.....	-	-	379	-
LONDON	Psychotherapy.....	61	177	42	9
	Electroshock.....	-	4	30	6
	Insulin.....	-	-	15	1
	Insulin and electroshock.....	-	-	6	1
	Medication.....	1	-	3	-
	General.....	-	-	7	1
	None.....	19	-	16	-
	TOTAL.....	81	181	119	18
OTTAWA	DATA NOT AVAILABLE				
ST. CATHARINES	Psychotherapy.....	289	188	25	5
	Electroshock.....	-	12	-	-
	Anti-convulsive.....	4	5	-	-
	TOTAL.....	293	205	25	5
ALL CENTRES	Psychotherapy.....	350	365	381	14
	Electroshock.....	-	16	95	6
	Insulin.....	-	-	15	1
	Insulin and electroshock.....	-	-	6	1
	Medication.....	1	-	3	-
	Anti-convulsive.....	4	5	-	-
	General.....	-	-	7	1
	None.....	19	-	16	-
	TOTAL.....	374	386	523	23



TABLE IV  
NEW CASES BY AGE AND SEX

AGE GROUP (Years)	KINGSTON				LONDON				OTTAWA				ST. CATHARINES				TOTAL					
	M.	F.	Total		M.	F.	Total		M.	F.	Total		M.	F.	Total		M.	F.	Total			
			No.	%			No.	%			No.	%			No.	%			No.	%	No.	%
0-4.....	-	-	-	-	3	2	5	2.5	4	5	9	4.1	10	9	19	5.4	17	3.5	16	2.5	33	2.9
5-9.....	2	2	4	1.1	5	3	8	4.0	3	6	9	4.1	43	20	63	17.7	53	10.8	31	4.9	84	7.5
10-14.....	5	8	13	3.7	1	3	4	2.0	8	3	11	5.0	28	16	44	12.4	42	8.6	30	4.7	72	6.4
15-19.....	10	7	17	4.8	7	16	23	11.5	10	17	27	12.3	15	19	34	9.6	42	8.6	59	9.2	101	9.0
20-29.....	32	46	78	22.2	14	34	48	24.0	22	33	55	25.0	37	43	80	22.5	105	21.5	156	24.5	261	23.2
30-39.....	24	45	69	19.6	17	32	49	24.5	14	24	38	17.3	23	25	48	13.5	78	16.0	126	19.7	204	18.1
40-49.....	25	46	71	20.2	9	23	32	16.0	12	11	23	10.4	15	14	29	8.2	61	12.5	94	14.7	155	13.8
50-59.....	22	30	52	14.8	5	10	15	7.5	11	5	16	7.3	14	8	22	6.2	52	10.6	53	8.3	105	9.3
60-69.....	13	16	29	8.2	2	6	8	4.0	6	13	19	8.6	2	9	11	3.1	23	4.7	44	6.9	67	5.9
70 and Over.....	6	13	19	5.4	-	2	2	1.0	3	8	11	5.0	4	1	5	1.4	13	2.6	24	3.8	37	3.3
Not Stated.....	-	-	-	-	2	4	6	3.0	1	1	2	0.9	-	-	-	-	3	0.6	5	0.8	8	0.7
TOTAL.....	139	213	352	100.0	65	135	200	100.0	94	126	220	100.0	191	164	355	100.0	489	100.0	638	100.0	1,427	100.0

TABLE V  
NEW CASES BY REFERRING AGENCY

REFERRING AGENCY	KINGSTON			LONDON			OTTAWA			ST. CATHARINES			TOTAL			
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	%
1. Welfare agencies:																
Relief agencies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1
Mother's Allowance Commission	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1
Children's Aid Society	2	1	3	2	2	4	2	3	9	12	8	25	15	37	52	4.6
Salvation Army	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Big Brother Association	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Big Sister Association	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Family Service Bureau	-	-	-	1	2	3	1	2	8	12	2	-	9	14	23	2.0
Y.M.C.A. and Y.W.C.A.	-	-	-	2	2	2	1	1	-	-	-	-	-	2	2	0.2
Other agencies	-	-	-	1	1	2	1	1	1	1	3	2	4	4	8	0.7
2. Medical agencies:																
Family physician	132	211	343	22	61	83	29	40	69	101	109	210	284	421	705	62.6
School medical services	-	-	-	-	1	1	2	-	2	11	3	14	13	4	17	1.6
General hospitals	-	-	-	8	20	28	14	40	54	-	-	-	22	60	82	7.3
Mental hospitals	-	-	-	-	-	-	4	8	12	-	-	-	4	8	12	1.0
Local dept. of health or health centre	-	-	-	-	-	-	-	-	-	41	17	58	41	17	58	5.1
Other medical agencies	-	-	-	-	5	5	-	1	1	-	-	-	-	6	6	0.5
3. Educational agencies:																
School inspectors, principals, teachers	-	-	-	2	3	5	2	1	3	-	7	1	4	4	8	0.7
Prov. Sec's, Dept. and Galt Training School	-	-	-	-	-	-	-	-	-	-	-	-	7	1	8	0.7
4. Courts:																
Adult	5	1	6	4	2	6	24	6	30	8	1	9	41	10	51	4.5
Juvenile	-	-	-	-	1	1	-	1	1	-	-	-	-	2	2	0.2
5. Family	-	-	-	9	9	18	5	2	7	5	5	10	19	16	35	3.1
6. Self	-	-	-	7	11	18	1	3	4	5	1	6	13	15	28	2.5
7. Other	-	-	-	9	15	24	1	1	2	2	2	2	12	16	28	2.5
TOTAL	139	213	352	65	135	200	94	126	220	191	164	355	489	638	1,127	100.0



TABLE VII  
DIAGNOSIS BY SEX

PSYCHIATRIC CONDITION	KINGSTON						LONDON						OTTAWA						ST. CATHARINES						ALL CENTRES																
	M.			F.			T.			M.			F.			T.			M.			F.			T.			Males			Females			TOTAL							
	No.	%	No.	No.	%	No.	No.	%	No.	%	No.	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%								
A. Mental disorders:	11	10	21	4	12	16	5	7	12	5	7	12	5	7	12	5	7	12	5	7	12	5	7	12	25	5.1	36	5.6	61	5.4	12	2.4	41	6.4	53	4.7					
Schizophrenia.....	4	14	18	-	9	9	5	11	16	3	7	10	2	3	7	10	2	3	7	10	2	3	7	10	12	2.4	41	6.4	53	4.7	12	2.4	41	6.4	53	4.7					
Manic-depressive psychosis.....	6	11	17	1	2	8	1	2	8	10	2	8	10	2	8	10	2	8	10	2	8	10	2	8	7	1.4	23	3.6	33	2.9	5	0.8	12	1.0	12	1.0	12	1.0			
Senile psychoses.....	3	2	5	1	1	3	1	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	4	0.8	5	0.8	4	0.4	-	-	-	-	-	-	-	-			
Psychosis with arteriosclerosis.....	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
General paresis.....	6	21	27	22	47	69	30	2	2	4	1	4	5	9	1.8	4	1	4	5	9	1.8	4	1	4	5	9	1.8	40	6.3	49	4.3	159	32.6	255	40.0	414	36.7				
Involutional psychoses.....	60	108	168	22	47	69	30	45	75	75	47	55	102	17	3.5	30	4.7	47	17	3.5	30	4.7	47	17	3.5	30	4.7	47	17	3.5	30	4.7	47	17	3.5	30	4.7	47	17	3.5	
Psychoneuroses.....	5	11	16	3	9	12	9	10	19	19	10	19	19	10	19	19	10	19	19	10	19	10	19	19	17	3.5	30	4.7	47	17	3.5	30	4.7	47	17	3.5	30	4.7	47	17	3.5
Other or undiagnosed psychoses.....	2	2	4	2	5	17	13	5	18	1	1	2	18	3.7	13	2.0	18	3.7	13	2.0	18	3.7	13	2.0	18	3.7	13	2.0	18	3.7	13	2.0	18	3.7	13	2.0	18	3.7	13	2.0	
B. Without mental disorder:	5	5	10	8	5	1	6	2	2	4	1	5	19	3.9	2	0.3	1	1	2	2	0.3	1	1	2	2	0.3	3	0.3	3	0.3	51	10.5	39	6.1	90	8.0					
Psychopathic personality.....	2	2	4	2	5	17	13	5	18	1	1	2	18	3.7	13	2.0	18	3.7	13	2.0	18	3.7	13	2.0	18	3.7	13	2.0	18	3.7	13	2.0	18	3.7	13	2.0	18	3.7	13	2.0	
Epilepsy.....	8	8	16	5	1	6	2	-	-	-	-	-	2	4	1	5	19	3.9	2	0.3	1	1	2	2	0.3	3	0.3	3	0.3	7	1.4	5	0.8	12	1.0	12	1.0	12	1.0		
Alcoholism.....	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Drug addiction.....	1	2	3	5	6	11	6	7	13	39	24	63	51	10.5	39	6.1	90	8.0	12	1.0	12	1.0	12	1.0	7	1.4	5	0.8	12	1.0	12	1.0	12	1.0	12	1.0	12	1.0			
Mental defect.....	2	-	2	4	2	6	1	3	4	4	2	6	1	3	4	4	2	6	1	3	4	4	2	6	1	3	4	4	2	6	1	3	4	4	2	6	1	3	4		
Other non-psychotic conditions.....	17	19	36	10	10	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
C. Primary behaviour disorder:	2	1	3	3	3	6	1	2	3	9	6	15	15	3.1	12	1.9	27	2.4	12	1.9	27	2.4	12	1.9	15	3.1	12	1.9	27	2.4	12	1.9	27	2.4	12	1.9	27	2.4			
Simple adult maladjustment.....	3	7	10	2	4	6	5	1	6	35	15	50	45	9.2	27	4.2	72	6.4	27	4.2	72	6.4	27	4.2	45	9.2	27	4.2	72	6.4	27	4.2	72	6.4	27	4.2	72	6.4			
Primary behaviour disorders in children.....	17	19	36	10	10	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
D. Personality disorders†.....	-	-	-	-	4	2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
E. Without mental disorder, mental disease or mental defect*.....	-	-	-	-	4	2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
F. Undiagnosed (N.Y.D.).....	-	-	-	-	4	2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
TOTAL.....	139	213	352	65	135	200	94	126	220	191	164	355	489	100.0	638	100.0	1,127	100.0	638	100.0	1,127	100.0	638	100.0	489	100.0	638	100.0	1,127	100.0	638	100.0	1,127	100.0	638	100.0	1,127	100.0			

†Not specified elsewhere.  
\*No appreciable defect, no specific diagnosis.

TABLE VIII  
FREQUENCY OF CERTAIN TREATMENTS RECOMMENDED

TREATMENTS RECOMMENDED	KINGSTON			LONDON			OTTAWA			ST. CATHARINES			TOTAL			
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	
1. Individual psychotherapy: By patient's physician.....	115	197	312	3	12	15	—	31	52	8	10	18	11	22	33	2.9
In the clinic.....	—	—	—	15	32	47	—	—	73	45	28	73	196	288	484	42.9
2. School adjustment†.....	—	—	—	—	—	—	1	—	1	17	4	21	18	4	22	2.0
3. Habit training*.....	—	—	—	—	—	—	1	2	3	9	3	12	10	5	15	1.3
4. Group activity, organized recreation.....	—	—	—	1	1	2	—	—	—	6	3	9	7	4	11	1.0
5. Speech training.....	—	—	—	—	—	—	—	—	—	4	2	6	4	2	6	0.5
6. Home adjustment (other than habit training).....	—	—	—	4	6	10	3	2	5	40	50	90	47	58	105	9.3
7. Vocational adjustment.....	—	—	—	7	5	12	5	4	9	11	1	12	23	10	33	2.9
8. Foster home care.....	—	—	—	2	4	6	—	2	2	2	7	9	4	13	17	1.5
9. Physical care: Attending family physician.....	—	—	—	3	3	6	9	19	28	12	8	20	24	30	54	4.8
Anti-convulsive drugs.....	—	—	—	1	1	2	1	12	13	3	9	12	4	21	25	2.2
Other medication.....	—	—	—	—	—	—	8	5	13	—	—	—	8	5	13	1.2
O.P.D. shock therapy.....	—	—	—	—	4	4	1	1	2	2	9	11	3	14	17	1.5
Others.....	—	—	—	5	6	11	1	1	2	1	1	2	7	8	15	1.3
10. Institutional care: Ontario Hospital—Orillia.....	1	—	1	1	—	1	1	1	2	4	2	6	7	3	10	0.9
Other Ontario Hospitals.....	20	11	31	5	12	17	9	15	24	12	15	27	46	53	99	8.8
Bowmanville Boys' Training School.....	1	—	1	—	—	—	—	—	—	—	—	—	1	—	1	0.1
St. Joseph's Industrial School.....	—	2	2	—	—	—	—	—	—	1	1	2	1	3	4	0.4
Other training schools.....	2	3	5	1	2	3	4	6	10	—	—	—	7	11	18	1.6
Other institutions.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11. Others: Returned to court for disposal.....	—	—	—	2	1	3	18	2	20	4	—	4	24	3	27	2.4
Discharge from probation.....	—	—	—	—	—	—	3	4	7	—	—	—	3	4	7	0.6
Probation extension.....	—	—	—	—	—	—	—	3	3	—	—	—	—	3	3	0.3
Adoption.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Others.....	—	—	—	15	43	58	—	1	1	3	—	3	18	44	62	5.5
12. No treatment.....	—	—	—	1	4	5	8	15	23	7	11	18	16	30	46	4.1
TOTAL.....	139	213	352	65	135	200	94	126	220	191	164	355	489	638	1,127	100.0

†Change in grade, auxiliary class, etc.  
\*Enuresis, feeding, sleeping, parental education.

## MENTAL HEALTH CLINICS

C. ROGER MYERS, Ph.D., Psychologist

The object of this brief summary is intended merely to draw attention to some of the principal facts reflected in the data presented in the annual reports of the Mental Health Clinics, for the year ending March 31, 1947.

This year, 3,794 new cases were seen at the five Clinic Centres presently in operation, the largest volume of new cases recorded since the peak year 1941. A total of 56,344 new cases have been seen by all clinics since the inauguration of the Mental Health Clinic service in June, 1930. Case contacts examined during the year by members of the clinic staff, numbered 11,312. Further information relative to the case load, for each clinic, is given in Table 1.

The Children's Aid Society and family physicians referred 53 per cent of the new cases to the clinic centres during the year, while the various courts accounted for 15.1 per cent, the most favourable figure shown since 1941. Table 2 further details the sources from which the clinics received their cases.

As in each of the previous years since 1939, the new male cases (52.5 per cent), referred to the clinics during 1947, is slightly higher than the female cases (47.5 per cent). An increasing use of clinic facilities by those in the adult age group, (38.2 per cent of the new cases reported), is again evident.

The group classified as being of school age, (6-13 years), contributed 27.0 per cent of the total cases. Table 3 and Table 4 respectively give further data relative to the above.

Specific problems encountered by the Mental Health Clinics are presented in Table 5. Suspected mental illness and suspected mental defect combined contributed 881 cases or 33.7 per cent of the total number of cases for the year. Estimation of Intelligence and Child Training follow with 366 and 265 cases, respectively. Since 1941, the number of cases of Juvenile Delinquency has dropped from 469 to 256 for the current year.

Clinic patients classified according to Intelligence grades are given in Table 6. Of the new cases seen during the year, 1,024 or 39.2 per cent were considered "Normal" and 284 or 10.9 per cent were catatoried as "mentally defective". As evident in former years the proportion of subnormal cases continues to be large.

The frequency of certain specific psychiatric conditions found among the new cases examined by the Mental Health Clinics is shown in Table 7. Of the total number, 391 or 15.0 per cent were classified as "Neuroses" while "Mental Defects" contributed 322 or 12.3 per cent. Those classified as "Schizophrenia" were considerably less numerous (120 or 4.6 per cent).

In Table 8 the types and frequency of treatments recommended by the Clinics are given. Individual Psychotherapy was recommended for 400 of the new cases and Institutional Care for 440. Of the latter number, 37 were recommended for admission to the Ontario Hospital School, Orillia, and 213 to other Ontario Hospitals.

TABLE No. 1  
CASE LOAD

CLINIC	YEAR ENDING MARCH 31, 1947			Number of New Cases (Since 1930)
	Number of New Cases	Number of Return Cases	Number of Case Contacts†	
Brockville.....	858	330	3,801	8,941
Hamilton.....	850	410	3,766	10,597
Kingston.....	588	197	2,565	5,931
London.....	576	190	1,180	10,053
New Toronto.....	-	-	-	1,720*
Orillia.....	-	-	-	1,568*
Whitby.....	-	-	-	4,156*
Toronto Psychiatric.....	922	1,535	Not available	13,378
<b>TOTAL.....</b>	<b>3,794</b>	<b>2,662</b>	<b>11,312</b>	<b>56,344</b>

\*New Toronto Clinic figure is for 1931-1937, Orillia Clinic figure is for 1931-1940. Whitby Clinic figure is for 1931-1942.

†Any contact made by any ONE member of the Clinic Staff (including "new" and "return" cases).

NOTE: In subsequent tables information concerning the nature of the case load is provided for 2,610 of the new cases (excluding all cases examined at the Toronto Psychiatric Hospital and 262 of the cases examined by the Hamilton Clinic).

TABLE No. 2  
NEW CASES BY REFERRING AGENCY

REFERRING AGENCY	Number of Cases	Per Cent
Welfare Agencies.....	758	29.0
Relief Agencies.....	3	0.1
Mother's Allowance Commission.....	3	0.1
Children's Aid Society.....	683	26.2
Other Agencies.....	69	2.6
Medical Agencies.....	1,197	45.9
Family Physician.....	685	26.8
School Medical Services.....	127	4.9
General Hospitals.....	108	4.1
Mental Hospitals.....	41	1.6
Other Health Agencies.....	236	9.0
Educational Agencies.....	109	4.2
Courts.....	395	15.1
Adult.....	224	8.6
Juvenile.....	171	6.5
Family.....	69	2.6
Self.....	59	2.8
Other.....	23	0.9
<b>TOTAL.....</b>	<b>2,610</b>	<b>100.0</b>

TABLE No. 3  
NEW CASES BY SEX

SEX	Number	Per Cent
Male.....	1,369	52.5
Female.....	1,241	47.5
<b>BOTH SEXES.....</b>	<b>2,610</b>	<b>100.0</b>



TABLE No. 4  
NEW CASES BY AGE

AGE GROUPS (Years)	Number of Cases	Per Cent
Under 6.....	336	12.9
6-13.....	705	27.0
14-21.....	488	18.7
22 and over.....	996	38.2
Not stated.....	85	3.2
<b>TOTAL.....</b>	<b>2,610</b>	<b>100.0</b>

TABLE No. 5  
FREQUENCY OF CERTAIN SPECIFIC PROBLEMS

PROBLEM	Number of Cases	Per Cent
Suspected Mental Illness.....	632	24.2
Suspected Mental Defect*.....	249	9.5
Convulsive Disorders.....	67	2.6
Probation Supervision.....	57	2.2
Boarding Home Supervision.....	22	0.8
Juvenile Delinquency.....	256	9.8
Child Training†.....	265	10.2
Adult Adjustment.....	114	4.4
Estimation of Intelligence.....	366	14.0
Vocational Advice.....	12	0.5
Other Problems.....	570	21.8
<b>TOTAL.....</b>	<b>2,610</b>	<b>100.0</b>

\*Includes school retardation.

†Other than delinquency.

TABLE No. 6  
NEW CASES BY INTELLIGENCE GRADE

INTELLIGENCE GRADE	Number of Cases	Per Cent
Superior.....	163	6.2
Normal.....	565	21.6
Undiagnosed (estimated normal).....	459	17.6
Dull Normal.....	300	11.5
Borderline.....	169	6.5
Moron.....	182	7.0
Imbecile.....	81	3.1
Idiot.....	21	0.8
Defective Unspecified.....	59	2.3
Not Estimated.....	611	23.4
<b>TOTAL.....</b>	<b>2,610</b>	<b>100.0</b>

TABLE No. 7  
FREQUENCY OF CERTAIN SPECIFIC PSYCHIATRIC CONDITIONS

PSYCHIATRIC CONDITION	Number of Cases	Per Cent
Neuroses.....	391	15.0
Schizophrenia.....	120	4.6
Manic-depressive.....	73	2.8
Senile Dementia.....	33	1.3
Psychosis with Arteriosclerosis.....	13	0.5
General Paresis.....	6	0.2
Involuntional Melancholia.....	26	1.0
Other Psychoses.....	65	2.5
Psychopathic Personality.....	64	2.4
Epilepsy.....	51	2.0
Alcoholism.....	20	0.8
Drug Addiction.....	3	0.1
Mental Defect.....	322	12.3
Miscellaneous.....	1,423	54.5
<b>TOTAL.....</b>	<b>2,610</b>	<b>100.0</b>

TABLE No. 8  
 FREQUENCY OF CERTAIN TREATMENTS RECOMMENDED

TREATMENTS RECOMMENDED	Number Receiving Treatments
Individual Psychotherapy .....	400
School Adjustment .....	120
Habit Training .....	123
Home Adjustment—Other than Habit Training .....	199
Vocational Adjustment .....	56
Foster Home Care .....	244
Physical Care .....	258
Medication .....	127
Other .....	131
Institutional Care .....	440
Ontario Hospital—Orillia .....	37
Other Ontario Hospitals .....	213
Bowmanville Boys' Training School .....	10
Other Training Schools .....	45
Other Institutions .....	135
Miscellaneous .....	555
No Treatment Specified .....	277

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# **SUPPLEMENTARY TABLES**

**EPILEPSY DIVISION, ONTARIO HOSPITAL, WOODSTOCK  
TUBERCULOSIS DIVISION, ONTARIO HOSPITAL, WOODSTOCK  
ONTARIO HOSPITAL SCHOOL, ORILLIA**

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## SUPPLEMENTARY TABLES ONTARIO HOSPITAL, WOODSTOCK

TABLE A  
POPULATION BY DIVISIONS  
APRIL 1, 1946 TO MARCH 31, 1947

DIVISION	First Admissions			Readmissions			Transfers Received			In Residence End of Year		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Epilepsy.....	35	30	65	13	10	23	3	3	6	308	326	634
Tuberculosis.....	10	11	21	-	-	-	111	45	156	342	261	603
<b>TOTAL.....</b>	<b>45</b>	<b>41</b>	<b>86</b>	<b>13</b>	<b>10</b>	<b>23</b>	<b>114</b>	<b>48</b>	<b>162</b>	<b>650</b>	<b>587</b>	<b>1,237</b>

## THE EPILEPSY DIVISION

TABLE B  
FIRST ADMISSIONS BY AGE, SEX AND MENTAL STATUS  
APRIL 1, 1946 TO MARCH 31, 1947

PRESENT AGE	NORMAL			DULL NORMAL OR BORDERLINE			MORON			IMBECILE			UNASCERTAINED			TOTAL		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Under 10.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-14.....	-	-	-	-	-	-	1	-	1	1	-	1	-	1	1	2	1	3
15-19.....	-	3	3	-	3	3	-	1	1	-	1	1	7	5	12	7	13	20
20-24.....	1	-	1	-	-	-	1	-	1	-	-	-	3	4	7	5	4	9
25-29.....	-	-	-	-	-	-	1	-	1	-	-	-	4	3	7	5	3	8
30-34.....	1	-	1	-	-	-	-	-	-	-	1	1	2	4	6	3	5	8
35-39.....	2	-	2	-	-	-	-	-	-	-	-	-	5	-	5	7	-	7
40-44.....	-	1	1	-	-	-	-	-	-	1	-	1	2	-	2	3	1	4
45-49.....	-	-	-	-	-	-	1	1	2	-	-	-	1	2	3	2	3	5
50-54.....	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	1
55-59.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60-64.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65-69.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70-74.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75-79.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
80 and over.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Not stated.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>ALL AGES..</b>	<b>4</b>	<b>4</b>	<b>8</b>	<b>-</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>2</b>	<b>6</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>25</b>	<b>19</b>	<b>44</b>	<b>35</b>	<b>30</b>	<b>65</b>

TABLE C  
FIRST ADMISSIONS BY EPILEPTIC GROUPS AND TYPES OF SEIZURE

TYPE OF SEIZURE	SYMPTOMATIC									Idiopathic			TOTAL		
	Toxaemic						Due to Brain Disease								
	Exogenous			Endogenous											
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Petit Mal.....	-	-	-	-	-	-	1	1	2	2	2	4	3	3	6
Grand Mal.....	-	-	-	-	-	-	6	-	6	5	1	6	11	1	12
Petit and Grand Mal..	-	1	1	-	1	1	2	2	4	5	11	16	7	15	22
Petit and/or Grand Mal with Post-Epileptic States.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petit and/or Grand Mal with Psychic equivalents.....	-	1	1	-	-	-	3	7	10	9	3	12	12	11	23
Petit and/or Grand Mal with Hysteroid..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jacksonian.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Psychic Equivalent...	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Not Epileptic; Hysteroid and Unclassified.	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2
TOTAL.....	-	2	2	-	1	1	12	10	22	21	17	38	35*	30	65*

\*Includes two cases not epileptic.

TABLE D  
FIRST ADMISSIONS BY DURATION OF EPILEPSY BEFORE ADMISSION AND BY EPILEPTIC GROUPS

DURATION OF EPILEPSY BEFORE ADMISSION	SYMPTOMATIC									Idiopathic			Not Epileptic and Unclassified			TOTAL		
	Toxaemic						Due to Brain Disease											
	Exogenous			Endogenous														
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Under 1 year.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 year.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2 years.....	-	-	-	-	-	-	2	-	2	-	1	1	-	-	-	2	1	3
3-4 years.....	-	-	-	-	-	-	2	1	3	4	1	5	-	-	-	6	2	8
5-9 years.....	-	1	1	-	-	-	2	2	4	3	5	8	-	-	-	5	8	13
10 years and over.....	-	1	1	-	1	1	6	7	13	14	10	24	-	-	-	20	19	39
Unascertained.....	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	2	-	2
TOTAL.....	-	2	2	-	1	1	12	10	22	21	17	38	2	-	2	35	30	65

TABLE E  
ETIOLOGICAL FACTORS† AMONG FIRST ADMISSIONS BY EPILEPTIC GROUPS

ETIOLOGICAL FACTORS	SYMPTOMATIC									Idiopathic	Not Epileptic and Unclassified	TOTAL						
	Toxaemic						Due to Brain Disease											
	Exogenous			Endogenous														
	M.	F.	T.	M.	F.	T.	M.	F.	T.			M.	F.	T.	M.	F.	T.	
Head injury at birth . . . . .	-	-	-	-	-	-	2	3	5	-	-	-	-	-	-	2	3	5
Trauma since birth . . . . .	-	-	-	-	-	-	4	4	8	-	-	-	-	-	-	4	4	8
Developmental defects . . . . .	-	-	-	-	-	-	1	-	1	3	4	7	-	-	-	4	4	8
Meningo-encephalitis complicating infections* . . . . .	-	-	-	-	-	-	1	1	2	-	-	-	-	-	-	1	1	2
Gastro-intest. disorders . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other infectious diseases . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cerebro-vascular sclerosis . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Syphilis { Acquired . . . . .	-	-	-	-	-	-	1	1	2	-	-	-	-	-	-	1	1	2
{ Congenital . . . . .	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	1	-	1
Alcoholism . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endocrinopathy . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pregnancy . . . . .	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	1	1
Fam. hist. of convulsions . . . . .	-	1	1	-	-	-	1	1	2	5	3	8	-	-	-	6	5	11
Other specified causes . . . . .	-	2	2	-	-	-	3	4	7	-	4	4	-	-	-	3	10	13
Cause unascertained . . . . .	-	-	-	-	-	-	-	-	-	16	10	26	-	-	-	16	10	26
Not epileptic . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	2	-	2
<b>TOTAL . . . . .</b>	-	3	3	-	1	1	14	14	28	24	21	45	2	-	2	40	39	79

†If more than one etiological factor is found, all are reported in table.

\*Including all cases due to lesions resulting from non-syphilitic meningitis or encephalitis; e.g., scarlet fever, measles, influenza, typhoid fever, encephalitis lethargica, etc.

TABLE F  
DISCHARGES BY EPILEPTIC GROUPS AND CONDITION ON DISCHARGE

CONDITION ON DISCHARGE	SYMPTOMATIC									Idiopathic	Not Epileptic and Unclassified	TOTAL						
	Toxaemic						Due to Brain Disease											
	Exogenous			Endogenous														
	M.	F.	T.	M.	F.	T.	M.	F.	T.			M.	F.	T.	M.	F.	T.	
Recovered . . . . .	-	-	-	-	2	2	3	1	4	3	8	11	-	-	-	6	11	17
Improved . . . . .	-	-	-	-	2	2	5	1	6	18	14	32	-	-	-	23	17	40
Unimproved . . . . .	-	-	-	-	1	1	1	2	3	2	3	5	-	-	-	3	6	9
Not epileptic . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	1	1	2
<b>TOTAL . . . . .</b>	-	-	-	-	5	5	9	4	13	23	25	48	1	1	2	33	35	68

TABLE G  
 PATIENTS IN RESIDENCE AT END OF YEAR BY AGE, SEX AND MENTAL STATUS

PRESENT AGE (Years)	Epileptics not insane or feebleminded		Epileptics who are feebleminded		Insane Epileptics		Feebleminded, not epileptic		All other cases		TOTAL						
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	T.				
Under 10.....	-	-	-	-	-	-	-	-	-	-	-	-	-				
10-14.....	2	2	1	1	-	1	-	-	-	-	2	2	4				
15-19.....	13	9	22	17	29	3	4	-	-	-	26	29	55				
20-24.....	7	7	14	16	19	35	8	2	10	1	-	32	28	60			
25-29.....	4	4	8	17	14	31	13	6	19	1	1	36	25	61			
30-34.....	2	8	10	14	25	39	16	14	30	1	-	33	47	80			
35-39.....	8	5	13	18	21	39	12	21	33	2	-	40	47	87			
40-44.....	3	4	7	17	11	28	12	15	27	1	1	33	30	63			
45-49.....	4	4	8	6	20	26	15	19	34	-	-	25	43	68			
50-54.....	4	2	6	8	8	16	17	18	35	2	2	31	28	59			
55-59.....	1	2	3	4	3	7	10	16	26	-	-	17	21	38			
60-64.....	2	1	3	1	1	2	12	7	19	-	-	15	9	24			
65-69.....	3	2	5	-	-	-	4	8	12	-	-	9	10	19			
70-74.....	4	2	6	1	-	1	2	2	4	-	-	7	4	11			
75-79.....	-	-	-	-	-	-	1	-	1	-	1	2	-	2			
80 and over.....	-	-	-	-	-	-	-	-	-	-	-	-	3	3			
Not Stated.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
ALL AGES.....	57	50	107	114	140	254	123	135	258	8	8	6	1	7	308	326	634



# SUPPLEMENTARY TABLES TUBERCULOSIS DIVISION ONTARIO HOSPITAL, WOODSTOCK

TABLE A  
MOVEMENT OF PATIENT POPULATION  
APRIL 1, 1946 TO MARCH 31, 1947

POPULATION	Male	Female	TOTAL
1. Patients on the Books at the beginning of the year:			
(a) In Residence.....	342	262	604
(b) In Boarding Homes.....	-	-	-
(c) On Probation.....	2	1	3
(d) On Elopement (not discharged).....	-	-	-
(e) Total on the Books.....	344	263	607
2. Patients Admitted during the year:			
(a) First Admissions.....	10	11	21
(b) Readmissions.....	-	-	-
(c) First Transfers.....	109	40	149
(d) Re-Transfers.....	5	6	11
(e) Total Patients Admitted.....	124	57	181
3. Total Patients under care during the year.....	468	320	788
4. Patients Discharged from Books during year:			
(a) Discharged.....	6	4	10
(b) Departed.....	-	-	-
(c) Elopers discharged.....	-	1	1
(d) Died†.....	48	24	72
(e) Transferred.....	67	24	91
(f) Total Patients Discharged from books.....	121	53	174
5. Patients on the Books at the end of the year: (Item 1e+2e-4f)			
(a) In Residence.....	342	261	603
(b) In Boarding Homes.....	-	-	-
(c) On Probation.....	5	6	11
(d) On Elopement (not discharged).....	-	-	-
(e) Total on Books.....	347	267	614
6. Daily Average Population in residence.....	339.4	258.7	598.1
7. Daily Average Population on books.....	342.2	262.8	606.0

†Does NOT include deaths on probation or elopement. These are classed as discharged.

TABLE B  
MOVEMENT OF POPULATION BY TUBERCULOSIS STATUS ON ADMISSION AND SEX

SOURCE OR DESTINATION	TUBERCULOSIS STATUS												TOTAL								
	Minimal			Mod. Advanced			Far Advanced			Quiescent or Arrested			Non-Pulmonary			Observation					
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.			
First Admissions.....	1	3	4	3	2	5	3	2	5	1	2	3	-	-	-	2	2	4	10	11	21
First Transfers.....	23	10	33	10	-	10	1	1	2	1	-	1	14	2	16	60	27	87	109	40	149
Readmissions.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Re-Transfers.....	3	2	5	1	-	1	-	-	-	-	2	2	-	-	-	1	2	3	5	6	11
Discharges Home.....	-	-	-	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Discharges to Sanatoria.....	-	1	1	-	1	1	1	-	1	-	-	-	-	-	-	-	-	-	1	1	2
Deportations.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Eloperments.....	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Transfers to Ontario Hospitals.....	16	4	20	13	5	18	1	-	1	7	4	11	3	1	4	27	10	37	67	24	91
Deaths in Hospital.....	13	6	19	9	9	18	8	-	8	3	3	6	6	2	8	9	4	13	48	24	72
TOTAL.....	56	27	83	37	18	55	14	3	17	12	11	23	23	5	28	103	46	149	245	110	355

TABLE C  
FIRST ADMISSIONS AND FIRST TRANSFERS BY SOURCES, TUBERCULOSIS STATUS AND SEX

SOURCE	TUBERCULOSIS STATUS														TOTAL								
	Minimal			Mod. Advanced			Far Advanced			Quiescent and Arrested			Non-Pulmonary			For Observation Only			M.	F.	T.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.					
BROCKVILLE.....	5	1	6	3	-	3	-	-	-	-	-	-	-	2	-	2	16	3	19	26	4	30	
COBOURG.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	2	2
FORT WILLIAM.....	2	-	2	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	1	-	4	-	4
HAMILTON.....	1	-	1	-	-	-	-	-	-	-	-	-	-	1	-	1	5	4	9	7	4	11	
KINGSTON.....	-	3	3	1	-	1	-	-	-	-	-	-	-	1	-	1	1	4	5	3	7	10	
LANGSTAFF.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LONDON.....	5	2	7	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	5	9	3	12	
NEW TORONTO.....	4	2	6	2	-	2	-	1	1	-	-	-	-	6	-	6	16	4	20	28	7	35	
ORILLIA.....	-	-	-	2	-	2	1	1	1	1	1	1	1	1	1	1	4	1	5	9	1	10	
PENETANG.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	2	2	
ST. THOMAS.....	-	-	-	2	-	2	-	-	-	-	-	-	-	-	1	1	5	-	5	7	1	8	
TORONTO.....	1	-	1	-	-	-	-	-	-	-	-	-	-	1	-	1	4	2	6	6	2	8	
WHITBY.....	5	2	7	-	-	-	-	-	-	-	-	-	-	1	1	2	2	4	6	8	7	15	
WOODSTOCK.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	2	2	
OTHER SOURCES.....	1	3	4	3	2	5	3	2	5	1	2	3	1	2	3	-	2	2	4	10	11	21	
TOTAL.....	24	13	37	13	2	15	4	3	7	2	2	4	2	2	16	14	62	29	91	119	51	170	

TABLE D  
READMISSIONS AND RE-TRANSFERS BY SOURCES, TUBERCULOSIS STATUS AND SEX

SOURCE	TUBERCULOSIS STATUS												TOTAL				
	Minimal		Mod. Advanced		Far Advanced		Quiescent or Arrested		Non-Pulmonary		For Observation Only		M.	F.	T.		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.				T.	
BROCKVILLE.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COBOURG.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FORT WILLIAM.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAMILTON.....	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	2
KINGSTON.....	2	1	3	-	-	-	-	-	-	-	-	-	1	1	2	2	4
LANGSTAFF.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LONDON.....	1	-	1	-	-	-	-	-	-	-	-	1	-	1	2	-	2
NEW TORONTO.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ORILLIA.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PENETANG.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ST. THOMAS.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TORONTO.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WHITBY.....	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
WOODSTOCK.....	-	-	1	-	1	-	-	-	-	-	-	-	1	1	1	1	2
OTHER SOURCES.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL.....	3	2	5	1	-	1	-	2	2	-	-	1	2	3	5	6	11

TABLE E  
ADMISSIONS BY AGE ON ADMISSION AND SEX

AGE ON ADMISSION	First Admissions			First Transfers			Readmissions			Re-Transfers			TOTAL		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Under 10.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10-14.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-19.....	1	-	1	6	1	7	-	-	-	-	-	-	7	1	8
20-24.....	2	1	3	10	1	11	-	-	-	-	1	1	12	3	15
25-29.....	1	2	3	7	1	8	-	-	-	-	-	-	8	3	11
30-34.....	-	4	4	15	2	17	-	-	-	1	-	1	16	6	22
35-39.....	2	1	3	16	3	19	-	-	-	1	-	1	19	4	23
40-44.....	-	2	2	9	2	11	-	-	-	1	-	1	10	4	14
45-49.....	1	-	1	9	6	15	-	-	-	-	2	2	10	8	18
50-54.....	-	-	-	8	4	12	-	-	-	-	1	1	8	5	13
55-59.....	1	-	1	9	2	11	-	-	-	-	-	-	10	2	12
60-64.....	2	-	2	7	11	18	-	-	-	1	-	1	10	11	21
65-69.....	-	-	-	4	4	8	-	-	-	-	1	1	4	5	9
70-74.....	-	-	-	6	-	6	-	-	-	1	1	2	7	1	8
75-79.....	-	-	-	1	2	3	-	-	-	-	-	-	1	2	3
80 and over.....	-	1	1	2	1	3	-	-	-	-	-	-	2	2	4
Not stated.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALL AGES.....	10	11	21	109	40	149	-	-	-	5	6	11	124	57	181

TABLE F  
PATIENTS IN RESIDENCE BY SEX AND DIAGNOSIS

		DIAGNOSIS	M.	F.	T.
WITH PSYCHOSIS	01.	With Syphilitic Meningo-Encephalitis.....	14	2	16
	02.	With other forms of Syphilis.....	1	-	1
	03.	With Epidemic Encephalitis.....	1	2	3
	04.	With other Infectious Diseases.....	-	-	-
	05.	Alcoholic Psychoses.....	4	1	5
	06a.	Due to Opium and Other Drugs.....	-	-	-
	06b.	Due to other Exogenous Toxins.....	-	-	-
	07.	Traumatic Psychoses.....	-	-	-
	08.	With Cerebral Arteriosclerosis.....	13	2	15
	09.	With other Disturbances of Circulation.....	1	-	1
	10.	With Convulsive Disorders (Epilepsy).....	4	2	6
	11.	Senile Psychoses.....	8	8	16
	12.	Involuntional Psychoses.....	5	8	13
	13.	Due to other Metabolic, etc. Diseases.....	-	-	-
	14.	Due to New Growth.....	-	-	-
	15.	With Organic Changes of Nervous System.....	-	1	1
	16.	Psychoneuroses.....	4	1	5
	17.	Manic-Depressive Psychoses.....	11	11	22
	18.	Dementia Praecox (Schizophrenia).....	214	179	393
	19.	Paranoia and Paranoid Conditions.....	1	-	1
	20.	With Psychopathic Personality.....	1	1	2
	21.	With Mental Deficiency.....	15	13	28
22.	Undiagnosed Psychoses.....	-	-	-	
WITHOUT PSYCHOSIS	231a.	Epileptics not Psychotic or Feeble-minded.....	2	-	2
	231b.	Epileptics who are Feeble-minded.....	5	1	6
	232.	Alcoholism.....	-	-	-
	233.	Drug Addiction.....	-	-	-
	234.	Mental Deficiency.....	38	29	67
	235.	Disorders of Personality.....	-	-	-
	236.	Psychopathic Personality.....	-	-	-
	24.	Primary Behaviour Disorders.....	-	-	-
25.	Without Mental Disorder.....	-	-	-	
Total 1-22.....			297	231	528
Total 23-25.....			45	30	75
GRAND TOTAL.....			342	261	603

TABLE G  
PATIENTS IN RESIDENCE BY PRESENT AGE, PRESENT TUBERCULOSIS STATUS AND SEX

PRESENT AGE (years)	PRESENT TUBERCULOSIS STATUS												TOTAL																
	ACTIVE						QUESCENT OR ARRESTED						For Observation Activity* Questionable																
	Minimal	Moderately Advanced	Far Advanced	Non-Pulmonary	Minimal	Moderately Advanced	Far Advanced	Non-Pulmonary	Minimal	Moderately Advanced	Far Advanced	Non-Pulmonary	M.	F.	T.														
Under 10																													
10-14																													
15-19																													
20-24																													
25-29																													
30-34																													
35-39																													
40-44																													
45-49																													
50-54																													
55-59																													
60-64																													
65-69																													
70-74																													
75-79																													
80 and over																													
Not Stated																													
ALL AGES	47	36	83	27	30	57	16	18	34	11	1	12	113	226	56	44	100	25	5	30	2	2	4	15	12	57	342	261	603

\* includes suspected tuberculosis.

TABLE H  
LENGTH OF STAY\* BY DESTINATION AND SEX

DESTINATION	LENGTH OF STAY IN YEARS AND MONTHS																		TOTAL						
	0.0-0.5			0.6-0.11			1.0-1.11			2.0-2.11			3.0-3.11			4.0-4.11			5.0 and over			M.	F.	T.	
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.							
Discharge Home.....	1	-	1	1	-	1	-	-	-	-	-	-	-	1	1	-	-	-	1	-	-	4	1	5	
Discharge to Sanatoria.....	2	2	4	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	5	
Deportation.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Elopement.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1
Transfer to Ontario Hospitals.....	1	1	2	2	2	4	19	1	20	14	4	18	3	1	4	3	2	5	25	13	38	67	24	91	
Deaths in Hospital.....	11	5	16	13	2	15	11	4	15	2	2	4	2	-	2	2	-	2	7	11	18	48	24	72	
ALL DESTINATIONS.....	15	8	23	16	5	21	31	5	36	16	6	22	5	2	7	5	2	7	33	25	58	121	53	174	

\*Length of stay in Woodstock Tuberculosis Unit, opened October, 1939.



TABLE I  
CAUSES OF DEATH

CAUSE OF DEATH	TOTAL		
	M.	F.	T.
<b>Infectious and Parasitic Diseases</b>			
Typhoid and paratyphoid fever	—	—	—
Measles	—	—	—
Scarlet Fever	—	—	—
Diphtheria	—	—	—
Influenza	—	—	—
Dysentery	—	—	—
Tuberculosis of the respiratory system	35	15	50
Other forms of tuberculosis	2	1	3
Syphilis	—	—	—
Purulent infection, septicaemia	—	—	—
Other infectious and parasitic diseases	—	—	—
<b>Cancer and Other Tumours</b>			
Cancer and other malignant tumours	—	2	2
Tumours, non-malignant and unspecified	—	—	—
<b>Rheumatic Diseases, Diseases of Nutrition and of Endocrine Glands and Other General Diseases</b>			
Acute rheumatic fever	—	—	—
Chronic rheumatism and gout	—	—	—
Diabetes mellitus	—	—	—
Diseases of the thyroid and parathyroid glands	—	—	—
Other general diseases	—	—	—
<b>Diseases of the Blood and Blood Forming Organs</b>			
Anaemia	—	—	—
Leukaemias, aleukaemias, and other diseases of the blood and blood forming organs	—	—	—
<b>Chronic Poisonings and Intoxications</b>			
Alcoholism (acute or chronic)	—	—	—
Other chronic poisonings	—	—	—
<b>Diseases of the Nervous System and Organs of Special Sense</b>			
Simple meningitis	—	—	—
Progressive locomotor ataxia (tabes dorsalis)	—	—	—
Cerebral haemorrhage, cerebral embolism and thrombosis	1	—	1
General paralysis of the insane	2	—	2
Dementia praecox and other psychoses	—	—	—
Epilepsy	—	—	—
Other diseases of the nervous system	—	—	—
Diseases of the eye, ear and their annexa	—	—	—
<b>Diseases of the Circulatory System</b>			
Pericarditis	—	—	—
Acute and chronic endocarditis, valvular diseases	—	1	1
Diseases of the myocardium	2	2	4
Diseases of the coronary arteries and angina pectoris	2	1	3
Other diseases of the heart	—	—	—
Arteriosclerosis	—	—	—
Other diseases of the circulatory system	—	—	—
<b>Diseases of the Respiratory System</b>			
Bronchitis	—	—	—
Pneumonias (lobar, broncho and unspecified)	1	2	3
Pleurisy	1	—	1
Other diseases of the respiratory system (not tuberculosis)	—	—	—
<b>Diseases of the Digestive System</b>			
Ulcer of the Stomach and duodenum	—	—	—
Diarrhoea and enteritis	—	—	—
Appendicitis	—	—	—
Hernia, intestinal obstruction	—	—	—
Cirrhosis of the liver	—	—	—
Other diseases of the liver and biliary passages, including biliary calculi	—	—	—
Other diseases of the digestive system	—	—	—
<b>Diseases of the Genito-Urinary System</b>			
Nephritis	—	—	—
Other diseases of the kidneys and ureters	—	—	—
Calculi of the urinary passages	—	—	—
Diseases of the bladder (tumours excepted)	—	—	—
Diseases of the urethra, urinary abscess, etc.	—	—	—
Diseases of the prostate	—	—	—
Diseases of the genital organs, not specified as venereal	—	—	—
<b>Diseases of Pregnancy, Childbirth and the Puerperal State</b>			
Puerperal septicaemia	—	—	—
Other diseases of pregnancy, childbirth and puerperal state	—	—	—
<b>Diseases of the Skin and Cellular Tissue</b>			
Diseases of the Bones and Organs of Locomotion	1	—	1
<b>Congenital Malformations</b>			
Senility	—	—	—
<b>Violent or Accidental Death</b>			
Suicide	—	—	—
Homicide	—	—	—
Accidental drowning	—	—	—
Accidental burns	—	—	—
Other accidents	1	—	1
<b>III-Defined Causes of Death</b>			
GRAND TOTAL	48	24	72

## SUPPLEMENTARY TABLES

### ONTARIO HOSPITAL SCHOOL, ORILLIA

(Hospital for Mentally Defective)

TABLE A  
PATIENTS IN RESIDENCE BY SEX AND MENTAL STATUS  
MARCH 31, 1947

MENTAL STATUS	MALE		FEMALE		TOTAL	
	Number	Per Cent	Number	Per Cent	Number	Per Cent
Idiot.....	326	26.4	282	26.4	608	26.4
Imbecile.....	618	49.9	501	46.8	1,119	48.5
Moron.....	253	20.5	253	23.7	506	21.9
Borderline.....	32	2.6	30	2.8	62	2.7
Not Mentally Defective.....	8	0.6	3	0.3	11	0.7
<b>TOTAL.....</b>	<b>1,237</b>	<b>100.0</b>	<b>1,069</b>	<b>100.0</b>	<b>2,306</b>	<b>100.0</b>

TABLE B  
FIRST ADMISSIONS BY MENTAL STATUS AND AGE

AGE GROUP (Years)	Idiot			Imbecile			Moron			Not Mentally Defective			TOTAL		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Under 10.....	21	18	39	16	13	29	16	4	20	3	—	3	56	35	91
10-14.....	4	4	8	15	13	28	13	9	22	1	1	2	33	27	60
15-19.....	4	2	6	4	8	12	7	22	29	3	5	8	18	37	55
20-24.....	—	1	1	1	1	2	—	—	—	—	—	—	1	2	3
25-29.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
35-39.....	—	—	—	—	—	—	—	—	—	1	1	—	1	1	—
40-44.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
45-49.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
50 and over.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unascertained.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>TOTAL.....</b>	<b>29</b>	<b>25</b>	<b>54</b>	<b>36</b>	<b>35</b>	<b>71</b>	<b>36</b>	<b>35</b>	<b>71</b>	<b>7</b>	<b>7</b>	<b>14</b>	<b>108</b>	<b>102</b>	<b>210</b>

TABLE C  
FIRST ADMISSIONS BY MENTAL STATUS AND ECONOMIC CONDITION

ECONOMIC CONDITION	Idiot			Imbecile			Moron			Not Mentally Defective			TOTAL		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Dependent.....	6	9	15	10	20	30	28	29	57	5	5	10	49	63	112
Marginal.....	16	12	28	20	9	29	7	6	13	2	2	4	45	29	74
Comfortable.....	7	4	11	6	6	12	1	-	1	-	-	-	14	10	24
Unascertained.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b> .....	<b>29</b>	<b>25</b>	<b>54</b>	<b>36</b>	<b>35</b>	<b>71</b>	<b>36</b>	<b>35</b>	<b>71</b>	<b>7</b>	<b>7</b>	<b>14</b>	<b>108</b>	<b>102</b>	<b>210</b>

TABLE D  
FIRST ADMISSIONS BY MENTAL STATUS AND CLINICAL DIAGNOSIS

CLINICAL CLASSIFICATION	Idiot			Imbecile			Moron			Not Mentally Defective			TOTAL		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Familial.....	5	4	9	11	11	22	23	27	50	7	1	8	46	43	89
Monogolism.....	4	-	4	3	3	6	1	-	1	-	-	-	8	3	11
With Developmental Cranial Anomalies.....	14	12	26	21	11	32	10	7	17	-	5	5	45	35	80
With Congenital Cerebral Spastic Infantile Paralysis.....	1	-	1	-	-	-	-	-	-	-	-	-	1	-	1
Post-infectional.....	-	-	-	1	1	2	-	-	-	-	-	-	1	1	2
Post-traumatic.....	1	3	4	-	2	2	-	-	-	-	-	-	1	5	6
With Epilepsy.....	2	5	7	-	5	5	2	1	3	-	-	-	4	11	15
With Endocrine Disorder.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
With Familial Amaurosis.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
With Tuberos Sclerosis.....	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-
With other Organic Nervous Disease.....	2	1	3	-	2	2	-	-	-	-	-	-	2	3	5
Undifferentiated.....	-	-	-	-	-	-	-	-	-	-	1	1	1	-	1
Other Forms.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b> .....	<b>29</b>	<b>25</b>	<b>54</b>	<b>36</b>	<b>35</b>	<b>71</b>	<b>36</b>	<b>35</b>	<b>71</b>	<b>7</b>	<b>7</b>	<b>14</b>	<b>108</b>	<b>102</b>	<b>210</b>





**ANNUAL REPORT**  
OF THE  
**DEPARTMENT**  
**OF REFORM INSTITUTIONS**  
PROVINCE OF ONTARIO

FOR THE YEAR ENDING 31st MARCH

**1947**

**PART I**  
**REFORMATORIES INDUSTRIAL FARMS**  
**COMMON GAOLS**

PRINTED BY ORDER OF  
THE LEGISLATIVE ASSEMBLY OF ONTARIO  
SESSIONAL PAPER NO. 18, 1948



ONTARIO

TORONTO

Printed and Published by Baptist Johnston  
Printer to the King's Most Excellent Majesty

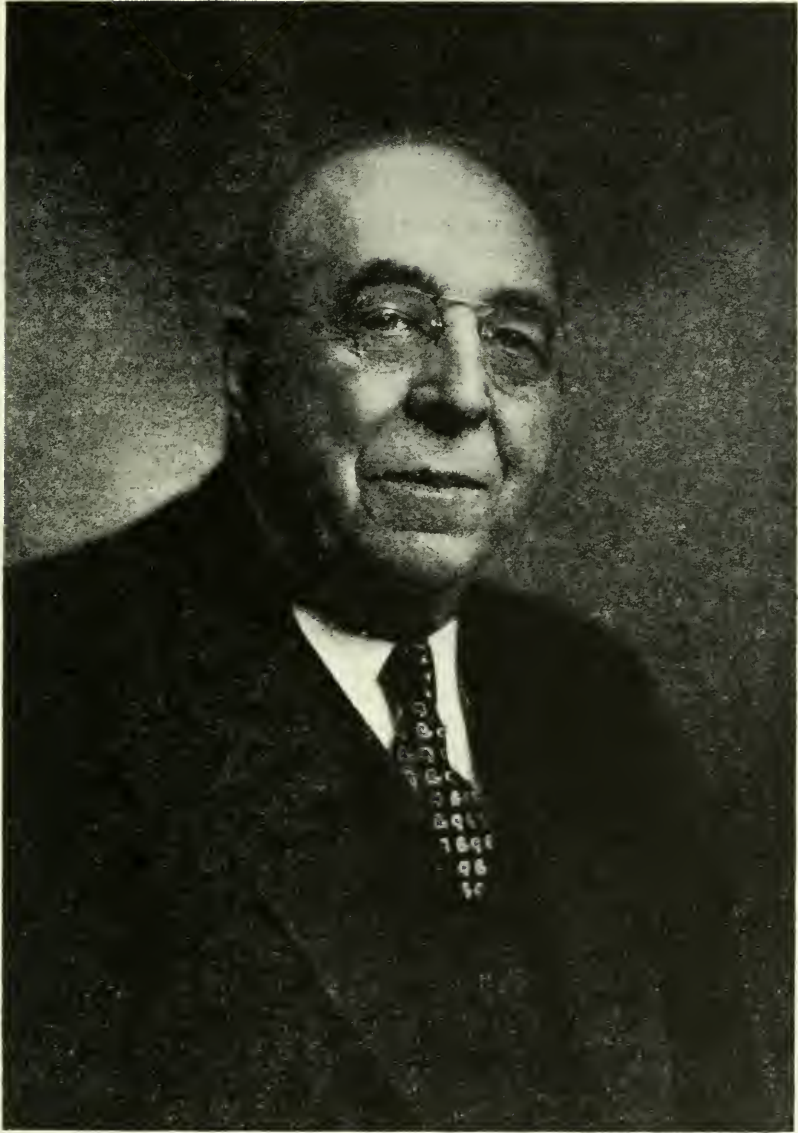
1948

TO THE HONOURABLE RAY LAWSON,  
*Lieutenant-Governor of the Province of Ontario.*

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present the Annual Report upon the Department of Reform Institutions of the Province of Ontario, Part I, dealing with Reformatories, Industrial Farms and Common Gaols for the year ending 31st March, 1947.

Respectfully submitted,  
G. H. DUNBAR,  
*Minister of Reform Institutions.*



**HONOURABLE GEORGE H. DUNBAR**  
Minister  
Department of Reform Institutions



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HONOURABLE G. H. DUNBAR,

*Minister, Department of Reform Institutions.*

SIR:

In 1946, the Legislature enacted that there be a Department of Reform Institutions, and that the Minister presiding over, and having charge of, such Department be responsible for the administration of:—

- (a) The Andrew Mercer Reformatory Act;
- (b) The Extramural Employment of Persons under Sentence Act;
- (c) The Female Patients and Prisoners Protection Act;
- (d) The Female Refuges Act;
- (e) The Gaols Act;
- (f) The Industrial Farms Act;
- (g) The Parole Act, 1946;
- (h) The Public Institutions Inspection Act;
- (i) The Reformatory Act; and
- (j) The Training Schools Act,

and the regulations thereunder and such other Acts and the regulations thereunder as may be assigned to him by the Lieutenant-Governor in Council.

You were appointed Minister of this new Department and, by proclamation, it commenced its responsibilities, effective April 1, 1946.

You, as Provincial Secretary, had been in charge of the Prisons and Reformatories Branch and, therefore, were quite familiar with this work. You had visited all of our more important Institutions, many of the others, and some in the United States. Very soon after your appointment as Minister of the new Department, you went to Europe to visit Prisons and other Institutions there to personally observe and study the most progressive and effective methods of reform or rehabilitation of delinquents and law breakers.

Therefore, when you returned, careful, but speedy decisions were made, and plans were developed accordingly, to make your programme effective and, because of the volume of work involved, it was imperative that our Main Office staff be strengthened by engaging additional experienced specialists. Thus, Mr. A. R. Virgin was appointed Director of the Department. He had much of the experience requisite and, for many years, had been the successful Superintendent of the Ontario Training School for Boys, Bowmanville. Mr. J. E. Cunningham, who already had extensive experience in our Public Service, was appointed Supervisor of Physical Training and Recreation. Mr. Frank Potts, with excellent professional and practical experience, was appointed Chief Psychologist.

It was decided that in developing your programme emphasis must be placed on the following:—

- (1) Considerable extension of the classification of prisoners, with smaller Institutions and for special groups.

- (2) Replacement of the Common Gaols by modern Industrial Farms. This, as it progressively evolved, would help to remedy the classification problem and, at the same time, reduce the size of the inmate population at the Ontario Reformatory, Guelph, and the Industrial Farm, Burwash.
- (3) Rapid expansion of the academic study programmes in the Reformatories and Industrial Farms to the effective limit.
- (4) Inauguration of formal vocational training and expansion of it to the effective limit in conjunction with the present industrial and other work.
- (5) Physical drill for all inmates likely to benefit by it, with an up-to-date recreation programme, physical and mental, for all inmates.
- (6) Permanent employment of specialists to apply the best penological and scientific methods.
- (7) Increased care in the selection of suitable officers and employees. Formal, as well as practical, training of Guards, and special courses for other personnel as conditions require it. Selection of faculty to give the technical and formal training on a broad perspective.
- (8) Systematic and intensive efforts by very carefully selected personnel to rehabilitate ex-prisoners.

It is not difficult for experienced, co-operative persons to pool their knowledge and make plans which will give effective results—if the necessary funds are made available. Obviously, each item in this reform programme must involve considerable expenditure. The amount of funds required year by year depends on prevailing cost conditions and the speed in bringing the programme to reasonable fulfilment. When there are effective results, some of the cost might well be regarded as permanent investment. The cost is partly capital and partly maintenance. Each Institution is, in effect, a community. There are many salaries to be paid and thousands of items to be purchased or produced through the work of the inmates, and there is much production in our Institutions which have industries or are engaged in agriculture.

As the first step toward better classification of prisoners and to provide accommodation for the increasing number of them, additional facilities had to be found. Materials for permanent buildings were scarce or even unobtainable and, therefore, such construction would be necessarily slow. Materials were costly and required for civilian housing. Therefore, temporary accommodation had to be found. Contact was made with the Federal Authorities regarding land and hutments which might be available.

The Military Training Camp at Brampton had been built on land owned by the Province. During the summer of 1946 the Province regained control of that land with the hutments of that Camp. In co-operation with the Department of Public Works, we placed prisoners there from the Ontario Reformatory, Mimico, to recover materials from some of the hutments to use them for urgent purposes elsewhere for other Departments. A considerable portion of the Camp was retained and a very important decision was made, as a result of which, the Ontario Reformatory, Brampton, was established for an advanced programme for a selected group of young prisoners.

Similarly, plans were made respecting the Monteith Institution, but it was not returned to our control until just after the end of the fiscal year.

We had reason to expect that the Airport at Carp would be acquired for our use, but finally we were disappointed, and, at the end of the year, other plans were made for establishing an Industrial Farm in Eastern Ontario.

The very considerable progress made in the Department's plans and programme are given in interesting detail in the attached report of Mr. A. R. Virgin, Director.

Herewith, attached, are the reports of the Senior Inspector, Mr. T. M. Gourlay, the Superintendents of the Reformatories and Industrial Farms, the Board of Parole, the Salvation Army Prison and Police Court Work, and the separate statistics of the Reformatories and Industrial Farms and the Common Gaols for the year which ended March 31, 1947.

Following are the statistics showing the commitments and the number sentenced for each of the years from 1913 to 1947:—

YEAR ENDING SEPTEMBER 30TH	APPROXIMATE POPULATION OF ONTARIO	PERSONS COMMITTED FOR TRIAL	PERSONS SENTENCED TO PRISON
1913	2,767,000	19,250	11,897
1914	2,770,000	22,777	14,801
1915	2,788,000	20,337	12,663
1916	2,728,000	16,100	9,364
1917	2,750,000	12,445	7,867
1918	2,769,000	13,242	7,874
1919	2,821,000	13,096	7,904
1920	2,849,000	14,756	8,643
1921	2,934,000	16,800	9,790
1922	3,101,000	14,800	9,312
1923	3,035,000	13,995	8,036
1924	3,075,000	15,879	8,834
1925	3,115,000	18,023	11,306
1926	3,151,000	18,033	11,371
1927	3,176,000	20,578	13,927
1928	3,241,000	23,786	16,358
1929	3,285,000	25,980	17,626
1930	3,366,000	29,126	21,421
1931	3,432,000	26,358	18,127
1932	3,479,000	25,235	15,804
1933	3,510,000	22,484	14,538
1934	3,540,000	20,916	13,509
YEAR ENDING MARCH 31, 1936	3,690,000	24,053	16,356
1937	3,711,000	27,592	20,618
1938	3,731,000	30,345	23,649
1939	3,750,000	34,914	27,926
1940	3,755,000	33,075	26,543
1941	3,757,000	30,875	25,627
1942	3,760,000	27,225	19,652
1943	3,790,000	25,411	18,551
1944	3,800,000	25,975	19,159
1945	3,815,000	26,299	19,132
1946	4,101,000	29,409	21,614
1947	4,189,000	32,541	25,355

NOTE.—The fiscal year was changed in 1935 to end March 31.

It is therefore seen that during the year the commitments increased from 29,409 to 32,541—an increase of 3,132. Also, there was an increase in the number sentenced from 21,614 to 25,355—an increase of 3,741. Most of this increase occurred in the category Crimes Against Order and Peace, where the increase was 3,359. In the other three main categories—Crimes Against the Person, Crimes Against Property, Crimes Against Public Morals and Decency, the variations in number were comparatively small.

The increased number of sentences was mainly in those of short duration—three months and under.

There was a reduction in the number of indefinite sentences from 1,508 to 1,269.

There have been widespread efforts throughout the Province to reduce delinquency and crime by juveniles and youths. There is evidence that these efforts are, in particular, at least achieving the results desired. The number of juveniles sent to Training Schools dropped from 539 to 451. The number under sixteen years of age committed to Gaols dropped from 211 to 154 and the number committed in the age group sixteen to nineteen years dropped from 4,553 to 3,535.

Increases occurred in the groups twenty years and over.

Commitments of males markedly increased, with a comparatively small increase in the number of females.

However, these statistics do not record the degree of seriousness of any particular crimes. Many crimes may be in the same legal category, but one or more of these crimes, because of their sensational features or viciousness, may attract much public attention, comment, or even consternation and indignation, while most of the other crimes in the same legal category may attract comparatively little notice, except to those persons immediately concerned, but it is generally evident that, whenever a crime is committed, the victim and the perpetrator and the State all lose. Therefore, all gain when crimes and delinquency are prevented and when law breakers, through rehabilitation, become good citizens.

Because of your direction, many forward steps were taken during the year, despite many handicaps due to current conditions. Thus, it has been an exceedingly encouraging year, with substantial progress and the prospect of more progress in the immediate future. We are very grateful to all Departments, officials and others, who have given us much assistance.

Yours sincerely,

C. F. NEELANDS,  
*Deputy Minister.*

HONOURABLE GEORGE H. DUNBAR,

*Minister, Department of Reform Institutions.*

SIR:

Concurrent with the establishment of the Department of Reform Institutions, an overall PLAN was made to serve as a guide in the development of modern procedures in the treatment of persons confined to the various institutions under the control of the Department.

The ONTARIO PLAN includes the basic factors common to any modern system of training in reformatory institutions. Its main objective is to rehabilitate into society, those persons who through asocial behaviour have been committed to terms of imprisonment. These basic factors have been fully outlined in the remarks of the Deputy Minister of this Department and need not be repeated here.

The first step towards putting The Ontario Plan into action was to thoroughly instruct the Superintendents of our adult institutions so that they in turn might be able to plan the many details pertaining to their own particular institutions.

On your instruction a Superintendents' Conference was convened at the Parliament Buildings for a two-day discussion period. In attendance at the Conference were Mr. W. L. McJannet, superintendent of the Industrial Farm at Burwash; Mr. J. R. Elliott, superintendent of the Ontario Reformatory, Mimico; Col. G. H. Basher, superintendent of the Ontario Reformatory, Guelph, and Mr. J. A. Graham, governor of the Carleton County Gaol, Ottawa—(later appointed as superintendent of the Ontario Reformatory, Brampton). In your absence the Deputy Minister addressed the meeting and advised the superintendents that it was your wish that they should do all in their power to speedily introduce and promote an "all-out" system of treatment along the most modern penological lines.

The conference then considered the plans for further classification, scientific studies, education (academic and vocational, eradication of illiteracy, etc.), physical training and recreation, hobbies, after care, staff selection and training. Instructions were issued to set aside a Reception Unit at the Ontario Reformatory, Guelph, to receive prisoners in the 16-21 year old age level so that suitable young prisoners might be selected for training in the new institution at Brampton.

Considerable thought was given to staff selection and motivation; rating standards; selection and training of senior officer material; development of morale (particularly in isolated institutions) by providing proper recreational outlets and community activities.

Official Rules and Regulations pertaining to institutions were reviewed in order to ensure that there was uniformity with respect to those rules. In particular, discussion centred on (a) Transportation provided inmates on

leaving institutions; (b) Gratuities for rehabilitation purposes; (c) Clothing; (d) Weekly inspection of institutions by the physician; (e) Annual Medical and Dental reports; (f) Feeding; (g) Punishments.

Superintendents were again instructed to see that prisoners leaving on parole or discharge were adequately clothed.

On the second day of the conference the superintendents visited and inspected the Military Camp at Brampton which was being equipped for the new experiment in the training of young prisoners.

The afternoon session convened at the Ontario Reformatory, Guelph, for discussion of the plan for the physical training and recreation feature to be introduced early in the following new year. Instructors in physical training were to be graduates of our own training courses and it was your wish that these be relieved of guard duties and devote full time to their specialty.

Training Courses were to be set up at the Ontario Reformatory, Guelph, for men in our guard service. Superintendents were urged to employ additional men to provide relief for those sent on course.

The members of the conference had the privilege of attending the closing banquet of Staff Training Course No. 1, for Physical Training and Recreation, held at the Y.W.C.A., Guelph, during the evening of December 13, 1946.

## THE ONTARIO PLAN AT WORK

The initial classification of prisoners to institutions makes a division according to type, length of sentence and previous record. It is as follows:

### 1. Classification of Prisoners and Specialization of Institutions

- (a) *Ontario Reformatory, Guelph.* Prisoners under age 21, and first offenders over age 21.
- (b) *Burwash Industrial Farm.* Recidivists over age 21 (6 months or longer).
- (c) *Ontario Reformatory, Mimico.* Recidivists—short term (under 6 months).
- (d) *Andrew Mercer Reformatory for Women.* Offenders over age 16 (up to 2 years).
- (e) *Ontario Reformatory, Brampton.* Open institution for treatment of selected young male prisoners, ages 16 to 21 inclusive.

Negotiations are under way for the return of the Industrial Farm at Monteith from the Department of National Defence. This property was used as a Prisoner of War camp during the recent war. It will again receive prisoners from gaols in the eastern part of Northern Ontario and provide useful employment.

### 2. Staff Training

Two six-week courses in Physical Training and Recreation, and Defence methods were carried out. Graduates of these courses are employed full time in their capacity.

Defence Training (Judo) of Staff, has established confidence and has already been effective in general control.

NOTE.—At the Ontario Reformatory, Guelph, inmates receive regular physical training and classes are in progress daily from 8.30 a.m. These classes commenced on January 6, 1947, and have met with an enthusiastic and spontaneous effort on the part of the inmates with a marked uplift in morale and a corresponding reduction in disciplinary problems.

General 4-week Staff Courses are now under way on an experimental basis. Results will be studied and curriculum revised following each course. It is planned to as quickly as possible provide formal training to all members of the guard service.

Guards on course are tested and interviewed by the Chief Psychologist. His report, together with that of the supervisor of training, are now factors, in considering promotion in the service.

General Staff Courses are broad in scope and are outlined as follows:—

### *1. Practical Techniques*

Rules of Conduct, physical training and recreation, personal defence, use of weapons, first aid, practical psychology, practical aspects of abnormal behaviour, officer-inmate relationships, custody, emergencies, keys and locking devices, taking counts of inmates, search of rooms and cells, search of personnel, public relations of the institution officer.

### *2. Essential Background and Related Material:*

(1) PUBLIC SERVICE. The Ontario Civil Service, pension system, Department of Reform Institutions, facilities for mentally ill, epileptic and mentally deficient, public assistance and welfare services, identification.

(2) FIELD OF CRIME AND CRIMINALS. Early conceptions of crime and criminals, development of modern penology, the inmate—statistical picture, juvenile delinquency, prevention of crime and delinquency.

(3) ONTARIO SYSTEM OF POLICE, COURTS AND PROBATION. Police organization and methods, criminal prosecution and court procedure, suspended sentence and probation, jails—their present accommodations and functions.

(4) THE ONTARIO PLAN OF INSTITUTIONAL TREATMENT. Facilities and general programme, juvenile schools, introduction to the institution programme, classification, mental hygiene, medical services, education, recreation, industrial training and productive employment, religious services, feeding and housing, letters and visits, discipline, reports, parole, conditional and supervised release.

(5) PRACTICAL WORK. Defence training, physical training and recreation, drill, firing range, trainee assignment, experience on post.



Below is the distribution of periods, basis for assessment, and rating of trainees:—

Instructional Periods	Hours	
Lectures.....	50	
Defence Training.....	15	
Drill.....	10	
Physical Training and Recreation.....	12	
Firing Range.....	4	
Trainee Assignments.....	16	
	107	hours
<b>Practical Periods</b>		
Shops, etc.....	10	
	10	“
<b>Examinations</b>		
Written.....	3	
Defence Training.....	6	
Drill.....	4	
	13	“
	130	hours

#### Assessment

Written Exam.....	100
Defence Training.....	100
Drill.....	100
Trainee Assignment.....	100
Spot Test.....	50
Note Books.....	50
	500

#### Rating

90%—100%.....	Superior
75%—89%.....	Very Good
65%—74%.....	Good
50%—64%.....	Pass

### 3. Brampton:

In keeping with the policy laid down in the Ontario Plan a forward step was taken on February 3, 1947, with the opening of a new Reformatory at Brampton for the training of young prisoners from 16 to 21 years of age, inclusive. This is an open institution carefully staffed and well equipped to provide training in trades and academic subjects. Boys for Brampton are selected by the Classification Committee which reviews twice monthly all within the above age range who are awaiting disposition in the Reception Wing at Guelph. The school has a capacity of 200.

### 4. Education:

Teaching staffs in adult institutions have made surveys of inmate populations to ascertain the extent of illiteracy problems and courses are already established to provide necessary training. New and well equipped classrooms are being set up at Guelph. Additional teachers will be employed during the coming year to provide for all inmates who are capable of further academic work.

The educational programme will also make provision for the setting up of vocational courses in building and related trades as well as radio, machine shop and auto mechanics.

5. *Scientific:*

To further the scientific study of inmates' needs, a chief psychologist has been employed and has set up techniques which will apply to all our institutions when qualified staff are available.

The Psychologist will provide service to those in need of psychotherapy. He will arrange for the interview and study of discipline cases and the compilation of case histories. Reports will be available for use of the After Care staff in placing of discharged inmates in employment.

6. *After Care:*

Prior to parole or discharge, prisoners are interviewed by Parole officers so that assistance can be readily given in the re-establishment of the prisoners upon return to civil life. Particular attention is being paid to the needs of young prisoners until they once more become adjusted to community life. As this service becomes more widely known it is found that the demands upon the rehabilitation service are increasing.

The treatment programme which you have inaugurated in this Department and which is outlined above, has already attracted the attention amongst provincial governments and organizations interested in penal reform. Some of those governments and organizations have sent representatives to inspect and study techniques and methods already in action in this province. They have expressed amazement that The Ontario Plan is so well established and so broad in scope.

Staff who have participated in the courses of training have in most cases returned to their institutions with renewed interest and enthusiasm for their work. For this, credit must go to the Superintendents who have so wholeheartedly supported The Ontario Plan and to the Supervisor of Physical Training and Recreation under whose leadership the courses have been conducted.

In this report it has been said that your programme has improved inmate morale. This is most marked in the new institution at Brampton where it is not unusual to find boys requesting that the privilege of possible parole be deferred in order to take advantage of longer training in their trade courses.

Yours sincerely,

A. R. VIRGIN,

*Director of Reform Institutions.*

HONOURABLE G. H. DUNBAR,

*Minister of Reform Institutions.*

SIR:

The following is a report of the Inspection Branch, Department of Reform Institutions for the fiscal year ending March 31, 1947,

During the war years inspections were made by me once each year at thirty-five County Gaols, two City Gaols and eight District Gaols. In addition inspections were made of the Ontario Reformatory, Guelph, the Mercer Reformatory, Toronto, the Industrial Farm, Burwash, the Ontario Training School for Boys, Bowmanville, the Ontario Training School for Girls, Cobourg, St. John's Training School for Boys, Toronto, St. Joseph's Training School for Boys, Alfred, St. Mary's Training School for Girls, Downsview, and the Female Refuges in Toronto and Sudbury. All administrative details were under the direction of Mr. C. F. Neelands, Deputy Minister.

Late in 1945 it was decided that more frequent inspections be carried out. Mr. Neelands was relieved by me of administrative details concerning gaols and Mr. Alex. Brown, who for many years was Gaoler at Renfrew County Gaol, Pembroke, Ontario, was appointed as an Inspector. A more intensive programme was instituted for City and County Gaols, including personal record cards and complete files for each employee. Mr. Brown was employed almost entirely in inspections and made his reports to my office.

Mr. Brown was associated with me in this work for a short time during the fiscal year ending March 31, 1946, and was then transferred to the Ontario Reformatory, Guelph, as Assistant to Colonel G. Hedley Basher, the Acting Superintendent. On October 1, 1946, Colonel Basher was appointed as Superintendent and Mr. Brown as Assistant Superintendent at Guelph.

While this change rather disrupted our plans in the office, the appointment of Mr. Brown as an Inspector and later to the Guelph post, were excellent examples of the value in promoting experienced officials.

In the meantime, Mr. Ralph Ayres who had some twenty years experience in Toronto Gaol, was transferred to my office as an Inspector on April 1, 1946, and remained in that capacity for the complete fiscal year. He was later promoted to the position of Superintendent at the Industrial Farm, Monteith, Ontario.

In addition to inspecting, Mr. Ayres was used for the purpose of training new Gaolers and the results were very satisfactory.

All new Gaolers are required to take a course in Toronto Gaol and while they do get a thorough general training, any additional instructions in the gaol to which they are appointed is a decided advantage. Mr. A. J. Graham, now Superintendent at the Ontario Reformatory, Brampton, received his early training in prison work in this manner. This, coupled with his extensive academic training, has produced results of which we are all justly proud.

During the year one hundred and three inspections were made in forty-five City, County and District Gaols. Inspections were also made in each gaol by Officials of the Department of Labour. Inspections were also made at Ontario Reformatory, Guelph, Ontario Reformatory, Mimico, Ontario Reformatory, Brampton, Mereer Reformatory, Toronto, Industrial Farm, Burwash, Ontario, Ontario Training School for Boys, Bowmanville, Ontario, Ontario Training School for Boys, Galt, Ontario, Ontario Training School for Girls, Cobourg, Ontario, St. Mary's Training School for Girls, Downsview, St. John's Training School for Boys, Toronto, St. Joseph's Training School for Boys, Alfred, Ontario, Good Shepherd Refuge, Toronto and Good Shepherd Refuge, Minnow Lake.

A number of Lock-Ups were also inspected by our Inspectors and Officials of the Department of Labour. The locations were as follows: Oakville, Burlington, Georgetown, Brockville, Cornwall and Perth. A number of corrections in construction were recommended and the necessary alterations have been made.

Inspections of penal and reformatory institutions and regulations are made under the authority of Chapter 380, Revised Statutes of Ontario, 1937, The Public Institutions Inspection Act.

When inspections are made at gaols, the Inspector submits a written report to the Department and the following points are noted:

1. Number of prisoners in custody.
2. Number committed for a specific period.
3. Comparative number for the same period during the previous year.
4. Comparative numbers committed and the greatest and least numbers during a four year period.
5. Number of cells and other accommodation provided.
6. General conditions, cleanliness, structural defects, if any, condition of yards and walls, drainage facilities, sanitary equipment, heating and fire fighting equipment, beds, bedding, clothing, type of building construction, laundry facilities, health, classification and employment of prisoners, care and storage of prisoners' clothing and personal effects, bookkeeping and records, quality, quantity and preparation of food, condition of cooking facilities, cutlery and food containers, discipline of prisoners and officers.
7. A sample menu is submitted and also a table showing comparative food costs for all gaols for a four year period.
8. Prisoners are permitted to seek advice and make complaints during inspections.
9. Names, ages, dates of appointments, salaries and perquisites of officers.
10. General recommendations and remarks. Under this heading the Inspector makes recommendations for the general improvement of the gaol, the proper care and custody of the prisoners, working conditions and other matters in the interest of the staff and prisoners, etc.

When inspection reports are reviewed by this office, copies, in the cases of City and County Gaols, are forwarded to the Gaoler, Sheriff and County Officials in each case. The Sheriff, who is in charge of the gaol, is given directions with reference to what is considered necessary. The Municipality is responsible for carrying out recommendations at the request of the Sheriff who, in turn, reports progress to this office.

In District Gaols, which are totally controlled by the Province, copies of reports are forwarded to the Sheriffs and Gaolers and requisitions for any work or materials required are forwarded to the Department of Public Works.

Written reports are submitted to the Department by our Inspectors in a similar manner after inspections are made at Reformatories, Industrial Farms, Training Schools and Refuges. Directives regarding recommendations are then forwarded to the Superintendent and other responsible officials in each case.

Written reports are also submitted to the Department with recommendations made to correct defects, etc., found in Lock-Ups. The local Municipal Authorities are furnished with copies, together with advice and guidance to effectively correct anything found to be unsatisfactory.

Investigations concerning escapes, attempted escapes and administration were conducted during the year, as follows:

County Gaol, Barrie .....	1
“ “ Belleville .....	1
“ “ Brantford .....	1
“ “ Cayuga .....	1
“ “ Chatham .....	1
“ “ Perth .....	1
City “ Toronto .....	3
County “ Walkerton .....	1
“ “ Windsor .....	2
Ontario Reformatory, Brampton .....	1
“ “ Guelph .....	1
“ “ Mimico .....	3
Industrial Farm, Burwash .....	2
St. Joseph's Training School for Boys, Toronto .....	1
St. Mary's Training School for Girls, Downsview .....	1

The number of escapes and attempted escapes was reduced to a considerable degree as compared with former years. This was due, in part, to more intensive supervision by our Inspectors, the increase in staff and to the addition of younger and more active officers. At the close of the war a number of over age temporary officers were gradually replaced by young men who had returned from the Armed Services. In most of our institutions an eight hour day was established and where the low inmate population did not justify this, sufficient additional staff were employed to substantially reduce hours of work.

Cost-of-living bonuses were absorbed into salaries during this period and new basic salaries were set at higher rates for all employees. Annual increases for deserving persons were established and a policy of promotions within the service adopted.

At the close of the fiscal year the numbers employed in institutions totally controlled by the Department, were as follows:

District Gaols.....	103
Ontario Reformatory, Guelph.....	239
“ “ Mimico.....	61
“ “ Brampton.....	29
Mercer Reformatory, Toronto.....	55
Industrial Farm, Burwash.....	196
Ontario Training School for Boys, Bowmanville.....	57
“ “ “ “ Galt.....	43
“ “ “ “ Girls, Cobourg.....	36
TOTAL.....	819

The numbers employed in gaols at the close of the fiscal year were as follows:

City of Toronto Gaol.....	73
City of Hamilton Gaol.....	23
County Gaols.....	287
TOTAL.....	383

For the purpose of uniformity throughout the Province in City and County Gaols, control is exercised by the Province with respect to appointments, dismissals, salaries, etc., of gaol officers. Provision is also made to permit retiring allowances, pensions and compensation and the following information is submitted to clarify these points:

#### *Appointments and Salaries*

Revised Statutes of Ontario, 1937, Chapter 266, Section 388, The Municipal Act, reads as follows and is self-explanatory:

- (1) The Sheriff shall have the care of the county gaol, gaol offices and yard and gaoler's apartments and the appointment of the gaoler, gaol surgeon and other officers of the gaol.
- (2) The appointment and dismissal of the gaoler shall be subject to the approval of the Lieutenant-Governor in Council who shall fix the salaries of every gaoler and gaol officer which shall be paid by the county or city, as the case may be.

#### *Retiring Allowances*

Sections 264 and 265, Chapter 266 The Municipal Act, 1937, were repealed and substituted by Chapter 60, Section 35, Revised Statutes of Ontario 1946, which reads as follows:

- 265-(1) A council may grant an annual retirement allowance, payable weekly, monthly or otherwise during his life to any employee who has been in the service of the corporation for at least twenty years and who while in the service has become incapable through illness or old age of efficiently discharging his duties, provided that the retirement allowance and the amount of any pension payments payable to the employee in any year shall not exceed three-fifths of his average annual salary for the preceding three years of his service, or \$2,500.

- (2) Where an employees' pension plan is in operation, this section shall apply only to employees who were in the employ of the municipality on the day on which this Act comes into force and in any event shall not apply to any employee who enters the service of the municipality after the 1st day of January, 1948.
- (3) In this section "employee" shall have the same meaning as in paragraph 41a of section 404.

#### *Payment by Province*

Municipalities are reimbursed in part for expenses in City and County Gaols under the Administration of Justice Expenses Act, Section 15 (4) "Other Matters", Schedule "C", which reads as follows:

1. All of the following expenses of criminal justice in so far as they relate to prisoners convicted of indictable offences are payable under sub-section 4 of section 15.
  - (1) Fee to gaol surgeon for the examination of each prisoner eligible for removal to or sentenced to a penitentiary or reformatory.
2. Such proportion of the following expenses of criminal justice as bears the same ratio to the whole of such expenses as the number of days of prisoners who have been convicted or committed for trial on indictable offences bears to the whole number of days of prisoners confined upon all charges during the same period; such proportion to be reckoned from the date of conviction or committal for trial.
  - (1) The maintenance of prisoners including but not so as to restrict the generality of the foregoing, the following:
    - (a) The salaries of the gaoler, matron, gaol surgeon, turnkeys, and engineers or firemen of each county gaol, and the retiring allowances granted to any such officials under The Municipal Act.
    - (b) Clothing, food, medicines and similar necessaries for the prisoners and fuel, light and water, and cleaning material for the gaol.

#### *Pensions*

Paragraph 41a of Section 404, The Municipal Act, provides that By-laws may be passed to provide pensions for municipal employees. Under Chapter 39, Section 36, Page 194, Revised Statutes of Ontario 1944, gaol officers may be designated as municipal employees for the purpose of pensions.

#### *Compensation*

Workmen's compensation may be granted to gaol employees, providing that the municipality conforms with the requirements of the Workmen's Compensation Board.

In conclusion and on behalf of myself and members of the Inspection Branch, I wish to express to you, Sir, and to the senior officials of the Department, sincere appreciation for the interest and valuable guidance in the work of this branch. I wish also to express thanks to the Superintendents, Sheriffs, Senior Officers and to other Departments for the co-operation and assistance extended during the year.

THOS. M. GOURLAY,

*Inspector.*

**TABLE No. 1**  
**MOVEMENT OF POPULATION IN ONTARIO REFORMATORIES AND**  
**INDUSTRIAL FARM**

April 1, 1946, to March 31, 1947

	GUELPH	MIMICO	BRAM P- TON	BUR- WASH	MERCER	TOTAL
Remaining in Custody, April 1, 1946.....	890	253	.....	764	138	2,045
Committed during the year.....	1,480	2,111	63	1,049	309	5,012
Readmitted from Penitentiaries.....	.....	.....	.....	1	.....	1
Readmitted from Gaols and other Institutions.....	34	7	.....	19	2	62
Parole Violators Readmitted.....	33	1	.....	15	41	90
Ticket-of-Leave Violators Readmitted	5	.....	.....	1	.....	6
Escapes Returned .....	.....	.....	.....	.....	.....	.....
<b>TOTAL NUMBER IN CUSTODY DURING THE YEAR .....</b>	<b>2,442</b>	<b>2,372</b>	<b>63</b>	<b>1,849</b>	<b>490</b>	<b>7,216</b>
Discharged on Expiration of Sentence	974	1,776	.....	835	215	3,800
Discharged by Ticket-of-Leave.....	130	2	.....	18	2	152
Discharged by Parole Board.....	386	25	.....	94	90	595
Discharged by Payment of Fines.....	20	130	.....	34	14	198
Discharged by Remission of Sentence	55	2	.....	1	.....	58
Discharged by Order-in-Council.....	3	18	.....	.....	.....	21
Discharged by His Excellency the Governor-General.....	.....	1	.....	3	.....	4
Released on Bail.....	.....	2	.....	1	.....	3
Transferred to Hospital.....	12	2	.....	.....	.....	14
Transferred to Hospital for Mentally Ill.....	2	4	.....	8	7	21
Transferred to Other Institutions.....	84	3	4	12	.....	103
Returned to Gaols.....	29	56	.....	28	.....	113
Deported.....	6	1	.....	7	1	15
Released or Transferred for Other Reasons.....	5	.....	.....	41	.....	46
Escaped and Not Recaptured up to March 31st, 1946.....	.....	1	1	1	.....	3
Escapes Incarcerated in Other Institutions.....	.....	.....	.....	.....	.....	.....
Died while in Custody.....	2	1	.....	.....	1	4
<b>TOTAL NUMBER DISCHARGED, RELEASED, DIED, ETC.....</b>	<b>1,708</b>	<b>2,024</b>	<b>5</b>	<b>1,083</b>	<b>332</b>	<b>5,152</b>
<b>NUMBER REMAINING IN CUSTODY, MARCH 31ST, 1947</b>	<b>734</b>	<b>348</b>	<b>58</b>	<b>766</b>	<b>158</b>	<b>2,064</b>



## TABLES No. 2 TO No. 8

THE FOLLOWING TABLES SHOW SOCIAL CONDITIONS; EDUCATIONAL STATUS; HABITS AS TO THE USE OF INTOXICANTS AND DRUGS; NATIONALITIES; OCCUPATIONS AND CRIMINAL HISTORY OF PRISONERS COMMITTED TO ONTARIO REFORMATORIES AND INDUSTRIAL FARM

	GUELPH	MIMICO	BRAMP- TON	BUR- WASH	MERCER	TOTAL
<b>2. Social Conditions</b>						
Married.....	350	883	1	484	159	1,877
Single.....	1,113	1,037	62	520	100	2,832
Widowed.....	13	158	.....	37	31	239
Divorced.....	4	33	.....	8	19	64
<b>3. Educational Status</b>						
Illiterate.....	12	19	.....	46	13	90
Elementary.....	998	1,762	46	687	225	3,718
High School.....	445	324	17	305	71	1,162
College or University.....	25	6	.....	11	.....	42
<b>4. Habits as to Use of Intoxicants</b>						
Abstainers.....	626	78	41	.....	39	784
Temperate.....	410	250	13	333	81	1,087
Intemperate.....	444	1,783	9	716	189	3,141
<b>5. Habits as to Use of Drugs</b>						
Abstainers.....	1,480	2,110	63	977	275	4,905
Addicts.....	.....	1	.....	72	34	107
<b>6. Nationalities</b>						
Canadian-born.....	1,276	1,502	54	881	250	3,963
English.....	49	172	2	30	12	265
Irish.....	15	133	.....	20	8	176
Scotch.....	35	169	1	24	16	245
United States.....	46	26	3	29	12	116
Other Countries.....	59	109	3	65	11	247
<b>7. Criminal History</b>						
First Time.....	729	32	41	34	83	919
Second Time.....	407	40	14	104	61	626
Third Time.....	132	35	5	96	26	294
More than Third Time.....	212	186	3	805	139	1,345
No record available.....	.....	1,818	.....	10	.....	1,828
<b>8. Occupation</b>						
Agricultural.....	100	86	6	46	.....	238
Commercial.....	353	306	20	69	26	774
Domestic.....	.....	211	1	92	177	481
Labourers.....	879	1,217	29	388	.....	2,513
Mechanics.....	124	290	6	446	.....	866
Professional.....	7	1	.....	2	1	11
No occupation.....	17	.....	1	6	105	129

## TABLES No. 9 AND No. 10

LENGTH OF SENTENCES RECEIVED BY PRISONERS COMMITTED IN THE  
ONTARIO REFORMATORIES AND INDUSTRIAL FARM,  
AND THEIR AGES

	GUELPH	MIMICO	BRAMP- TON	BUR- WASH	MERCER	TOTAL
<b>9. Ages of Prisoners</b>						
14-19.....	664	.....	57	5	61	787
20-24.....	362	102	6	233	51	754
25-29.....	97	137	.....	285	30	549
30-34.....	85	172	.....	157	53	467
35-39.....	61	280	.....	122	41	504
40-44.....	57	297	.....	84	30	468
45-49.....	57	346	.....	70	12	485
50-54.....	45	274	.....	51	14	384
55-59.....	19	196	.....	18	13	246
60-64.....	22	174	.....	12	2	210
65-69.....	5	84	.....	6	2	97
70 and over.....	6	49	.....	6	.....	61
<b>10. Length of Sentences</b>						
<b>Definite</b>						
Under 30 Days.....	.....	.....	.....	.....	.....	.....
30 Days and Under 60.....	94	486	.....	.....	7	587
2 Months and Under 3.....	96	752	.....	.....	51	899
3 " " " 4.....	147	605	.....	28	63	843
4 " " " 5.....	56	87	.....	32	12	187
5 " " " 6.....	7	14	.....	16	2	39
6 " " " 9.....	180	53	3	247	37	520
9 " " " 12.....	26	1	1	146	.....	174
12 " " " 15.....	173	1	16	151	7	348
15 " " " 18.....	10	.....	.....	62	.....	72
18 " " " 21.....	32	.....	.....	53	1	86
21 " " " 24.....	32	2	1	38	.....	73
Miscellaneous.....	25	.....	3	5	22	55
<b>Indefinite</b>						
3 Months to 6 Months.....	71	100	4	15	10	200
3 " " 9 ".....	15	.....	.....	7	2	24
3 " " 12 ".....	11	.....	3	3	.....	17
3 " " 18 ".....	.....	.....	.....	.....	.....	.....
3 " " 24 ".....	.....	.....	.....	.....	.....	.....
6 " " 9 ".....	59	6	2	72	5	146
6 " " 12 ".....	40	4	.....	58	5	107
6 " " 18 ".....	12	.....	.....	5	.....	17
6 " " 24 ".....	.....	.....	.....	2	.....	2
9 " " 12 ".....	18	.....	4	23	1	46
9 " " 18 ".....	2	.....	.....	9	.....	11
9 " " 24 ".....	.....	.....	.....	2	.....	2
12 " " 18 ".....	52	.....	2	37	1	92
12 " " 24 ".....	23	.....	3	11	.....	37
18 " " 24 ".....	25	.....	3	12	1	41
24 " " 36 ".....	12	.....	2	8	.....	22
24 " " 48 ".....	5	.....	1	7	.....	13
Miscellaneous.....	280	.....	17	.....	82	379

## TABLES No. 11 TO 13

NUMBER OF PRISONERS WHO ESCAPED AND EVADED CAPTURE; NUMBER WHO ESCAPED AND WERE RECAPTURED; EMPLOYMENT OF PRISONERS, AND NUMBER OF OFFICERS AND EMPLOYEES

	GUELPH	MIMICO	BRAMP- TON	BUR- WASH	MERCER	TOTAL
<b>11. Escapes</b>						
Escaped and Evaded Capture.....	1	1	1	1	.....	4
Escaped and were Recaptured .....	2	6	.....	37	1	46
<b>12. Employment of Prisoners in the Institution During Year (Percentage)</b>						
Clerical.....	1.91	1.	.....	1.	.....	.....
General Maintenance and Construction.....	27.26	30.	50.	40.79	57.78	.....
Sick.....	3.64	2.5	.....	2.	2.27	.....
Bush Operations.....	.....	.....	.....	9.	.....	.....
School.....	3.84	.....	50.	1.21	.....	.....
Industrial .....	23.61	26.50	.....	6.	38.05	.....
Farm and Garden .....	18.05	27.	.....	19.	1.90	.....
Land and Road Improvement.....	15.56	.....	.....	14.	.....	.....
Miscellaneous .....	6.13	13.	.....	7.	.....	.....
<b>13. Number of Officers and Employees on March 31st</b>						
Superintendent .....	2	1	1	2	1	7
Physicians.....	2	1	1	2	1	7
Dentists.....	1	1	1	1	1	5
Veterinary Surgeon.....	.....	.....	.....	.....	.....	.....
Teachers.....	4	.....	4	3	1	12
Bursars or Stewards .....	.....	.....	1	.....	1	2
Storekeepers.....	1	.....	1	1	.....	3
Assistant Storekeepers .....	.....	.....	.....	.....	.....	.....
Accountants, Clerks, Steno- graphers, etc.....	16	5	2	7	4	34
Sergeants (Day).....	4	2	1	1	1	9
Assistant Sergeants (Day).....	2	1	.....	1	.....	4
Sergeants (Night).....	1	1	.....	.....	.....	2
Assistant Sergeants (Night) .....	1	.....	.....	1	.....	2
Guards of Attendants (Day).....	137	28	10	110	28	313
Guards or Attendants (Night) .....	43	12	3	51	3	112
Kitchen and Dining Room Help.....	1	1	2	1	1	6
Nurses.....	.....	1	.....	2	3	6
Farmers, Gardeners and Assistants.....	4	2	.....	3	1	10
Engineers and Other Mechanical Help.....	10	4	.....	5	7	26
All Other Employees.....	10	1	2	5	2	20
<b>TOTALS</b> .....	<b>239</b>	<b>61</b>	<b>29</b>	<b>196</b>	<b>55</b>	<b>580</b>

TABLE No. 14

OFFENCES FOR WHICH PRISONERS WERE COMMITTED DURING THE  
YEAR TO THE ONTARIO REFORMATORIES AND  
INDUSTRIAL FARM

	GUELPH	MIMICO	BRAMP- TON	BUR- WASH	MERCER	TOTAL
<b>A. Crimes Against the Person</b>						
Abduction.....	1			2		3
Abortion.....	1	1			1	3
Assault, Common.....	2	35	1	3		41
Assault, Felonious.....	37			39		76
Attempted Suicide.....		1		2	2	5
Cutting and Wounding and Attempting Same.....	3			1		4
Shooting with Intent.....						
Stabbing.....						
Manslaughter.....	7			3	1	11
Carnal Knowledge.....	12	1		5		18
Incest.....	9				1	10
Rape and Assault with Intent.....	2		1			3
TOTALS.....	74	38	2	55	5	174
<b>B. Crimes Against Property</b>						
Arson and Incendiarism.....	5		3		1	9
Breaking and Entering and Theft..	34	20	4	76	3	137
Breaking and Entering.....		5		58	1	64
Burglary.....				1		1
Housebreaking.....	59			9		68
Robbery.....	51	3	5	21	1	81
Forgery.....	27	5	1	25	4	62
Fraud.....		1		17	1	19
False Pretences.....	43	31		116	12	202
Shopbreaking.....	198		1	5		204
Theft of Cars.....	190	3	16	96	1	306
Taking without Owner's Consent.....	65	10	1	8		84
Larceny or Theft.....	254		8	221	42	525
Receiving Stolen Goods.....	49	13	4	48	3	117
Trespass.....	2	5		5		12
Damage to Property.....						
TOTALS.....	977	96	43	706	69	1,891

TABLE No. 14 (Cont'd)

	GUELPH	MIMICO	BRAMP- TON	BUR- WASH	MERCER	TOTAL
<b>C. Crimes Against Public Morals and Decency</b>						
Bigamy .....	12	2		7	3	24
Indecent Assault .....	52	9		21		82
Indecent Exposure or Other Indecent Act .....	6	10		12		28
Inmates and Frequenters of Houses of Ill-fame .....		1			9	10
Keeping Houses of Ill-fame .....	1	5		25	13	44
Juvenile Delinquency .....	25	12		12	6	55
Perjury .....	2			3		5
Prostitution .....				3	8	11
Seduction .....						
Buggery .....				4		4
Non-support .....						
Breach of Venereal Disease Prevention Act .....						
TOTALS .....	98	39		87	39	263
<b>D. Crimes Against Public Order and Peace</b>						
Breach of Liquor Control Act .....	167	1,549		56	91	1,863
Breach of Excise Act .....		1		5		6
Breach of Narcotic or Drug Act .....	1	1		67	35	104
Breach of By-laws .....		42				42
Carrying Unlawful Weapons .....	23	6	3	9		41
Cruelty to Animals .....						
Drunk and Disorderly .....				2	1	3
Escaping from Constable .....						
Escaping from Prison .....	1			7		8
Gambling .....		3		1		4
Obstructing an Officer .....	2	13		4		19
Unlawful Shooting .....				1		1
Vagrancy .....	22	83		21	26	152
Civil Offences Against Wartime Regulations .....						
Military Offences .....						
TOTALS .....	216	1,698	3	173	153	2,243
<b>E. Other Offences Not Enumerated Above—TOTALS.....</b>						
	115	240	15	28	43	441
<b>GRAND TOTALS—</b>						
TOTALS OF A, B, C, D & E	1,480	2,111	63	1,049	309	5,012

ONTARIO REFORMATORIES AND INDUSTRIAL FARM

COMPARISON OF AVERAGE MAINTENANCE COST PER DAY PER INMATE—For the Fiscal Year Ending March 31, 1946, and March 31, 1947

	ONTARIO REFORMATORY GUELPH		ONTARIO REFORMATORY MIMICO		MERCER REFORMATORY TORONTO		INDUSTRIAL FARM BURWASH	
	1946	1947	1946	1947	1946	1947	1946	1947
Days' Residence of Inmates.....	313,799	308,248	75,700	111,492	57,349	57,352	259,947	274,915
Average Number of Inmates.....	859.7	844.5	207.4	305.	157.4	157.1	712.2	753.2
EXPENDITURE								
Provisions.....	.0373	.0390	.0582	.0574	.0255	.0294	.0824	.1015
Fuel, Light and Water.....	.3136	.3557	.3358	.3312	.2954	.3221	.3814	.4420
Clothing.....	.0852	.1048	.1398	.0799	.1823	.1761	.0822	.1302
Laundry and Cleaning.....	.1014	.1256	.0903	.1093	.0271	.0199	.1348	.1379
Furniture and Furnishings.....	.0388	.0381	.0588	.0548	.0673	.0500	.0410	.0475
Office Expenses.....	.0251	.0334	.0377	.0399	.0178	.0278	.0273	.0186
Farm.....	.0096	.0176	.0183	.0200	.0093	.0210	.0143	.0127
Contingencies.....	.1048	.0741	.2023	.1153	.0083	.0071	.1035	.1207
Salaries.....	.0479	.0782	.0842	.0798	.0483	.0487	.0746	.1034
Repairs to Buildings.....	.7158	1.0732	.7897	.7576	1.1899	1.4950	.7428	1.0750
Industrial Operations.....	.0534	.0787	.1098	.1038	.0253	.0359	.1615	.2368
	1.4877	1.9779	.5542	.3363	2.4349	2.6147	.0709	.1192
TOTAL EXPENDITURE PER CAPITA.....	3.0186	3.9963	2.4791	2.0853	4.3414	4.8777	1.9173	2.5465
REVENUE								
Custodial Revenue.....	.1960	.2178	.2104	.2117	.0853	.1003	.3140	.3549
Perquisites.....	.4576	.0313	.0261	.0126	.1415	.1361	.1300	.1607
Industrial Operations.....	1.3255	1.9620	.3470	.2914	2.6211	2.5471	.1402	.2473
Maintenance Recovery.....	.0219	.0102	.....	.....	.....	.....	.....	.....
TOTAL REVENUE PER CAPITA.....	1.7610	2.2273	.6835	.5157	2.8479	2.7835	.5842	.7629
NET PER CAPITA COST.....	1.2576	1.7690	1.7956	1.5696	1.4935	2.0942	1.3331	1.7836
TOTAL EXPENDITURE								
	MAR. 31, 1946	MAR. 31, 1947	TOTAL REVENUE		TOTAL NO. OF DAYS' STAY			
Ontario Reformatory, Guelph.....	\$947,240.61	\$1,231,834.44	MAR. 31, 1946	MAR. 31, 1947	MAR. 31, 1946	MAR. 31, 1947		
Ontario Reformatory, Mimico.....	187,663.60	232,499.60	\$552,600.66	\$686,542.51	313,799	308,238		
Mercer Reformatory, Toronto.....	249,406.70	279,743.39	51,738.89	57,491.26	75,700	111,492		
Industrial Farm, Burwash.....	498,385.23	700,071.70	163,605.70	159,642.37	259,947	274,915		
			151,869.64	209,735.44	753.2	753.2		
Less Revenue.....	\$1,882,696.14	\$2,444,149.13	\$919,814.89	\$1,113,411.58	706,895	751,997		
	919,814.89	1,113,411.58	AVERAGE COST PER DIEM, 1945-46.....		AVERAGE COST PER DIEM, 1946-47.....			
TOTAL NET EXPENDITURE.....	\$962,881.25	\$1,330,737.55						



## REFORMATORIES

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### THE ONTARIO REFORMATORY, GUELPH

DEAR SIR:

The annual statistical report of the Ontario Reformatory, Guelph, for the year ending 31st March, 1947, is attached.

During the period covered by this report, 1,480 persons were admitted, which is a decrease of 238 as compared with the previous year. This decrease is explained to some extent by the greater capacity provided at, and the corresponding increase in admissions to, the Ontario Reformatory, Mimico. Of the 1,480 admitted during the year,—

729	or	49.2%	were first	offenders—	an increase	of 8%	over 1946
407	“	27.5%	“ second	“ —“	“	“ 1%	
132	“	9. %	“ third	“ —	a decrease	of 3%	
212	“	14.3%	“ fourth	“ —“	“	“ 4%	

1,480 — 100. % of these

881	or	59.5%	were 21 years of age or under,
242	“	16.4%	“ over 21 but under 30 years of age,
260	“	17.6%	“ “ 30 “ “ 50 “ “ “
97	“	6.5%	“ “ 50 years of age.

Since the opening of the new Reformatory at Brampton our daily average population has been gradually decreased by about 125. Apart from the excellent training received by those young offenders who are being transferred to Brampton from this Institution we are benefitting greatly by making full use of the space made available by the transfers. During the past few months it has been possible to allocate three dormitories to academic training. These rooms are spacious and admirably suited as class rooms. They have been thoroughly renovated and provided with modern furniture and all essential requirements. Additional certificated teachers have been employed, additional subjects have been introduced and it is now possible for an inmate to study senior matriculation subjects or to receive professional guidance in special subjects. All inmates are given educational and psychological tests shortly after their arrival. In all cases where it is found that the individual would derive some benefit from further study he is encouraged to attend class and enter the grade for which he is considered to be best prepared. School classes are conducted throughout all week-day mornings and afternoons, except Saturday afternoons. The policy adopted provides for one-half day academic training and one-half day at vocational training or other suitable employment—depending on the aptitude of the individual. In this way, the number of those given these two forms of training is doubled and as there are few holidays and because there are regular periods for evening study the academic training keeps well abreast of the public school. This claim is justified by the fact that eleven of those who commenced their studies sufficiently early in the term



passed their entrance examinations in June—seven with honours. This by no means represents the total achievement of the school but as the present policy was not put into effect until the school year was well advanced it is not possible to give an exact appraisal of the benefits and progress made by numerous others. It will, perhaps, be of interest to those who read this report, to know that several youths have learned to read and write during the year, others have advanced from one grade to the next and that, with remarkably few exceptions, all have made excellent progress. Senior matriculation subjects have been studied by some who intend to continue their education after release. A number of courses of study have been taken by correspondence with Queen's University. These courses include—first and second year English and first and second year philosophy. In addition to the day classes, our evening classes have continued. At these classes stenography and typewriting, book-keeping and accounting, cleaning and pressing, electricity and barbering are taught.

With the opening of Brampton a Classification Committee was set up, at this Institution, for the purpose of selecting the most suitable young inmates for transfer and training to that newly formed Reformatory. The committee consists of a psychiatrist, a psychologist and the Superintendents of Brampton, Bowmanville and Guelph. The committee sits at intervals of about three weeks and studies each individual together with the case history which has been compiled from information obtained from such reliable sources as the convicting magistrate or judge, probation officers, social welfare workers, his schoolteacher, the Minister of his Church, relatives, doctors or others who are in a position to give valuable assistance to the committee by their knowledge of the subject. During the time this information is being compiled the educational tests and psychological reports are prepared and these also are presented for the benefit of the committee.

From the time of their arrival until they appear before the committee all admissions are accommodated in a wing of the Institution known as the Reception Wing. Here they are specially studied by the Assistant Superintendent and a selected officer is placed in charge. Each of these officials file a report with the committee. Those in the Reception Wing are treated as a separate unit and do not come in contact with the Reformatory population. They are employed as a group.

Those who are assigned by the committee to Guelph are promptly taken from the Reception Wing and interviewed by our employment committee before being allocated to employment. This committee is set up within the Institution and is comprised of the Assistant Superintendent, the Chief Psychologist and the Senior Custodial Officer with the School Principal in attendance and the Employment Liaison Officer acting as secretary. All initial and subsequent changes of employment are dealt with by this committee.

A staff training school was established here by the Department and the first course commenced in November. This course specialized in the training of officers to instruct in physical and recreational training. Consequently, on 2nd January, we were able to commence an extensive programme which includes calisthenics, boxing, ice-hockey, volleyball, floor hockey and basketball. As soon as the weather permits, this programme will be expanded to include

baseball, rugby and many other outdoor games. A full scale sports field is available and it is expected that this will be in daily use throughout the summer months. In this way we hope to foster self-confidence, team spirit and co-operation, a greater respect for rules, self-discipline and a sense of fairness. These important qualities must be developed if we are to succeed in properly preparing these young men for return to their homes and society. Also, there is, perhaps, no better time or place to look for qualities and imperfections than on the playing field.

Following the initial course for Physical Training Instructors, a course was held for the training of custodial officers and since that time courses have been held regularly. The subjects covered by these courses include routine procedure, staff duties, practical aspects of abnormal behaviour, psychology, development of modern penology, identification, problem situations, rehabilitation and after care, organization of the department and kindred organizations, rules of conduct, prevention of crime and delinquency and many others. It is very pleasing, indeed, to realize that this staff training has actually materialized. We look forward to the results of this training with confidence.

Vocational training has been undertaken on a fairly large scale and we now have an increased number of trade-training shops in charge of experienced trade-instructors. Our machine shop has been re-arranged to accommodate a class of fifteen. The same applies to the sheet metal shop. A new shop has been set up for the teaching of motor mechanics to another fifteen and plans are well underway to establish courses in plumbing, bricklaying, painting, carpentry and barbering. These trades added to those which have been carried on for a number of years will give us a total of thirteen trades in all. Production where possible as well as training will be kept in mind at all times. The results of these new courses so far are beyond our expectations. The progress made by some has been almost incredible and it has been necessary to change only a few from the trade initially selected.

As soon as the proposed trades have been established it is the intention to provide short courses on the elementary subjects in agriculture, horticulture, dairying, horse-management and hog raising. These courses to consist of lectures, demonstrations and practical training.

A complete medical report has been compiled by the Medical Officer and is attached as a part of this report.

All industrial departments were in operation throughout the year. The total industrial revenue was \$604,756.45, which is an increase of \$124,133.51 over last year. All of the industrial departments showed an increase, the abattoir and cannery alone had increases of \$69,501.75 and \$29,097.49 respectively.

On the farm, our field crops were not up to average due to poor seasonal conditions although our farm recoveries, amounting to \$65,737.78 shows an increase of \$1,688.03 over the previous year. This increase is due to an increase in the quantity of live stock sold. There were 431 hogs and 14 sows sold, realizing a return of \$15,099.28. Our milk production was 910,914 pounds with a value of \$22,280.47, a slight increase over the previous year. Garden crops amounted to 1,227,554 pounds with a value of \$13,540.84. Field crops had a monetary value of \$10,504.51, a decrease of \$1,683.38 from last year.

We wish to express our thanks to all those who have given their services gratuitously in conducting religious services, providing entertainment in the form of concerts or friendly competition in sports and contributing literature.

We wish also to express our appreciation of the assistance and understanding extended by the Honourable Mr. Dunbar, yourself, the Director, and all those of the Department who have worked with us during the year.

Yours very truly,

G. HEDLEY BASHER,  
*Superintendent.*

**MEDICAL REPORT—Year Ending March 31st, 1947**

Physical Examination New Men	Mental Examinations	Number on Sick Parade	Number admitted to Hospital Ward	Number of days in Hospital	Average Number of Days Lost
1,540	88	3,718	628	5,417	8.62
No. of Blood Tests Taken	No. found to have V.D.S.	Percentage of V.D.S.	No. found to have V.D.G.	Percentage of V.D.G.	
1,540	53	3.44%	12	.779%	

74 Inmates received treatment for syphilis during the fiscal year.

53 " were admitted during the fiscal year.

21 " were receiving treatment when fiscal year commenced.

61 " had positive blood tests.

11 " had doubtful blood tests.

2 " had negative blood tests, but a positive history of syphilis.

26 of the 74 Inmates gave permission and were given lumbar punctures.

20 had normal spinal fluid reports.

6 had positive spinal fluid reports, one of these was mentally ill and was sent to a Mental Hospital.

10 of the 74 Inmates had their blood reports reversed to negative during their stay here.

24 had improved serology.

40 of the 74 Inmates showed no reverse in their serology.

12 Inmates were admitted during the fiscal year suffering with gonorrhoea. These were readily cured with penicillin. The small number of gonorrhoeal cases admitted during the fiscal year is probably due to the universal use of penicillin which invariably effects a cure in a very short time.

**Inmates Transferred to Outside Hospitals**

Abcessed Spine.....	1	Fractured Mandible.....	1
Appendectomy.....	3	Fractured R. Clavicle.....	1
Intestinal Obstruction.....	3	Multiple Fractures R. Femur	
Fractured Ankle.....	1	etc.....	1
Tonsillectomy.....	14	Severe Abdominal Injuries.....	1 (died)
TOTAL 26.		25 Recoveries; 1 died.	

**Inmates Transferred to Mental Hospitals**

Epilepsy.....	1	General Paresis.....	1
Schizophrenia.....	4	TOTAL 6.	

**Treatment Given Tuberculosis Patients**

Admittances to O.R. Guelph T.B. Wing	Trans. to other Instns.	Transfers to Sanatoria	Returned from Sanatoria	Discharged to Home	Pneumothorax Treatments
12	1	5	1	5	2

December 23rd, 1946. T.B. Survey. Number of Inmates, 798. Pulmonary T.B. 2, other diseases and abnormalities accentuated lung markings 2.

**Dental Treatment**

Number of Patients at Clinic.....	899	Fillings.....	284
Examinations only.....	144	Pyorrhoea Treatments.....	6
Patients, Private Charge.....	2	Replacements.....	4
Patients, X-rayed.....	1	Prophylaxis.....	2
Number of Patients taken.....	828	Other Treatments.....	58
Extractions.....	386	Dentures repaired.....	18
Local Anaesthetics.....	345	Other Work.....	44

**X-Ray Service**

Barium Series.....	4	Incisor Area.....	1
Calcaneus.....	1	Lumbar Area.....	1
Clavicle.....	1	Mastoid.....	1
Chest.....	46	Mandibular.....	2
Face.....	6	Pelvis.....	1
Feet.....	15	Shoulder.....	4
Femur.....	3	Sinus.....	1
G. I. Series.....	4	Tibia.....	1
Hands.....	17	Thigh.....	2
Humerus.....	1		
		TOTAL.....	<u>112</u>

## THE ONTARIO REFORMATORY, BRAMPTON

I have the honour to submit to you the first report of the Ontario Reformatory, Brampton, for the year ending March 31, 1947.

The Ontario Reformatory, Brampton, was officially opened on Monday, February 3, 1947, by the Honourable George H. Dunbar, Minister of Reform Institutions. Accompanying Mr. Dunbar were Mr. C. F. Neelands, Deputy Minister, and Mr. A. R. Virgin, Director. Also present was His Worship Mayor Beek of the Town of Brampton.

The Institution is located on a three hundred acre farm, which was formerly operated by the Department of Health. The buildings, which are in use as shop and living quarters for the students, were built during the war years and used as Basic Training centre. The Administration Building is a beautiful brick edifice built in 1937 as the Administration Building for an Ontario Hospital but used during the war years as a Detention Barracks.

These buildings had been vacant for many months but were speedily put back in use and converted into shops and dormitories.

On the opening day thirty-seven boys, ranging in age from eighteen to twenty years were admitted, being transferred from the Ontario Reformatory, Guelph. These youthful offenders are selected for trade training at Brampton by a Committee known as the Selection Board, which is made up of the Superintendent of the Ontario Reformatory, Guelph, the Superintendent of the Ontario Training School for Boys, Bowmanville, the Superintendent of the Ontario Reformatory, Brampton, the Psychiatrist of the Ontario Reformatory, Guelph, and the Psychologist of the Ontario Reformatory, Guelph.

On the opening day three trade shops had been set up, namely Welding, Radio, and Sheet Metal. The second day after arrival the boys were interviewed and registered in courses to their own liking.

Welding Course.....	6	Radio Course.....	6
Sheet Metal Course.....	6	Cooking Course.....	4

These twenty-two students constituted Course No. 1.

On February 24, the remainder of the thirty-seven boys were registered in Course No. 2.

Welding Course.....	7	Radio Course.....	3
Sheet Metal Course.....	5		

The Machine Shop opened for classes on March 24, with six students. The equipment used in these shops came from the Training and Re-Establishment Institute, London, Ontario.

By the end of March sixty-three boys had been admitted to the Institution. The registration in each course was as follows.

Welding Course.....	17	Cooking.....	10
Sheet Metal.....	12	Machine Shop.....	8
Radio.....	11		

Four of the boys had been returned to the Ontario Reformatory, Guelph, as being unsuitable for trade training and one boy had escaped custody.

The following table shows the court record of these sixty-three boys.

Number convicted for the first time.....	41
Number convicted for the second time.....	14
Number convicted for the third time.....	5
Number convicted more than third time.....	3

The educational status of these sixty-three boys is shown in the following table:

Illiterate.....	Nil	College or University.....	Nil
Elementary.....	46		
High School.....	17	TOTAL.....	63

Habits as to use of Intoxicants:

Abstainers.....	41	Intemperate.....	9
Temperate.....	13		
		TOTAL.....	63

Table of Occupations:

Agricultural.....	6	Mechanics.....	6
Commercial.....	20	No Occupation.....	1
Domestic.....	1		
Labourers.....	29	TOTAL.....	63

The offences for which these boys were committed is quite significant:

Assault, Common.....	1	Theft of Cars.....	16
Rape and Assault with Intent.....	1	Taking Car without owner's consent.....	1
House-breaking and Theft.....	3	Larceny or Theft.....	8
Breaking and Entering and Theft.....	4	Receiving Stolen Goods.....	4
Shopbreaking and Theft.....	9	Housebreaking with Intent.....	2
Shopbreaking with Intent.....	2	Carrying Unlawful Weapons.....	3
Robbery.....	5	Unlawful Possession of Gold Ore.....	1
Forgery.....	1	Dangerous Driving.....	1
Shopbreaking.....	1		
		TOTAL.....	63

It is noted that sixteen of the sixty-three or 25.39% were committed for Car Theft.

The dental work carried out on students of the Institution is as follows:

Patients taken to clinic.....	28	Prophylaxis.....	16
Extractions.....	40	Other Treatments.....	4
Local Anaesthetics.....	14	Dentures Repaired.....	2
Fillings.....	40	Other Work.....	1
Pyorrhoea Treatments.....	2		

A part-time physician is employed. In this short period of time there were no serious cases of illness. There were fifty-four boys reported on sick parade and were treated, all for minor ailments.

Religious services are held weekly by the local clergy. Service for those of the Roman Catholic faith are held each Saturday morning at 7.30 a.m.; for those of the Protestant faith service is held on Sunday afternoon. The work of the clergy is gratefully acknowledged.

Two fundamental facts form the foundations upon which this Institution rests. They are (1) Society is built upon integrity and (2) Responsibility is a trust. An earnest endeavour is being made to emplant these two ideas in the minds of these young men. These must be firmly established before these youthful offenders are ready to be set free on the Highway of Life.

In concluding this report I wish to express appreciation for the assistance and co-operation received from the staff, who worked under trying conditions to make the opening of this Institution a success. May I also extend my thanks to the Honourable Mr. Dunbar, yourself, and all members of your Department, who have so kindly given counsel at all times.

J. A. GRAHAM,  
*Superintendent.*

## INDUSTRIAL FARM, BURWASH

DEAR SIR:

Attached is the statistical report of the Industrial Farm, Burwash, for the year ending March 31, 1947.

Admissions during the year, 1,049. The number discharged during the year, 1,083. Inmates remaining in custody on March 31, 1947, 766. 38 inmates escaped custody. 37 were recaptured. The average daily population during the year was 753.19.

INMATES	CONVICTIONS	PERCENT
234	.....1 to 3	22.3
582	.....4 to 10	55.49
164	.....11 to 20	15.73
58	.....21 and over	5.53
10	No information regarding previous convictions	.95
		100.00%

### Medical:

Attendance at daily sick parade, 7,078. Dressings, 2,001. Inoculations, 2,865. Vaccinations, 1,085. X-ray (Chest), 1,237. X-ray (others), 248. 10 minor operations. 68 major operations. Medical and surgical statistics attached.

During the period ending March 31, 1947, two new physicians, Dr. Hassard and Dr. Reeds, were appointed. The two part-time nurses were replaced by two registered graduate nurses who are employed full time.

In addition, on the hospital staff are two guards who attend the dispensary, take X-ray, etc.

Shortly after arrival all new inmates are given a physical examination, including blood test, chest X-ray and typhoid inoculation is instituted; all new arrivals are vaccinated and, if indicated, other parts are X-rayed. Following this examination, the physician makes his recommendations *re* the inmate's capacity for work. This opinion is of course subject to change in the light of experience and further examination. This Institution is a farm, including logging, and there is a fair amount of heavy work to be done.

The health of the inmates has been reasonably good, with no contagious diseases except a few cases of scabies, about six of fungus infections of feet, and four of trench mouth. Cases of the latter two are isolated during treatment. An extensive epidemic of colds occurred during the month of March.

There is a small bright hospital with eighteen beds, including two private rooms for staff use. Included in this unit are rooms for dispensary, physicians' office, dressing room, operating room, sterilizing room, diet kitchen, store room, X-ray unit and nurses' office.

A well qualified surgeon Dr. R. M. Mitchell from Sudbury, is on call for emergencies and also does elective surgery (approved by the Superintendent).

He visits the hospital three or four times each month, as required, and is also available as consultant on difficult surgical diagnosis.

Anti-syphilitic treatment is given twice weekly, with an average attendance of twenty to thirty. Mapharsen and bismuth subsalicylate are the drugs approved by the Department of Health.

Penicillin is given occasionally to obstinate recurrences of gonorrhoea, and is also available for other infections, where indicated.

Inmates' meals are observed by physician three or four times per week, and are well prepared. The dishes are clean.

The dormitories, wash rooms, etc., are visited weekly and are usually tidy and clean.

Samples of water from each camp are sent monthly for test and have been uniformly excellent.

During the year the Institution was visited by the Venereal Disease Control Office and also by Dr. Lewis of the Department of Psychiatry.

As a result of chest X-ray findings four men were transferred to sanatoria and two others to other institutions for observation.

Six mental cases were sent to Ontario Hospitals. Two epileptics were sent away for treatment, of whom one has been returned, with no improvement.

The dispensary is well stocked with standard drugs, with a reasonable supply of new remedies. The operating room is equipped for ordinary surgery; nothing of a more major character than herniotomies and appendectomies is attempted. Attached is a summary showing activities of this Department.

#### *Staff—Personnel and Public Health:*

New apartments are under construction. From a medical point of view, it is felt that small houses or cottages would be more suitable.

Garbage disposal, sewage disposal, milk and water supply are satisfactory.

Most residents depend on the store for their supplies. From a public health standpoint it is recommended that brown bread and sun-wheat biscuits be made available. There are about one hundred pre-school and school age children in the village. Throughout the winter, of vegetables on sale there were always potatoes and usually turnips, but no other vegetable. It is felt that these children should have access to a greater variety of this type of food, in this bountiful province.

The health of the village population has been reasonably good. There was an extensive epidemic of mild measles and four cases of mild scarlet fever (one family). No other contagious diseases were encountered, except three children with stomatitis.

Seven confinements were attended by the staff physicians, of which three were admitted to hospital for various reasons. Details of surgery on staff and personnel may be found in attached summary.



All children in Burwash Village, Estaire and Concession One were offered vaccination against smallpox, diphtheria toxoid and Pertussis Vaccine. With the exception of Concession One Village, almost 100% of them were brought up to date in these protective measures.

All the pre-school and school children in Burwash were offered X-ray chest and complete physical examination, 92 appeared for examination (a few were too young to sit still for X-ray).

Chest X-ray was made available to all adult female personnel and thirty-three presented themselves. No active cases were discovered in children or adult personnel.

#### *Dental Report:*

Examinations.....	1,037	Dentures supplied.....	82
Extractions.....	829	Dentures repaired.....	81
Fillings.....	376	Denture impressions.....	184
Treatments.....	158		

#### *Education:*

##### **Summary of Activities During the Period November 1st, 1946, to March 31st, 1947**

Classes for illiterates and near-illiterates were commenced on November 12, 1946.

The procedure has been to divide each day—one-half for academic studies and one-half for vocational training.

Illiterates enrolled during period.....	20
Near Illiterates enrolled.....	44
Actual school-room attendance (half days).....	2,739
Average age of pupils.....	26.27

A number of inmates, not attending school, have been engaged in home study of a variety of subjects. These have been given the necessary textbooks, materials, direction and all possible supervision.

#### *Correspondence Courses:*

A number of inmates who have served with the Armed Forces have been engaged in Canadian Legion Educational Correspondence Courses.

Total taking C.L.E.C. Courses.....	82
------------------------------------	----

The Ontario Department of Education has also supplied Correspondence Courses in subjects to Grade 10.

Total taking Department of Education Courses.....	7
Total number of inmates taking Correspondence Courses.....	89
Total engaged upon any kind of supervised academic studies.....	175

The progress of the schoolroom pupils may, in general, be considered satisfactory, and in some cases remarkable.

Individual progress is, with a few exceptions, in direct ratio to the pupil's desire to learn.

The exceptions, four in number, appear to lack the capacity for learning, in spite of diligent efforts.

With an average of attendance 85 half days:

- 15 pupils have advanced 4 grades in reading, writing and arithmetic.
- 20 pupils have advanced 3 grades in reading and writing.
- 21 pupils advanced 2 grades.
- 4 pupils advanced up to 1 grade.
- 4 pupils advanced slightly.

Of the inmates engaged upon C.L.E.S. Correspondence Courses:

Number who have completed Reading Courses.....	8
Number who have successfully written Interim Term Examinations.....	13
Number who have received Achievement Certificates for completed courses (2 in Mathematics and 1 in Mining).....	3

Approximately 15% of the inmates who undertook Correspondence Courses failed to carry them on successfully; the remainder have been progressing satisfactorily.

J. B. McQUEEN-DESMOND.

**INMATES EMPLOYED AT VARIOUS TRADES AND OCCUPATIONS**

Logging Sawmill and Factory.....	20	Fuel wood cutting and clearing land.....	97
Laundry.....	28	Painters.....	7
Engineers.....	38	Blacksmiths.....	7
Tailor Shop.....	30	Plumbers.....	6
Construction and Repairs.....	30	Kitchen.....	66
Cattlemen.....	30	Cleaners, Barbers and Orderlies.....	78
Farming, Gardening, Greenhouse, Lawns:		Quarry and Roads.....	22
Teamsters.....	50	Stores and Clerks.....	9
Garden.....	59		
Farming, General.....	30		

It is regretted that I have to report the death of one of our trusted Officers, Guard Carl Fortune. His passing was keenly felt by inmates and Staff alike. Our sincere sympathy is extended to Mrs. Fortune and the family.

*Farming and Land Clearing:*

230 acres of new land broken and ploughed for permanent pasture.

A number of cement tile culverts replaced the old wooden type culverts.

New range of 125 acres fenced.

We had the misfortune to lose our dairy barn by fire with no loss of livestock. This barn has been rebuilt on the old foundation.

Marked improvement has been noted in all farm livestock.

Hay, grain and root crops, fair.

Farm returns, \$96,760.85.

Revenue derived from the manufacture of Institution clothing in the Tailor Shop, \$16,293.90.

*Lumber and Sawmill Operations:*

Saw logs delivered to the Mill, 22,489.

Rough and dressed lumber sold, 1,100,205 ft. B.M.

Revenue, \$22,807.23.

Reforestation was continued with the planting of 50,000 trees; 25,000 Red Pine and 25,000 White Spruce.

A group of 40 inmates were employed on railroad maintenance work for two months.

A programme of recreation was carried through during the year in the form of baseball, picture shows, concerts; also track and field sports. Our new sports field will be ready for use when the 1947 season opens.

The building operations were greatly curtailed owing to lack of material. Four 4-apartment buildings have been completed and are occupied; one 4-apartment building will be ready for occupancy early this summer.

I wish to express my sincere appreciation for the work carried on by the various spiritual advisers who conduct services for the inmates and personnel.

The assistance and encouragement given by the Hon. G. H. Dunbar, yourself and the members of your staff is greatly appreciated by all officers.

Yours very truly,

W. L. McJANNET,  
*Superintendent.*

## ONTARIO REFORMATORY, MIMICO

I have the honour to submit the annual Statistical Report for the Ontario Reformatory, Mimico, Ontario.

During the fiscal year ending March 31, 1947, a total of 2,111 persons were committed to this Institution, an increase of 927 over the year ending March 31, 1946. Of the Commitments:

1,549	or	73.33%	were for	Breaches of Liquor Control Act.
199	"	9.47%	" "	Petty Theft.
363	"	17.20%	" "	Offences of Minor Nature.
2,111		100.00%		

### Duration of Sentences:

1,238	or	58.65%	3 months or Less.
806	"	38.18%	3 months to 6 months.
67	"	3.17%	6 months to 18 months.
2,111		100.00%	

Most of the short-term admissions were chronic alcoholics, some having been admitted from three to six times during the year so that the figure of 2,111 admissions does not represent that many individuals. The large increase in admissions is partly due to an effort to relieve overcrowding at the Toronto Gaol.

The number of inmates remaining in custody on March 31, 1946, was 253. There were 7 persons readmitted from gaols and other institutions and 1 parole violator readmitted making a grand total in custody during the year of 2,372. Of the 7 inmates who escaped custody, 6 have been recaptured.

### *Medical:*

The health of the inmates has been fairly good. There were no serious accidents or epidemics. One inmate died of coronary thrombosis. Many are found to be suffering from the effects of long periods of over indulgence in alcohol and because of this, lack ambition. It may take days or even weeks for these men to recover their appetites and to be fit for participation in a work programme. The attending physician at this Institution was Dr. W. B. Snider. The following is a summary of medical treatments, etc., for the year:

Attendance at sick parades.....	29,172	Sputum examinations.....	24
X-Ray Examinations—chest....	23	Admissions to hospitals.....	17
Other X-Ray Examinations.....	51		

Wassermann Tests were performed on all those committed.

### *Dental:*

The dental requirements of the inmates were taken care of by Dr. E. B. Sisley of the Ontario Hospital, New Toronto, until March, 1947, when our dental clinic was re-established on a part-time basis under the direction of Dr. P. Pearan. The following is a summary of dental treatments, etc., for the year:

No. of Examinations.....	132
No. of Extractions.....	76
No. of Dentures Supplied.....	0

Some of the Army buildings constructed to house German Prisoners of War have been taken over by this Institution. Although this arrangement makes it possible to accept some of the prisoners from the Toronto Gaol, and relieve to some extent the overcrowding there, it is not entirely satisfactory. Accommodation is taxed to the limit and with the men sleeping in dormitories, there is little possibility of classifying prisoners according to age and type.

It is recommended that in instituting its new programme of training, instruction, education and recreation, the Government should consider the erection of permanent buildings to prevent the aforementioned overcrowding. Also great stress should be placed on the construction of such buildings that proper segregation of prisoners may be carried out. Some alteration in the present main building could be effected to advantage.

In August, 1946, the Military Camp on the grounds of the proposed Ontario Hospital, Brampton, was returned to the Department of Public Works. Under the supervision of officials of the Department of Public Works, a party of inmates from this Institution in charge of Sergeant A. A. Kennedy was located in the Military Hospital Building to raze temporary structures, salvage valuable building materials in short supply and restore the grounds. This worked very well and much valuable material was salvaged and shipped. However, later in the year work was stopped and the remaining buildings were altered to provide a nucleus for the Ontario Reformatory, Brampton. A party of 80 inmates are at present engaged in removing foundations, clearing debris and restoring the grounds.

A shoe repair shop has recently been opened. Under a competent instructor valuable instruction in repairing boots, rubbers and leather mitts is being given. Later, with the addition of some machinery, it is hoped to make slippers and possibly later on work boots. A number of older inmates unable to do heavy work are doing some useful work in this shop.

Farm crops were very good. The month of July was hot and dry but good early growth withstood this. From our small farm the following production is interesting:

	AMOUNTS	VALUES
Grains.....	1,580 Bus.....	\$1,141.00
Hay and Straw.....	150 Tons.....	1,310.00
Roots.....	110 ".....	660.00
Vegetables.....	85 ".....	1,770.00
Potatoes.....	83 ".....	1,660.00
Ensilage.....	35 ".....	175.00
TOTALS.....		\$6,716.00 Institution Prices

Farm products sold, supplied to the Kitchen and other Institutions:

	AMOUNT	VALUES
Milk.....	269,592 lb.....	\$8,671.74 Market Prices
Eggs.....	6,892 doz.....	2,683.65 } Institution Prices
Chickens @ 35c. lb.....	797 only.....	1,192.36 }
Hens @ 25c. lb.....		
Hogs.....	258 only.....	8,788.13 Market Prices
Vegetables.....	141 Tons.....	932.21 Institution Prices
TOTALS.....		\$22,268.09

Our Holstein Herd averaging 40 in number, under the care and supervision of Mr. Gordon Scott, our farm superintendent, is showing much promise.

Last year our own bred and raised cow, Ormico Reta Roberts, won the world's championship for milk production, 35,207 lbs., any breed and any number of times daily milking for a 365-day lactation period, and is again on the way to a fine record.

Due to rebuilding operations and numerous breakdowns in our mill, industrial production for the year was low:

	AMOUNT	PER M	VALUE	
Common Brick	755,000	\$ 17.00	\$12,835.00	
Tapestry	445,000	25.00	11,125.00	
Floor and Wall Tile	17,000	40.00	680.00	
Structural Tile	60,000	4" x 12" x 12"	82.00	4,920.00
	25,000	3" x 12" x 12"	75.00	1,875.00
	1,000	8" x 12" x 12"	150.00	150.00
Agricultural Tile	22,000	4"	22.00	484.00
	4,000	6"	45.00	180.00
TOTAL			\$32,249.00	

It is gratifying to have the work progressing on the new mill. During the winter much preliminary work such as excavations and laying foundations was performed. If no undue delay is encountered in securing materials, good progress should be made during the summer.

We are very grateful to the Salvation Army and Rev. Father McGrath, who, during the year provided religious services and spiritual guidance for our inmates, and the Salvation Army for furnishing movies and entertainment.

In conclusion, I wish to thank the Honourable Mr. Dunbar, yourself and staff for kindly counsel and consideration during the past year.

Yours sincerely,

J. R. ELLIOTT,

*Superintendent.*

## MERCER REFORMATORY, TORONTO

DEAR SIR:

I have the honour to submit the report of the Andrew Mercer Reformatory for the fiscal year ending March 31, 1947.

From the attached statistical report a summary of the numbers committed and released is given as follows:

Committed during the year.....	309
Discharged on expiration of sentence..	215
"    by ticket-of-leave.....	2
"    " Parole Board.....	90
"    " payment of fines.....	14
Transferred to Hospitals for Mentally Ill..	7
"    " Sanatoria.....	2
Deported.....	1
Died.....	1

On admission to the institution each inmate is given a complete physical examination and is assigned to work only in accordance with our Medical Officer's report as to her fitness. The excellent medical and dental care help in great measure, along with the provision of well cooked and nourishing food, to build up and maintain generally a very good standard of health. The medical work is under the direction of Dr. W. H. Hills and we have three Registered Nurses. Constant vigilance and early segregation in cases of sickness kept preventable illness under control, and there was no epidemic of any kind. Very few cases required to be removed to a general hospital, and those few were mostly for surgical operation. The one death that occurred was from natural causes.

The following is a summarized report of the medical work:

Physical examinations.....	367	Lumbar punctures.....	41
Pelvic examinations.....	533	Penicillin.....	192
Blood tests.....	610	Sick parade.....	11,639
Mapharsen.....	1,193	Vaccinations.....	48
Bismuth.....	804	Intelligence Tests.....	193
Bismarsen.....	108	Mental examinations.....	18

Warm commendation is given also to our Dentist, Dr. H. F. B. Black, for his expert and ever conscientious work. This was Dr. Black's first complete year with us since his return from Active Service.

A summarized report of the dental work is as follows:

Patients seen.....	949	Fillings.....	141
Examinations only.....	354	Treatments.....	197
Public charges.....	595	Prophylaxis.....	43
Extractions.....	231	Dentures.....	18
Local anaesthetics.....	186		

Thirteen babies were born during the year. As soon as possible after expectant mothers are received here, they are taken to the pre-natal Clinic at the Toronto General Hospital and their cases are, therefore, already on record at the hospital when they are transferred there for their confinement.

The mother returns here with her babe when hospital authorities give permission for them to leave. In filling in the form registering a birth, no mention is made of the Reformatory or of this address on King Street, and the child is saved from at least that stigma.

The factory provides the maximum number of inmates with training for gainful occupation and some of those trained here in operating power machines, and who have returned to the community outside, are earning \$28.00 a week. Others who were trained in laundering and housework are likewise well employed outside. The Matron who supervises the painting of the inside of the building by inmates during the winter months takes over part of the care of the garden as early in the year as the weather permits. She does this under the direction of our Gardener, and from eight to ten inmates are kept busy in the sowing of seed, weeding, tending the lawns, etc. The garden provides the institution with all the early vegetables, and quite a good supply for winter use.

The reports of our discharged women and girls who are doing well are encouraging, as against the disappointing ones of those who while working satisfactorily in the institution have no stability and just drift back to their old ways when they no longer are under direction. Considering the conditions in the homes of some of those unfortunates and the lack of any incentive there to do better, it is not surprising that without supervision they cannot maintain the improvement begun here. After the most formative years of their lives have been spent in homes that all too often are entirely lacking in any of what are generally accepted as essentials toward the development of good citizens, it is scarcely reasonable to expect that the bad results of those years can be righted in six months, more or less (too often, less), and that reformation in the moral and physical state is likely to be achieved in the comparatively short periods of training our girls have here. Human nature, being what it is, does not take so readily to the upset of the urge to change habits that have become fixed and comfortable. Our wish to help and befriend them usually brings some response from those in our care, and we do our best to encourage them in any attempt at betterment.

Discipline has been good, and this I attribute largely to the regular employment of all inmates who are in good health, eight hours a day in one or another of the institutional activities. The policy of depriving miscreants of privileges for some time, rather than punishment that may be more severe but quickly over, continues to prove effective in any obstinate cases of misbehaviour. Most inmates are amenable to advice, and generally realize that good conduct brings its reward in various ways.

As in previous reports, I would protest the sending here of those who are mentally ill, mentally defective, incapable, and those who are too advanced in years to be able for ordinary labour. It is extremely unfair to them, and having them here is definitely upsetting to discipline.

Some most enjoyable concerts were given here during the year. A few plays were put on very successfully by some of the girls who showed a surprising degree of talent in character acting, in costume and parts far removed from every day life in an institution, to the great delight and merriment of their fellow-inmates who made an enthusiastic audience. Other greatly appreciated entertainment was provided through the generosity of Church organizations,



the Salvation Army and Service Clubs. At all those entertainments the inmates' pleasure was warmly expressed, and we all feel very grateful to the friends of the institution who gave so much cheer.

It gives particular satisfaction to report that The Public Library Board of Toronto authorized Mr. C. R. Sanderson, Chief Librarian, to establish a branch library in this institution. Mr. Sanderson has been most helpful in the matter, as we are deeply indebted for such a valuable contribution to our facilities for pleasure and education.

I hope that in the near future our recreational programme will be in full swing. It is quite necessary for the person charged with this responsibility to have a high degree of leadership. An institution of this kind presents somewhat different problems from those encountered by the recreational directors in most civilian situations.

Mr. Elliott, Superintendent of the Ontario Reformatory at Mimico, has been kind and co-operative as always and he was good enough to send workers on various occasions, one job being to grade our driveway and surface it with crushed stone.

The outside of the building still is in need of the repairs mentioned in last year's report as being necessary.

Religious training is a vital necessity, and we are grateful to all the teachers of religion for their faithfulness in coming and their help in the work we are trying to accomplish.

I am not unmindful of the fact that the management of the institution is dependent upon the united efforts and loyal support of all associates in the work and I am deeply indebted to all those, in whatever office, who have responded to this spirit. To you, Sir, and the officials of the Department, I express sincere appreciation.

Yours very truly,

J. MILNE,

*Superintendent.*

**ANNUAL REPORT OF THE ONTARIO BOARD OF PAROLE****For the Year Ending March 31, 1947**

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The conditional release of inmates from the Reformatories in the Province of Ontario is the task of the Ontario Parole Board. This means that many homes must be inspected and offers of employment examined in order that those to be released may have a good chance of becoming re-established in the social and industrial life of the Province. The supervision of Parolees, once they are established is a factor of supreme importance because it insures guidance and direction to the Parolees at a critical time in their rehabilitation period.

In the selection of those applying for parole, there are many determining factors. Among these factors that are important are the following:—type of home and possible parental guidance; ability to secure permanent employment; previous work record; desire to continue education, either academic or vocational; type of offence committed; record of offences; conduct and work record in the Reformatory; attitude to his or her rehabilitation. All these factors are taken into consideration by the Board of Parole before granting or refusing a parole.

There are two problems confronting the Board at this time which it feels call for serious consideration. The first is that which has to do with those guilty of sex offences appearing before the Board. If, as has been suggested, sex offenders are found to be afflicted with a mental disease, it is readily apparent that the Parole Board are not in a position to give conditional release to such inmates and that the Courts are inadequate to deal with such cases at the present time under the existing provisions of the Criminal Code. It is, therefore, suggested that a study be made of this class of offender in order that provision be made for such treatment as may be found necessary.

The second problem that confronts the Board and that demands consideration is that of the so-called Alcoholics who receive short indefinite sentences and thereby present themselves for possible parole. There is little that can be done of a permanent nature for these alcoholics unless some special treatment is forthcoming. It is, therefore, humbly suggested that the problem of alcoholics be considered and a solution sought to the end that a greater number may become established in society and in the industrial life of our country.

The Personnel of the Board was changed during the fiscal year. Mr. R. A. Jeffery, of Arnprior, Ontario, a very valuable member of the Board, resigned. The Board regretted his resignation. Mr. Arthur E. Maloney, Barrister of Toronto, was appointed a member of the Board. The Board of Parole is composed of the following members:—Mr. G. M. Dix, Chairman; Mr. J. P. Balharrie; Mr. W. R. McConnell; Lt.-Col. W. A. Bunton; Mr. A. E. Maloney and Miss Sadie Melrose.

During the past three years the Board of Parole has interviewed all applicants for Ticket-of-Leave at the request of the Department of Justice, Ottawa, Ontario. During the fiscal year, 1,364 inmates in the various Provincial Reformatories were interviewed, who had made application for Ticket-

of-Leave. The Board's observations and relevant material were submitted to the Department of Justice.

Many ex-prisoners of gaols and other penal institutions call at the Parole office for assistance, guidance and advice. A great number were helped by being given lodgings, employment secured, transportation provided to employment, meals, tobacco, etc., through the Prisoners' Rehabilitation Fund.

The Board is indebted to the officials and officers of the Ontario Provincial Police, to the Chief Constables throughout the Province, to the National Employment Service, Welfare Organizations and to the Salvation Army for the splendid assistance given. The Board, also, wish to express their indebtedness to the Service Clubs and Social Agencies who have given excellent co-operation.

**STATEMENT—For Year Ending March 31st, 1947**

<b>RE-CONVICTED</b>			
Paroled previous to March 31st, 1946.....	7		
Paroled during Fiscal Year.....	27		
	—	34	
<b>DISAPPEARED</b>			
Paroled previous to March 31st, 1946.....	11		
Paroled during Fiscal Year.....	50		
	—	61	
<b>SENT BACK AND PAROLE CANCELLED</b>			
Paroled previous to March 31st, 1946.....	15		
Paroled during Fiscal Year.....	26		
	—	41	
			136
<b>TOTAL FAILURES</b>			
Paroled previous to March 31st, 1946.....	33		
Paroled during Fiscal Year.....	103		
	—		136
<b>PAROLED</b>			
Men.....	517		
Women and Girls.....	94		
	—	611	
<b>Failures</b> .....			15.2%
<b>WOMEN AND GIRLS</b>			
Paroled previous to March 31st, 1946.....	24		
Paroled during Fiscal Year.....	30		
	—	54	
<b>TOTAL PAROLES</b> .....			94
<b>Failures</b> .....			32.%
<b>MEN AND BOYS</b>			
Paroled previous to March 31st, 1946.....	11		
Paroled during Fiscal Year.....	71		
	—	82	
<b>TOTAL PAROLES</b> .....			517
<b>Failures</b> .....			13.7%

GEO. M. DIX,

*Chairman.*

# THE SALVATION ARMY

## REPORT OF PRISON, GAOL AND POLICE COURT WORK IN ONTARIO

For the Year Ended December 31, 1946

The problem of the restoration of the fallen individual is age old and is still one of the greatest in the world. Thoughtful men and women from all walks of life have tried to find a solution but in spite of all that has been done it still presents a great challenge to Society.

How the Salvation Army is trying to meet this need is outlined in the following report:

### *Preventative Work*

All will agree, I am sure, that the best time to save anyone is before that one commits their first crime.

First offenders when brought before Magistrates are the special object of our Officers' care and attention, and a large number are handed over to us by the Courts each year.

Our Officers pay special attention to the home and family, giving advice and help where this is necessary because we realize that 99% of our major crime can be traced back to the home.

We have a number of homes for boys and girls situated throughout the Province. All with but one idea in mind—to restore where needed, then build, when possible, right ideals of Christian Character.

### *Prisoners' Welfare Work*

It is recognized that in respect to law breakers the real sufferers are the wives and children, and our first thought must be for these innocent victims of crime and its consequence. We have Officers in practically every City and Town in the Province who are always ready to call at the Courts or homes and will make a determined effort to alleviate any condition of need that may be found.

The man who has been sentenced is not forgotten, but is visited regularly, services are conducted, and no effort is spared on our part to try and effect a permanent reformation on the part of the one convicted.

We as Salvationists believe that this can best be done through the power that motivates our Officers, the personal acceptance of Christ as Saviour and Lord. It is this alone that can still "break the power of cancelled sin and set the prisoner free."

### *After Care Work*

Another phase in our endeavour to help is the after care. We receive from Wardens of each Institution a monthly list of discharges and where possible make plans to receive these individuals in an effort to rehabilitate them.

Where necessary they are met at the gate of the prison or railroad station, taken to one of our homes or Institutions, cared for until they can make their own arrangements, work found, where this is possible, and often reconciled and restored to their families.

We put on record our gratitude and thanks to Superintendents and officials of the various Institutions, also, to Magistrates and Crown Attorneys for their sympathy and help in cases where they feel that mercy can wisely be extended. I want to refer to the consideration shown by the officials at the Parliament Buildings. Honourable George Dunbar, C. F. Neelands, also, Honourable Leslie Blackwell, the Attorney-General and others, who give us the opportunity to be of service.

While we are dealing each day with the worst characters The Salvation Army still maintains that there is no character so bad or gone so far in wrong doing but that he can be influenced to become the man he originally intended to be.

**REPORT OF PRISON AND POLICE COURT AND GAOLS WORK  
For the Province of Ontario, Year Ending December 31st, 1946**

Visits to Gaols, Prison and Police Courts, including visits when services are held.....	5,363
Interviews with men.....	21,728
Religious Services conducted in Prison and Gaols.....	1,415
Men handed to The Salvation Army, met on discharge or who have come direct to the Prison Office.....	1,312
Meals and Beds supplied free.....	16,782
Letters written, or calls made by phone in order to bring about reconciliation or secure employment for discharged men.....	16,767
Visits to homes, also prospective employers on behalf of prisoners.....	5,466
Employment secured, returned to former jobs or sent back to friends or parents mostly from the Police Court.....	1,275
Number provided with clothing.....	1,060

**PRISON AND POLICE COURT WORK IN THE PROVINCE OF ONTARIO  
STATEMENT OF INCOME AND EXPENDITURE**

**For the Year Ended December 31st, 1946**

TO EXPENDITURE:		BY INCOME:	
Assistance to Prisoners and Dependents	\$4,763.25	Grants:	
Expenses of officers engaged in prison and police court work:—		Province of Ontario..	\$7,500.00
		City of Toronto.....	2,000.00
		Donations.....	630.60
<b>TORONTO:</b>			
Head Office—salaries, rents, office expenses, travelling, etc. ....	3,004.20		
<b>MEN'S SECTION, TORONTO:</b>			
Salaries.....	\$2,764.70		
Rents.....	740.00		
Incidentals.....	1,265.49		
	<hr/> 4,770.19		
<b>WOMEN'S SECTION, TORONTO:</b>			
Salaries.....	861.00		
Rents.....	357.50		
Incidentals.....	377.31		
	<hr/> 1,595.81		
<b>BURWASH:</b>			
Salaries.....	1,316.50		
Incidentals.....	926.62		
	<hr/> 2,243.12		
<b>GUELPH:</b>			
Salaries.....	1,282.00		
Rents.....	453.75		
Incidentals.....	936.08		
	<hr/> 2,671.83		
<b>KINGSTON:</b>			
Salaries.....	636.25		
Incidentals.....	328.94		
	<hr/> 965.19	Deficit.....	9,882.99
	<hr/> <hr/> \$20,013.59		<hr/> <hr/> \$20,013.59

**AGRICULTURE** — an important feature of an Institution program, providing food for the table and healthful outdoor activity for the inmate.



Some must work close to the soil . . .



while others will work with horses . . .



but the mechanically minded will  
prefer mechanized power

THE PRODUCTS OF AGRICULTURE . . .



grain and milk . . .



poultry and pork . . .



fruits and vegetables



**MEDICAL AND DENTAL SERVICES — treatment and care, the first steps towards the “goal” of REHABILITATION.**



**Medical Examination**



**Dental Check-up**



**Blood Test**



**Minor Repairs**

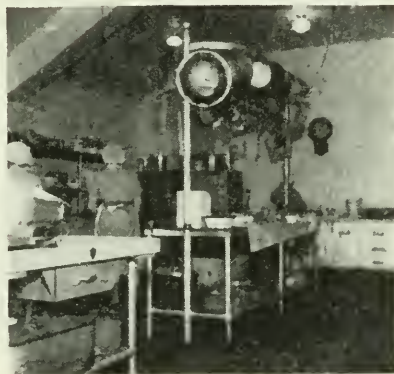
In the interest of economy, old type equipment which is still serviceable must be used until replaced with modern equipment. Just one phase of the Department's far-reaching plans for Penal Reform.



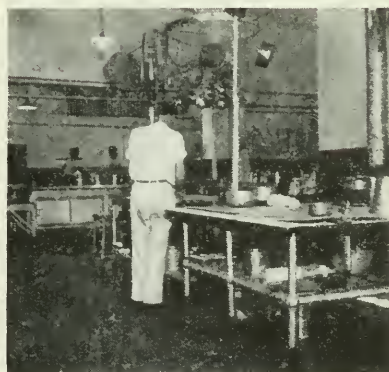
Dining Hall, Mercer



Corridor, Mercer

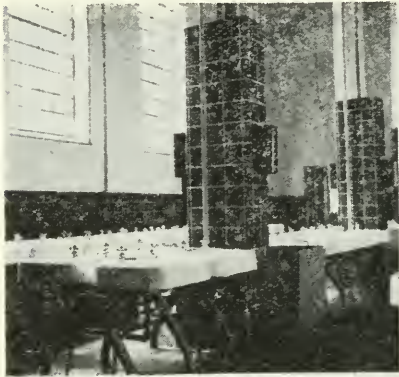


Kitchen, Mercer

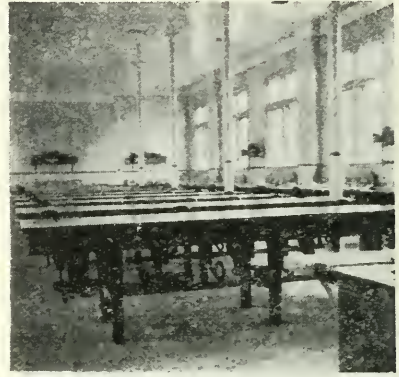


Kitchen, Mimico

All types of equipment will be found in Reform Institutions, from temporary army huts at Brampton to ultra-modern cells at Guelph.



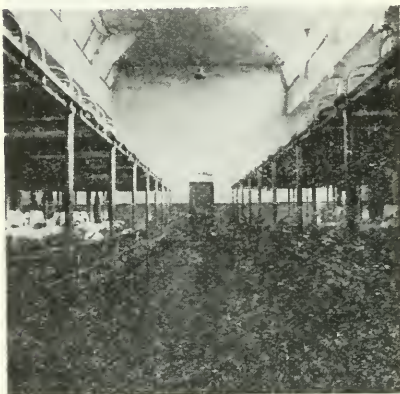
Washroom, Guelph



Dining Hall, Guelph



Temporary Army Hut, Brampton



Dormitory, Mimico



Modern Cell, Guelph

**READJUSTMENT TO NORMAL LIFE** may require introduction to a trade. All practical trades are covered by carefully selected and competent instructors.



**Welding**



**Circular Saw**



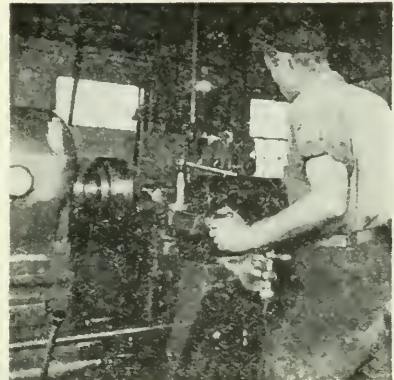
**Triple Sander**



**Mortising**

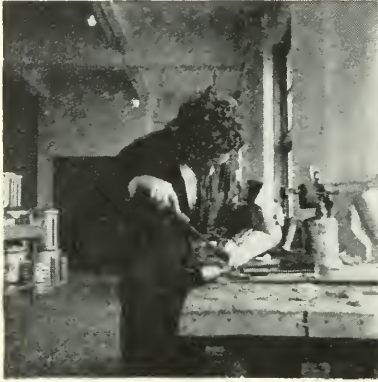


**Electric Drill**



**Metal Working**

As conditions show the need, new features are added. To the well-established trades of carpentry, metal working, tinsmithing, masonry, electrical work, etc., RADIO has been added.



Sheet Metal Working



Shoemaking — the Stitcher



Radio



At Mimico, bricks and tiles are made from clay and shale, dug from the pit

Dressmaking and Power Operating are just two of the practical courses for women, as well as laundry work and cooking.



The Factory, Mercer



The Laundry, Mercer



The Laundry, Mercer



Just one of many accomplishments at Guelph . . . blankets from raw wool

The EDUCATIONAL program and supervised RECREATION and PHYSICAL TRAINING programs have one aim . . . a healthy disciplined mind and body.



# ANNUAL REPORT UPON THE GAOLS OF ONTARIO

## FOR THE YEAR ENDING MARCH 31, 1947

1. City Gaols (Toronto and Hamilton).....	2
County gaols.....	35
District gaols.....	8
TOTAL NUMBER OF GAOLS IN ONTARIO.....	45
2. Total expenditure for gaol maintenance in Ontario:	
For year ending March 31, 1946.....	\$915,020.87
For year ending March 31, 1947.....	\$1,021,448.57
3. Average maintenance cost per day per prisoner:	
For year ending March 31, 1946.....	2.02
For year ending March 31, 1947.....	1.90
4. Average dietary cost per day per prisoner:	
For year ending March 31, 1946.....	.2100
For year ending March 31, 1947.....	.2132
5. Number of prisoners committed:	
For year ending March 31, 1946.....	29,469
For year ending March 31, 1947.....	32,541
INCREASE.....	3,132
6. Number of prisoners sentenced:	
For year ending March 31, 1946.....	21,614
For year ending March 31, 1947.....	25,355
INCREASE.....	3,741

### COMMITMENTS

	1945-46	1946-47	DECREASE	INCREASE
Murder.....	32	27	5	.....
Manslaughter.....	39	30	9	.....
Crimes:				
Against the person.....	1,502	1,525		23
Against property.....	7,645	7,321	324	.....
Against public morals and decency.....	1,240	1,269		29
Against order and peace.....	17,566	20,925		3,359
Mentally ill.....	441	425	16	
Number of days' stay of prisoners.....	453,620	536,458		82,838
Escapes.....	31	9	22	
Escaped and captured.....	29	9	20	
Deaths in gaols.....	5	12		7



THE FOLLOWING TABLES SHOW TOTAL SEX, SOCIAL CONDITIONS, HABITS  
AND EDUCATIONAL STATUS OF ALL PRISONERS COMMITTED

	Sex	1945-46	1946-47
Male.....		26,782	29,780
Female.....		2,627	2,761

Social Conditions

Married.....		11,688	12,931
Unmarried.....		17,721	19,610

Habits

Abstainers.....			1,290
Temperate.....		11,642	9,339
Intemperate.....		17,767	21,912

Educational

Could read or write.....	28,725	Illiterate	738
Could neither read nor write.....	684	Elementary	29,014
		Advanced	2,789

THE FOLLOWING TABLE SHOWS THE NATIONALITY, OCCUPATIONS AND  
AGES OF ALL PRISONERS COMMITTED

	Nationality	1945-46	1946-47
Canadian-born.....		24,637	27,086
English.....		1,076	1,244
Irish.....		623	759
Scotch.....		814	1,000
United States.....		571	641
Other countries.....		1,688	1,811

Occupation

Agricultural.....		803	1,036
Commercial.....		3,654	5,329
Domestic.....		2,088	2,105
Labourers.....		15,678	17,240
Mechanics.....		3,863	4,202
Professional.....		356	440
Soldiers.....		1,739	.....
Sailors.....		394	.....
No occupation.....		834	1,066

Ages of Prisoners Committed

Under 16 years.....		211	154
16 years to 19.....		4,553	3,525
20 " " 24.....		5,067	5,580
26 " " 29.....		3,513	3,906
30 " " 34.....		2,951	3,460
35 " " 39.....		2,957	3,494
40 " " 49.....		5,150	6,237
50 " " 59.....		3,049	3,827
60 " " 69.....		1,565	1,896
70 " and over.....		393	462

## Number of Times Committed

	1945-46	PERCENT	1946-47	PERCENT
First time.....	15,773	53.6%	15,758	48.5%
Second time.....	4,646	15.8	5,423	16.6
Third time.....	2,595	8.8	3,261	10.0
Fourth time.....	6,395	21.8	8,099	24.9

## NUMBER OF PRISONERS COMMITTED REPORTED AS DRUG ADDICTS

Belleville.....	1	Owen Sound.....	2
Brampton.....	2	Peterboro.....	2
Brantford.....	2	Sarnia.....	1
Cornwall.....	2	Toronto.....	152
Goderich.....	1	Welland.....	1
Hamilton.....	11	Windsor.....	6
Kitchener.....	3		
London.....	1		187

## NUMBER OF PRISONERS SENTENCED TO CORPORAL PUNISHMENT

Barrie.....	2	Owen Sound.....	2
Brantford.....	3	Pembroke.....	2
Brockville.....	4	St. Thomas.....	1
Cayuga.....	3	Sarnia.....	1
Chatham.....	8	Toronto.....	4
Cornwall.....	1	Welland.....	6
Hamilton.....	14	Whitby.....	2
Kingston.....	5	Windsor.....	3
Kitchener.....	1	Parry Sound.....	2
London.....	3	Sault Ste. Marie.....	2
Milton.....	6	Sudbury.....	2
Ottawa.....	2		
			79

## OFFENCES FOR WHICH PRISONERS WERE COMMITTED AND SENTENCED DURING THE YEAR

### A. CRIMES AGAINST THE PERSON

	COMMITMENTS			SENTENCES		
	M.	F.	T.	M.	F.	T.
Abduction.....	21	1	22	11	—	11
Abortion.....	23	4	27	9	4	13
Assault, common.....	573	22	595	394	15	409
Assault, felonious.....	561	12	573	406	6	412
Attempted suicide.....	49	23	72	16	9	25
Cutting and wounding and attempting same.....	35	9	44	19	3	22
Shooting with intent.....	4	1	5	2	1	3
Stabbing.....	1	—	1	1	—	1
Manslaughter.....	29	1	30	9	1	10
Murder.....	22	5	27	5	2	7
Carnal knowledge.....	70	1	71	42	1	43
Rape and assault with intent to rape.....	57	1	58	19	—	19
<b>TOTALS</b> .....	<b>1,445</b>	<b>80</b>	<b>1,525</b>	<b>932</b>	<b>43</b>	<b>975</b>

### B. CRIMES AGAINST PROPERTY

	COMMITMENTS			SENTENCES		
	M.	F.	T.	M.	F.	T.
Arson and incendiarism.....	22	5	27	13	2	15
Breaking, entering and theft.....	1,408	14	1,422	1,069	5	1,074
Robbery.....	354	12	366	188	5	193
Forgery.....	190	23	213	165	18	183
Fraud.....	174	18	192	128	17	145
False pretences.....	314	22	336	249	13	262
Larceny and theft.....	2,735	213	2,948	2,156	161	2,317
Theft of cars.....	602	8	610	432	3	435
Taking without owner's consent.....	244	2	246	216	1	217
Receiving stolen goods.....	320	20	340	221	13	234
Trespass.....	391	3	394	343	2	345
Damage to property.....	210	17	227	157	11	168
<b>TOTALS</b> .....	<b>6,964</b>	<b>357</b>	<b>7,321</b>	<b>5,337</b>	<b>251</b>	<b>5,588</b>

## C. CRIMES AGAINST PUBLIC MORALS AND DECENCY

	COMMITMENTS			SENTENCES		
	M.	F.	T.	M.	F.	T.
Bigamy.....	23	9	32	19	6	25
Indecent assault.....	189	.....	189	138	1	139
Indecent exposure.....	121	3	124	88	1	89
Incest.....	23	2	25	32	22	54
Inmates and frequenters of houses of ill-fame	39	114	153	18	79	97
Keeping houses of ill-fame.....	56	49	105	42	41	83
Juvenile delinquency.....	135	42	177	82	17	99
Perjury.....	12	.....	12	10	.....	10
Prostitution.....	.....	17	17	.....	11	11
Seduction.....	3	.....	3	1	.....	1
Buggery.....	31	.....	31	21	.....	21
Non-support.....	331	15	346	199	4	203
Breaches of Venereal Disease Prevention Act	7	48	55	4	27	31
<b>TOTALS</b> .....	<b>970</b>	<b>299</b>	<b>1,269</b>	<b>654</b>	<b>209</b>	<b>863</b>

## D. CRIMES AGAINST PUBLIC ORDER AND PEACE

	COMMITMENTS			SENTENCES		
	M.	F.	T.	M.	F.	T.
Breaches of The Liquor Control Act.....	5,515	357	5,872	4,416	285	4,701
Breaches of The Excise Act.....	20	.....	20	12	.....	12
Breaches of The Narcotic and Drug Act	114	61	175	71	38	109
Breaches of the by-laws (do not include B.L.C.A.).....	137	8	145	121	7	128
Breaches of The Highways Traffic Act.....	230	.....	230	178	.....	178
Breaches of Probation Act.....	45	21	66	19	13	42
Carrying unlawful weapons.....	156	3	159	129	1	130
Cruelty to animals.....	95	4	99	5	2	7
Drunk and disorderly (do not include B.L.C.A.).....	8,461	853	9,314	7,671	717	8,388
Drunk driving.....	1,072	6	1,078	997	5	1,002
Reckless driving.....	307	1	308	197	1	198
Escaping from constable.....	7	.....	7	5	.....	5
Escaping from prison or gaol.....	19	.....	19	11	.....	11
Gambling.....	39	2	41	27	1	28
Obstructing an officer.....	201	8	209	156	6	162
Selling or giving liquor to Indians (do not include B.L.C.A.).....	122	13	135	121	12	133
Vagrancy.....	2,265	461	2,726	1,394	227	1,621
Contempt of court.....	295	27	322	274	27	301
<b>TOTALS</b> .....	<b>19,100</b>	<b>1,825</b>	<b>20,925</b>	<b>15,804</b>	<b>1,342</b>	<b>17,146</b>
<b>E. Other Offences Not Enumerated Above</b> .....	<b>1,301</b>	<b>200</b>	<b>1,501</b>	<b>712</b>	<b>71</b>	<b>783</b>
<b>GRAND TOTALS</b> (TOTALS OF A, B, C, D AND E)	<b>29,780</b>	<b>2,761</b>	<b>32,541</b>	<b>23,439</b>	<b>1,916</b>	<b>25,355</b>

**TABLE**

**SHOWING THE NAMES AND SALARIES OF VARIOUS**

CITY AND COUNTY GAOLS	NAMES OF OFFICIALS			
	SHERIFFS	GAOLERS	CHIEF MATRONS	GAOL SURGEONS
Barrie.....	E. C. Drury	A. R. Perkins	Mrs. E. Perkins	Dr. L. H. Bigelow
Belleville.....	J. D. O'Flynn	R. J. McCaw	" B. McCaw	" V. Blakslee
		J. Samain	" M. A. Samain	
Brampton.....	A. E. Sherman	J. W. Mitchell	" N. E. Mitchell	" D. C. Heggie
Brantford.....	G. D. Campbell	S. Rogers	" D. Rogers	" R. L. Hutton
Brockville.....	R. J. Gill	W. G. Rowsome	" H. Rowsome	" D. I. Matheson
		G. A. Myers	" M. Myers	
Cayuga.....	R. F. Miller	W. A. Metcalfe	" J. Metcalfe	" F. A. Vokes
Chatham.....	A. Poulter	P. J. Daigneau	" G. Daigneau	" J. C. McWilliam
Cobourg.....	F. C. Richardson	F. J. Wight	" V. Wight	" A. R. Richards
Cornwall.....	D. A. McNaughton	J. S. Dickey	" B. Dickey	" J. A. McGuire
Goderich.....	W. N. Hill	J. B. Reynolds	" J. B. Reynolds	" A. H. Taylor
Guelph.....	H. C. Waind	J. Clark	" J. Clark	" A. B. McCarter
Hamilton.....	A. C. Caldwell	F. V. Lalonde	" F. D. Lalonde	" T. C. Gibson
Kingston.....	C. H. Wood	J. T. Hawkey	" G. Hawkey	" R. J. Livesay
Kitchener.....	G. H. Gillies	C. W. Smith	" M. Smith	" D. G. McTaggart
Lindsay.....	J. Forman	H. W. Stone	" E. Stone	" M. F. White
London.....	R. H. Beattie	J. E. Yorke	" A. Ross	" D. H. Hogg
				" J. E. Winder
L'Original.....	E. A. Johnson	A. Gelineau	" A. Gelineau	" R. Laviolette
		J. R. Comtois	" R. Comtois	
Milton.....	W. J. Robertson	J. C. Fleming	" E. Ryder	" C. K. Stevenson
		G. E. Ryder		
Napanee.....	J. L. Haycock	G. L. McCabe	" G. L. McCabe	" T. M. Galbraith
		C. Conger	" C. E. Conger	
Orangeville.....	J. A. V. Preston	H. A. Coutts	" M. R. Coutts	" J. W. Leach
Ottawa.....	R. H. Slone	J. A. Graham	" B. Samson	" J. F. Argue
		J. A. Forward		" J. F. Argue
				" J. D. Caldwell
Owen Sound.....	F. T. Egener	T. A. Ramage	" J. Ramage	" R. Howey
				" M. Brewster
Pembroke.....	W. H. Gibson	J. C. Carnegie	" A. Carnegie	" L. G. Reid
Perth.....	G. R. McLennan	R. A. Moodie	" R. A. Moodie	" A. C. Fowler
		B. E. Beatty	" B. Beatty	
Peterborough.....	J. A. Harston	T. D. Johnston	" E. Johnston	" J. R. Clark
Picton.....	H. J. Colliver	E. Rist	" M. Rist	" S. W. D. Hart
St. Catharines.....	W. H. C. Villiers	J. J. Dundas	" L. M. Dundas	" J. C. Ball
St. Thomas.....	I. D. Cameron	A. L. Kingston	" B. M. Kingston	" D. L. Ewin
Sarnia.....	A. J. Johnston	E. E. Mott	" C. Mott	" R. G. MacDonald
				" W. B. Rutherford
Simeoe.....	A. C. Pratt	J. Dickson	" A. Dickson	" K. McD. McIntosh
Stratford.....	L. H. Morgan	H. Johnson	" B. Johnson	" M. J. Fraser
Toronto.....	J. D. Conover	W. L. Rayfield	" M. Peers	" W. H. Hills
Walkerton.....	H. A. McGillivray	A. E. Ferguson	" M. Ferguson	" T. A. Sinclair
Welland.....	V. L. Davidson	D. Sharpe	" D. Stewart	" M. MacLean
Whitby.....	H. Bascom	J. D. G. Sutherland	" J. Sutherland	" F. A. Cuddy
Windsor.....	A. A. Marentette	J. M. Robinson	" J. M. Robinson	" A. J. Jacques
				" F. G. DeMarco
Woodstock.....	A. A. Bishop	J. L. Skinner	" G. Skinner	" C. M. Mackay

## No. 1

## GAOL OFFICIALS—For the Year Ending March 31, 1947

CITY AND COUNTY GAOLS	SALARIES OF OFFICIALS					TOTAL
	GAOLERS	MATRONS	OTHER OFFICERS	SURGEONS		
				SALARIES	FEES	
Barrie.....	\$1,452.80	429.35	12,807.49	400.00	133.00	15,222.64
Belleville.....	877.42	293.02	5,131.49	500.00	46.00	7,430.29
	337.20	145.16				
Brampton.....	1,499.47	297.16	4,393.42	212.50	26.00	6,428.55
Brantford.....	1,682.82	541.25	9,062.32	300.00	116.00	11,702.39
Brockville.....	1,223.99	290.83	7,693.06	300.00	286.00	9,860.46
	51.24	15.34				
Cayuga.....	1,175.37	187.50	5,814.56	200.00	213.00	7,590.43
Chatham.....	1,495.21	437.20	8,758.30	400.00	48.00	11,138.71
Cobourg.....	1,273.05	322.67	5,243.00	250.00	65.00	7,153.72
Cornwall.....	1,826.70	345.55	10,070.40	424.95	64.00	12,731.60
Goderich.....	1,350.00	300.00	4,794.65	200.00	12.00	6,656.65
Guelfh.....	1,485.00	349.00	5,847.63	200.00		7,881.63
Hamilton.....	2,200.00	1,000.00	31,881.76	1,000.00	288.00	36,369.76
Kingston.....	1,622.30	428.00	7,159.72	387.49	53.00	9,650.51
Kitchener.....	1,800.82	460.91	9,202.56	500.00	172.00	12,136.29
Lindsay.....	1,573.34	259.82	4,603.24	150.00	21.00	6,607.40
London.....	1,700.00	981.91	21,481.74	601.71		24,847.55
				82.19		
L'Orignal.....	142.50	35.64	4,157.92	400.00	25.00	6,011.54
	1,005.29	245.19				
Milton.....	784.32	280.02	3,824.55	200.00	38.02	6,432.25
	1,305.34					
Napanee.....	948.50	199.83	3,434.88	200.00		4,942.36
	132.63	26.52				
Orangeville.....	1,479.30	334.90	3,019.85	125.00		4,959.05
Ottawa.....	1,576.75	697.30	45,619.52	91.75	73.00	49,233.05
	424.73			21.00		
				450.00	279.00	
Owen Sound.....	1,523.35	338.33	4,636.18	187.50	17.00	6,764.86
				62.50		
Pembroke.....	1,400.00	300.00	7,608.04	300.00	17.00	9,265.04
Perth.....	1,104.90	178.30	3,635.53	500.00		6,479.27
	1,010.56	49.98				
Peterborough.....	1,449.98	100.00	6,772.88	300.00	63.00	8,985.86
Pictou.....	1,071.40	300.00	2,044.11	150.00		3,565.51
St. Catharines.....	1,600.00	400.00	8,831.00	400.00		11,231.00
St. Thomas.....	1,581.34	437.16	6,598.33	348.00	60.00	9,024.83
Sarnia.....	1,474.31	437.12	8,472.58	150.00		10,684.01
				150.00		
Simcoe.....	1,115.30	270.58	5,430.90	378.98		7,195.76
Stratford.....	1,406.30	383.12	4,198.31	187.50		6,175.23
Toronto.....	3,495.30	1,496.16	126,216.31	1,183.82	2,648.50	135,140.09
Walkerton.....	1,140.00	214.00	4,856.29	200.00		6,410.29
Welland.....	1,954.98	80.25	11,996.89	500.00	80.00	14,612.12
Whitby.....	1,212.50	300.00	8,880.82	225.00	55.00	10,673.32
Windsor.....	1,843.28	607.73	37,985.36	1,500.00	159.00	42,189.12
					93.75	
Woodstock.....	1,484.30	226.25	6,303.65	200.00	27.00	8,241.20

TABLE

SHOWING THE NAMES AND SALARIES OF VARIOUS

DISTRICT GAOLS	NAMES OF OFFICIALS			
	SHERIFFS	GAOLERS	CHIEF MATRONS	GAOL SURGEONS
Fort Frances.....	C. L. Sundin	R. F. Brown	Mrs. N. P. Brown	Dr. W. G. Boyle
Haileybury.....	H. Clifford	A. T. Humphreys	" W. Humphreys	" W. C. Arnold
Kenora.....	L. D. McCallum	E. W. Cox	" M. F. Cox	" W. J. Gunne
North Bay.....	A. B. Girard	R. England	" M. England	" L. G. Gunne
		O. J. Connors	" E. Connors	" E. J. Brennan
		C. Reynolds	" C. Reynolds	
Parry Sound.....	J. E. Armstrong	T. W. Keating	" B. Keating	" A. J. L. Wright
Port Arthur.....	H. Thompson	G. F. Lasseter	" E. Filmer	" W. W. Smith
Sault Ste. Marie	Wm. H. Birks	W. Johnson	" H. Johnson	" S. E. Fleming
Sudbury.....	A. J. Manley	J. Galbraith	" H. Galbraith	" J. F. McCullough
		O. J. Connors	" E. M. Connors	" C. C. Evans

## No. 1 (Cont'd)

## GAOL OFFICIALS—For the Year Ending March 31, 1947

DISTRICT GAOLS	SALARIES OF OFFICIALS					TOTAL
	GAOLERS	MATRONS	OTHER OFFICERS	SURGEONS		
				SALARIES	FEES	
Fort Frances.....	1,962.00	289.92	7,394.09	200.00	.....	9,846.01
Haileybury.....	2,240.00	615.00	18,341.62	400.00	186.00	21,782.62
Kenora.....	2,240.00	500.00	13,747.24	100.00	.....	.....
	.....	.....	.....	333.28	54.00	16,974.52
North Bay.....	907.53	125.00	15,729.91	500.00	136.90	19,586.44
	1,530.00	450.00	.....	.....	.....	.....
	170.00	37.10	.....	.....	.....	.....
Parry Sound.....	1,840.00	500.00	9,782.00	400.00	60.00	12,582.00
Port Arthur.....	2,440.00	1,162.50	31,446.90	400.00	.....	38,449.40
Sault Ste. Marie....	2,140.00	500.00	13,385.80	300.00	41.00	16,366.80
Sudbury.....	1,578.87	450.00	16,459.92	400.00	62.00	19,479.12
	178.33	50.00	.....	300.00	.....	.....



**TABLE**  
**MOVEMENT OF**

CITY AND COUNTY GAOLS	NUMBER REMAINING IN CUSTODY ON REMAND, MARCH 31, 1946			NUMBER REMAINING IN CUSTODY AWAITING TRIAL, MARCH 31, 1946			NUMBER REMAIN- ING IN CUSTODY SERVING UNEX- PIRED SENTENCES OR FOR OTHER REASONS, MARCH 31, 1946			NUMBER COMMITTED DURING THE YEAR ENDING MARCH 31, 1947		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Barrie.....	14	1	15	.....	.....	.....	26	1	27	608	33	641
Belleville.....	6	.....	6	.....	.....	.....	17	.....	17	626	40	666
Brampton.....	4	.....	4	.....	.....	.....	3	.....	3	187	3	190
Brantford.....	.....	.....	.....	3	.....	3	11	1	12	361	16	377
Brockville.....	6	1	7	.....	.....	.....	9	.....	9	290	25	315
Cayuga.....	.....	.....	.....	.....	.....	.....	3	.....	3	195	7	202
Chatham.....	14	.....	14	.....	.....	.....	32	2	34	432	32	464
Cobourg.....	.....	.....	.....	1	.....	1	7	.....	7	206	16	222
Cornwall.....	7	.....	7	1	.....	1	16	.....	16	339	19	358
Goderich.....	2	.....	2	2	.....	2	3	.....	3	63	4	67
Guelph.....	3	1	4	.....	.....	.....	15	.....	15	357	14	371
Hamilton*.....	15	7	22	1	.....	1	78	5	83	1,764	174	1,938
Kingston.....	2	1	3	.....	.....	.....	10	.....	10	336	20	356
Kitchener.....	5	1	6	1	.....	1	12	.....	12	352	42	394
Lindsay.....	1	.....	1	.....	.....	.....	4	.....	4	189	14	203
London.....	3	3	6	.....	.....	.....	38	1	39	1,169	86	1,255
L'Orignal.....	4	.....	4	.....	.....	.....	2	.....	2	92	3	95
Milton.....	.....	.....	.....	.....	.....	.....	1	.....	1	106	10	116
Napanee.....	1	.....	1	.....	.....	.....	3	.....	3	140	7	147
Orangeville.....	2	.....	2	.....	.....	.....	.....	.....	.....	42	1	43
Ottawa.....	19	10	29	2	.....	2	64	6	70	1,805	213	2,018
Owen Sound.....	1	1	2	.....	.....	.....	5	.....	5	128	7	135
Pembroke.....	9	.....	9	1	.....	1	3	.....	3	199	10	209
Perth.....	1	.....	1	.....	.....	.....	6	.....	6	148	9	157
Peterborough.....	.....	.....	.....	.....	.....	.....	17	.....	17	323	8	331
Picton.....	.....	.....	.....	.....	.....	.....	1	.....	1	70	5	75
St. Catharines.....	.....	.....	.....	.....	.....	.....	7	.....	7	354	9	363
St. Thomas.....	5	.....	5	.....	.....	.....	10	1	11	451	10	461
Sarnia.....	4	1	5	1	.....	1	11	.....	11	273	21	294
Simcoe.....	1	.....	1	.....	.....	.....	4	.....	4	505	12	517
Stratford.....	.....	.....	.....	.....	.....	.....	7	.....	7	119	3	122
Toronto*.....	128	17	145	40	1	41	147	25	172	9,733	1,176	10,909
Walkerton.....	2	.....	2	.....	.....	.....	3	.....	3	125	.....	125
Welland.....	3	1	4	.....	.....	.....	33	.....	33	540	22	562
Whitby.....	5	.....	5	.....	.....	.....	24	1	25	345	22	367
Windsor.....	20	6	26	6	.....	6	62	8	70	1,036	154	1,190
Woodstock.....	1	1	5	.....	.....	.....	4	1	5	201	14	215
DISTRICT GAOLS												
Fort Frances.....	2	.....	2	1	.....	1	6	.....	6	318	6	324
Haileybury.....	.....	.....	.....	9	1	10	59	5	64	675	39	714
Kenora.....	4	.....	4	.....	.....	.....	21	2	23	450	33	483
North Bay.....	7	1	8	.....	.....	.....	34	7	41	592	46	638
Parry Sound.....	.....	.....	.....	5	.....	5	11	.....	11	315	19	334
Port Arthur.....	6	.....	6	1	1	2	123	15	138	1,735	192	1,927
Sault Ste. Marie.....	1	1	2	1	.....	1	14	4	18	299	59	358
Sudbury.....	11	1	12	4	.....	4	31	3	34	1,191	102	1,293
TOTALS.....	322	55	377	80	3	83	997	88	1,085	29,789	2,757	32,541

\*City Gaols.

No. 2

GAOL POPULATION

CITY AND COUNTY GAOLS	TOTAL NUMBER IN CUSTODY DURING YEAR			NUMBER RELEASED ON BAIL			NUMBER ACQUITTED AND RELEASED			NUMBER RELEASED BY ORDER OF JUDGE OR COURT WITHOUT TRIAL		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Barrie.....	648	35	683	3	.....	3	23	1	24	5	1	6
Belleville.....	649	40	689	11	1	12	38	5	43	4	.....	4
Brampton.....	194	3	197	2	.....	2	3	.....	3	.....	.....	.....
Brantford.....	375	17	392	6	1	7	51	1	52	.....	.....	.....
Brockville.....	305	26	331	3	1	4	5	.....	5	.....	.....	.....
Cayuga.....	198	7	205	37	2	39	18	1	19	.....	.....	.....
Chatham.....	478	34	512	24	3	27	33	3	36	.....	.....	.....
Cobourg.....	214	16	230	33	1	34	16	1	17	4	1	5
Cornwall.....	363	19	382	22	2	24	.....	.....	.....	.....	.....	.....
Goderich.....	70	4	74	24	.....	24	.....	1	1	.....	.....	.....
Guelph.....	375	15	390	10	1	11	22	5	27	.....	.....	.....
Hamilton*.....	1,858	186	2,044	176	20	196	82	25	107	6	.....	6
Kingston.....	348	21	369	1	.....	1	27	5	32	7	2	9
Kitchener.....	370	43	413	1	.....	1	42	6	48	1	1	2
Lindsay.....	194	14	208	1	.....	1	18	.....	18	.....	.....	.....
London.....	1,210	90	1,300	18	1	19	45	6	51	18	3	21
L'Original.....	98	3	101	25	.....	25	9	1	10	4	.....	4
Milton.....	107	10	117	3	.....	3	17	2	19	.....	.....	.....
Napance.....	144	7	151	53	1	57	2	1	3	.....	.....	.....
Orangeville.....	44	1	45	11	.....	11	.....	.....	.....	1	.....	1
Ottawa.....	1,890	229	2,119	170	15	185	134	38	172	128	24	152
Owen Sound.....	134	8	142	1	.....	1	14	1	15	2	1	3
Pembroke.....	212	10	222	9	.....	9	.....	.....	.....	4	.....	4
Perth.....	155	9	164	14	1	15	7	.....	7	1	.....	1
Peterborough.....	340	8	348	6	.....	6	39	1	40	1	.....	1
Picton.....	71	5	76	2	.....	2	2	.....	2	2	1	3
St. Catharines.....	361	9	370	7	.....	7	43	1	44	.....	.....	.....
St. Thomas.....	466	11	477	128	1	129	11	.....	11	1	.....	1
Sarnia.....	289	22	311	.....	.....	.....	15	4	19	.....	.....	.....
Simcoe.....	510	12	522	7	.....	7	5	.....	5	.....	.....	.....
Stratford.....	126	3	129	12	.....	12	4	1	5	15	.....	15
Toronto*.....	10048	1,219	11267	1,387	159	1,546	8	.....	8	10	.....	10
Walkerton.....	130	.....	130	36	.....	36	17	.....	17	.....	.....	.....
Welland.....	576	23	599	86	4	90	29	3	32	8	1	9
Whitby.....	374	23	397	9	.....	9	15	.....	15	1	.....	1
Windsor.....	1,124	168	1,292	3	2	5	149	26	175	1	.....	1
Woodstock.....	209	16	225	23	1	24	14	2	16	.....	.....	.....
DISTRICT GAOLS												
Fort Frances.....	327	6	333	5	.....	5	17	.....	17	.....	.....	.....
Haileybury.....	743	45	788	1	.....	1	2	1	3	16	1	17
Kenora.....	475	35	510	6	.....	6	12	2	14	2	.....	2
North Bay.....	633	54	687	26	1	27	48	.....	48	5	.....	5
Parry Sound.....	331	19	350	.....	.....	.....	31	4	35	1	.....	1
Port Arthur.....	1,865	208	2,073	1	3	4	23	2	25	22	5	27
Sault Ste. Marie.....	315	64	379	12	.....	12	3	.....	3	60	13	73
Sudbury.....	1,237	106	1,343	23	8	31	4	3	7	80	9	89
TOTALS.....	31183	2,903	34086	2,438	232	2,670	1,097	153	1,250	410	63	473

\*City gaols.

TABLE  
MOVEMENT OF

CITY AND COUNTY GAOLS	NUMBER WITH OPTION OF A FINE OR GAOL TERM WHO PAID FINES AND WERE RELEASED			NUMBER RELEASED ON SUSPENDED SENTENCES			NUMBER RELEASED FOR ANY OTHER REASON		
	M.	F.	T.	M.	F.	T.	M.	F.	T.
Barrie .....	179	16	195	44	3	47	48	7	55
Belleville .....	210	12	222	65	7	72	6	.....	6
Brampton.....	75	1	76	40	1	41	29	1	30
Brantford.....	39	5	44	51	3	54	.....	.....	.....
Brockville .....	46	5	51	30	4	34	15	1	16
Cayuga.....	52	1	53	12	.....	12	1	.....	1
Chatham.....	56	4	60	66	5	71	2	2	4
Cobourg.....	35	2	37	13	.....	13	2	.....	2
Cornwall.....	30	3	33	30	2	32	63	5	68
Goderich.....	5	.....	5	10	1	11	5	1	6
Guelph.....	168	2	170	13	.....	13	.....	.....	.....
Hamilton*.....	177	18	195	110	28	138	176	26	202
Kingston.....	93	3	96	23	4	27	10	1	11
Kitchener.....	73	3	76	43	13	56	4	2	6
Lindsay.....	73	6	79	13	4	17	2	.....	2
London.....	129	16	145	55	10	65	251	24	275
L'Orignal.....	6	.....	6	6	.....	6	1	.....	1
Milton.....	22	1	23	10	3	13	.....	.....	.....
Napanee.....	10	.....	10	12	.....	12	8	1	9
Orangeville.....	8	.....	8	3	.....	3	4	.....	4
Ottawa.....	105	13	118	103	19	122	23	.....	23
Owen Sound.....	16	1	17	9	1	10	.....	1	1
Pembroke.....	22	.....	22	.....	.....	.....	70	5	75
Perth.....	18	1	19	6	.....	6	.....	5	5
Peterborough.....	56	1	57	22	3	25	13	.....	13
Pictou.....	1	1	2	6	.....	6	9	1	10
St. Catharines.....	55	2	57	2	1	3	2	.....	2
St. Thomas.....	89	1	90	17	2	19	20	2	22
Sarnia.....	111	3	114	19	5	24	.....	.....	.....
Simcoe.....	256	3	259	32	2	34	50	3	53
Stratford.....	4	.....	4	8	.....	8	2	.....	2
Toronto*.....	1,690	240	1,930	875	144	1,019	506	138	644
Walkerton.....	6	.....	6	9	2	11	.....	.....	.....
Welland.....	44	2	46	44	1	45	.....	.....	.....
Whitby.....	106	8	114	40	1	41	23	4	27
Windsor.....	73	11	84	137	8	145	37	28	65
Woodstock.....	31	4	35	6	1	7	9	2	11
DISTRICT GAOLS									
Fort Frances.....	172	3	175	36	2	38	8	.....	8
Haileybury.....	28	2	30	5	.....	5	4	.....	4
Kenora.....	71	7	78	33	4	37	.....	.....	.....
North Bay.....	63	7	70	33	2	35	6	10	16
Parry Sound.....	93	7	100	9	1	10	.....	.....	.....
Port Arthur.....	417	69	486	25	8	33	58	7	65
Sault Ste. Marie.....	33	1	34	15	2	17	13	18	31
Sudbury.....	238	12	250	164	11	175	97	13	110
TOTALS .....	5,284	497	5,781	2,304	308	2,612	1,577	308	1,885

\*City gaols.

## No. 2 (Cont'd)

## GAOL POPULATION

CITY AND COUNTY GAOLS	NUMBER DISCHARGED ON EXPIRATION OF SENTENCE			NUMBER TRANSFERRED TO OTHER INSTITUTIONS			NUMBER SENTENCED AND DEPORTED DIRECT FROM GAOL		
	M.	F.	T.	M.	F.	T.	M.	F.	T.
Barrie.....	245	3	248	64	3	67	.....	.....	.....
Belleville.....	227	8	235	60	7	67	.....	.....	.....
Brampton.....	30	.....	30	10	.....	10	.....	.....	.....
Brantford.....	154	3	157	57	4	61	.....	.....	.....
Brockville.....	122	7	129	68	7	75	1	.....	1
Cayuga.....	57	2	59	19	1	20	.....	.....	.....
Chatham.....	207	5	212	62	12	74	1	.....	1
Cobourg.....	78	3	81	20	8	28	.....	.....	.....
Cornwall.....	134	1	135	68	6	74	.....	.....	.....
Goderich.....	12	1	13	13	.....	13	.....	.....	.....
Guelph.....	100	2	102	43	4	47	.....	.....	.....
Hamilton*.....	642	25	667	422	40	462	.....	.....	.....
Kingston.....	134	2	136	35	1	36	.....	.....	.....
Kitchener.....	108	4	112	60	13	73	.....	.....	.....
Lindsay.....	59	2	61	24	2	26	.....	.....	.....
London.....	527	19	546	110	10	120	.....	.....	.....
L'Orignal.....	26	.....	26	14	2	16	1	.....	1
Milton.....	36	2	38	13	2	15	.....	.....	.....
Napanee.....	50	.....	50	7	1	8	.....	.....	.....
Orangeville.....	7	.....	7	6	1	7	.....	.....	.....
Ottawa.....	993	95	1,088	134	20	154	5	.....	5
Owen Sound.....	66	2	68	17	1	18	.....	.....	.....
Pembroke.....	77	4	81	19	.....	19	.....	.....	.....
Perth.....	90	1	91	8	.....	8	.....	.....	.....
Peterborough.....	151	3	154	25	.....	25	.....	.....	.....
Pictou.....	36	1	37	8	1	9	.....	.....	.....
St. Catharines.....	201	2	203	34	3	37	.....	.....	.....
St. Thomas.....	162	2	164	28	3	31	.....	.....	.....
Sarnia.....	115	3	118	17	6	23	.....	.....	.....
Simcoe.....	127	4	131	24	.....	24	.....	.....	.....
Stratford.....	57	2	59	15	.....	15	.....	.....	.....
Toronto*.....	2,139	301	2,440	3,140	192	3,332	7	1	8
Walkerton.....	42	2	44	10	.....	10	.....	.....	.....
Welland.....	233	3	236	80	5	85	6	.....	6
Whitby.....	123	6	129	34	2	36	1	.....	1
Windsor.....	471	59	530	190	23	213	1	1	2
Woodstock.....	90	1	91	26	5	31	.....	.....	.....
DISTRICT GAOLS									
Fort Frances.....	53	1	54	28	.....	28	.....	.....	.....
Haileybury.....	458	20	478	147	14	161	1	.....	1
Kenora.....	227	12	239	51	3	54	2	.....	2
North Bay.....	324	14	338	93	17	110	.....	.....	.....
Parry Sound.....	137	2	139	46	5	51	.....	.....	.....
Port Arthur.....	1,028	88	1,116	167	12	179	.....	.....	.....
Sault Ste. Marie.....	137	20	157	29	9	38	.....	.....	.....
Sudbury.....	365	26	391	196	21	217	.....	.....	.....
TOTALS.....	10,857	763	11,620	5,590	466	6,207	26	2	28

\*City gaols.

TABLE  
MOVEMENT OF

CITY AND COUNTY GAOLS	DIED BEFORE TRIAL			DIED WHILE UNDER- GOING SENTENCE			SENTENCED TO DEATH AND EXECUTED			ESCAPED AND NOT RECAPTURED DURING YEAR			NUMBER REMAINING IN CUSTODY ON REMAND, MARCH 31, 1947		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Barrie.....				1		1							10	1	11
Belleville.....													2		2
Brampton.....													2		2
Brantford.....													3		3
Brockville.....													4	1	5
Cayuga.....													1		1
Chatham.....													3		3
Cobourg.....													3		3
Cornwall.....													5		5
Goderich.....															
Guelph.....													1	1	2
Hamilton*.....													10	1	11
Kingston.....														3	3
Kitchener.....													6		6
Lindsay.....													1		1
London.....													3		3
L'Orignal.....													3		3
Milton.....													3		3
Napanee.....															
Orangeville.....															
Ottawa.....													23	2	25
Owen Sound.....															
Pembroke.....															
Perth.....													5		5
Peterborough.....				1		1							2		2
Picton.....													1		1
St. Catharines.....															
St. Thomas.....													3		3
Sarnia.....													2		2
Simcoe.....													7		7
Stratford.....													2		2
Toronto*.....	1		1		1	1							48	9	57
Walkerton.....															
Welland.....	1		1				1	1	2				13	1	14
Whitby.....	1		1				1		1				4		4
Windsor.....													22	4	26
Woodstock.....													6		6
DISTRICT GAOLS															
Fort Frances.....													1		1
Haileybury.....				1		1							2		2
Kenora.....				1		1							3		3
North Bay.....													3		3
Parry Sound.....													2		2
Port Arthur.....	2		2		1	1							10		10
Sault Ste. Marie.....													3		3
Sudbury.....					1	1							11		11
TOTALS.....	5		5	4	3	7	2	1	3				233	23	256

\*City gaols.

## No. 2 (Cont'd)

## GAOL POPULATION

CITY AND COUNTY GAOLS	NUMBER REMAINING IN CUSTODY AWAITING TRIAL, MARCH 31, 1947			NUMBER REMAINING IN CUSTODY SERVING UNEXPIRED SENTENCES OR FOR OTHER REASONS, MARCH 31, 1947			TOTAL		
	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL
Barrie.....				26		26	648	35	683
Belleville.....				26		26	649	40	689
Brampton.....				3		3	194	3	197
Brantford.....				14		14	375	17	392
Brockville.....				11		11	305	26	331
Cayuga.....				1		1	198	7	205
Chatham.....				24		24	478	34	512
Cobourg.....				10		10	214	16	230
Cornwall.....	1		1	10		10	363	19	382
Goderich.....				1		1	70	4	74
Guelph.....				18		18	375	15	390
Hamilton*.....	4		4	53	3	56	1,858	186	2,044
Kingston.....				18		18	348	21	369
Kitchener.....				16		16	370	43	413
Lindsay.....				3		3	194	14	208
London.....				54	1	55	1,210	90	1,300
L'Orignal.....				3		3	98	3	101
Milton.....				3		3	107	10	117
Napanee.....				2		2	144	7	151
Orangeville.....	2		2	2		2	44	1	45
Ottawa.....	23	2	25	69	3	72	1,890	229	2,119
Owen Sound.....				9		9	134	8	142
Pembroke.....	1		1	10	1	11	212	10	222
Perth.....				6	1	7	155	9	164
Peterborough.....				24		24	340	8	348
Picton.....				4		4	71	5	76
St. Catharines.....				17		17	361	9	370
St. Thomas.....	1		1	6		6	466	11	477
Sarnia.....				10	1	11	289	22	311
Simcoe.....				2		2	510	12	522
Stratford.....				7		7	126	3	129
Toronto*.....	28		28	209	31	243	10,048	1,219	11,267
Walkerton.....				5		5	126	4	130
Welland.....	7	1	8	24	1	25	576	23	599
Whitby.....	4		4	12	2	14	374	23	397
Windsor.....	3	1	4	37	5	42	1,124	168	1,292
Woodstock.....				4		4	209	16	225
DISTRICT GAOLS									
Fort Frances.....				7		7	327	6	333
Haileybury.....	12		12	66	7	73	743	45	788
Kenora.....	2		2	44	6	50	475	35	510
North Bay.....				32	3	35	633	54	687
Parry Sound.....				12		12	331	19	350
Port Arthur.....		1	1	112	12	124	1,865	208	2,073
Sault Ste. Marie.....				10	1	11	315	64	379
Sudbury.....	1		1	58	2	60	1,237	106	1,343
TOTALS.....	89	5	94	1,094	83	1,177	31,182	2,910	34,092

\*City gaols.

TABLE  
CRIMINAL HISTORY, NUMBER OVER AND

CITY AND COUNTY GAOLS	FIRST TIME		SECOND TIME		THIRD TIME		OVER THREE TIMES	
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE
	Barrie.....	565	30	33	3	10	.....	.....
Belleville.....	206	18	83	10	185	8	152	4
Brampton.....	114	3	40	.....	15	.....	18	.....
Brantford.....	203	14	45	1	30	.....	83	1
Brockville.....	143	24	48	1	35	.....	64	.....
Cayuga.....	132	4	19	1	23	2	21	.....
Chatham.....	166	18	67	6	56	.....	143	8
Cobourg.....	100	11	49	4	22	.....	35	1
Cornwall.....	203	18	41	.....	23	.....	72	1
Goderich.....	34	2	9	1	2	1	18	.....
Guelph.....	253	12	58	1	15	1	31	.....
Hamilton*.....	968	126	193	25	84	12	519	11
Kingston.....	264	12	11	3	29	2	32	3
Kitchener.....	192	34	43	3	50	4	67	1
Lindsay.....	149	11	15	1	5	1	20	1
London.....	412	26	156	9	72	12	529	39
L'Orignal.....	44	2	21	.....	16	1	11	.....
Milton.....	68	9	12	.....	8	1	18	.....
Napanee.....	106	6	21	1	8	.....	5	.....
Orangeville.....	15	.....	9	1	6	.....	12	.....
Ottawa.....	672	99	308	45	159	11	666	58
Owen Sound.....	58	3	22	2	15	1	33	1
Pembroke.....	186	9	11	1	2	.....	.....	.....
Perth.....	55	7	23	1	22	1	48	.....
Peterborough.....	197	8	38	.....	23	.....	65	.....
Pictou.....	19	.....	18	3	14	1	19	1
St. Catharines.....	149	4	41	1	30	.....	134	4
St. Thomas.....	178	8	95	1	48	.....	130	1
Sarnia.....	134	15	25	5	28	1	36	.....
Simcoe.....	366	8	79	.....	46	.....	14	4
Stratford.....	85	3	13	.....	7	.....	14	.....
Toronto*.....	3,852	627	1,798	54	926	74	3,157	421
Walkerton.....	81	2	22	1	12	1	6	.....
Welland.....	280	20	93	2	43	.....	124	.....
Whitby.....	300	16	12	2	17	1	16	3
Windsor.....	752	117	130	28	75	9	79	.....
Woodstock.....	150	12	27	.....	14	2	10	.....
DISTRICT GAOLS								
Fort Frances.....	138	4	37	1	26	.....	117	1
Haileybury.....	187	13	154	11	63	2	271	13
Kenora.....	277	22	78	6	37	3	58	2
North Bay.....	240	20	110	13	94	3	148	10
Parry Sound.....	217	17	40	2	20	.....	38	.....
Port Arthur.....	553	55	466	58	415	48	301	31
Sault Ste. Marie.....	134	28	62	7	32	12	71	12
Sudbury.....	609	55	353	30	174	10	55	7
TOTALS.....	14,206	1,552	5,078	345	3,036	225	7,460	639

\*City gaols.

## No. 3

## UNDER SIXTEEN, AND NUMBER COMMITTED

CITY AND COUNTY GAOLS	UNDER 16 YEARS OF AGE			16 YEARS OF AGE AND OVER			TOTAL NUMBER COMMITTED DURING YEAR		
	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL
Barrie.....	2	.....	2	606	33	639	608	33	641
Belleville.....	2	.....	2	624	40	664	626	40	666
Brampton.....	3	.....	3	184	3	187	187	3	190
Brantford.....	2	.....	2	359	16	375	361	16	377
Brockville.....	5	1	6	285	24	309	290	25	315
Cayuga.....	.....	.....	.....	195	7	202	195	7	202
Chatham.....	4	.....	4	428	32	460	432	32	464
Cobourg.....	4	1	5	202	15	217	206	16	222
Cornwall.....	14	2	16	325	17	342	339	19	358
Goderich.....	.....	.....	.....	63	4	67	63	4	67
Guelph.....	7	.....	7	350	14	364	357	14	371
Hamilton*.....	3	4	7	1,761	170	1,931	1,764	174	1,938
Kingston.....	.....	.....	.....	336	20	356	336	20	356
Kitchener.....	.....	1	1	352	41	393	352	42	394
Lindsay.....	1	1	2	188	13	201	189	14	203
London.....	.....	.....	.....	1,169	86	1,255	1,169	86	1,255
L'Orignal.....	1	.....	1	91	3	94	92	3	95
Milton.....	.....	.....	.....	106	10	116	106	10	116
Napanee.....	4	.....	4	136	7	143	140	7	147
Orangeville.....	.....	.....	.....	42	1	43	42	1	43
Ottawa.....	11	8	19	1,794	205	1,999	1,805	213	2,018
Owen Sound.....	.....	.....	.....	128	7	135	128	7	135
Pembroke.....	.....	.....	.....	199	10	209	199	10	209
Perth.....	3	.....	3	145	9	154	148	9	157
Peterborough.....	2	1	3	321	7	328	323	8	331
Picton.....	.....	.....	.....	70	5	75	70	5	75
St. Catharines.....	.....	.....	.....	354	9	363	354	9	363
St. Thomas.....	.....	.....	.....	451	10	461	451	10	461
Sarnia.....	4	3	7	269	18	287	273	21	294
Simcoe.....	1	.....	1	504	12	516	505	12	517
Stratford.....	1	.....	1	118	3	121	119	3	122
Toronto*.....	2	.....	2	9,731	1,176	10,907	9,733	1,176	10,909
Walkerton.....	2	.....	2	119	4	123	121	4	125
Welland.....	.....	.....	.....	540	22	562	540	22	562
Whitby.....	.....	.....	.....	345	22	367	345	22	367
Windsor.....	5	.....	5	1,031	154	1,185	1,036	154	1,190
Woodstock.....	1	.....	1	200	14	214	201	14	215
DISTRICT GAOLS									
Fort Frances.....	2	1	3	316	5	321	318	6	324
Haileybury.....	.....	.....	.....	675	39	714	675	39	714
Kenora.....	2	.....	2	448	33	481	450	33	483
North Bay.....	7	.....	7	585	46	631	592	46	638
Parry Sound.....	9	2	11	306	17	323	315	19	334
Port Arthur.....	1	2	3	1,734	190	1,924	1,735	192	1,927
Sault Ste. Marie.....	7	2	9	292	57	349	299	59	358
Sudbury.....	13	.....	13	1,178	102	1,280	1,191	102	1,293
TOTALS.....	125	29	154	29,655	2,732	32,387	29,780	2,761	32,541

\*City gaols.



TABLE  
OCCUPATION, SOCIAL STATUS

CITY AND COUNTY GAOLS	AGRICULTURAL	COMMERCIAL	DOMESTIC	LABOURERS	MECHANICS	PROFESSIONAL	NO OCCUPATION	OTHERS	TOTAL
Barrie.....	39	221	28	237	21	9	10	76	641
Belleville.....	49	50	46	459	15	20	3	24	666
Brampton.....	15	12	3	93	54	2	1	10	190
Brantford.....	33	20	13	238	51	1	15	6	377
Brockville.....	23	25	20	202	6	.....	12	27	315
Cayuga.....	17	4	10	120	32	4	3	12	202
Chatham.....	41	78	30	231	46	28	7	3	464
Cobourg.....	15	17	16	136	9	11	18	.....	222
Cornwall.....	19	13	14	246	27	.....	21	18	358
Goderich.....	9	9	4	25	5	.....	.....	15	67
Guelph.....	33	13	11	244	55	10	1	4	371
Hamilton*.....	32	95	189	1,441	159	3	.....	19	1,938
Kingston.....	16	11	20	214	55	16	.....	24	356
Kitchener.....	20	10	27	181	102	.....	18	36	394
Lindsay.....	16	9	13	120	33	5	3	4	203
London.....	41	65	71	775	189	12	19	83	1,255
L'Original.....	6	2	3	71	1	3	5	4	95
Milton.....	10	14	9	74	3	.....	2	4	116
Napanee.....	9	12	7	101	5	4	6	3	147
Orangeville.....	3	2	1	20	6	.....	6	5	43
Ottawa.....	15	332	70	1,086	186	42	109	178	2,018
Owen Sound.....	7	9	7	103	3	6	.....	.....	135
Pembroke.....	7	3	9	180	.....	7	1	2	209
Perth.....	6	8	7	88	7	2	3	36	157
Peterborough.....	16	18	8	202	81	4	1	1	331
Pictou.....	6	2	3	58	2	.....	1	3	75
St. Catharines.....	13	21	6	210	99	4	10	.....	363
St. Thomas.....	39	95	9	256	30	4	5	23	461
Sarnia.....	14	25	21	199	15	0	15	5	294
Simcoe.....	51	23	8	278	138	16	3	.....	517
Stratford.....	19	18	2	51	31	.....	1	.....	122
Toronto*.....	157	3,685	825	3,982	1,793	33	210	224	10,909
Walkerton.....	19	4	4	82	10	2	3	1	125
Welland.....	41	31	35	173	99	87	72	24	562
Whitby.....	24	16	19	147	78	1	1	81	367
Windsor.....	29	98	38	308	242	42	425	8	1,190
Woodstock.....	14	19	13	145	24	.....	.....	.....	215
DISTRICT GAOLS									
Fort Frances.....	4	20	9	262	1	6	2	20	324
Haileybury.....	7	27	38	593	31	10	.....	8	714
Kenora.....	12	32	45	245	77	10	31	31	483
North Bay.....	31	42	45	380	83	5	43	9	638
Parry Sound.....	9	20	9	254	6	17	19	.....	334
Port Arthur.....	19	27	192	1,488	192	2	2	5	1,927
Sault Ste. Marie.....	7	50	49	185	39	12	11	5	358
Sudbury.....	24	22	99	1,057	61	.....	5	25	1,293
TOTALS.....	1,036	5,329	2,105	17,240	4,202	440	1,123	1,066	32,541

\*City gaols.

## No. 4

## EDUCATIONAL STATUS AND HABITS

CITY AND COUNTY GAOLS	MARRIED			UNMARRIED			TOTAL
	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	
Barrie.....	255	14	269	353	19	372	641
Belleville.....	243	30	273	383	10	393	666
Brampton.....	92	2	94	95	1	96	190
Brantford.....	146	10	156	215	6	221	377
Brockville.....	95	7	102	195	18	213	315
Cayuga.....	79	6	85	116	1	117	202
Chatham.....	71	13	84	361	19	380	464
Cobourg.....	80	7	87	126	9	135	222
Cornwall.....	123	8	131	216	11	227	358
Goderich.....	22	3	25	41	1	42	67
Guelph.....	137	4	141	220	10	230	371
Hamilton*.....	764	91	855	1,000	83	1,083	1,938
Kingston.....	117	13	130	219	7	226	356
Kitchener.....	152	18	170	200	24	224	394
Lindsay.....	78	8	86	111	6	117	203
London.....	468	62	530	701	24	725	1,255
L'Orignal.....	37	1	38	55	2	57	95
Milton.....	36	4	40	70	6	76	116
Napanee.....	74	6	80	66	1	67	147
Orangeville.....	22		22	20	1	21	43
Ottawa.....	649	91	740	1,156	122	1,278	2,018
Owen Sound.....	60	5	65	68	2	70	135
Pembroke.....	73	4	77	126	6	132	209
Perth.....	50	4	54	98	5	103	157
Peterborough.....	126	1	127	197	7	204	331
Pieton.....	33	3	36	37	2	39	75
St. Catharines.....	148	4	152	206	5	211	363
St. Thomas.....	174	4	178	277	6	283	461
Sarnia.....	104	8	112	169	13	182	294
Simcoe.....	189	9	198	316	3	319	517
Stratford.....	48		48	71	3	74	122
Toronto*.....	4,069	751	4,820	5,664	425	6,089	10,909
Walkerton.....	47	2	49	74	2	76	125
Wells.....	172	14	186	368	8	376	562
Whitby.....	173	17	190	172	5	177	367
Windsor.....	412	72	484	624	82	706	1,190
Woodstock.....	86	9	95	115	5	120	215
DISTRICT GAOLS							
Fort Frances.....	127	4	131	191	2	193	324
Haileybury.....	213	30	243	462	9	471	714
Kenora.....	117	16	133	333	17	350	483
North Bay.....	183	22	205	409	24	433	638
Parry Sound.....	97	10	107	218	9	227	334
Port Arthur.....	424	87	511	1,311	105	1,416	1,927
Sault Ste. Marie.....	111	23	134	188	36	224	358
Sudbury.....	396	62	458	795	40	835	1,293
TOTALS.....	11,372	1,559	12,931	18,408	1,202	19,610	32,541

\*City gaols.

TABLE  
OCCUPATION, SOCIAL STATUS

CITY AND COUNTY GAOLS	ILLITERATE			ELEMENTARY EDUCATION			ADVANCED EDUCATION			TOTAL
	M.	F.	T.	M.	F.	T.	M.	F.	T.	
Barrie.....	14	2	16	551	26	577	43	5	48	641
Belleville.....	3	4	7	394	34	428	229	2	231	666
Brampton.....	1	.....	1	179	3	182	7	.....	7	190
Brantford.....	.....	2	2	353	14	367	8	.....	8	377
Brockville.....	5	1	6	235	21	256	50	3	53	315
Cayuga.....	5	.....	5	168	5	173	22	2	24	202
Chatham.....	3	.....	3	306	24	330	123	8	131	464
Cobourg.....	4	.....	4	181	9	190	21	7	28	222
Cornwall.....	59	3	62	256	13	269	24	3	27	358
Goderich.....	.....	.....	.....	51	4	55	12	.....	12	67
Guelph.....	.....	.....	.....	351	12	363	6	2	8	371
Hamilton*.....	9	.....	9	1,494	143	1,637	261	31	292	1,938
Kingston.....	1	.....	1	324	20	344	11	.....	11	356
Kitchener.....	4	.....	4	303	38	341	45	4	49	394
Lindsay.....	7	.....	7	156	12	168	26	2	28	203
London.....	19	2	21	919	43	962	231	41	272	1,255
L'Orignal.....	6	1	7	83	2	85	3	.....	3	95
Milton.....	4	.....	4	82	7	89	20	3	23	116
Napanee.....	2	.....	2	135	7	142	3	.....	3	147
Orangeville.....	.....	.....	.....	39	1	40	3	.....	3	43
Ottawa.....	120	4	124	1,105	145	1,250	580	64	644	2,018
Owen Sound.....	9	.....	9	15	5	20	104	2	106	135
Pembroke.....	1	.....	1	196	9	205	2	1	3	209
Perth.....	1	.....	1	88	1	89	59	8	67	157
Peterborough.....	11	.....	11	304	8	312	8	.....	8	331
Pictou.....	6	1	7	64	4	68	.....	.....	.....	75
St. Catharines.....	7	.....	7	346	9	355	1	.....	1	363
St. Thomas.....	7	.....	7	442	10	452	2	.....	2	461
Sarnia.....	3	.....	3	218	21	239	52	.....	52	294
Simcoe.....	8	.....	8	449	11	460	48	1	49	517
Stratford.....	.....	.....	.....	119	3	122	.....	.....	.....	122
Toronto*.....	31	12	43	9,702	1,164	10,866	.....	.....	.....	10,909
Walkerton.....	1	.....	1	99	4	103	21	.....	21	125
Welland.....	3	.....	3	408	14	422	129	8	137	562
Whitby.....	3	1	4	340	21	361	2	.....	2	367
Windsor.....	20	4	24	811	126	937	205	24	229	1,190
Woodstock.....	.....	.....	.....	201	14	215	.....	.....	.....	215
DISTRICT GAOLS										
Fort Frances.....	9	1	10	309	5	314	.....	.....	.....	324
Haileybury.....	53	9	62	597	29	626	25	1	26	714
Kenora.....	23	3	26	417	30	447	10	.....	10	483
North Bay.....	77	10	87	505	36	541	10	.....	10	638
Parry Sound.....	11	1	12	301	18	319	3	.....	3	334
Port Arthur.....	58	5	63	1,592	163	1,755	85	24	109	1,927
Sault Ste. Marie.....	27	6	33	228	48	276	44	5	49	358
Sudbury.....	29	2	31	1,162	100	1,262	.....	.....	.....	1,293
TOTALS.....	664	74	738	26,578	2,436	29,014	2,538	251	2,789	32,541

\*City gaols.

No. 4 (Cont'd)

EDUCATIONAL STATUS AND HABITS

CITY AND COUNTY GAOLS	ABSTAINERS			TEMPERATE			INTEMPERATE		
	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL
Barrie .....	1	.....	1	304	18	322	303	15	318
Belleville.....	8	4	12	450	22	472	168	14	182
Brampton.....	14	1	15	24	2	26	149	.....	149
Brantford.....	29	4	33	57	4	61	275	8	283
Brockville.....	45	16	61	58	9	67	187	.....	187
Cayuga.....	16	1	17	41	1	42	138	5	143
Chatham.....	76	9	85	93	14	107	263	9	272
Cobourg.....	3	.....	3	52	9	61	151	7	158
Cornwall.....	12	9	21	70	4	74	257	6	263
Goderich.....	.....	.....	.....	43	2	45	20	2	22
Guelph.....	.....	.....	.....	137	12	149	220	2	222
Hamilton*.....	182	63	245	487	71	558	1,095	40	1,135
Kingston.....	6	.....	6	155	14	169	175	6	181
Kitchener.....	38	5	43	109	12	121	205	25	230
Lindsay.....	5	3	8	38	2	40	146	9	155
London.....	254	17	271	312	29	341	603	40	643
L'Orignal.....	23	2	25	52	.....	52	17	1	18
Milton.....	2	1	3	21	7	28	83	2	85
Napanee.....	7	2	9	33	3	36	100	2	102
Orangeville.....	2	.....	2	15	.....	15	25	1	26
Ottawa.....	124	41	165	758	88	846	923	84	1,007
Owen Sound.....	20	2	22	.....	2	2	108	3	111
Pembroke.....	.....	.....	.....	24	1	25	175	9	184
Perth.....	15	.....	15	66	7	73	67	2	69
Peterborough.....	21	6	27	171	2	173	131	.....	131
Pictou.....	.....	.....	.....	5	.....	5	65	5	70
St. Catharines.....	.....	.....	.....	71	3	74	283	6	289
St. Thomas.....	6	1	7	367	9	376	78	.....	78
Sarnia.....	20	6	26	70	7	77	183	8	191
Simcoe.....	12	2	14	90	7	97	403	3	406
Stratford.....	5	2	7	40	1	41	74	.....	74
Toronto*.....	.....	.....	.....	2,164	328	2,492	7,569	848	8,417
Walkerton.....	2	.....	2	26	2	28	93	2	95
Welland.....	2	3	5	240	16	256	298	3	301
Whitby.....	2	2	4	114	5	119	229	15	244
Windsor.....	16	5	21	343	90	433	679	59	736
Woodstock.....	1	7	8	51	3	54	149	4	153
DISTRICT GAOLS									
Fort Frances.....	.....	.....	.....	113	2	115	205	4	209
Haileybury.....	4	3	7	375	21	396	296	15	314
Kenora.....	55	9	64	175	10	185	220	14	234
North Bay.....	.....	.....	.....	76	15	91	516	31	547
Parry Sound.....	.....	.....	.....	52	7	59	263	12	275
Port Arthur.....	.....	.....	.....	280	53	333	1,455	139	1,594
Sault Ste. Marie.....	27	9	36	64	16	80	208	34	242
Sudbury.....	.....	.....	.....	106	17	123	1,085	85	1,170
TOTALS.....	1,055	235	1,290	8,392	947	9,339	20,333	1,579	21,912

\*City gaols.

**TABLE**  
**PRISONERS TRANSFERRED**

CITY AND COUNTY GAOLS	SENTENCED TO GAOL AND AFTERWARDS REMOVED TO A REFORMATORY		SENTENCED TO GAOL AND AFTERWARDS REMOVED TO AN INDUSTRIAL FARM	SENTENCED TO AND REMOVED TO A REFORMATORY		SENTENCED TO AND REMOVED TO AN INDUSTRIAL FARM	SENTENCED TO AND REMOVED TO A PENTENTIARY		
	M.	F.	M.	M.	F.	M.	M.	F.	T.
Barrie.....	36	.....	13	6	1	1	5	.....	5
Belleville.....	.....	.....	.....	9	.....	16	10	.....	10
Brampton.....	1	.....	.....	2	.....	2	3	.....	3
Brantford.....	.....	.....	.....	14	.....	28	9	.....	9
Brockville.....	.....	.....	.....	54	3	.....	8	.....	8
Cayuga.....	1	.....	.....	14	.....	3	.....	.....	.....
Chatham.....	.....	.....	.....	24	5	17	8	.....	8
Cobourg.....	.....	.....	.....	9	3	.....	5	.....	5
Cornwall.....	7	.....	.....	40	.....	.....	6	.....	6
Goderich.....	.....	.....	.....	3	.....	1	6	.....	6
Guelph.....	1	.....	1	16	1	12	2	.....	2
Hamilton*.....	245	16	.....	98	11	.....	33	4	37
Kingston.....	3	.....	.....	23	1	.....	8	.....	8
Kitchener.....	5	2	4	19	3	6	15	1	16
Lindsay.....	1	.....	.....	13	1	.....	3	.....	3
London.....	5	1	28	60	8	.....	10	.....	10
L'Orignal.....	.....	.....	.....	6	.....	.....	8	.....	8
Milton.....	.....	.....	.....	6	2	4	.....	.....	.....
Napanee.....	2	.....	2	.....	1	.....	.....	.....	.....
Orangeville.....	1	.....	2	2	1	.....	1	.....	1
Ottawa.....	1	.....	1	64	17	40	27	2	29
Owen Sound.....	.....	.....	.....	10	.....	2	3	.....	3
Pembroke.....	6	.....	6	.....	.....	.....	4	.....	4
Perth.....	.....	.....	.....	7	.....	.....	1	.....	1
Peterborough.....	.....	.....	.....	17	.....	.....	3	.....	3
Picton.....	.....	.....	.....	5	1	.....	.....	.....	.....
St. Catharines.....	22	3	.....	.....	.....	.....	7	.....	7
St. Thomas.....	.....	.....	.....	13	2	8	1	.....	1
Sarnia.....	.....	1	11	.....	.....	.....	3	.....	3
Simcoe.....	.....	.....	.....	12	.....	7	1	.....	1
Stratford.....	.....	.....	.....	8	.....	6	1	.....	1
Toronto*.....	2,472	164	441	.....	.....	.....	138	3	141
Walkerton.....	.....	.....	.....	6	.....	.....	3	.....	3
Welland.....	3	1	.....	47	2	.....	12	.....	12
Whitby.....	15	2	.....	7	.....	5	3	.....	3
Windsor.....	.....	2	6	88	17	45	30	.....	30
Woodstock.....	1	.....	.....	7	2	3	8	.....	8
DISTRICT GAOLS									
Fort Frances.....	1	.....	2	3	.....	1	1	.....	1
Haileybury.....	42	4	42	8	6	1	15	.....	15
Kenora.....	24	1	13	.....	.....	.....	7	.....	7
North Bay.....	.....	.....	.....	23	1	37	7	.....	7
Parry Sound.....	29	.....	.....	.....	.....	.....	8	.....	8
Port Arthur.....	13	4	22	48	5	42	42	2	44
Sault Ste. Marie.....	3	.....	.....	5	1	10	3	.....	3
Sudbury.....	12	.....	71	40	10	8	26	.....	26
TOTALS.....	2,952	201	665	836	105	305	494	12	506

\*City gaols.

No. 5

TO OTHER INSTITUTIONS

CITY AND COUNTY GAOLS	SENTENCED TO AND REMOVED TO AN INDUSTRIAL REFUGE			TRANSFERRED TO AN INDUSTRIAL SCHOOL			TRANSFERRED TO A MENTAL HOSPITAL OR TO SOME OTHER PLACE OF CONFINEMENT			TOTAL		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Barrie				1		1	2	2	4	64	3	67
Belleville		1	1	1		1	24	6	30	66	7	67
Brampton				1		1	1		1	10		10
Brantford		2	2	1		1	5	2	7	57	4	61
Brockville				2		2	4	4	8	68	7	75
Cayuga							1	1	2	19	1	20
Chatham				2		2	11	7	18	62	12	74
Cobourg				2	3	5	4	2	6	20	8	28
Cornwall	4	2	6	3	2	5	8	2	10	68	6	74
Goderich							3		3	13		13
Guelph	1		1	3	1	4	7	2	9	43	4	47
Hamilton*				2		2	44	9	53	422	40	462
Kingston							1		1	35	1	36
Kitchener		1	1				11	6	17	60	13	73
Lindsay				1		1	6	1	7	24	2	26
London				5	1	6	2		2	110	10	120
L'Orignal								2	2	14	2	16
Milton							3		3	13	2	15
Napanee							3		3	7	1	8
Orangeville										6	1	7
Ottawa							1	1	2	134	20	154
Owen Sound							2	1	3	17	1	18
Pembroke							3		3	19		19
Perth										8		8
Peterborough							5		5	25		25
Picton							3		3	8	1	9
St. Catharines							5		5	34	3	37
St. Thomas							6	1	7	28	3	31
Sarnia				1	4	5	2	1	3	17	6	23
Simcoe				1		1	3		3	24		24
Stratford										15		15
Toronto*					1	1	89	24	113	3,140	192	3,332
Walkerton							1		1	10		10
Welland							18	2	20	80	5	85
Whitby							4		4	34	2	36
Windsor		2	2	1		1	20	2	22	190	23	213
Woodstock		1	1				7	2	9	26	5	31
DISTRICT GAOLS												
Fort Frances	1		1	1		1	18		18	28		28
Haileybury							39	4	43	147	14	161
Kenora				2		2	5	2	7	51	3	54
North Bay					5	7	24	11	35	93	17	110
Parry Sound				4		4	5	5	10	46	5	51
Port Arthur					1	1				167	12	179
Sault Ste. Marie		2	2	3	1	4	5	5	10	29	9	38
Sudbury				8	1	9	31	10	41	196	21	217
TOTALS	6	11	17	47	20	67	436	117	553	5,741	466	6,207

\*City gaols.

TABLE  
PERIOD OF SENTENCES—TO GAOLS

CITY AND COUNTY GAOLS	SUSPENDED SENTENCES			UNDER 30 DAYS			30 DAYS AND UNDER 60 DAYS			60 DAYS OR UNDER 90 DAYS		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Barrie.....	44	3	47	146	2	148	47	.....	47	30	1	31
Belleville.....	65	7	72	318	14	332	97	2	99	12	.....	12
Brampton.....	40	1	41	21	.....	21	6	.....	6	2	.....	2
Brantford.....	51	3	54	105	.....	105	31	2	33	4	.....	4
Brockville.....	30	4	34	170	14	184	19	.....	19	10	.....	10
Cayuga.....	12	.....	12	72	3	75	24	.....	24	4	.....	4
Chatham.....	66	5	71	119	6	125	54	5	59	57	.....	57
Cobourg.....	13	.....	13	89	5	94	15	1	16	13	.....	13
Cornwall.....	30	2	32	109	4	113	37	.....	37	9	.....	9
Goderich.....	10	1	11	9	1	10	2	.....	2	2	.....	2
Guelph.....	13	.....	13	50	.....	50	167	3	170	30	.....	30
Hamilton*.....	110	28	138	434	19	453	321	20	341	94	5	99
Kingston.....	23	4	27	145	5	150	34	1	35	15	.....	15
Kitchener.....	43	13	56	121	1	122	27	4	31	34	3	37
Lindsay.....	13	4	17	112	7	119	13	.....	13	5	.....	5
London.....	55	10	65	525	41	566	130	4	134	17	4	21
L'Orignal.....	6	.....	6	14	.....	14	9	.....	9	11	.....	11
Milton.....	10	3	13	38	2	40	12	.....	12	6	.....	6
Napanee.....	12	.....	12	32	.....	32	9	.....	9	2	.....	2
Orangeville.....	3	.....	3	7	.....	7	6	.....	6	.....	.....	.....
Ottawa.....	103	19	122	975	96	1,071	171	15	186	67	4	71
Owen Sound.....	9	1	10	55	1	56	16	.....	16	8	1	9
Pembroke.....	.....	.....	.....	116	4	120	24	1	25	6	.....	6
Perth.....	6	.....	6	51	2	53	21	.....	21	13	.....	13
Peterborough.....	22	3	25	120	4	124	57	.....	57	12	.....	12
Pictou.....	6	.....	6	29	1	30	6	.....	6	2	.....	2
St. Catharines.....	2	1	3	209	3	212	31	1	32	12	.....	12
St. Thomas.....	17	2	19	206	2	208	30	.....	30	3	.....	3
Sarnia.....	19	5	24	127	4	131	55	2	57	10	2	12
Simcoe.....	32	2	34	114	4	118	17	.....	17	7	.....	7
Stratford.....	8	.....	8	41	1	42	15	.....	15	3	.....	3
Toronto*.....	875	144	1,019	1,948	233	2,181	2,040	234	2,274	989	99	1,088
Walkerton.....	9	2	11	16	1	17	17	1	18	10	.....	10
Welland.....	44	1	45	128	2	130	90	.....	90	31	1	32
Whitby.....	40	1	41	156	10	166	46	1	47	5	.....	5
Windsor.....	137	8	145	344	11	355	128	39	167	27	21	48
Woodstock.....	6	1	7	94	5	99	14	.....	14	4	.....	4
DISTRICT GAOLS												
Fort Frances.....	36	2	38	147	4	151	37	.....	37	26	.....	26
Haileybury.....	5	.....	5	186	9	195	157	4	161	49	5	54
Kenora.....	33	4	37	194	9	203	40	7	47	37	6	43
North Bay.....	33	2	35	243	14	257	93	6	99	12	.....	12
Parry Sound.....	6	4	10	140	6	146	45	2	47	17	.....	17
Port Arthur.....	25	8	33	677	46	723	534	63	597	74	16	90
Sault Ste. Marie.....	15	2	17	90	19	109	47	3	50	18	4	22
Sudbury.....	164	11	175	329	14	343	128	12	140	43	4	47
TOTALS.....	2,301	311	2,612	9,371	629	10,000	4,919	433	5,352	1,842	176	2,018

\*City gaols.

## No. 6

## REFORMATORIES, PENITENTIARIES OR ELSEWHERE

CITY AND COUNTY GAOLS	3 MONTHS			4 MONTHS			5 MONTHS			6 MONTHS AND UNDER 9 MONTHS		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Barrie.....	28		28	12		12	4		4	8		8
Belleville.....	29	1	30							10		10
Brampton.....							1		1	2		2
Brantford.....	25		25	1		1				5		5
Brockville.....	3		3		1	1						
Cayuga.....	10		10	1		1						
Chatham.....	18	1	19							16	2	18
Cobourg.....	12	1	13	1		1				3		3
Cornwall.....	12		12	2		2	1		1	10		10
Goderich.....	2		2									
Guelph.....	33	1	34							4		4
Hamilton*.....	156	5	161	39	1	40	8		8	54	1	55
Kingston.....	35	1	36							4		4
Kitchener.....	11	1	12	6	2	8				8		8
Lindsay.....	2	1	3							1		1
London.....	47	1	48	2		2	1		1	16	2	18
L'Orignal.....	7		7	1		1				1		1
Milton.....	8	1	9	1		1				2		2
Napanee.....	6		6									
Orangeville.....	3		3							2		2
Ottawa.....	86	12	98	4		4	1		1	14	1	15
Owen Sound.....	7		7	2		2				2		2
Pembroke.....	10		10							2		2
Perth.....	8		8	2		2	1		1	1		1
Peterborough.....	39		39							2		2
Pictou.....										1		1
St. Catharines.....	6		6		1	1	2		2	11	2	13
St. Thomas.....	14		14									
Sarnia.....	10	1	11	2		2	3		3	1		1
Simcoe.....	4		4							1		1
Stratford.....	5		5							3		3
Toronto*.....	729	59	788	67	3	70	13		13	220	28	248
Walkerton.....	7		7	2		2						
Welland.....	19	1	20	11	2	13	4		4	11		11
Whitby.....	21	5	26	6		6				6		6
Windsor.....	48	3	51	3	1	4	3		3	8		8
Woodstock.....	6		6				1		1	2		2
DISTRICT GAOLS												
Fort Frances.....	13		13	6		6	1		1	4		4
Haileybury.....	107	9	116	7		7	1	1	2	28		28
Kenora.....	35		35	6		6				10		10
North Bay.....	45	1	46	12		12	5		5	19		19
Parry Sound.....	32	1	33				1		1	5		5
Port Arthur.....	152	23	175	25	4	29	2	1	3	34	3	37
Sault Ste. Marie.....	4	1	5	3		3	2		2	12	2	14
Sudbury.....	40	1	41	10		10	5		5	15	1	16
TOTALS.....	1,894	131	2,025	234	15	249	60	2	62	558	42	600

\*City gaols.



TABLE

## PERIOD OF SENTENCES—TO GAOLS

CITY AND COUNTY GAOLS	9 MONTHS AND UNDER 12 MONTHS			12 MONTHS AND UNDER 18 MONTHS			18 MONTHS AND UNDER 24 MONTHS			INDETERMINATE WITH DEFINITE OR OTHER SENTENCES		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Barrie.....	1		1	16		16	5		5	11	2	13
Belleville.....				1		1				15		15
Brampton.....				1		1	1		1	2		2
Brantford.....				3		3				29	4	33
Brockville.....										35	2	37
Cayuga.....				2		2				13		13
Chatham.....				6		6	9		9	22	7	29
Cobourg.....				1		1	1		1	5	2	7
Cornwall.....	1		1	5		5	3		3	26	4	30
Goderich.....										4		4
Guelph.....	6		6							16	1	17
Hamilton*.....	15		15	40		40	9		9	116	18	134
Kingston.....										25	3	28
Kitchener.....				2	1	3	2	1	3	22	1	23
Lindsay.....							2		2	11	1	12
London.....		1	1	15		15	7		7	44	2	46
L'Orignal.....		1	1							5	1	6
Milton.....				1		1		1	1	6	1	7
Napanee.....										5		5
Orangeville.....				1		1	2		2		1	1
Ottawa.....	1	1	2							111	24	135
Owen Sound.....										9		9
Pembroke.....				3		3				12		12
Perth.....				2		2	1		1			
Peterborough.....				1		1				18		18
Picton.....				1		1				5	1	6
St. Catharines.....				10		10	1		1	10		10
St. Thomas.....							1		1	24	2	26
Sarnia.....	3		3							7	3	10
Simcoe.....				1		1				19		19
Stratford.....	4	1	5							6		6
Toronto*.....	41	5	46	147	9	156	70	3	73	249	6	255
Walkerton.....				1		1				5		5
Welland.....	2		2	9		9	1		1	18		18
Whitby.....					1	1				12		12
Windsor.....	6		6	7	1	8	7		7	111	18	129
Woodstock.....				5		5				6	1	7
DISTRICT GAOLS												
Fort Frances.....				5		5	2		2	3		3
Haileybury.....	4		4	30		30	11		11	7	6	13
Kenora.....	1		1	6		6	2		2	30	2	32
North Bay.....	3		3	16		16	4		4	5	5	10
Parry Sound.....				2	1	3	1		1	22		22
Port Arthur.....	11		11	25	1	26	14	3	17	8	2	10
Sault Ste. Marie.....				5		5	6		6	7	10	17
Sudbury.....	7	1	8	3		3	2	1	3	22	1	23
TOTALS.....	106	10	116	373	14	387	164	9	173	1,138	131	1,269

\*City gaols.

No. 6 (Concl'd)

REFORMATORIES, PENITENTIARIES OR ELSEWHERE

CITY AND COUNTY GAOLS	2 YEARS AND OVER TO PENITENTIARIES			SENTENCED TO DEATH			SENTENCED TO DEATH BUT SENTENCE COMMUTED			TOTALS		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Barrie.....	5		5							357	8	365
Belleville.....	12		12							559	24	583
Brampton.....	3		3							79	1	80
Brantford.....	9		9							263	9	272
Brockville.....	8		8							275	21	296
Cayuga.....	1		1							139	3	142
Chatham.....	8		8							375	26	401
Cobourg.....	5		5							158	9	167
Cornwall.....	6		6							251	10	261
Goderich.....	6		6							35	2	37
Guelph.....	2		2							321	5	326
Hamilton*.....	33	4	37							1,429	101	1,530
Kingston.....	8		8							289	14	303
Kitchener.....	16	1	17							292	28	320
Lindsay.....	3		3							162	13	175
London.....	11		11							870	65	935
L'Orignal.....	7		7							61	2	63
Milton.....										84	8	92
Napanee.....										66		66
Orangeville.....	1		1							25	1	26
Ottawa.....	27	2	29							1,560	174	1,734
Owen Sound.....	3		3							111	3	114
Pembroke.....	2		2							175	5	180
Perth.....	1		1							107	2	109
Peterborough.....	3		3							274	7	281
Picton.....										50	2	52
St. Catharines.....	7		7	1		1				302	8	310
St. Thomas.....	2		2							297	6	303
Sarnia.....	3		3	1		1				241	17	258
Simcoe.....	1		1							196	6	202
Stratford.....	1		1							86	2	88
Toronto*.....	114	3	117	1		1				7,503	826	8,329
Walkerton.....	3		3							70	4	74
Welland.....	13		13	1	1	2				382	8	390
Whitby.....	4		4	1		1				297	18	315
Windsor.....	33		33							862	102	964
Woodstock.....	8		8							146	7	153
DISTRICT GAOLS												
Fort Frances.....										280	6	286
Haileybury.....	15		15							607	34	641
Kenora.....	7		7							401	28	429
North Bay.....	7		7							497	28	525
Parry Sound.....	8		8							279	14	293
Port Arthur.....	39	2	41							1,620	172	1,792
Sault Ste. Marie.....	3		3							212	41	253
Sudbury.....	26		26							794	46	840
TOTALS.....	474	12	486	5	1	6				23,439	1,916	25,355

\*City gaols.

TABLE

CELL ACCOMMODATION; DAYS' STAY; GREATEST, LEAST AND

CITY AND COUNTY GAOLS	MALE ACCOMMODATION	FEMALE ACCOMMODATION	GREATEST NUMBER OF MALE AND FEMALE PRISONERS DURING YR.	GREATEST NUMBER OF MALE PRISONERS DURING YEAR	GREATEST NUMBER OF FEMALE PRISONERS DURING YEAR	LEAST NUMBER OF MALE AND FEMALE PRISONERS DURING YR.	LEAST NUMBER OF MALE PRISONERS DURING YEAR	LEAST NUMBER OF FEMALE PRISONERS DURING YEAR	AVERAGE DAILY GAOL POPULATION
Barrie.....	24	8	48	47	5	21	17	.....	29.7
Belleville.....	18	6	39	38	3	14	13	.....	24.6
Brampton.....	24	8	9	12	1	3	1	.....	4.4
Brantford.....	24	8	34	33	2	8	8	.....	19.6
Brockville.....	24	4	23	22	4	11	5	.....	13.8
Cayuga.....	10	4	16	22	1	2	1	.....	7.8
Chatham.....	35	6	62	60	6	17	17	.....	30.9
Cobourg.....	22	6	21	20	2	6	3	.....	9.9
Cornwall.....	18	4	36	35	3	12	11	.....	23.
Goderich.....	9	3	11	11	2	1	1	.....	4.4
Guelph.....	28	6	31	31	2	5	5	.....	17.1
Hamilton*.....	81	13	130	123	20	59	51	2	95.7
Kingston.....	33	15	31	30	3	10	9	.....	22.8
Kitchener.....	43	5	28	28	5	7	6	.....	17.5
Lindsay.....	30	6	27	26	4	2	.....	.....	5.8
London.....	72	9	94	90	10	35	32	.....	59.
L'Orignal.....	18	6	14	13	2	1	1	.....	6.5
Milton.....	17	6	11	13	3	1	.....	.....	6.5
Napanee.....	19	5	15	15	2	.....	.....	.....	5.1
Orangeville.....	18	5	5	5	1	.....	.....	.....	2.1
Ottawa.....	120	24	107	96	16	60	55	3	84.8
Owen Sound.....	34	6	17	18	2	7	3	.....	8.5
Pembroke.....	24	8	21	19	2	3	2	.....	11.
Perth.....	18	6	20	20	2	1	1	.....	9.3
Peterborough.....	18	6	31	32	2	13	12	.....	19.2
Pieton.....	15	3	6	8	2	.....	.....	.....	2.9
St. Catharines.....	45	8	32	29	3	5	4	.....	14.5
St. Thomas.....	13	4	27	27	3	6	6	.....	15.1
Sarnia.....	32	6	22	21	4	5	4	.....	14.3
Simcoe.....	20	5	29	28	8	3	3	1	12.9
Stratford.....	26	4	18	17	1	2	1	.....	8.
Toronto*.....	248	39	423	367	56	181	160	20	341.22
Walkerton.....	28	4	13	13	1	2	2	.....	7.
Welland.....	15	9	60	60	5	17	16	.....	33.5
Whitby.....	25	6	30	29	3	9	7	.....	15.9
Windsor.....	88	21	125	117	22	48	41	3	83.5
Woodstock.....	28	5	18	20	4	5	4	.....	9.2
DISTRICT GAOLS									
Fort Frances.....	8	2	22	22	3	2	2	1	10.5
Haileybury.....	31	3	96	93	10	40	39	.....	69.4
Kenora.....	22	6	61	57	7	12	12	.....	29.8
North Bay.....	50	9	75	67	9	19	16	2	38.8
Parry Sound.....	20	2	34	33	3	9	9	.....	18.8
Port Arthur.....	82	9	176	159	24	102	74	6	133.6
Sault Ste. Marie.....	20	3	33	27	8	11	8	1	19.9
Sudbury.....	59	10	95	86	9	20	19	1	52.7

\*City gaols.

## No. 7

## AVERAGE NUMBER OF PRISONERS—For the Year Ending March 31, 1947

CITY AND COUNTY GAOLS	NUMBER COMMITTED DURING YEAR	NUMBER PAID FOR BY PROVINCE	NUMBER PAID FOR BY MUNICIPALITY	NUMBER OF DAYS' STAY OF GOVERNMENT PRISONERS	NUMBER OF DAYS' STAY OF MUNICIPALITY PRISONERS	TOTAL NUMBER OF DAYS' STAY OF ALL PRISONERS
Barrie.....	641	173	468	5,935	4,908	10,843
Belleville.....	666	88	578	2,885	6,096	8,981
Brampton.....	190	52	138	452	1,150	1,602
Brantford.....	377	125	252	2,491	4,683	7,174
Brockville.....	315	112	203	1,949	3,100	5,049
Cayuga.....	202	40	162	1,466	1,392	2,858
Chatham.....	464	114	350	3,919	7,349	11,268
Cobourg.....	222	61	161	1,435	2,177	3,612
Cornwall.....	358	49	309	3,025	5,368	8,393
Goderich.....	67	37	30	968	654	1,622
Guelph.....	371	66	305	2,074	4,180	6,254
Hamilton*.....	1,938	627	1,311	10,255	24,683	34,938
Kingston.....	356	134	222	3,585	4,357	7,942
Kitchener.....	394	124	270	2,366	4,038	6,404
Lindsay.....	203	38	165	630	1,490	2,120
London.....	1,255	188	1,067	7,357	14,193	21,550
L'Orignal.....	95	23	72	1,183	1,191	2,374
Milton.....	116	29	87	959	1,398	2,357
Napanea.....	147	28	119	734	1,112	1,846
Orangeville.....	43	11	32	311	465	776
Ottawa.....	2,018	441	1,577	12,012	18,932	30,944
Owen Sound.....	135	47	88	1,513	1,593	3,106
Pembroke.....	209	33	176	1,637	2,367	4,004
Perth.....	157	31	126	1,340	2,071	3,411
Peterborough.....	331	45	286	1,549	5,445	6,994
Picton.....	75	16	59	368	699	1,067
St. Catharines.....	363	83	280	1,684	3,604	5,288
St. Thomas.....	461	74	387	1,848	3,662	5,510
Sarnia.....	294	36	258	1,874	3,340	5,214
Simcoe.....	517	90	427	1,484	3,245	4,729
Stratford.....	122	10	112	1,518	1,411	2,929
Toronto*.....	10,909	2,004	8,905	34,593	89,953	124,546
Walkerton.....	125	55	70	1,291	1,258	2,549
Welland.....	562	133	429	3,836	8,387	12,223
Whitby.....	367	46	321	1,810	4,001	5,811
Windsor.....	1,190	310	880	13,839	16,631	30,470
Woodstock.....	215	23	192	1,154	2,208	3,362
DISTRICT GAOLS						
Fort Frances.....	324	223	101	3,441	378	3,819
Haileybury.....	714	714	.....	25,319	.....	25,319
Kenora.....	483	483	.....	10,884	.....	10,884
North Bay.....	638	638	.....	14,170	.....	14,170
Parry Sound.....	334	334	.....	6,851	.....	6,851
Port Arthur.....	1,927	305	1,622	12,641	36,144	48,785
Sault Ste. Marie.....	358	358	.....	7,273	.....	7,273
Sudbury.....	1,293	1,293	.....	19,237	.....	19,237
TOTALS.....	32,541	9,944	22,597	237,145	299,313	5,364,458

\*City gaols.

TABLE No. 8

MAINTENANCE AND AVERAGE COST OF EACH PRISONER AND TOTAL COST FOR YEAR IN CITY, COUNTY AND DISTRICT GAOLS

CITY AND COUNTY GAOLS	Cost of Food		Cost of Clothing, Fuel and Ordinary Maintenance		Cost of Officers' Salaries		Cost of Alterations, Additions and Repairs to Buildings		Total Expenditure for Maintenance for the Year		Average Cost of Each Prisoner per Day		Average Cost per Day for Clothing, Fuel and Ordinary Maintenance		Daily per Capita Dietary Cost	
	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.
Barrie.....	2,168.79		6,127.44		15,222.64		3,453.46		26,972.33		2.49		.5651		.2000	
Belleville.....	1,693.99		1,873.76		7,430.29		267.00		11,265.04		1.23		.2086		.1886	
Brampton.....	318.06		946.32		6,428.55		478.70		8,171.63		5.10		.5907		.1985	
Brantford.....	1,720.38		1,608.07		11,702.39		300.00		15,330.84		2.14		.2241		.2398	
Brockville.....	935.84		1,542.65		9,860.46		53.95		12,392.90		2.45		.3055		.1854	
Cayuga.....	707.21		640.62		7,500.43		150.09		9,088.35		3.18		.2241		.2474	
Chatham.....	2,164.98		4,645.08		11,138.71		458.60		18,407.37		1.63		.4122		.1912	
Cobourg.....	667.40		2,239.63		7,153.72		291.21		10,351.96		2.87		.6200		.1875	
Cornwall.....	1,745.00		2,396.01		12,731.60		587.32		17,459.93		2.08		.2855		.2079	
Goderich.....	304.61		901.13		6,656.65		323.56		8,185.95		5.11		.5617		.1878	
Guelph.....	1,079.43		889.29		7,881.63				9,850.35		1.58		.1422		.1726	
Hamilton*.....	7,332.45		5,059.00		36,369.76		1,257.00		50,018.21		1.43		.1448		.2099	
Kingston.....	1,768.92		1,871.86		9,650.51		1,027.84		14,319.13		1.80		.2358		.2227	
Kitchener.....	1,236.97		2,306.43		12,136.29		5,075.94		20,755.63		3.24		.3602		.1932	
Lindsay.....	384.62		1,773.10		6,607.40		808.34		9,573.46		4.52		.8364		.1814	
London.....	5,297.11		3,856.07		24,847.55				34,000.73		1.58		.1789		.2458	
L'Orignal.....	438.87		2,044.57		6,011.54		4,118.02		12,613.00		5.31		.8612		.1849	
Milton.....	475.29		1,529.61		6,432.25		379.81		8,816.96		3.74		.6490		.2017	
Napanee.....	330.15		372.86		4,942.36		78.01		5,723.38		3.10		.2020		.1788	
Orangeville.....	167.90		797.31		4,959.05		368.05		6,292.31		8.11		1.0746		.2164	
Ottawa.....	6,001.31		13,637.48		49,233.05		3,098.62		71,970.46		2.33		.4407		.1972	
Owen Sound.....	764.51		1,456.13		6,764.86		160.00		9,145.50		2.94		.4688		.2461	
Pembroke.....	975.21		917.96		9,265.04		84.10		11,242.31		2.81		.2293		.2436	
Perth.....	846.30		3,117.91		6,479.27		882.70		11,326.18		3.32		.9141		.2481	
Peterborough.....	1,512.14		2,374.79		8,985.86		576.71		13,449.50		1.92		.3395		.2162	
Pictou.....	273.28		1,686.50		3,565.51		319.03		5,844.32		5.48		1.1120		.2561	
St. Catharines.....	1,017.68		1,278.43		11,231.00		478.02		14,005.13		2.46		.2210		.1922	
St. Thomas.....	1,205.11		1,025.45		9,024.83		899.30		12,154.69		2.21		.1861		.2187	
Sarnia.....	1,566.83		1,031.06		10,684.01		1,535.60		14,817.50		2.84		.1997		.3005	
Simcoe.....	767.44		897.71		7,195.76		176.60		9,037.51		1.92		.1898		.1644	
Stratford.....	534.56		1,903.22		6,175.23		428.13		9,041.14		3.09		.6498		.1825	
Toronto*.....	23,911.44		21,711.30		135,140.09		4,468.11		185,230.94		1.49		.1743		.1920	
Walkerton.....	390.75		359.22		6,410.29		199.30		7,359.56		2.89		.1409		.1533	
Welland.....	2,960.38		2,951.86		14,612.12		1,174.60		21,698.96		1.78		.2416		.2422	
Whitby.....	1,451.16		3,299.60		10,673.32		310.55		15,734.63		2.71		.5678		.2497	
Windsor.....	6,275.27		10,212.02		42,189.12		2,945.99		61,622.40		2.02		.3351		.2058	
Woodstock.....	661.79		2,179.97		8,241.20		1,673.70		12,756.66		3.79		.6484		.1968	
DISTRICT GAOLS																
Fort Frances.....	566.97		831.63		9,846.01				11,247.61		2.94		.2178		.1409	
Haileybury.....	5,012.85		5,166.07		21,782.62				31,961.54		1.26		.2003		.1980	
Kenora.....	2,365.87		2,916.29		16,974.52		252.50		22,509.18		2.16		.2771		.2275	
North Bay.....	2,743.36		4,336.65		19,586.41		435.14		27,101.59		1.91		.3060		.1936	
Parry Sound.....	1,382.91		904.94		12,582.00		25.00		14,894.85		2.17		.1321		.2019	
Port Arthur.....	15,139.34		9,142.05		38,449.40		2,667.54		65,398.33		1.34		.1874		.3103	
Sault Ste. Marie.....	1,353.38		5,383.48		16,366.80		644.14		23,747.80		3.27		.7402		.1861	
Sudbury.....	3,769.73		4,888.64		19,479.12		426.33		28,563.82		1.48		.2541		.1960	
TOTALS.....	114,387.54		147,031.17		716,691.25		43,338.61		1,021,448.57		1.90		.2741		.2132	

\*City gaols.

REPORT  
OF THE  
MINISTER OF PUBLIC  
WELFARE

PROVINCE OF ONTARIO

FOR THE FISCAL YEAR

1946 -1947

PRINTED BY ORDER OF  
THE LEGISLATIVE ASSEMBLY OF ONTARIO



ONTARIO

TORONTO

Printed and Published by Baptist Johnston,  
Printer to the King's Most Excellent Majesty  
1948



TO THE HONOURABLE RAY LAWSON, O.B.E., L.L.D.,

*Lieutenant-Governor of the Province of Ontario,  
in Council.*

MAY IT PLEASE YOUR HONOUR :

The undersigned has the honour to transmit herewith the Sixteenth Annual Report of the Department of Public Welfare, for the Fiscal Year 1946-47

I have the honour to be, Sir,

Your obedient servant,

W. A. GOODFELLOW,  
*Minister.*

Toronto,  
March 2, 1948.



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## REPORT OF THE DEPUTY MINISTER

TO THE HONOURABLE W. A. GOODFELLOW,  
*Minister of Public Welfare.*

Sir :

The undersigned has the honour to submit herewith the Sixteenth Annual Report of the Department of Public Welfare.

Included in the statement covering all departmental activities are reports of the Mothers' Allowance Commission, Old Age Pensions Commission, and the Superintendent of Neglected and Dependent Children, together with supporting statistical data, for the fiscal year April 1st, 1946, to March 31st, 1947.

All of which is respectfully submitted.

B. W. HEISE,  
*Deputy Minister.*

# TABLE OF ADMINISTRATIVE OFFICERS

## DEPARTMENT OF PUBLIC WELFARE

### Minister

THE HONOURABLE W. A. GOODFELLOW

### Deputy Minister

B. W. HEISE

S. N. Asbury.....Executive Assistant

### Old Age Pensions Commission

C. H. Green.....Chairman

B. W. Heise.....Vice-Chairman

Mrs. Mary M. Powell.....Commissioner

### Mothers' Allowances Commission

H. Bentley.....Chairman

Miss E. V. McKechnie.....Vice-Chairman

B. W. Heise.....Commissioner

### Division of Child Welfare

B. Beaumont.....Director

### Unemployment Relief

J. S. Band.....Director

### Houses of Refuge and Homes for the Aged

L. E. Ludlow.....Inspector

### Investigational Services

Miss Nora E. Smyth.....Supervisor

### Soldiers' Aid Commission

Lieut. Col. E. A. Baker, O.B.E., M.C., LL.D.....Chairman

Brigadier T. J. Rutherford, E.D.....Commissioner

Col J. A. Dewart, M.C.....Commissioner

Major F. R. Palmer.....Commissioner

Charles J. Brown.....Commissioner

Walter F. Charteris, M.D.....Commissioner

T. Summers Wilson.....Commissioner

F/Lt. A. L. Bell.....Commissioner

Colonel W. Rhoades, D.S.O., M.C.....Director

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PART I

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## IN REVIEW

The Department of Public Welfare is responsible for the implementing of legislative measures designed to assist the citizen in certain circumstances of social and economic need.

The Department of Public Welfare Act of 1931 provided for the consolidation within one Department of social legislation which, up to that time, had been administered by several Departments of the Government.

Administration of various statutes in respect of Child Welfare, Charitable Institutions and Houses of Refuge, together with administration of the Soldiers' Aid Commission Act, was transferred from the jurisdiction of the Provincial Secretary's Department to the new Department of Public Welfare; and the latter likewise took over jurisdiction for the Mothers' Allowances Act and the Old Age Pensions Act from the Department of Health.

At a later date the Unemployment Relief Act was transferred from the Department of Labour.

Further legislation for social problems assigned to the Department include the British Child Guests Act, the Day Nurseries Act, the District Homes for the Aged Act, and the Homes for the Aged Act.

Public Welfare legislation in Ontario falls into four main categories, with a somewhat complex pattern of financial and administrative responsibilities. These may be briefly classified as follows:—

(1) Legislation based on joint Dominion-Provincial arrangements, as exemplified in the Old Age Pensions Act. Old Age Pensions and Pensions for the Blind are administered by the Province in conformity with Dominion Regulations.

(2) Legislation for Welfare measures for which the entire financial and administrative responsibility is assumed by the Province, such as the Mothers' Allowances Act.

(3) Statutory measures providing for joint Municipal-Provincial responsibility, as exemplified by the Unemployment Relief Act and the Houses of Refuge Act.

(4) Legislation in respect of privately administered welfare services receiving Provincial aid and coming under Provincial supervision, such as Children's Aid Societies and Charitable Institutions.

The very nature of welfare services, concerned as they are with the well-being of the individual and the family, demands the closest of co-operation among all whose desire or responsibility it is to assist their fellow man. The Provincial responsibility, in this respect, becomes more complex in Ontario because of its large and varied geographic area. The Province of Ontario constitutes one of the largest geographic areas of administration at this level of government in the world.

The social circumstances in the community may conspire to shift the emphasis from the problems of the child, to the adult or the aged. Flexible administration is essential to enable the government to cope with such situations. This suggests that the level of government closest to the family—namely, the municipality—is in the most favourable position to give the best service. It is possible that the expanding nature of a state administered social welfare programme would call for a form of decentralization of authority on the part of the Dominion and the Province.

The various categories of welfare legislation outlined above may be regarded as different approaches by the government to the problems of society as they threaten the security of the family and its individual members. Considered in this light, the work of this department may be reviewed as follows:—

## THE CHILD

### DIVISION OF CHILD WELFARE

Children's Aid

Children's Institutions

Day Nurseries

### MOTHERS' ALLOWANCES

## THE ADULT

UNEMPLOYMENT RELIEF

SOLDIERS' AID

PENSIONS FOR THE BLIND

## THE AGED

HOUSES of REFUGE and HOMES FOR THE AGED

OLD AGE PENSIONS

## THE CHILD

### THE DIVISION OF CHILD WELFARE

Child Welfare Services of the Department are combined in the Child Welfare Division.

Through the co-ordination of these services it has been possible to plan for the welfare of children more effectively. The Division is responsible for standards of supervision and care as indicated by the following report :

#### CHILDREN'S AID BRANCH

Through the Children's Aid Branch the work of the fifty-three Children's Aid Societies is supervised and co-related. These Societies are governed by local boards of directors selected from the citizens in the community. They are autonomous and employ their own staffs of social workers.

#### Child Protection :

Child Protection services place the emphasis on the prevention of neglect and deal with basic family problems at their source. Every effort is made through Children's Aid Societies to re-establish the home rather than to remove the child.

During the past year 20,214 children were involved in protection cases in which the Societies were called upon to give service, a decrease of 1,596 from the previous year. Separation of parents and marital discord proved to be the largest contributing factors leading to child neglect and requiring services of the Societies.

The superintendent of the local Children's Aid Society acts as a local representative of the Provincial officer in the administration of the Children of Unmarried Parents Act. Any mother of a child born, or about to be born, out of wedlock, may apply to him for assistance. The services provided have been helpful in the re-establishment of these young women, who are usually in need of advice and guidance. The Society assures itself that the child is given adequate protection and care. An increasing number of these cases is brought to the attention of the Societies by the mother, her relatives or interested citizens before the child is born; thus enabling a plan to be made for both mother and child well in advance.

The number of cases dealt with under the Children of Unmarried Parents Act continues to increase. This increase has continued since 1939-40, when there was a total of 2,356 cases compared with 3,250 cases for the year 1945-46. Once again there is a further increase of 339 cases, or a total of 3,649 for the past year.

#### Adoptions :

The number of adoptions completed has continued to increase, a total of 2,075 children having been adopted during the past year, an increase of 27 from the year previous. Continued confidence in the Children's Aid Societies in the matter of adoptions is evidenced by the increasing number of prospective adoptive parents who seek their advice and guidance in the selection of a child for adoption.



**Child Care :**

Despite the housing shortage and economic difficulties, 7,346 children were in care in boarding homes at the end of the present year, an increase of 631 compared with the previous year. Sixteen thousand and forty-two children were provided with care outside their homes, an increase of 1,020 over the previous twelve months.

There has been increasing difficulty in the satisfactory placing of children. There are indications that a greater number of replacements were made. This suggests the need for more intensive foster home investigations. The integration of the institutional and the foster home care program in an effort to provide the type of care most appropriate to the needs of the child might also prove beneficial.

**War Services :**

The Societies rendered a distinct service during the year in the re-adjustment of war veterans and their families. Nine hundred and eighty-six such families were assisted in co-operation with the Dependent's Allowance Board, involving 5,108 children.

The assistance provided by the Dependents' Board of Trustees was made available to another 3,800 families upon recommendation by the Societies.

**Financial :**

The increasing cost of living is reflected in the budgets of the Societies. Expenditures during the year increased by \$330,116.19.

**DAY NURSERIES BRANCH**

The past year has been a period of transition from a war-time basis to a peace-time basis for Day Nursery activities. Surplus equipment was made available to Child Welfare and educational agencies, and preparations were made for the future licensing of all day nurseries.

The Day Nurseries Branch continued to operate 28 war-time day nurseries and 41 day care centres, financed under the Dominion-Provincial Agreement, until June 30th. This program was replaced by one established under The Day Nurseries Act, which became effective June 30th, 1946. The Act provided for :

- (a) A provincial grant of 50% of the net operating costs for Day Nurseries operated under a municipal by-law by municipalities who agreed to be responsible for the financing and efficient operation of the nursery.
- (b) The licensing of all day nurseries.

On June 30th assistance from the Dominion and Provincial Governments for the operation of the day care centres was discontinued.

The following municipalities immediately passed by-laws to establish day nurseries in their area :

Toronto .....	(13)
Hamilton .....	( 2)
Brantford .....	( 2)
Scarboro .....	( 1)

On July 31st the Township of Scarborough decided to discontinue the day nursery, and on August 31st one of the Brantford nurseries was closed.

The equipment from all the Day Nurseries and Day Care Centres which were closed, became the property of the Provincial Government. Arrangements were made whereby it could be sold at a fair evaluation to child welfare and educational agencies and institutions. The following table shows the extent to which this equipment was distributed :

15 community supported nurseries
10 co-operative nurseries
1 university nursery school
13 private nurseries
15 municipally-operated nurseries
9 private children's institutions
1 provincial children's institutions
17 Sunday schools
6 Boards of Education
1 children's hospital
1 public library
3 private children's camps
1 provincial children's camp

The disposal of this equipment afforded an opportunity for advising a number of private day nurseries regarding their equipment and programs as a preliminary to the actual licensing of such nurseries. Many requested an immediate inspection of their premises and programs.

Arrangements were completed to transfer the staff, formerly employed by the Province under the Dominion-Provincial Agreement, into suitable positions where they have continued to give leadership in the day nursery field.

### BRITISH CHILD GUESTS

The majority of British Child Guests have now been safely returned to their own homes. During the year the number under supervision decreased from 113 to 37. In addition 16 privately evacuated children receive some measure of supervision. Most of the remaining children are continuing their education in college, showing marked proficiency in their studies. Practically all these young people intend to remain in Canada. The children in care of Canadian foster parents are now privileged to take advantage of certain scholarships arranged in Great Britain on their behalf through a special fund established through contributions of the children's parents and known as the Kinsman Trust.

Number of British Child Guests September, 1940 .....	624
Total number of children who had returned to the United Kingdom up to March 31st, 1945 .....	115
Total number of children returned during 1945 .....	429
Total number of children during 1946 .....	6
<hr/>	
Total returned as of March 31st, 1947 .....	550

## CHILDREN'S INSTITUTIONS

There were 41 Children's Institutions designated as such under the Charitable Institutions Act in the year under review.

An increasing interest in planning a modern child care programme has been shown by the boards of many children's institutions. There is a trend to arrange for the intake and discharge of the children in care on the recommendation of an organized social agency working in the community.

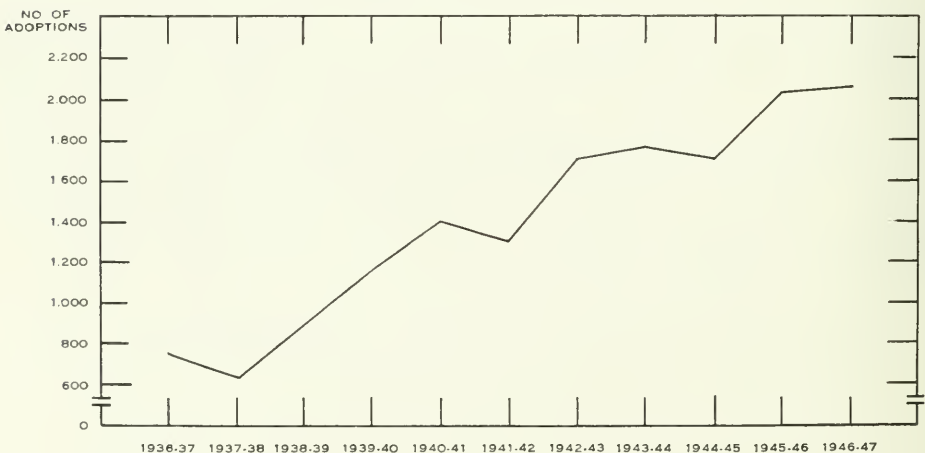
An increasing tendency to study institutional populations in order to determine the future needs of the children seems to be evidenced. There also appears to be more definite co-operation between institutions attempting to give very essential specialized services. This procedure has been handicapped by lack of trained personnel. In a partial attempt to meet this need for trained staff, the Institute of Child Study, University of Toronto, organized a Superintendent's Institute. A number of superintendents of children's institutes throughout the Province took advantage of this course of instruction and expressed a desire for further institutes and courses of training for institutional personnel.

The per diem costs of all institutions average \$1.08. The year's expenditures for all institutions totalled \$1,136,788.20 covering 1,054,680 days care.

An increase of 66,534 days care was given over the corresponding period of the preceding year. Maintenance costs increased \$117,081.12. At the end of the year, 2,856 children were in care, compared with 2,824 children at the end of the year previous.

### Chart Number I

Adoptions completed during the period 1936-37 — 1946-47



## CHILDREN'S AID SOCIETIES

## ONTARIO

Algoma	Mrs. E. L. Kraus	Sault Ste. Marie
Brant	Mr. W. A. Goff	Brantford
Bruce	Mr. Donald W. Cameron	Walkerton
Cochrane	Mr. A. G. Carson	Timmins
Dufferin	Mrs. I. B. MacDonald	Orangeville
Elgin	Miss Norma Harrison	St. Thomas
Fort William	Mr. H. W. Lang	Fort William
Frontenac	Mr. A. Wells	Kingston
Grey	Mr. J. D. Adamson	Owen Sound
Haldimand	Mrs. Evelyn O'Brien	Dunnville
Halton	Mr. G. F. Thompson	Milton
Hamilton	Mr. C. H. Vinnels, 47 King St. E.	Hamilton
Hastings	Mr. T. D. Ruston	Belleville
Huron	Mrs. Mary B. Chaffee	Goderich
Kenora	Mrs. L. Ronan	Kenora
Kent	Mr. F. Appleyard	Chatham
Lambton	Mr. F. R. Mills	Sarnia
Lanark	Mr. R. Kelly	Perth
Leeds and Grenville	Mr. C. A. Winters	Brockville
Lennox and Addington	Mr. W. F. Barrett	Napanee
Lincoln	Mr. L. S. Richardson	St. Catharines
London and Middlesex	Mr. F. Cristall, 164 Albert St.	London
Manitoulin	Mrs. Herbert Long	Gore Bay
Muskoka	Col. W. D. Forrest	Huntsville
Nipissing	Mr. Ernest Majury	North Bay
Norfolk	Mr. F. Victor Miller	Simcoe
Northumberland and Durham	Mr. A. B. Finnie	Port Hope
Ontario	Miss Margaret M. Hancock	Oshawa
Ottawa and Carleton	Mr. Clarence Halliday, 633 Rideau	Ottawa
Oxford	Mr. R. G. Clowes	Woodstock
Parry Sound	Mr. W. J. Elliott	Parry Sound
Peel	Mr. A. E. Kilpatrick	Brampton
Perth	Mr. A. M. Keith	Stratford
Peterborough	Miss R. A. D. Young	Peterborough
Port Arthur	Mr. J. B. Skinner	Port Arthur
Prescott and Russell	Mr. Joseph Lacasse	Wendover
Prince Edward	Miss Violet Anglin	Picton
Rainy River	Mrs. Florence Tibbetts	Fort Frances
Renfrew	Mr. H. H. Dymond	Renfrew
Simcoe	Mr. C. H. Naphtali	Barrie
Stormont, Dundas and Glengarry	Mrs. K. M. McBride	Cornwall
Sudbury	Mrs. Grace A. Wigg	Sudbury
Terriskaming	Mrs. Nora M. Fox	Kirkland Lake
Toronto	Mr. R. E. Mills, 32 Isabella St.	Toronto 5
Victoria and Haliburton	Mr. A. Blewett	Lindsay
Waterloo	Mr. K. D. Kayler	Kitchener
Welland	Mrs. D. E. Young	Welland
Wellington	Miss Belle Dauphinee	Guelph
Wentworth	Miss Muriel H. Milligan, Court House	Hamilton
Windsor and Essex (P)	Mr. J. H. Dawson, 737 Louis Ave.	Windsor
Windsor and Essex (RC)	Mr. Roy J. Bondy, 669 Tuscarora St.	Windsor
York	Mrs. J. S. Driscoll, 112 St. Clair W.	Toronto
Catholic Children's Aid Society of Toronto	Miss Irene Allen, 469 Sherbourne	Toronto
Director of Child Welfare	Mr. B. Beaumont, Parliament Bldgs.	Toronto

## MOTHERS' ALLOWANCES

### (THE MOTHERS' ALLOWANCES COMMISSION)

The work carried on under the Mothers' Allowances Act is entirely provincial in its legislative, administrative and financial aspects. The purpose of the Act at its inception was to help provide for the widowed mother and her child. Late amendments, however, have enlarged the area of assistance to include deserted wives, mothers whose husbands are permanently incapacitated and foster mothers who have in their care orphaned children. Widows and their children, however, still comprise the largest group receiving assistance.

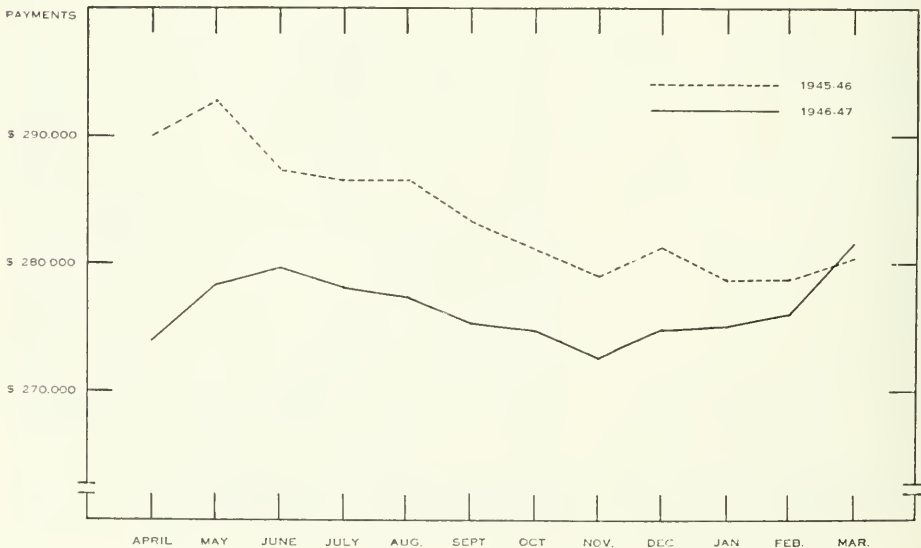
At the outset the municipal government participated in the financing of allowances. Since 1937, however, the Ontario Government has paid the entire cost of administration and allowances granted. Such allowances, apart from the basic grant, include fuel—when required—medical care, plus an additional amount of \$10 where there are exceptional circumstances.

All disbursements for Mothers' Allowances are paid from the general revenue fund of the Province. This form of assistance constitutes the second largest welfare activity in the Province in terms of amount of money spent and the number of persons receiving aid.

Over the period of the last 26 years a total of \$80,655,274 has been granted to families under the Mothers' Allowances Act. Allowances paid during the current year total \$3,291,408.57. The average monthly allowances paid to beneficiaries increased from \$41.91 to \$42.20 during the year. Expenditures for the fiscal years 1945-46 and 1946-47 are graphically illustrated for comparative purposes in Chart II below.

### Chart Number II

Obligations incurred for Mothers' Allowances during the fiscal years  
1945-46 — 1946-47

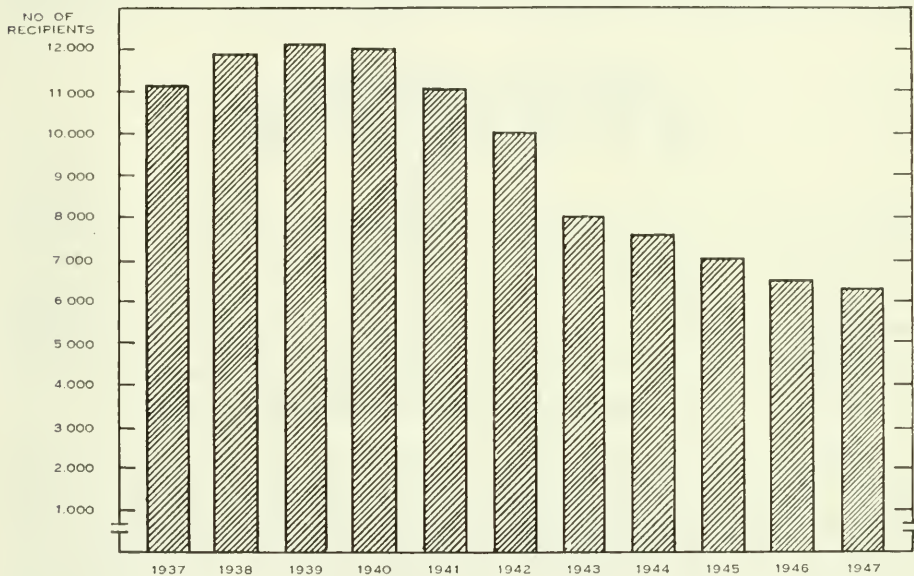


On the investigator's recommendation and at the discretion of the Commission, many beneficiaries received an additional allowance to provide for dental treatment and other items of an emergent nature. In addition to free medical services to all beneficiaries, a total of \$84,259.69 was issued for the purchase of fuel during the winter months.

During the fiscal year 1938-39 some 12,242 mothers and foster mothers received allowances—this being the peak load in the history of the Act. However, since that time there has been a continual decline in the case-load, and at March 31st, 1947, the number of beneficiaries receiving allowances was 6,587. For comparative purposes, this decrease in the case-load is illustrated in Chart III below.

### Chart Number III

Mothers' Allowance — Beneficiaries at end of each fiscal year



The total number of individuals including the mother or foster mother, and children benefiting from the allowance as of March 31st, 1947, was 20,323. Of the total number of mothers receiving the allowance, 71% were widows with dependent children; 21% were mothers whose husbands were incapacitated, and 4% were deserted mothers.

During the year under review, the number of applications received showed a 2.5% increase over that of the previous year, of which 51.07% qualified and received an allowance.

With regard to cases involving incapacitation of the husband, pulmonary tuberculosis is the largest single contributing factor.

This welfare measure recognises the vital importance of maintaining the family as the social unit best qualified to care for the child, rather than accepting the alternative arrangement of separating the mother and child.

## THE ADULT

### UNEMPLOYMENT RELIEF

The administration of Unemployment Relief is primarily the function of the municipal level of government. Accordingly, the municipality is responsible for determining need and providing funds to alleviate distress in individuals who are without resources, and do not qualify for special categories of assistance. Municipalities are reimbursed by the Province to the extent of 50% of their expenditures for the relief of unemployable persons.

Municipalities received \$1,342,900 from the Province during the past fiscal year; \$165,369 more than the previous year's total. The shareable relief expenditures on a comparative basis follow.

#### GROSS RELIEF EXPENDITURES FOR THE PAST THREE FISCAL YEARS

	1946-47	1945-46	1944-45
Provincial totals* _____	\$ 2,826,605	\$ 2,492,426	\$ 2,252,100
<hr/>			
Provincial share* _____	1,483,705	1,314,895	1,182,816
Municipalities' share _____	1,342,900	1,177,531	1,069,284
<hr/>			

\*—Includes cost of relief rendered persons living in unorganized areas.

The unprecedented employment conditions in recent years left only a residue of cases in needy circumstances. In the course of the great depression of the thirties loss of income could be mainly attributed to unemployment. When this temporary condition occurs at the present time, Unemployment Insurance benefits are in a large proportion of cases available to cushion the shock, and the municipalities have not, save in a few instances, received applications from unemployed employable persons.

An increasing number of persons over the age of 60 years require relief and, in the nature of ailments attendant on advancing age, the problem of providing care is accentuated. The aged person without resources must rely on public assistance through municipal channels until he attains the age of 70 years. This group suffers from chronic illness relating to the circulatory system; senility and general debility; rheumatism and arthritis; to mention the prominent causes of ill-health. More than half the heads of families and single individuals receiving relief are over 60 years of age.

In all age brackets, illness and physical disabilities are the major reasons for the granting of relief, and the Province in recent years has thus been active in developing rehabilitation measures favourable to those persons requiring prosthetic appliances and other services. Numerous persons have been fitted and supplied with artificial limbs who, otherwise, would

be entirely dependent on public resources for continued assistance. Gainful employment has been accepted by the majority of these cases and an expanded programme is anticipated to provide more fully for other types of cases in this field. The expenditures involved are shared equally by the Province and the municipality.

Cases in which marital discord has been a factor have shown a decided increase and are a constant source of concern. Imprisonment and other temporary conditions account for a further group qualifying for relief.

Regulations under the Unemployment Relief Act govern and guide municipalities in the rendering of public assistance and serve to standardize the amount of aid available to individual cases. Slightly more than one-half of the 913 municipalities submitted accounts in any given month for provincial share of expenditures. The municipalities not rendering accounts are mainly located in rural areas. The table hereunder will show the number of municipalities, according to type, submitting accounts for the last month of the fiscal year, March 1947.

### MUNICIPAL ACCOUNTS SUBMITTED

MARCH 1947

	Total number of municipalities	Number of accounts submitted	%
Provincial total	913	497	54.4
Cities	28	28	100.0
Towns and villages	304	167	54.9
Townships	581	302	52.0

Ontario municipalities at this time are financially capable of meeting the municipal share of relief assistance. Local Councils and Welfare Administrators have generally co-operated to the fullest extent in the administration of the Act. Careful consideration is given at all times to suggestions originating from municipalities and relating to policies and standards of assistance.



## REPORT OF THE SOLDIERS' AID COMMISSION OF ONTARIO

APRIL 1st, 1946, TO MARCH 31st, 1947.

**Commission  
Membership**

All members of the Commission have continued to serve throughout the year.

**Commission  
Meetings**

One general meeting of the Commission was held during the year. All members showing their usual keen interest.

**Audit**

Following the end of the fiscal year, an audit of the books and accounts was performed by a representative of the Provincial Auditor's Department. All books and accounts were reported to be in order and to correctly reflect the operations and transactions of the Commission throughout the year. Financial statements will be found appended hereto.

**Assistance  
and advice  
to veterans**

1. Emergency grants for the year number 1,737 as compared with 1,686 for the previous year. (No. 8 Account grants shown separately).
2. General information and advice services rendered to ex-service men and dependents totalled 3,057 compared with 2,891 for the previous year.
3. Office interviews for this period were 3,097 as compared with 3,020 for the previous year.
4. Special information and advice re pension claims, War Veterans Allowance procedure, etc., number 522 as compared to 466 for the previous year.

It may be interesting to note that 428 cash grants representing an amount of \$3,517.85 were made to men and dependents of men with service in the 2nd Great War.

**Kathleen  
Hammond  
Fund**

The assistance from this fund to widows of veterans, widowed by the war (1914-18) served 602 cases of emergency or special need during the past year as compared with 490 in the previous year. The corpus of this fund was subject to further increases during the year.

**Garden Land  
Settlement**

All dwellings on the Garden Land Settlement have been occupied during the year, and the premises have been supervised and maintained. All revenue, surplus to maintenance requirements, has been preserved in a special reserve fund. Future policy in respect to the Settlement has been under active consideration by the Commission.

**General**

In connection with the activities of the Commission apart from the many everyday appeals for advice or financial assistance in cases of urgent need throughout the Province, (see Appendices A.R. 1 and 2 of this report), the following "briefs" may be of interest :—

**Case "A".** In June of last year this man entered St. Michael's Hospital in Toronto suffering from Burger's Disease which

resulted in an emergency operation for the amputation of his left leg above the knee.

General,  
cont'd.

Some three months later the Catholic Welfare brought the case to our attention with a request that we supply the man with an artificial leg.

On investigation we found that the man had had good service in the 1st Great War; was only earning a small salary, had a large family to support and therefore could have had his operation at one of the Department of Veterans Affairs Hospitals. Had this been done he would then have been supplied with the leg through Christie Street Hospital Prosthetics Department and at no charge.

In view of this we took the case up with the Department of Veterans Affairs in Ottawa, furnished them with full particulars of the circumstances of his having had the operation performed in a civilian hospital, and asked that the artificial leg be supplied through that Department.

We were later advised that authority had been granted to have the leg supplied, the Department of Veterans Affairs assuming the costs in full.

**Case "B".** Widow, whose late husband served in the 1st Great War, met with an accident on the streets of a certain municipality due to a defect in the pavement, and, as a result suffered painful injuries to her left elbow and right knee. Her glasses were broken and some clothing damaged.

The cost of replacing the broken glasses was \$8.00 and X-Ray \$7.50.

She put in a claim to the claims office of the city concerned but they definitely refused to do anything in the matter and she came to us. As we considered that her claim was a just one we obtained for her free legal advice, the lawyer took up the case with the civic officials concerned with the result that following his representations a satisfactory settlement of this widow's claim was effected. A very grateful letter of appreciation has been received from her.

**Case "C".** This man, an ex-Imperial, age 77 years, and in receipt of Old Age Pension—mentally very bright and active—came to see us in May 1947. He was extremely deaf and being unable to converse with his neighbours, members of his Legion Branch or listen to the radio, was becoming very depressed—he was especially fond of outdoor life.

As we had on hand a Zenith Hearing Aid—which we had previously provided an ex-service man who had died after only having had the instrument a very short time and whose next-of-kin had returned it to us—we arranged with the National Society for the Deaf and Hard of Hearing, Toronto, to adjust this instrument—which had been reconditioned and put into perfect order—for the man. The

General,  
cont'd.

results were most satisfactory, so much so, that their enthusiastic Secretary wrote the following little story, entitled "The Chap from the Soldiers' Aid Commission" which speaks for itself :—

**"The Chap from the Soldiers' Aid Commission."**

Back to work? Today? Me? Not a chance. I'm going down to the Street, take a bus and go as far as it goes—away out into the country; and then walk—out through the fields and listen, just listen to the birds. I haven't heard the little beggars in a long, long time, and I want to hear 'em again—right now—

Did you ever see a big husky man smile—tears in his eyes?

It's kind of nice—he did.

He had been sent over by the Soldiers' Aid Commission—good people the S.A.C. It's a group of men really doing a job for those who, for any reason, don't come under ordinary regulations but need a lift—they get it.

This chap had been sent in for a medical and try-out with a new hearing aid. He'd heard of the things but had been deaf for so long he didn't think he would get much out of it; something maybe, but not much—"Let's get the thing put together.

Quietly, slowly, the volume was turned on while he talked. His voice—rancous, grating, gradually softened to normal tones. The tenseness seemed to fall away from the man, a puzzled wondering look came into his eyes as he began to listen.

Yes, he could hear—clearly—or almost. Shouting at him? No, just quiet normal voice, he was reassured. This just isn't true—can't be. But it was—then he smiled. And caught the bus."

**Case "D".** This man, who saw service in France in the 1st Great War, (awarded the M.M.), and Canada in the 2nd Great War, had been in Christie Street Hospital from July, 1946, until September, 1946, undergoing treatment for Duodenal Ulcer and Haemorrhoids. He had applied for pension entitlement but there was a long delay and he had become very worried which did not help his condition. We arranged for some priority for the medical examination and in November 1946 he was admitted to Sunnybrook Hospital for treatment and observation.

In January 1947 we were advised that he had been granted pension at the rate of 6% for aggravation—1/5th of 30%. The Board of Pension Commissioners ruling that it had been a pre-war condition aggravated by service.

We were able to obtain statements from the two firms by whom he had been employed for a total of 6 years prior

to enlistment that no time whatsoever had been lost through sickness whilst in their employ, and a further review of the case was requested. This resulted in an increase of assessment to 3/5ths of 30%, and a further review of the case was requested as man's condition had become progressively worse. This is still pending.

General,  
cont'd.

During the period under review the Director made personal calls on some 197 Branches of Veterans' Organizations in the Province, when meetings were held with the Officials of these bodies and addresses given at general or special meetings of the members.

The work and scope of the Commission was reviewed, individual and general problems discussed and help or advice arranged for or given. A very helpful system of co-operation has been established and continued throughout the Province.

In addition to the veterans' organizations, contact is also made with the Superintendents of Children's Aid Societies, officials of the Provincial Government's Agricultural Loans, and the Provincial Police (especially in unorganized areas), in the different areas visited. The members of the Commission being widely representative of the Province, and being imbued with a sense of responsibility for service to, and the welfare of all ex-service men and their dependents, have conscientiously endeavoured to meet and even to anticipate needs.

The experienced staff of the Commission, guided by the keen spirit of service actuating the Director, has been able to advise, and very promptly assist, a great number of deserving ex-service men and dependents who were in need and often discouraged to the breaking point.

Apart from the actual achievements of the Commission as recorded in the service and financial assistance statements, we believe that an even more important contribution has been made through the cultivation of a better understanding of the reasonable rights and privileges of all who are eligible for assistance, and all veterans organizations and friends who are interested and anxious to help. Actually the development of this better understanding and a truly co-operative spirit, while requiring much time and persevering effort, has done more to create satisfaction and harmony than the mere expenditure of dollars and cents. When such efforts are coupled with the ability to provide prompt emergency assistance and service where necessary ensures both practical and doubly valuable results.

The Commission also desires again to gratefully acknowledge the co-operation of the Veterans' Organizations; The Canadian Red Cross Society; I.O.D.E.; The Last Post Fund and all organizations and individuals who have in numerous ways been helpful during the year.

Respectfully submitted,

E. A. BAKER,  
*Chairman.*

## PENSIONS FOR THE BLIND

Blind pensions in Ontario are provided in accordance with the provisions of the revised Dominion Old Age Pensions Act, and are administered by the Ontario Old Age Pensions Commission. Enabling legislation permitted the Province to participate in the payment of Blind Pensions to persons 40 years of age or over who had vision so defective that they were unable to perform work for which eyesight is essential. The Dominion Government pays 75% of the pension granted. The Province pays the remaining 25% plus a cost of living bonus and administration costs. The Provincial share of pensions are paid out of the general revenue fund.

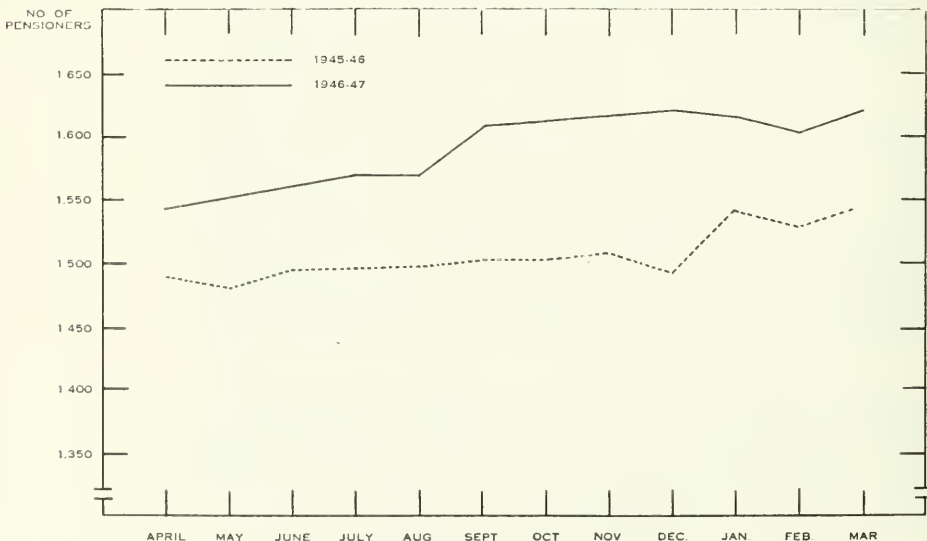
There was an increase in the number of persons accepted for Blind pensions for the fiscal year ending March 31st, 1947. Chart IV shows that for this period 254 persons were accepted for Blind pensions while 185 applications were accepted from April 1st, 1945, to March 31st, 1946.

It has been generally assumed that a person eligible for Blind Pension becomes a permanent pensioner. This belief merits some modification when it is revealed that 174 cases were closed for the fiscal year ending March 31st, 1947. This was 33.8% greater than the number of cases closed for the yearly period ending March 31st, 1946.

The number of cases receiving Blind Pensions increased by 5.18% to a total of 1,623 cases receiving grants as of March 31st, 1947. Obligations incurred for pensions to the Blind during the year totalled \$550,039.52, being an increase of 7.5% over the previous fiscal year. The amount being paid in pensions to the Blind has increased from \$40,052.40 as of April 1st, 1945, to \$46,224.06 as of March 31st, 1947.

### Chart Number IV

Persons receiving Blind Pensions during the fiscal year 1945-46 — 1946-47



## OLD AGE

### OLD AGE PENSIONS

(Old Age Pensions Commission)

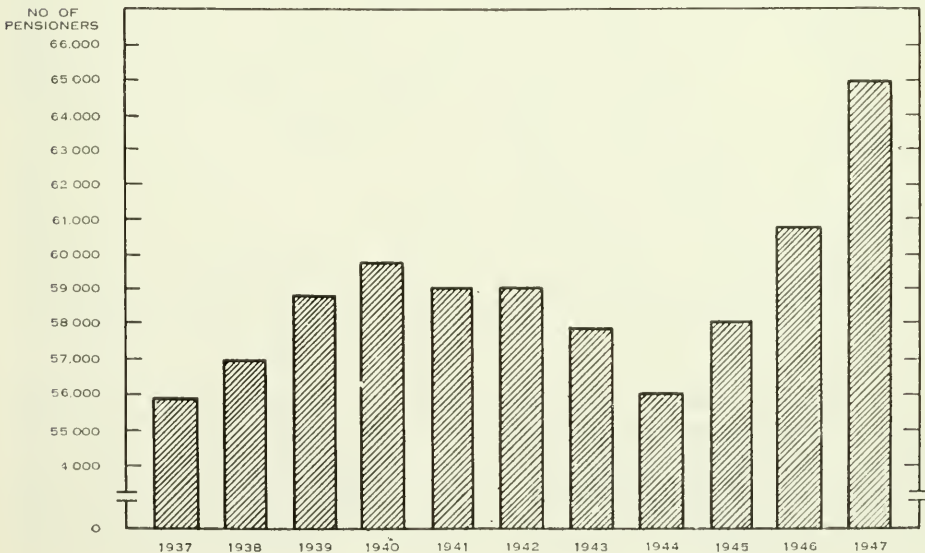
Old Age Pensions in Ontario as provided under the revised Dominion Old Age Pensions Act, are administered by the Ontario Old Age Pensions Commission. This provision of pensions is one approach to the problem of the care of the aged. Pensions have been available in Ontario since 1929. Enabling legislation enacted in that year permitted Ontario to participate in the payment of pensions under the Dominion Act to certain persons who, at the time of issuance, had reached the age of 70, and had resided within the Province and Dominion of Canada prescribed periods of time and whose resources for self-maintenance were within the limitations of the Act.

At the outset three levels of government—Dominion, Provincial and Municipal—participated in the financing of pensions. Since 1937, however, the Dominion Government has paid 75% and the Ontario Government 25% of the basic pension. In addition the Province pays a cost of living bonus and costs of administration. The Provincial share of disbursements for Old Age Pensions are paid from the General Revenue fund of the Province. This form of assistance constitutes the largest category in the Department of Public Welfare in terms of the amount of money spent and the number of persons receiving aid.

The broadening of old age pensions regulations since 1929 has made it possible for an increasing number of those in this age group to benefit from this assistance—Chart V indicates the trend in the number of cases.

### Chart Number V

Old Age Pensions — Old Age Pensioners at end of each fiscal year

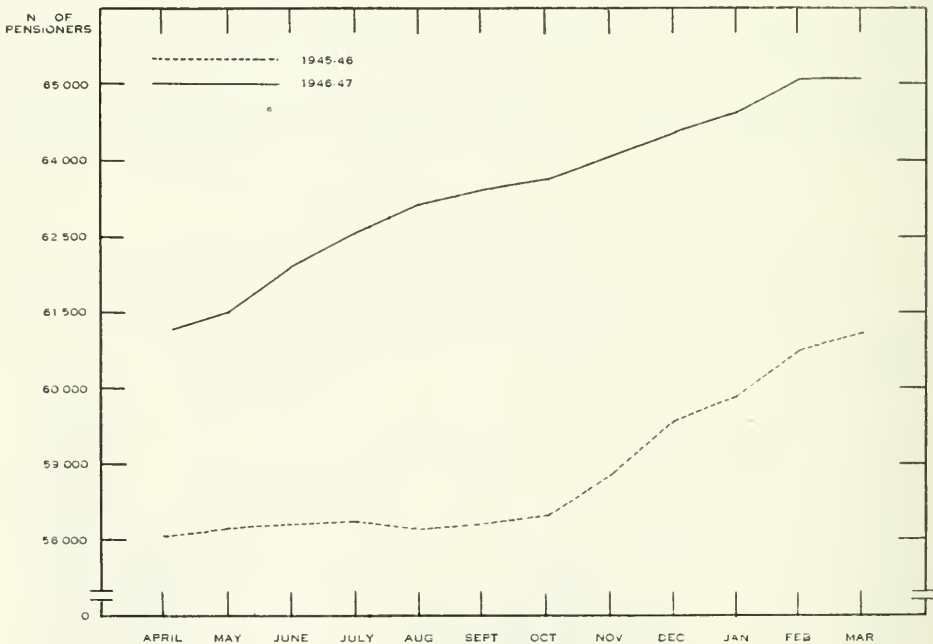


The cessation of hostilities released many citizens of pensionable age from gainful employment. This condition was reflected in the sharp rise in the number of applications for old age pension received by the Commission in the year under review. It is presumed that this trend reflects a general reluctance to employ the elderly person. Such considerations encourage the belief that the rate of increase in the number of applicants for old age pensions during the past year is likely to continue for some time to come.

Chart VI indicates the number of persons receiving old age pensions during the fiscal year ending March 31st, 1947, as compared with the figures for the corresponding period ending March 31st, 1946.

### Chart Number VI

Persons receiving Old Age Pensions during the fiscal years 1945-46 — 1946-47

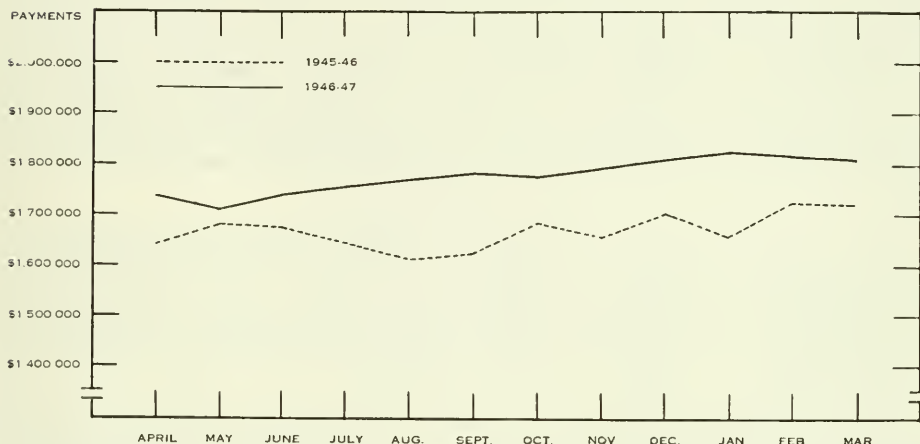


The fiscal year-end review also shows an increase of 1.43% in the number of re-instatements. The number of pensioners from all other provinces who established residence in Ontario increased by 1.33%. The case-load for the month of March 1947 increased 6.28% over the corresponding month in the preceding fiscal year. This is paralleled by a net increase of 4.6% in expenditures.

Chart VII shows monthly comparative payments since April 1st, 1945:—

### Chart Number VII

Obligations incurred for Old Age Pensions during the fiscal year  
1945-46 — 1946-47



The number of cases closed during the period increased by 76 over that for the previous fiscal year. 75.3% of the cases were closed by reason of death of the pensioner; employment of pensioner or spouse accounted for 14.9%; transfers to other provinces 7.4%, and miscellaneous reasons 2.6%. The percentage distribution for discontinuing assistance varied insofar as it related to Pensioners transferring from Ontario to other Provinces, which increased 41% over the previous period.

The provision of adequate care for the aged, is one of the most acute problems facing us to-day. The decrease in the size of the family, shifts in mortality rates and other factors, have resulted in an increasing proportion in the population of persons aged 70 or over. This trend has affected many aspects of welfare activity concerned with the care of the aged and has intensified an already complex situation.

The Old Age Pensions Act requires a report once each year as to the continuing eligibility of the pensioner. However, data derived from investigations by the field staff would indicate that many of the old age pensioners require considerably more attention than the annual re-determination of their eligibility. Community services are required to arrange for hospitalization and medical attention; to assist the pensioner in securing suitable living accommodation, and to create interest among friends and relatives in his physical care. Since all pension recipients are over 70, they represent a problem of care which a monthly grant alone cannot always meet. Conditions encountered in administering to the welfare and social problems of older people would indicate that skilled case-work is required to deal with the individual aged person. It is important that those engaged in providing for the needs of the older person, should not become so preoccupied with the individual problem that insufficient attention is paid to the over-all situation. The necessity for co-ordinating and consolidating the total resources at hand for the purpose of caring for the dependent aged person is an outstanding social problem of our time.



## HOMES FOR THE AGED AND HOUSES OF REFUGE

Homes for the Aged and Houses of Refuge in Ontario are maintained as public institutions by the counties and by certain towns and cities of the Province. The facilities of these institutions are chiefly utilized to house aged persons in the community who require such care. There are in addition a number of privately administered Homes for the Aged operated by philanthropic or religious organizations under the Charitable Institutions Act. The participation of the Department of Public Welfare is largely one of general supervision to ensure that the operation of these institutions conforms to the requirements of the Acts or to the standards set forth by Regulations made under the Charitable Institutions Act.

The Province contributes towards the cost of maintaining persons in approved private Charitable Institutions for the Aged and in District Homes for the Aged on a per diem basis. Where the resident has been receiving provincial assistance in the form of an Old Age or Blind pension, the pension is continued when he is admitted to the institution.

The housing shortage and the rising cost of living have placed an increased demand for living accommodation upon Houses of Refuge and Homes for the Aged during the past year. The need for additional residential quarters has become a matter of great urgency. The shortage of building materials and the rising cost of construction has mitigated against the building of additional accommodation. To assist local governments in this particular problem, the Province has undertaken to pay 25% of the capital cost of construction in the case of those Homes which are public institutions.

The concensus of authoritative opinion in the care of the aged now affirms the great value of private accommodation for elderly persons as close to that of a desirable home environment as possible. The Department has brought to the attention of the appropriate municipal authorities, as the occasion presents itself, certain plans for old people's homes and institutions which have proven to be most acceptable in the experience of many progressively-minded communities.

It is evident that the proportion of old people requiring more extensive medical and nursing care is rapidly increasing. Active treatment hospitals, especially under present conditions, cannot keep elderly bed-ridden persons for extended periods of time. Many families have no proper facilities for such care and many elderly persons have no relatives or friends to come to their aid. Homes for the Aged are therefore faced with the problem of providing special quarters for the bed-ridden under the same administrative organisation as the Home for ambulatory aged.

There are 78 Refuges and Homes for the Aged in Ontario in which 6,080 persons received care during the calendar year 1946.

**COMPARATIVE PANELS FOR CALENDAR YEARS 1945 AND 1946**  
**SHOWING RESIDENTS IN HOMES FOR AGED**

**Panel for Calendar Year 1945**

	No. of Homes	Residents	Total Cost of all Homes
Homes in Cities .....	43	3,494	\$1,573,575.86
Homes in Counties .....	31	2,289	751,613.47
Homes in Districts .....	3	169	84,919.49
Total Homes .....	77	5,952	2,410,108.82

**Panel for Calendar Year 1946**

Homes in Cities .....	44	3,591	\$1,497,324.11
Homes in Counties .....	31	2,311	791,431.91
Homes in Districts .....	3	178	68,687.93
Total Homes .....	78	6,080	\$2,357,443.95

The total expended for this period was \$2,357,443.95 of which 50.1% was received from paying residents or persons in receipt of old age pensions. The average daily cost of maintenance for persons in District Homes was \$1.07, in County Homes \$.96, in City Homes \$1.17, this being the highest on record.

## INVESTIGATIONAL SERVICES

The work of the investigational services of the Department is primarily related to applications made for Mothers' Allowances, Old Age Pensions and Pensions to the Blind. A trained field staff of investigators is enabled to assist and guide applicants in establishing eligibility for allowances or pensions, and at the same time perform services of a casework nature, through their training, experience and knowledge of the local community and its resources.

The 102 investigators for the Mothers' Allowances and Old Age Pensions Commissions made a total of 131,787 visits throughout the Province during the fiscal year ending March 31st, 1947. 13,053 of these were in regard to new applications, requiring complete investigation. 60,866 were annual reports on beneficiaries and pensioners, 57,868 were routine or special calls.

In the unorganized territories, the full responsibility of completing the applications rests with the investigators.

The Province is divided into areas, each of which is covered by a group of field workers under a supervisor.



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PART II

FINANCIAL  
AND STATISTICAL REPORT

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# DEPARTMENT OF PUBLIC WELFARE FINANCIAL REPORT

**For Fiscal Year 1946-7**

## SUMMARY

**Year Ended March 31, 1947**

	Ordinary Expenditure	Capital Payments
Main Office .....	\$ 168,234.64	
Day Nurseries Branch .....	101,330.61	
Children's Aid Branch .....	219,715.77	
Youth and Child Welfare Branch .....	69,432.11	
Mothers' Allowance Commission .....	3,682,166.48	
Old Age Pensions Commission .....	7,655,979.79	\$14,388,732.91
Unemployment Relief .....	1,568,504.07	
	<u>\$13,465,363.47</u>	<u>\$14,388,732.91</u>

### MAIN OFFICE ,

Minister's Salary .....	\$ 8,000.00
Permanent Salaries .....	27,227.55
Temporary Salaries .....	1,759.40
Travelling Expenses .....	2,885.91
Equipment .....	
Stationery and Printing .....	2,372.02
Telephone and Telegraph .....	274.19
Fees, Books and Magazines .....	141.42
Miscellaneous .....	115.68
Maintenance of Indigents .....	13,831.40
Burial of Indigents .....	840.00
Transportation of Indigents .....	115.30
Rehabilitation of Indigents .....	537.34
Compensation—Injured Workmen .....	385.57
Cost of Living Bonus (All Branches) .....	383.37
Unemployment Insurance Stamps .....	486.06
Staff Training .....	750.00

### Grants :

Refuges .....	72,213.95
Soldiers' Aid Commission .....	26,674.48
Memorial Wreaths .....	2,841.00
Children's Aid Ass'n. of Ont. ....	2,000.00
Last Post Fund .....	1,000.00
Poppy Fund .....	1,200.00
Royal Can. Humane Society .....	200.00
Can. Legion Ont. Prov. Command (B.E.S.L.) .....	2,000.00
	<u>\$ 168,234.64</u>

	Ordinary Expenditure	Capital Payments
<b>DAY NURSERIES</b>		
Permanent Salaries .....	\$ 5,229.87	
Temporary Salaries .....	4,294.10	
Travelling Expenses .....	1,355.08	
Purchase of Equipment .....		
Stationery and Printing .....	235.05	
Telephone and Telegraph .....	147.01	
Miscellaneous .....	11.77	
Upkeep Expenses .....	90,057.73	
	<u>\$ 101,330.61</u>	
<b>CHILDREN'S AID BRANCH</b>		
Permanent Salaries .....	\$ 44,075.71	
Temporary Salaries .....	8,310.54	
Travelling Expenses .....	3,364.93	
Purchase of Equipment .....	281.87	
Stationery and Printing .....	2,569.29	
Telephone and Telegraph .....	130.45	
Miscellaneous .....	314.35	
C.P.A. and C.U.P.A.		
Travelling Expenses .....	10,523.07	
Maintenance .....	78,951.27	
Legal .....	371.38	
Miscellaneous .....	63.40	
Grants—Salaries of Officers .....	70,500.00	
British Child Guests .....	259.51	
	<u>\$ 219,715.77</u>	
<b>YOUTH AND CHILD WELFARE</b>		
Permanent Salaries .....	\$ 7,947.62	
Temporary Salaries .....		
Travelling Expenses .....	604.67	
Purchase of Equipment .....	27.25	
Stationery and Printing .....	63.55	
Telephone and Telegraph .....	83.77	
Miscellaneous .....	27.95	
Grants : Orphanages .....	60,677.30	
	<u>\$ 69,432.11</u>	
<b>MOTHERS' ALLOWANCES</b>		
Permanent Salaries .....	\$ 55,793.57	
Temporary Salaries .....	65,442.87	
Travelling Expenses .....	38,181.37	
Purchase of Equipment .....	110.61	
Stationery and Printing .....	3,520.20	
Telephone and Telegraph .....	191.36	
Local Board Expenses .....	2,472.23	
Sundry Administration .....	715.75	
Allowances, M.A. Act .....	3,375,668.26	
Medical Services .....	140,070.26	
	<u>\$ 3,682,166.48</u>	

	Ordinary Expenditure	Capital Payments
OLD AGE PENSIONS		
Permanent Salaries .....	\$ 114,720.90	
Temporary Salaries .....	101,750.17	
Travelling Expenses .....	40,509.77	
Purchase of Equipment .....	1,756.31	
Stationery and Printing .....	12,703.33	
Telephone and Telegraph .....	451.56	
Registration Fees .....	694.00	
Sundry Administration .....	1,121.36	
Miscellaneous .....		
Old Age Pensions .....	4,566,259.71	\$14,025,457.45
Pensions for the Blind .....	119,079.35	363,275.46
Medical Services .....	449,198.60	
Provincial O.A.P. Bonus .....	2,247,734.73	
	<u>\$ 7,655,979.79</u>	<u>\$14,388,732.91</u>

UNEMPLOYMENT RELIEF BRANCH

	Gross Expenditure	Refunds	Net Expenditure
Direct Relief .....	\$1,493,347.36	\$3,586.34	\$1,489,761.02
Administration :			
Main Office .....	\$ 49,613.82		\$ 49,613.82
District .....	29,129.23		29,129.23
Totals .....	<u>\$1,572,090.41</u>	<u>\$3,586.34</u>	<u>\$1,568,504.07</u>

RECEIPTS

	Ordinary Revenue	Capital Receipts
CHILDREN'S AID BRANCH		
Miscellaneous .....	\$ 28.00	\$
British Child Guests .....	253.46	
OLD AGE PENSIONS		
Dominion—Old Age Pensions .....		13,886,363.96
Dominion—Pensions for the Blind .....		359,859.91
Other Provinces—Old Age Pensions .....		135,087.45
Other Provinces—Pensions for the Blind .....		3,307.10
	<u>\$ 281.46</u>	<u>\$14,384,618.42</u>



# OLD AGE PENSIONS AND PENSIONS FOR THE BLIND

## DISBURSEMENTS AND RECEIPTS

Fiscal Year 1946-47

### DISBURSEMENTS

TOTAL CHEQUES ISSUED	Old Age Pensions	Pensions for the Blind	Total
Dominion .....	\$14,331,441.81	\$ 364,569.01	\$14,696,010.82
Ontario .....	4,715,544.64	120,649.05	4,836,193.69
Ontario Bonus .....	2,240,087.70	57,216.64	2,297,304.34
Other Provinces .....	139,093.49	3,415.55	142,509.04
	<u>\$21,426,167.64</u>	<u>\$ 545,850.25</u>	<u>\$21,972,017.89</u>

### CHEQUES CANCELLED

Dominion .....	\$ 228,071.55	\$ 3,169.43	\$ 231,240.98
Ontario .....	76,023.84	1,056.48	77,080.32
Ontario Bonus .....	35,300.96	477.30	35,778.26
Other Provinces .....			
	<u>\$ 339,396.35</u>	<u>\$ 4,703.21</u>	<u>\$ 344,099.56</u>

### CASH REFUNDS

Dominion .....	\$ 217,006.30	\$ 1,539.67	\$ 218,545.97
Ontario .....	73,261.09	513.22	73,774.31
Ontario Bonus .....	13,666.63	124.72	13,791.35
Other Provinces .....			
	<u>\$ 303,934.02</u>	<u>\$ 2,177.61</u>	<u>\$ 306,111.63</u>

### NET TOTAL PAYABLE BY

Dominion .....	\$13,886,363.96	\$ 359,859.91	\$14,246,223.87
Ontario .....	4,566,259.71	119,079.35	4,685,339.06
Ontario Bonus .....	2,191,120.11	56,614.62	2,247,734.73
Other Provinces .....	139,093.49	3,415.55	142,509.04
	<u>\$20,782,837.27</u>	<u>\$ 538,969.43</u>	<u>\$21,321,806.70</u>
Medical Services paid for by Ontario .....	438,128.51	11,070.09	449,198.60
	<u>\$21,220,965.78</u>	<u>\$ 550,039.52</u>	<u>\$21,771,005.30</u>

RECEIPTS

	Old Age Pensions		Pensions for the Blind	
	1945-46	1946-47	1945-46	1946-47
DOMINION OF CANADA \$		\$13,886,363.96	\$	\$ 359,859.91
OTHER PROVINCES :				
Alberta .....	2,932.04	8,737.62	61.25	136.88
British Columbia .....	1,770.40	6,312.73	25.31	51.18
Manitoba .....	6,699.35	20,904.30	132.50	371.25
New Brunswick .....	813.15	2,737.41	5.63	60.63
Nova Scotia .....	1,140.76	3,417.12	32.19	92.19
Prince Edward Island .....	47.37	228.92		
Quebec .....	10,862.73	33,718.65	342.19	1,097.46
Saskatchewan .....	8,503.80	26,261.10	205.94	692.50
	<u>\$ 32,769.60</u>	<u>\$13,988,681.81</u>	<u>\$ 805.01</u>	<u>\$ 362,362.00</u>
Total Receipts .....				\$14,384,618.42

ACCOUNTS RECEIVABLE

Old Age Pensions and Pensions for the Blind

	Outstdg. Mar. 31, 1946	Charged 1946-47	Receipts 1946-47	Outstdg. Mar. 31, 1947
DOMINION OF CANADA				
Old Age Pensions .....	\$	\$13,886,363.96	\$13,886,363.96	\$
Pensions for the Blind .....		359,859.91	359,859.91	
OTHER PROVINCES				
Old Age Pensions .....	32,769.60	139,093.49	135,087.45	36,775.64
Pensions for the Blind .....	805.01	3,415.55	3,307.10	913.46
	<u>\$ 33,574.61</u>	<u>\$14,388,732.91</u>	<u>\$14,384,618.42</u>	<u>\$ 37,689.10</u>

# MOTHERS' ALLOWANCES COMMISSION

## DISBURSEMENTS AND RECEIPTS

Fiscal Year 1946-47

### DISBURSEMENTS

Total of Cheques Issued .....	\$ 3,318,004.20	
Less Cancelled Cheques .....	21,058.00	
	\$ 3,296,946.20	
Less Cash Refunds .....	5,537.63	
	\$ 3,291,408.57	
Fuel Allowances .....	84,259.69	
Medical Services .....	140,070.26	
	\$ 3,515,738.52	

### EXPENDITURES ACCORDING TO LOCAL BOARDS

#### COUNTIES

Brant .....	\$ 8,970.00
Bruce .....	31,169.00
Carleton .....	42,733.00
Dufferin .....	10,783.00
Dundas .....	11,464.40
Durham .....	13,944.00
Elgin .....	17,784.00
Essex .....	39,494.00
Frontenac .....	17,552.00
Glengarry .....	24,274.00
Grenville .....	8,796.00
Grey .....	32,097.00
Haldimand .....	15,144.00
Haliburton .....	6,722.00
Halton .....	10,872.00
Hastings .....	44,262.00
Huron .....	22,462.00
Kent .....	24,449.00
Lambton .....	14,914.00
Lanark .....	19,055.00
Leeds .....	16,076.00
Lennox and Addington .....	12,513.00
Lincoln .....	16,279.00
Middlesex .....	17,881.00
Norfolk .....	25,032.00
Northumberland .....	24,313.00
Ontario .....	21,710.00
Oxford .....	14,618.00
Peel .....	18,575.00
Perth .....	12,671.00
Peterborough .....	15,606.00
Prescott .....	42,586.00
Prince Edward .....	14,472.00
Renfrew .....	67,686.00
Russell .....	24,070.00
Simcoe .....	88,403.00
Stormont .....	23,848.00
Victoria .....	23,111.47
Waterloo .....	18,156.00
Welland .....	43,239.00
Wellington .....	17,136.00
Wentworth .....	16,719.00
York .....	226,145.17
	\$ 1,217,786.04

M.A.C. EXPENDITURES ACCORDING TO LOCAL BOARD (Cont'd.)

CITIES

Belleville .....	\$ 23,660.00
Brantford .....	37,603.00
Chatham .....	21,248.00
Cornwall .....	33,049.00
Fort William .....	38,994.00
Galt .....	18,972.00
Guelph .....	29,866.00
Hamilton .....	176,525.80
Kingston .....	25,668.00
Kitchener .....	24,872.00
London .....	56,796.00
Niagara Falls .....	19,427.00
North Bay .....	28,584.00
Oshawa .....	24,144.00
Ottawa .....	145,774.00
Owen Sound .....	18,644.00
Peterborough .....	32,658.00
Port Arthur .....	28,438.00
St. Catharines .....	23,969.00
St. Thomas .....	17,960.00
Sarnia .....	12,546.00
Sault Ste. Marie .....	40,330.00
Stratford .....	13,848.00
Sudbury .....	58,554.00
Toronto .....	580,424.03
Welland .....	14,366.00
Windsor .....	92,608.00
Woodstock .....	13,359.00
	<hr/>
	\$ 1,652,886.83

TOWNS

Brockville .....	7,296.00
Gananoque .....	2,856.00
Ingersoll .....	5,835.00
Prescott .....	3,324.00
St. Marys .....	4,251.00
Smith's Falls .....	4,666.00
Trenton .....	7,996.00
	<hr/>
	\$ 36,224.00

DISTRICTS

Algoma .....	25,599.00
Cochrane .....	87,303.00
Kenora .....	22,025.70
Manitoulin .....	10,466.00
Muskoka .....	24,007.00
Nipissing .....	45,738.00
Parry Sound .....	33,477.00
Rainy River .....	19,475.00
Sudbury .....	43,274.00
Thunder Bay .....	13,300.00
Temiskaming .....	59,847.00
	<hr/>
	\$ 384,511.70

Fuel Allowances .....	3,291,408.57
Medical Services .....	84,259.69
	140,070.26
	<hr/>
	\$ 3,515,738.52

W. A. SALMONS,  
*Accountant.*

# CHILD WELFARE

## CHILDREN'S AID BRANCH

April 1st, 1946, to March 31st, 1947

### INVESTIGATION REPORT

#### STATISTICS

Total Cases open at April 1st, 1946 .....	8,245
New Cases .....	5,950
Cases re-opened .....	2,226
Cases closed .....	8,176
Total Cases open at March 31st, 1947 .....	8,245

#### FIELD WORK

Children involved in above investigated Cases .....	20,214
Visits re all cases .....	75,571
Office interviews re all cases .....	50,489
Attendance on above cases—Mental Health .....	538
Attendance on above cases—Medical .....	1,205
Attendance on above cases—Dental .....	103
Court cases attended (including all attendance on every case) .....	10,494

#### FACTORS

Abuse or ill-treatment .....	428
Death of only parent or guardian .....	93
Delinquency of child .....	1,102
Desertion .....	730
Divorce .....	247
Drunkenness .....	1,144
Illness of parent or guardian .....	444
Imprisonment .....	160
Marital Discord .....	1,595
Mental defect—Suspected .....	183
Mental Defect—Diagnosed .....	193
Mental Illness—Suspected .....	112
Mental Illness—Diagnosed .....	85
Neglect—Medical .....	175
Neglect—Moral .....	1,022
Neglect—Physical .....	1,670
Non-Support .....	983
One Parent deceased .....	338
Personality problem .....	411
Separation of Parents .....	1,733
Sex Offences—Adults with Children .....	71
Sex Offences—Children with Children .....	40
Specific disease .....	45
Truancy .....	188
Unwarranted Complaint .....	190
Sundry .....	2,038

#### CHILDREN MADE WARDS

Permanent :	
New Commitments .....	669
From previous temporary wardship .....	628
Temporary :	
New Commitments .....	1,630
From previous temporary wardship .....	2,870

## THE CHILDREN OF UNMARRIED PARENTS' ACT

### ANALYSIS OF NEW CASES FOR THE YEAR 1946-47

From April 1st, 1946, to March 31st, 1947 (including 1,146 cases from the Toronto District) ..... 3,649 Cases

Of these ..... 17 were pending  
 ..... 485 have been settled  
 ..... 3,147 have been closed.

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Of the cases settled ..... 408 were by Agreements with the Provincial Officer.  
 ..... 74 by Court Orders.  
 ..... 3 by Private Agreements approved by the Judge.

Of the cases closed ..... 1,864 no action was desired.  
 ..... 366 were closed for lack of corroboration.  
 ..... 165 there was no data.  
 ..... 85 couples married.  
 ..... 192 man unknown.  
 ..... 285 man's whereabouts unknown.  
 ..... 106 man outside jurisdiction.  
 ..... 27 man dead.  
 ..... 41 man worthless.  
 ..... 16 criminal action taken.

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There were ..... 35 Varied Agreements.  
 ..... 52 Varied Orders.  
 ..... 44 Applications for Orders on Agreements.  
 ..... 43 Summons issued.

# STATISTICAL REPORT

## The Children of Unmarried Parents' Act

Comparative Table Showing Number of Cases Dealt with from  
July 1st, 1921 to March 31st, 1947

### FISCAL YEAR

1921 —July 1st, 1921, to October 31st, 1921 .....	102
1921-22—November 1st, 1921, to October 31st, 1922 .....	672
1922-23—November 1st, 1922, to October 31st, 1923 .....	1,162
1923-24—November 1st, 1923, to October 31st, 1924 .....	1,205
1924-25—November 1st, 1924, to October 31st, 1925 .....	1,347
1925-26—November 1st, 1925, to October 31st, 1926 .....	1,705
1926-27—November 1st, 1926, to October 31st, 1927 .....	1,724
1927-28—November 1st, 1927, to October 31st, 1928 .....	1,865
1928-29—November 1st, 1928, to October 31st, 1929 .....	1,826
1929-30—November 1st, 1929, to October 31st, 1930 .....	2,180
1930-31—November 1st, 1930, to October 31st, 1931 .....	2,250
1931-32—November 1st, 1931, to October 31st, 1932 .....	2,148
1932-33—November 1st, 1932, to October 31st, 1933 .....	2,248
1933-34—November 1st, 1933, to October 31st, 1934 .....	1,954
1934-35—November 1st, 1934, to March 31st, 1935 .....	798
1935-36—April 1st, 1935, to March 31st, 1936 .....	2,166
1936-37—April 1st, 1936, to March 31st, 1937 .....	2,203
1937-38—April 1st, 1937, to March 31st, 1938 .....	2,401
1938-39—April 1st, 1938, to March 31st, 1939 .....	2,371
1939-40—April 1st, 1939, to March 31st, 1940 .....	2,356
1940-41—April 1st, 1940, to March 31st, 1941 .....	2,441
1941-42—April 1st, 1941, to March 31st, 1942 .....	2,800
1942-43—April 1st, 1942, to March 31st, 1943 .....	2,918
1943-44—April 1st, 1943, to March 31st, 1944 .....	3,137
1944-45—April 1st, 1944, to March 31st, 1945 .....	3,082
1945-46—April 1st, 1945, to March 31st, 1946 .....	3,250
1946-47—April 1st, 1946, to March 31st, 1947 .....	3,649
Total (April 1st, 1946, to March 31st, 1947) .....	<u>56,020</u>





## CHILDREN'S AID BRANCH

### REPORT RE CHILDREN IN CARE

STATISTICS	Total Wards	Other Societies' Wards*	Non- Wards	Total
Total Children in care April 1, 1946 .....	10,281	647	4,019	14,300
No. of Children admitted during year .....	2,535	347	4,737	7,272
No. of Children discharged during year .....	1,921	307	4,296	6,217
Total Children in care at March 31, 1947 .....	10,895	686	4,461	15,356
..... End of Year.....				

TYPE OF CARE	Total Wards	Other Societies' Wards*	Non- Wards	Total
Shelter .....	335	4	72	407
Boarding Home .....	6,215	150	981	7,196
Adoption Probation .....	861	135	2,891	3,752
Wage Home .....	608	50	14	622
Free Home .....	1,887	321	332	2,219
Other Institutions				
1. Placed for specific care under direct supervision .....	584	24	73	657
2. Mental Hospital .....	230		2	232
3. Correctional Institute .....	266	2	5	271
	<u>10,986</u>	<u>686</u>	<u>4,370</u>	<u>15,356</u>

#### FIELD WORK

Visits re Children in Care .....	131,959
Office interviews, re Children in Care .....	52,839
Attendance on Children—Mental Health .....	2,115
Attendance on Children—Medical .....	12,606
Attendance on Children—Dental .....	1,864
Children in Care contacted .....	52,357
First Placements .....	4,366
Replacements of Children (one home to another home) .....	5,751
Returned to Shelter .....	1,266
Foster Home investigations .....	5,131
Replacements, Shelter to Foster Homes .....	1,527
Visits in search of Foster Homes .....	4,198

#### INDUSTRIAL SCHOOLS

Investigations (a) Before Commitment .....	169
Investigations (b) Before Parole .....	122

#### ADOPTION

No. of Investigations for final adoption .....	1,729
No. of final adoption orders obtained .....	1,910

\*Included in figures for Total Wards.

## WAR SERVICES REPORT

### RE : BRITISH CHILD GUESTS

NUMBER OF

C.O.R.B. Children under Supervision at first of year .....		113
C.O.R.B. Children under Supervision at end of year .....		37
Visits .....		52
Office Interviews .....		102
Letters to Parents .....		25
Attendance re Children (a) Medical .....		1
Attendance re Children (b) Dental .....		
Attendance re Children (c) Mental .....		
Number of British Child Guests, September, 1940 .....		624
Total number of children who had returned to the United Kingdom up to March 31st, 1946 .....	544	
Total returned year ending March 31st, 1947 .....	6	
	550	

Discharged from supervision :

Adopted by Foster Parents .....	1	
Discharged from service in England .....	1	
Married .....	3	
Killed in action — R.C.A.F. ....	1	
Officially withdrawn from scheme .....	8	
Transfers to other Provinces .....	4	
Serving in interim Air Force (Permanent Residence) ....	1	
Moved from Province .....	2	
Reached majority (Age 21) .....	10	
Parents arrived in Canada .....	6	
	37	587
British Child Guests still remaining in Province .....		37

Privately Evacuated Children

Privately evacuated children under supervision since September, 1940 .....	156	
Returned to the United Kingdom or discharged .....	140	
	16	
Still remaining in Province including those for full responsibility and those for supervision only .....		16

### RE: DEPENDENT'S ALLOWANCE BOARD

NUMBER OF

Cases open at April 1st, 1946 .....	844
Cases opened or re-opened during year .....	142
Cases closed during year .....	841
Cases open at March 31st, 1947 .....	145
Children involved .....	5,108
Visits made .....	2,019
Office interviews .....	1,557

### RE: DEPENDENT'S BOARD OF TRUSTEES

NUMBER OF

Cases open at April 1st, 1946 .....	1,916
Cases open or re-opened during year .....	1,884
Cases completed .....	3,540
Cases open at March 31st, 1947 .....	260
Visits made .....	3,106
Office interviews .....	1,032
Reports forwarded .....	1,699
Grants administered .....	193



CHILDREN'S AID BRANCH  
FINANCIAL STATEMENT—CHILDREN'S AID SOCIETIES—DISBURSEMENTS

NAME	DISBURSEMENTS				DAY'S CARE			PER DIEM COST	
	Receiving Homes	Boarding Homes*	Institutions	Other Services of Societies	Total	Receiving Homes	Boarding Homes*	Receiving Homes	Boarding Homes*
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Algonia	14,712.65	16,298.72	1,147.88	10,479.93	42,609.18	13,859	23,483	1.06	68
Brant	3,609.95	32,812.10	75.94	15,390.02	52,480.00	1,871	32,913	1.93	1,001
Bruce	5,258.12	3,110.38		5,267.43	14,819.18	2,144	3,011	2.45	1,02
Cochrane	5,607.48	20,582.76		5,055.93	31,511.34	2,745	21,323	2.04	98
Dufferin		5,471.24		3,874.73	9,701.74		5,576		85
Elgin		22,342.26		14,245.10	38,889.37		26,292		88
Fort William	3,008.07	9,871.48		6,938.00	12,879.57	1,118	11,280	2.69	81
Frontenac		39,768.00	6,348.00	53,054.00	48,814		48,814		74
Grey	3,332.91	8,625.82		4,182.22	21,258.04	3,051	11,645	1.09	1.10
Haldimand		7,957.27	306.58	2,165.48	13,519.18		7,247		1.08
Halton		6,885.94		4,089.30	14,528.82		9,147		1.11
Hamilton	9,601.00	109,385.00	826.00	27,457.00	147,969.00	3,534	117,986	2.72	93
Hastings		42,021.50		5,385.59	49,602.09		54,341		1.10
Huron	21.64	14,219.76	220.63	5,178.41	10,241.10		3,269		1.11
Kenora		3,637.64		1,741.91	16,195.08		15,936		90
Kent	14,221.38	7,368.59		5,847.49	29,015.76	9,954	9,115	1.43	81
Lambton		20,744.00	213.05	2,443.00	23,300.14		28,445		70
Lanark		18,658.63		2,361.31	22,483.59		26,949		66
Leeds and Grenville		53,884.85		8,118.28	64,766.37		59,103		91
Lennox and Addington		10,983.25		2,496.02	13,985.38		14,121		78
Lincoln		25,777.04		9,843.71	36,375.80		27,190		95
London and Middlesex	17,388.92	54,906.41	2,746.52	22,990.04	97,031.89	9,460	54,617	1.83	1,01
Manitowlin		1,705.10		1,705.10	1,705.10		2,526		68
Maskoka		1,423.19		4,037.96	6,808.44		541		80
Nipissing		35,766.99		5,176.55	41,265.63		45,240		1.18
Norfolk		41,552.02		11,976.24	54,816.43		35,171		83
Northumberland and Durham	4,784.35	30,066.38		5,478.03	42,320.40	1,983	36,150	2.41	76
Ontario	12,170.33	29,022.88		7,600.61	49,048.90	6,101	37,960	1.99	81
Ottawa and Carleton	26,681.28	273,235.00		64,906.97	369,892.90	14,095	337,720	1.89	71
Oxtow	1,235.71	14,034.41		15,946.40	31,176.71		19,808		58
Parry Sound	1,718.11	3,098.86		3,724.50	8,541.80	1,509	5,322	1.14	1.10
Peel	146.00	8,431.67		9,636.59	21,922.38	82	10,602	1.78	1.15
Peterborough		12,242.63		22,875.50	25,906.13	2,430	17,815	1.59	85
Port Arthur	3,869.10	14,552.48		3,542.61	28,945.29	4,535	21,198	1.60	69
Prescott and Russell	7,278.98	17,988.30		4,851.92	26,458.90		30,014		82
Prince Edward		20,565.34		4,449.91	18,810.44		20,264		53
Rainy River		16,872.12		2,826.91	20,216.40		36,056		72
Renfrew	3,781.76	26,059.42		5,881.50	33,876.89	3,764	73,362	1.00	89
Simcoe		65,118.81		17,390.17	83,387.36		85,646		64
Stromont, Dundas and Glengarry		58,975.61		5,200.74	65,585.18		35,699		86
Sudbury	22,477.00	23,007.33	489.75	12,251.16	58,225.24	8,300	48,819	2.71	87
Temiskaming	1,064.65	42,553.65		9,470.01	53,531.80	2,313	38,819	46	96
Toronto	30,305.08	308,487.71	91,649.60	48,375.13	487,925.52	17,591	321,415	1.72	84
Victoria and Haliburton		22,435.39		2,866.05	27,012.19		26,879		96
Waterloo	9,608.32	49,429.80		17,152.31	78,906.73	5,030	51,449	1.91	96
Welland and Niagara Falls	8,967.38	32,972.20		15,983.01	57,922.59	4,581	34,751	1.96	86
Wellington	1,891.22	31,338.26		9,502.29	44,568.71		36,588		86
Wentworth		22,567.70		4,350.81	27,726.30		25,875		1.03
Windsor (Protestant)		72,235.40		24,552.01	96,845.68		70,467		98
Windsor (Roman Catholic)	19,253.02	62,464.85	2,770.71	34,505.02	104,754.22	4,982	63,926	3.87	98
York	8,342.36	151,828.23	1,912.44	19,124.44	181,072.76	4,251	170,270	1.96	89
R.C. St. Vincent de Paul	4,357.62	155,783.20	12,917.73	12,034.88	223,095.43	20,346	155,866	2.08	1.00
<b>Totals</b>	281,594.31	2,198,202.77	121,492.12	537,517.35	3,202,468.42	151,564	2,494,217	1.86	

\*Pay Care Services only, exclusive of Free and Wage Care Services.

CHILD WELFARE DIVISION  
ORPHANAGES — RESIDENTS — JANUARY 1st, 1946, TO DECEMBER 31st, 1947

NAME OF ORPHANAGE	LOCATION	Number of Beds	Number of Residents Jan. 1, 1946	Number Admitted During Year	Total Number Under Lodgement During Year	Number Discharged During Year	Number of Deaths During Year	Total Number in Residences Dec. 31, 1946
St. Joseph's Orphanage	Cobourg	23	13	10	23	5	.....	18
Nazareth Orphanage	Cornwall	60	66	107	173	126	.....	47
St. Joseph's Orphanage	Fort William	149	109	99	208	87	.....	121
Boys' Home	Hamilton	46	40	8	48	7	.....	41
Girls' Home	Hamilton	60	30	26	56	27	.....	29
Salvation Army Hospital and Home	Hamilton	32	28	178	206	183	.....	23
St. Mary's Orphan Asylum	Hamilton	140	93	42	135	91	.....	44
St. Joseph's Orphanage	Hearst	107	117	101	218	104	.....	114
Orphans' Home and Widows' Friendly Society	Kingston	16	11	53	64	53	.....	21
Hedgewood Home	Kingston	19	94	27	113	92	.....	21
St. Mary's of the Lake	Kingston	35	2	97	99	78	.....	21
Ronald Roy Gray Memorial Home	London	49	26	25	51	26	.....	25
Mount St. Joseph	London	136	80	136	216	132	.....	83
Protestant Orphans' Home	London	55	39	14	53	21	1	32
Salvation Army Rescue Home	London	25	38	273	311	269	.....	42
Protestant Children's Village	London	46	36	137	173	131	.....	42
St. Joseph's Orphanage	Ottawa	170	169	141	307	140	.....	167
St. Mary's Home	Ottawa	28	37	62	99	75	1	23
St. Patrick's Home	Ottawa	55	55	98	153	106	.....	47
Salvation Army Girls' Home	Ottawa	42	42	131	173	151	.....	22
St. Vincent's Orphanage	Ottawa	52	17	9	26	12	.....	14
Loyal True Blue and Orange Home	Peterboro	144	34	34	94	20	.....	74
St. Agatha Orphans' Home	Richmond Hill	80	56	52	108	44	.....	64
Protestant Orphans' Home	St. Catharines	31	13	10	23	7	.....	16
Youville Orphanage	Sudbury	57	45	44	89	39	.....	50
Carmelite Sisters' Orphanage	Toronto	58	52	11	63	10	.....	53
Catholic Welfare Bureau	Toronto	487	487	369	856	350	.....	506
Infants' Home	Toronto	464	464	570	1,034	556	1	477
Pentecostal Bethel Home	Toronto	14	7	44	51	43	.....	8
Protestant Children's Homes	Toronto	.....	.....	.....	.....	.....	.....	.....
St. Mary's Infants' Homes	Toronto	60	45	249	294	239	2	53
Sacred Heart Orphanage	Toronto	54	49	22	71	43	.....	28
Humewood House	Toronto	19	17	106	123	17	.....	106
Jewish Family and Child Service	Toronto	121	121	45	166	131	1	131
Working Boys' Home	Toronto	45	43	131	174	135	.....	39
Salvation Army Children's Home	Toronto	30	29	8	37	15	.....	22
Victor Home	Toronto	28	42	137	179	153	3	23
Salvation Army Vida Lodge	Toronto	50	31	199	230	192	.....	38
The Haven	Toronto	59	46	36	82	39	.....	43
Kitchener and Waterloo Orphanage	Waterloo	52	41	72	41	31	.....	41
Faith Haven	Windsor	40	28	216	244	208	.....	35
		2,142	2,740	4,155	6,895	4,029	10	2,856

CHILD WELFARE DIVISION  
 RECEIPTS — ORPHANAGES — JANUARY 1st, 1946, TO DECEMBER 31st, 1947

NAME	LOCATION	From Paying Residents		From Municipalities for Indigent Residents		Grants from Municipalities, Federal Government, Etc.		Provincial Grants		Interest on Investments, Donations, Endowments, Etc.		Sundry		Community Fund		Total
		\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	
St. Joseph's Orphanage	Cobourg	600.00		187.50		1,185.50		250.20		514.01		2,077.12				4,005.82
Nazareth Orphanage	Corwall	7,493.29				10,921.01		1,082.50		4,276.91						12,452.70
St. Joseph's Boarding School	Fort William	4,491.20						1,955.65		200.85		4,453.03				27,021.74
Boys' Home	Hamilton	3,385.20		5,730.00		751.05		751.05		3,073.87		50.00		3,326.34		16,316.46
Girls' Home	Hamilton	2,716.52		4,534.92		566.85		566.85		2,325.35				4,186.00		14,329.64
Salvation Army Hospital and Home	Hamilton	9,413.30		100.00		1,119.00		1,119.00		1,893.31						13,589.66
St. Mary's Orphan Asylum	Hamilton	6,166.02		16,762.63		1,694.95		1,694.95		2,470.00						33,945.68
St. Joseph's Orphanage	Hurst	16,376.59		601.02		5,488.00		1,903.40		11,631.91				6,852.33		36,150.92
Orphan's Home and Widows' Friendly Society	Kingston	3,227.40						203.15		2,226.99						6,496.24
Hedgewood Home	Kingston	2,977.14		253.20		300.00		429.50		242.00		1,163.65				5,112.29
St. Mary's of the Lake	Kingston	2,594.42						117.40		1,748.82		2,283.92				6,709.76
Ronald Roy Gray Memorial Home	London	3,994.98						4,20.20		4,085.00		1,897.57				9,491.63
Salvation Army Hospital and Home	London	15,064.76				5,000.00		1,423.55		8,225.89		591.45				25,995.67
Mount St. Joseph Orphanage	London	6,041.43		2,460.00				1,566.95		23,170.12		576.66		7,25.00		38,867.85
Protestant Orphan's Home	London	7,749.20		139.60				741.80		7,867.07						22,904.91
Protestant Children's Village	Ottawa	24,951.23		19,749.73				3,185.50		3,250.64				9,500.00		25,995.67
St. Joseph's Orphanage	Ottawa	5,856.33		11,284.60				722.10						5,700.00		64,100.93
St. Mary's Home	Ottawa	9,856.74		117.40		1,836.90		3,880.41		3,380.41						18,534.48
St. Patrick's Home	Ottawa	3,276.13				54.10		1,143.85		865.04		1,053.02				6,392.14
Salvation Army Girls' Home	Ottawa	1,247.00		269.10		500.00		263.15		2,331.77				2,500.00		7,113.02
St. Vincent's Orphanage	Peterborough	6,730.29		700.00		300.00		1,261.45		10,631.50		7,535.03				26,158.27
Loyal True Blue and Orange Home	Richmond Hill	7,625.92						1,086.45		9,635.50		20,858.12				24,522.52
St. Agatha Orphanage	St. Catharines	1,502.15						372.50		3,400.72						26,133.47
Protestant Orphan's Home	St. Catharines	7,577.78						1,055.15		5,242.54						13,553.37
Youville Orphanage	Sudbury	4,190.81						8,690.10								15,091.34
Carmelite Orphanage	Toronto	13,603.81		15,098.10				1,055.15				371.38				30,773.29
Catholic Welfare Bureau	Toronto	25,831.19		75,000.00		36,393.69		8,485.10		7,583.81		815.83		9,474.00		54,152.84
Infants' Homes	Toronto	1,426.75						341.90		1,293.20		1,560.16				15,945.00
Protestant Bethel Home	Toronto	34,936.05		33,855.46				5,162.85		10,753.95		1,895.75		72,960.37		227,814.41
Protestant Children's Homes	Toronto	1,286.16		867.45		2,956.75		1,257.30		110.31						13,513.36
St. Mary's Infants' Homes	Toronto	3,405.46						922.70		708.61				50,424.05		22,439.97
Sacred Heart Orphanage	Toronto	3,066.75		5,304.43		10,846.98		539.30		204.58		602.60				18,369.37
Humeswood House	Toronto	3,206.24		400.00				2,164.30		28.00				16,012.00		22,439.97
Jewish Family and Child Service	Toronto	11,403.93						1,253.95		2,932.71						18,369.37
Working Boys' Home	Toronto	3,929.50						513.30		367.00						9,976.33
Salvation Army Children's Home	Toronto	1,442.56						1,224.85		10,604.94		1,008.60				15,990.59
Victor Home	Toronto	4,438.81						907.05		4,911.32						13,272.35
Salvation Army Vida Lodge	Toronto	5,507.89		1,112.03				4,010.90		1,025.01		229.51				10,766.69
The Haven	Toronto	5,762.87		500.00				741.40		6,840.63				13,768.00		25,663.83
Kitchener-Waterloo Orphanage	Waterloo							872.90		1,838.51						13,859.40
Faith Haven	Windsor	6,102.60				350.00										12,780.25
<b>TOTAL</b>		<b>306,676.31</b>		<b>186,229.76</b>		<b>71,132.43</b>		<b>62,929.85</b>		<b>147,559.19</b>		<b>83,887.40</b>		<b>251,322.31</b>		<b>1,120,736.75</b>

CHILD WELFARE DIVISION  
DISBURSEMENTS — ORPHANAGES — JANUARY 1st, 1946, TO DECEMBER 31st, 1947

NAME OF ORPHANAGE	LOCATION	Total Collective Days Stay in Residence	Total Cost of Dietries	Other Maintenance Costs	Total Disburse- ments	Operating Surplus or Deficit	Per Diem Cost
			\$ C.	\$ C.	\$ C.	\$ C.	\$ C.
St. Joseph's Orphanage	Cobourg	4,977	2,068.17	3,044.95	5,113.12	* 207.30	1.03
Nazareth Orphanage	Cornwall	20,868	5,168.27	8,322.56	13,560.83	* 1,108.13	.65
St. Joseph's Boarding School	Fort William	40,521	9,760.50	16,342.55	26,103.05	† 918.69	.64
Boys' Home	Hamilton	15,383	5,353.38	10,730.65	16,084.03	† 232.43	1.05
Girls' Home	Hamilton	11,001	4,439.63	10,077.21	14,516.84	* 187.20	1.32
Salvation Army Hospital and Home	Hamilton	10,882	4,809.83	11,770.25	16,580.08	* 3,990.42	1.52
St. Mary's Orphan Asylum	Hamilton	32,883	15,157.36	17,681.23	32,838.59	* 1,106.89	1.01
St. Joseph's Orphanage	Hearst	38,786	11,163.06	25,795.02	36,958.06	* 807.14	.95
Orphans' Home and Widows' Friendly Society	Kingston	4,775	2,586.85	9,233.04	11,819.89	* 5,323.65	2.48
Hedgewood Home	Kingston	7,801	1,824.19	7,010.67	8,834.86	* 3,732.57	1.13
St. Mary's of the Lake	Kingston	6,340	1,235.59	2,517.57	3,753.16	† 3,244.60	.59
Ronald Roy Gray Memorial Home	London	8,379	2,634.72	8,276.51	10,911.23	* 1,419.60	1.27
Mount St. Joseph Orphanage	London	19,955	6,138.80	21,989.16	28,127.96	* 9,240.08	1.76
Salvation Army Hospital and Home	London	29,249	9,606.80	14,752.81	24,359.61	* 1,454.70	1.00
Protestant Orphans' Home	London	13,555	3,404.25	10,100.95	13,505.70	† 17,620.30	1.00
Protestant Children's Village	Ottawa	14,892	1,688.41	21,732.75	23,441.30	† 7,554.31	1.57
St. Joseph's Orphanage	Ottawa	62,034	35,839.33	36,253.96	72,093.29	* 7,252.56	1.16
St. Mary's Home	Ottawa	7,998	4,000.23	13,261.04	17,261.27	* 1,273.21	2.16
St. Patrick's Home	Ottawa	19,388	7,203.10	12,389.24	19,592.34	* 2,841.61	1.01
Salvation Army Girls' Home	Ottawa	11,091	2,862.36	9,041.60	11,904.16	* 5,512.12	1.07
St. Vincent Orphanage	Peterboro	4,636	1,340.83	9,348.93	5,279.76	† 1,933.26	1.14
Loyal True Blue and Orange Home	Richmond Hill	25,824	5,781.41	25,007.26	30,788.67	* 4,630.40	1.19
St. Agatha Orphans' Home	St. Agatha	22,460	3,995.17	10,195.91	14,191.08	† 10,331.42	.63
Protestant Orphans' Home	St. Catharines	5,338	1,601.11	20,857.23	22,458.34	* 3,675.15	4.20
Yorville Orphanage	Sudbury	16,436	3,676.32	10,642.30	14,318.62	* 760.25	.73
Carmelite Sisters' Orphanage	Toronto	20,554	5,050.06	10,041.28	15,091.34	* 69.17	.44
Infants' Home	Toronto	122,894	31,239.75	22,982.26	54,222.01	* 1,895.38	1.32
Pentecostal Bethel Home	Toronto	173,778	2,662.94	22,046.85	229,709.79	* 4,910.30	1.24
Protestant Children's Home	Toronto	3,951	1,255.18	3,655.12	4,910.30	† 47.30	1.21
St. Mary's Infants' Home	Toronto	111,922	93,990.61	41,109.18	135,099.79	† 32.57	1.21
Sacred Heart Orphanage	Toronto	16,803	8,314.78	15,529.48	23,844.26	* 1,404.29	1.42
Humewood House	Toronto	16,509	6,233.39	12,276.98	18,510.37	* 1,414.00	1.12
Jewish Family and Child Service	Toronto	8,012	2,381.06	7,595.27	9,976.33	* 14.57	1.25
Working Boys' Home	Toronto	46,255	23,430.49	22,342.76	45,773.25	† 861.17	.99
Salvation Army Children's Home	Toronto	6,537	5,745.87	9,331.21	15,077.08	† 913.51	2.31
Victor Home	Toronto	8,935	2,191.34	7,950.17	10,141.51	* 4,333.11	1.14
Salvation Army Vida Lodge	Toronto	14,105	6,576.63	9,208.24	15,784.87	* 2,512.52	1.12
The Haven	Toronto	12,816	3,886.16	15,660.26	19,546.42	* 8,779.73	1.53
Kitchener and Waterloo Orphanage	Waterloo	16,600	3,935.34	21,726.40	25,661.74	† 2,009	1.55
Faith Haven	Windsor	11,097	1,934.48	8,059.71	9,994.19	† 4,810.55	.71
		1,054,680	355,114.72	781,673.48	1,136,788.20	† 2,786.06	1.08

\*—Excess of Disbursements over Receipts

†—Excess of Receipts over Disbursements

\$69,444.39

\$1,136.62

## REPORT OF THE MOTHERS' ALLOWANCE COMMISSION

### Statistical Report

Number of Beneficiaries on payroll March 31st, 1946	6,687	
Number of Beneficiaries on payroll March 31st, 1947	6,587	
Decrease during year	100	
Number of Beneficiaries on payroll March 31st, 1947	6,587	No. of Children 13,736
Number of Beneficiaries on payroll part of year but later cancelled	1,235	1,952
<b>Totals</b>	<b>7,822</b>	<b>15,688</b>

Average Number per Family 2

Number of Families in—		No. of Children	Average No. of Children
Cities— Active	3,046	5,846	1.92
Cancelled	615	907	1.47
Towns— Active	75	135	1.80
Cancelled	17	27	1.53
Districts— Active	818	1,976	2.42
Cancelled	144	273	1.90
Counties— Active	2,648	5,779	2.18
Cancelled	459	745	1.62
	<b>7,822</b>	<b>15,688</b>	<b>2</b>

COUNTRY OF BIRTH	Active	Cancelled	Total
Canada	4,676	849	5,525
British	1,217	260	1,477
Others—Naturalized	694	126	820
	<b>6,587</b>	<b>1,235</b>	<b>7,822</b>

PERCENTAGE	Active	Cancelled	Total
Canada	70.99%	68.74%	70.63%
British	18.47%	21.05%	18.88%
Others—Naturalized	10.54%	10.21%	10.49%
	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>

CAUSE OF DEATH	Active	Cancelled	Total
Tuberculosis	364	75	439
Cancer	505	103	608
Others	3,828	696	4,524
	<b>4,697</b>	<b>874</b>	<b>5,571</b>

CAUSE OF INCAPACITATION	Active	Cancelled	Total
Tuberculosis	369	106	475
Cancer	27	4	31
Mental	177	45	222
Epilepsy	15	10	25
Others	846	95	941
	<b>1,434</b>	<b>260</b>	<b>1,694</b>



MOTHERS' ALLOWANCE COMMISSION — Report for the Fiscal Year Ending March 31st, 1947

	DECISIONS										NUMBER OF FAMILIES WITH										CANCELLATIONS					INELIGIBLE												
	Applications Received	Applications Granted	Renewals Granted	Reinstated	Ineligible and Deferred	Renewals Refused	Cancelled and Suspended	Continued	Increased	Reduced	Total	No. on Paylist, Mar. 31, 1947	No. on Paylist part of Year but Later Cancelled	1 Child	2 Children	3 Children	4 Children	5 Children	6 Children	7 Children	8 Children	9 Children	10 Children	11 Children	12 Children	13 Children	Total	Number Children Under 16	Re-Married	Income	Unsatisfactory	Man not Perm. Unemploy'ble	Other Reasons	Total				
Widow	798	500	89	166	319	75	997	249	400	915	3710	4697	874	2228	1233	648	333	154	56	21	15	3	3	2	1	4697	233	194	239	56	275	997	14	2	95	112	196	319
Incapacitation	498	220	59	70	232	59	263	63	158	242	1366	1234	212	445	335	207	106	74	36	17	9	2	2	1	1	1234	35	71	14	61	82	263	4	24	216	186	232	
Mental	67	29	9	11	29	8	53	5	20	41	205	176	45	68	49	23	16	8	3	4	1	1	1	1	1	176	7	17	3	12	14	53	3	4	22	29		
Desertion	238	92	13	13	122	19	57	10	22	47	395	270	53	108	89	43	19	7	4	1	1	1	1	1	1	270	12	14	3	28	57	1	10	3	108	122		
Foster Mother (Incapacitation)	51	11	2	28	17	6	60	7	3	19	153	183	46	109	52	15	6	1	1	1	1	1	1	1	1	183	26	3	2	29	60	1	2	14	17			
Foster Mother (Mental)	16	6	6	4	2	8	1	1	4	31	23	3	11	7	4	1	1	1	1	1	1	1	1	1	1	23	1	1	1	6	8	1	1	4	4			
Foster Mother (Desertion)	13	1	1	10	2	2	2	2	4	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		
Total	1682	859	172	294	1735	171	114	40	1335	1603	12681	5877	6587	1235	2971	1766	941	480	245	109	41	28	6	6	3	16587	316	104	345	787	344	19	31	34	172	21	541	1735

## APPENDICES

### TO REPORT 1946 - 1947

## UNEMPLOYMENT RELIEF BRANCH

**TABLE A—Gross Monthly Direct Relief Expenditures on a Comparative Basis for the Fiscal Years Ending March 31st, 1947, 1946 and 1945**

MONTH	EXPENDITURES		
	1946-47	1945-46	1944-45
Total Expenditures .....	\$2,826,605	\$2,492,426	\$2,252,100
April .....	223,332	199,610	193,585
May .....	223,532	186,457	182,783
June .....	207,974	185,554	166,010
July .....	208,787	185,231	164,367
August .....	206,835	178,429	163,362
September .....	215,454	180,711	163,535
October .....	229,280	209,387	181,552
November .....	246,177	217,798	197,844
December .....	252,820	232,924	199,263
January .....	250,866	231,444	212,304
February .....	280,563	236,740	214,887
March .....	280,985	248,141	212,608

**TABLE B—Gross Monthly Numbers in Receipt of Relief on a Comparative Basis for the Fiscal Years Ending March 31st, 1947, 1946 and 1945.**

MONTH	NUMBERS		
	1946-47	1945-46	1944-45
Average Monthly Numbers .....	17,123	15,719	15,255
April .....	16,962	15,467	14,757
May .....	16,932	15,204	15,476
June .....	16,396	14,956	15,588
July .....	16,633	14,380	15,080
August .....	16,065	14,077	14,797
September .....	16,203	14,320	14,576
October .....	16,395	15,218	14,828
November .....	16,818	15,871	14,793
December .....	17,349	16,544	15,125
January .....	18,310	17,397	16,054
February .....	18,732	17,589	16,061
March .....	18,676	17,607	15,922

**TABLE C—Total Persons in Receipt of Relief, March 1947, 1946 and 1945, Showing Percentages of Increase.**

PERSONS	MONTH OF MARCH		
	1947	1946	1945
Heads of Families .....	3,880	3,645	3,298
Dependents .....	9,337	8,702	7,768
Single Individuals .....	5,459	5,260	4,856
TOTAL PERSONS .....	18,676	17,607	15,922
TOTAL CASES .....	9,339	8,905	8,154
% POPULATION ON RELIEF .....	.49	.47	.43

**TABLE D—Per Capita and Case Costs Based on March 1947, 1946 and 1945.**

AVERAGE COSTS	MONTH OF MARCH		
	1947	1946	1945
PER CAPITA .....	\$15.16	\$14.09	\$13.35
COST PER CASE .....	\$30.01	\$27.87	\$26.07

# SOLDIERS' AID COMMISSION OF ONTARIO

No. 1 ACCOUNT — (OPERATING)

## Statement of Receipts and Expenditures

April 1st, 1946, to March 31st, 1947

### RECEIPTS

March 31st, 1947

Provincial Treasurer—re Grants .....	\$ 12,016.02	
Provincial Treasurer—re Salaries and bonus .....	14,966.29	
		\$ 26,982.31
Less—Refund to Provincial Treasurer .....		307.83
		<u>\$ 26,674.48</u>

### EXPENDITURES

Office Salaries .....	\$ 14,696.30	
Office Bonus .....	269.99	
		\$ 14,966.29
Car Tickets .....		80.00
Postage .....		175.00
Stationery .....		216.78
Telegraph and Telephone .....		23.18
Travelling Expenses .....		2,066.03
Miscellaneous Expenses .....		106.08
Transfer of Funds to No. 2 Account .....		9,041.12
		<u>\$ 26,674.48</u>

ACCOUNTS No. 2 AND No. 8 ACCOUNT, (HAMMOND ESTATE)

## Children's (Wards) Trust Account and Estates of Hales, Croft, Scott and McNab

April 1st, 1946, to March 31st, 1947

### Statement of Receipts

April 1st, 1946

Balance brought forward from 1945-46 statement :

Investments .....	\$ 205,601.54	
Cash in Bank .....	14,693.21	
		\$ 220,294.75
Less :—		
Sale of 1 Bond, (Hammond Estate).....	\$ 988.35	
Bonds matured, (called-up) .....	31,300.00	
		32,288.35
		<u>\$ 188,006.40</u>

RECEIPTS (Accounts Nos. 2 and 8 Cont'd.)

1946-47

No. 2 Account, (Emergency Assistance):			
Transfer of Funds from No. 1 Account	.....	\$ 9,041.12	
Other Sources	.....	800.75	
			9,841.87
Hales Estate		\$ 45.47	
Croft Estate	.....	187.95	
Scott Estate	.....	490.63	
McNab Estate	.....	376.99	
			\$ 1,101.04
No. 8 Account, (Hammond Estate):		\$ 1,147.45	
National Trust	.....	10,621.82	
Bond Interest	.....	988.35	
Sale of Bond	.....	24,300.00	
Bonds Matured	.....		\$ 37,057.62
Wards Trust Account:		\$ 385.00	
Bond Interest	.....	17.94	
Bank Interest	.....	7,000.00	
Bonds Matured	.....		\$ 7,402.94
			<u>\$ 243,409.87</u>

Statement of Expenditures

March 31st, 1947

No. 2 Account, (Emergency Assistance):			
Gratuities	.....	\$ 9,041.12	
Other Sources	.....	878.27	
			\$ 9,919.39
Hales Estate—Grants		\$ 50.00	
Croft Estate—Grants	.....	12.41	
Accrued Interest—Purchase of Bond	.....	55.00	
Premium on Purchase of Bond	.....	161.79	
McNab Estate—Grants	.....	144.87	
Scott Estate—Grants	.....		
No. 8 Account, (Hammond Estate):		15,747.58	
Grants	.....	28.48	
Accrued Interest—Purchase of Bond	.....	105.00	
Premium on Purchase of Bond	.....		
Wards Trust Account:			
Payments	.....	35.00	
Accrued Interest—Purchase of Bond	.....	9.49	
Premium on Purchase of Bond	.....		\$ 16,349.62

ASSETS

Croft Estate:			
Investments	.....	\$ 14,840.00	
Scott Estate:			
Investments	.....	2,700.00	
Hammond Estate, (No. 8 Account):			
Investments	.....	188,999.34	
Wards Trust Account:			
Investments	.....	7,000.00	
Balance at Bank	.....	3,601.52	
			\$ 217,140.86
			<u>\$ 243,409.87</u>

## Land Settlement Account — Barrie Property

### Statement of Receipts and Expenditures

April 1st, 1946, to March 31st, 1947

April 1st, 1946

Assets :

Bonds, (Face Value) .....		\$ 5,500.00
Balance at Bank .....	\$ 819.62	
Less—Hydro Deposit .....	60.00	
	\$ 759.62	
Barrie Property, Land .....	8,073.02	
Barrie Property, Buildings, Etc. ....	3,930.55	
		12,763.19

March 31st, 1947

Receipts :

Rents .....	\$ 1,620.00	
Bank Interest .....	18.79	
Bond Interest .....	165.00	
		1,803.79
		\$ 20,066.98

### EXPENDITURES

March 31st, 1947

Miscellaneous Expenses, (Repairs to Buildings) .....	\$ 100.59	
Taxes .....	41.83	
Special Grant to School Board—Innisfil Area No. 2, re Settlement School Children .....	200.00	
		\$ 342.42
Depreciation—re Buildings .....	\$ 353.25	
Premium on Bond .....	5.00	
		358.25

### ASSETS

Land .....	\$ 8,073.02	
Buildings, (after depreciation) .....	3,577.30	
		11,650.32
Bonds, (Face Value) .....		6,500.00
Balance at Bank .....	\$ 1,275.99	
Less—Hydro Deposits .....	60.00	
		1,215.99
		\$ 20,066.98

## SOLDIERS' AID COMMISSION — SERVICE STATISTICAL REPORT

APRIL 1st, 1946, TO MARCH 31st, 1947

Month	A. No. 2 Acc't.	B. Hales, Scott, McNab Estates	C. No. 8 Acc't.	D. Can- teen Fund	E. Employ- ment, Pension and Service	F. Misc.	Total
1946							
April .....	81	6	53	40	30	169	379
May .....	79	—	30	32	56	190	387
June .....	79	—	30	32	50	162	353
July .....	76	1	42	38	36	174	367
August .....	71	1	24	31	35	150	312
September .....	89	1	55	54	51	182	432
October .....	93	—	52	35	52	189	421
November .....	85	2	56	35	36	192	400
December .....	92	6	98	30	29	170	425
1947							
January .....	120	2	56	35	58	180	451
February .....	104	3	56	27	47	179	416
March .....	144	—	50	35	48	174	451
	1,113	22	602	424	522	2,111	4,794

### NOTE

- A. Emergency assistance granted.
- B. Emergency assistance from Trust Funds.
- C. Kathleen Hammond Bequest Trust Fund, emergency assistance to pensioned widows of veterans.
- D. Administration of special grants from Canteen Fund and cases submitted to that Fund for consideration.
- E. Information, advice and assistance in respect to claims for treatment and pensions, also employment by veterans.
- F. General Advice given on matters relating to Public and Private Welfare facilities for veterans or their dependents.

Number of Office Interviews .....	3,097
Number of Letters Received .....	4,218
Number of Letters Mailed .....	4,042

## FINANCIAL ASSISTANCE GRANTED

APRIL 1st, 1946, TO MARCH 31st, 1947

Month	No. 2 Account	Hales, Scott, McNab Estates	Hammond Estate No. 8 Account	C'teen Fund and Other Sources	Total
<b>1946</b>					
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
April .....	565.36	50.00	1,515.00	155.00	2,285.36
May .....	651.76	.....	680.00	86.50	1,418.26
June .....	650.57	99.87	943.00	57.30	1,750.74
July .....	694.90	15.00	1,055.00	38.80	1,803.70
August .....	505.94	.....	600.00	83.25	1,189.19
September .....	706.13	25.00	1,479.55	33.42	2,244.10
October .....	669.01	.....	1,370.00	116.00	2,155.01
November .....	717.86	20.00	1,295.00	109.00	2,141.86
December .....	907.20	90.00	2,736.85	29.50	3,763.55
<b>1947</b>					
January .....	948.40	46.79	1,350.68	.....	2,345.87
February .....	1,000.99	50.00	1,440.50	132.00	2,623.49
March .....	1,346.75	.....	1,282.00	32.00	2,660.75
	9,364.87	396.66	15,747.58	872.77	26,381.88

**ANALYSIS OF ASSISTANCE RENDERED FROM No. 2 ACCOUNT:  
KATHLEEN HAMMOND: HALES: SCOTT AND McNAB ES-  
TATES: ALSO FROM OTHER SOURCES, APRIL 1st, 1946,  
TO MARCH 31st, 1947.**

Hospital, Medical and Surgical Supplies .....	29
Fuel, (Emergency) .....	7
Men's, Women's and Children's Clothing .....	30
Special Diet and Emergency Grocery Orders .....	148
Transportation .....	20
Glasses .....	138
Dentures .....	109
Special Grants, (Material, Supplies, Stock-in-Trade) .....	1,266
Artificial Limbs, Hearing Aids, Wheel Chairs .....	18

## PENSIONS FOR THE BLIND

### Report of the Old Age Pensions Commission

#### Summary — Fiscal Year 1946-47

	1945-46	1946-47	% of Change
Number on Paylist at the beginning of Fiscal Year .....	1,488	1,543	3.7
Grants .....	157	199	26.8
Reinstatements .....	21	46	119.
Transfers .....	7	9	28.5
Number on Paylist at end of Year .....	1,673	1,797	7.41
Less Cancellations .....	130	174	33.8
	1,543	1,623	5.18
Number of Cases Dealt with During Year .....	357	574	59.9
Full Grants .....	177		
Part Grants .....	22		
	199		
SEX—Male .....	94		
Female .....	105		
	199		
CIVIL STATUS—Single .....	59		
Married .....	99		
Widow or Widower .....	41		
	199		
AGE—40-45 .....	23		
46-50 .....	14		
51-55 .....	15		
56-60 .....	25		
61-65 .....	39		
66-70 .....	53		
71-75 .....	14		
76-80 .....	15		
81 and over .....	1		
	199		
NATIONALITY—Canadian Born .....	151		
British Born .....	40		
Foreign Born .....	8		
	199		
Reinstatements .....	21	46	119
Transfers .....	7	9	28.5
Cancellations .....	130	174	33.8
Increases .....	4	43	975
Deductions .....	0	41	112
Refused .....	30	54	80.

#### REFUSED—Reasons for Refusals :

Assets, other than Property .....	0
Earnings .....	11
Not over 40 years of age .....	2
Too much vision .....	28
Not a British subject .....	1
Other Reasons .....	3



## OLD AGE PENSIONS

### Report of the Old Age Pensions Commission

#### Summary — Fiscal Year 1946-47

	1945-46	1946-47	% of Change
Number of Paylist at the beginning of Fiscal Year	58,113	60,831	4.5
Grants	9,200	10,587	1.51
Reinstatements	1,175	1,343	1.43
Transfers to Ontario from other Provinces	429	486	1.33
<b>Sub-Total</b>	<b>68,917</b>	<b>73,247</b>	<b>6.2</b>
Less Cancellations	8,086	8,162	.76
<b>Number on Paylist at end of Fiscal Year</b>	<b>60,831</b>	<b>65,085</b>	<b>6.28</b>
Number of Cases dealt with during year	22,765	25,552	12.24
Full Grants—1946-47	8,952		
Part Grants—1946-47	1,605		
	10,587		
SEX—Male	4,621		
Female	5,966		
	10,587		
CIVIL STATUS—Single	1,250		
Married	4,491		
Widow or Widower	4,586		
Separated	260		
	10,587		
AGE—70-75	8,357		
76-80	1,364		
81-85	605		
86 and over	260		
	10,587		
NATIONALITY—Canadian Born	7,293		
British Born	2,715		
Foreign Born	579		
	10,587		
Reinstatements	1,175	1,343	
Transfers	429	486	
Cancellations	8,086	8,162	
Increases	1,743	2,203	
Reductions	435	882	
Former Decisions Sustained	107	146	
REFUSED—Reason for Refusals :			
Assets, other than prop-			
erty	391		
Property	10		
Transfer of assets	114		
Income or earnings	392		
Not 70 Years of age	165		
Parents' Maintenance Act	10		
Residence	64		
Not a British subject	42		
Other reasons	555		
	1,743		

HOMES FOR THE AGED  
 RECEIPTS — County and District Homes for the Aged — January 1st to December 31st, 1946

NAME	Location	Cash Sales from Farm or Garden		Donations, Bequests, Etc.		Interest Earned		Provincial Government		All Municipalities		Paying Residents		All Pensioners		Sundry	Total
		\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.		
Brant	Brantford	790.72								7,545.78		682.00		11,374.00		1,000.00	21,392.50
Bruce	Walkerton	2,839.76								12,436.91		879.45		8,581.03		290.00	25,027.15
Elgin	St. Thomas	4,395.74								3,980.70		61.00		4,353.00		207.16	12,997.60
Essex	Leamington	3,147.19								8,818.26		3,234.55		9,519.12			24,719.12
Grey	Markdale	3,115.82								3,194.00		2,207.27		10,158.00			18,675.09
Haldimand	Dunnville	1,826.26								5,239.69		1,069.62		3,556.44		35.24	11,272.25
Hastings	Belleville	1,822.07								8,517.09		2,129.25		11,533.19		90.00	24,091.60
Huron	Clinton	2,631.07				11.25				19,500.00		3,055.79		8,844.58			34,042.69
Kent	Chatham	1,449.30		184.75						9,555.52		1,009.00		5,544.00		95.35	16,584.76
Lambton	Sarnia	771.95								8,965.02		114.63		9,655.09		22.00	22,184.63
Lanark	Perth	3,427.89								150.06		150.06		4,200.00			7,636.37
Leeds and Grenville	Athens	1,736.87		691.39						858.05		943.03		6,135.39		403.00	30,897.57
Lincoln	St. Catharines	7,763.75								23,681.44		1,404.69		5,591.44		125.94	36,923.72
Midsex	Stratroy	6,120.21								14,788.93		668.04		8,799.50			24,738.74
Norfolk	Simcoe	413.60								2,999.05		2,218.85		11,693.86		2,089.79	19,001.55
Northumberland and Durham	Cobourg	2,999.05							1,229.20	3,480.58		2,761.31		14,487.52			33,650.18
Ontario	Whitby	10,373.04		1,318.53						9,274.92		1,596.11		8,072.00		43.95	25,281.26
Oxford	Woodstock	6,274.28								10,000.00		8,552.22		10,966.88			29,974.11
Peel and Halton	Brampton	455.01				154.31				13,307.18		2,673.64		3,843.85			20,653.04
Peterborough	Stratford	674.46								10,489.63		854.92		2,177.00			4,321.68
Prescott and Russell	Lakefield	1,289.76								642.06		5,636.00		5,636.00		5.00	7,836.22
Prince Edward	St. Catharines	4,257.78								9,787.72		3,099.20		9,093.23		219.50	43,089.53
Simcoe	Barton	1,185.93								26,268.92		3,370.24		7,609.22		186.81	37,297.12
Stromont, Dundas and Glengarry	Brockton	3714.11							255.50	16,465.87		2,074.15		10,181.90			18,948.44
Victoria	Lindsay	9,664.98								1,041.69		3,640.59		16,656.80		126.37	70,723.28
Waterloo	Kitchener	5,394.86				5.00				33,403.74		319.52		6,918.08		486.18	51,184.27
Welland	Welland	16,890.78								22,384.73		2,900.00		10,750.00		1,744.25	18,189.02
Wellington	Pergus	1,025.36								8,920.56		249.35		9,723.47		18.00	18,911.38
Wentworth	Dundas	750.00				13.81				1,442.72		9,017.43		264,824.58		7,432.21	740,017.57
York	Newmarket	1,468.67								55,454.78		202.40		6,858.99		18.00	31,932.84
TOTAL	TOTAL	108,670.35		2,133.48		165.50			1,484.70	299,771.91		55,454.78		2,400.30		21,329.55	3,932,884
Algoma House of Refuge	Sault Ste. Marie	1,123.60							2,400.30	21,329.55		888.10		10,261.00			20,910.96
Home of the Aged, Nipissing	North Bay	56.12				70.00			2,529.10	7,106.55		633.99		1,562.60			14,271.91
Perry Sound House of Refuge	Powassan								1,562.60	5,144.60		633.99		24,050.71			67,115.71
TOTAL	TOTAL	1,179.72				70.00			6,492.00	33,580.70		1,724.58				18.00	

## DISBURSEMENTS — County and District Homes for the Aged — January 1st, 1946, to December 31st, 1946

NAME	LOCATION	Fuel, Light, Water, Etc.		Replacements and Repairs to Buildings, Etc.		Farm, Garden, Equip-ment & Supplies		Food, Clothing, Etc.		House-hold Expenses		Ad-mis-tration Ex-penses		Funer-al Ex-penses		Insur-ance Ex-penses		Mort-gage, Prin-cipal & In-terest		Salaries and Wages		Rent, or Taxes, Etc.		Office Ex-penses		Hospital and Medical Supplies		Refund to Pen-sioners, Resi-dents, Etc.		Sundry		Total			
		\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.		\$	c.	
Brant	Braunford	1,927.27		3,264.73		1,296.01		5,364.21		1,069.71		448.84		391.27		7,148.65		17.86		171.92		300.00		300.00		4725.06		22,000.47		25,022.15					
Bruce	Walkerton	1,620.56		1,434.05		2,234.89		8,674.37		785.95		149.37		2.64		3,118.79		94.88		637.57		1,006.82		4725.06		24,979.60		23,992.60		24,719.12					
Elgin	St. Thomas	1,271.86		1,303.56		2,950.63		3,885.31				93.28		300.00		3,040.00		73.40		203.17		1,011.00		1,011.00		2,497.79		19,383.86		24,719.12					
Essex	Leamington	1,784.14		1,991.30		3,364.17		6,465.37		2,425.65		591.28		210.00		6,329.88		43.30		472.93		1,086.00		160.73		2,497.79		10,446.36		24,719.12					
Grey	Markdale	2,107.65		1,382.40		1,308.67		5,412.63				608.00		210.00		4,836.05		30.86		277.54		1,699.97		160.73		2,497.79		10,446.36		24,719.12					
Haldimand	Dunnville	1,165.43		824.58		2,568.05		1,818.25		508.59		608.00		104.25		2,942.47		43.30		277.54		1,699.97		160.73		2,497.79		10,446.36		24,719.12					
Hastings	Bellefleur	2,453.50		3,256.31		5,409.94		6,585.47		540.94		483.32		275.00		6,132.93		108.93		498.48		1,699.97		160.73		2,497.79		10,446.36		24,719.12					
Huron	Clinton	3,466.63		5,833.74		5,694.86		8,071.57		1,079.08		483.32		275.00		6,077.01		62.02		659.90		1,218.40		3,853.02		2,497.79		10,446.36		24,719.12					
Kent	Chatham	2,417.52		447.85		1,624.69		5,677.25				206.60		209.62		7,731.31		62.02		659.90		1,218.40		3,853.02		2,497.79		10,446.36		24,719.12					
Kerr	Sarnia	1,232.54		942.70		701.97		4,554.34		446.23		411.81		158.00		6,044.36		76.89		412.15		394.00		7,444.43		2,497.79		10,446.36		24,719.12					
Lambton	Lambton	2,835.84		763.67		2,643.59		7,660.41		1,788.66		411.81		158.00		3,840.84		25.97		353.92		96.83		267.45		2,497.79		10,446.36		24,719.12					
Lanark	Perth	2,875.73		2,814.03		1,686.96		4,933.53		1,048.81		33.35		296.00		5,724.36		206.49		510.84		149.32		1,110.39		2,497.79		10,446.36		24,719.12					
Leeds and Grenville	Leeds	1,808.64		3,777.09		5,900.55		6,896.82		2,154.00		129.39		125.94		8,384.43		206.49		510.84		149.32		1,110.39		2,497.79		10,446.36		24,719.12					
Lincoln	Lincoln	2,652.60		1,325.07		7,698.75		5,365.67		1,454.72		120.02		120.02		5,690.70		206.49		510.84		149.32		1,110.39		2,497.79		10,446.36		24,719.12					
Middlesex	Stratroy	1,906.06		1,325.28		3,639.93		6,174.80		1,688.45		116.79		162.03		5,943.80		89.31		270.43		96.83		333.68		2,497.79		10,446.36		24,719.12					
Norfolk	Simcoe	2,701.17		2,285.54		8,742.42		12,107.70		1,159.64		1,940.42		200.00		4,680.31		89.31		270.43		96.83		333.68		2,497.79		10,446.36		24,719.12					
Northumberland and Durham	Whitby	3,476.71		2,300.28		4,525.66		18,766.94		3,359.74		245.82		200.00		6,158.09		289.31		567.26		1,660.04		306.69		2,497.79		10,446.36		24,719.12					
Oxford	Oxford	3,039.36		1,339.42		6,105.68		4,697.08		1,216.22		1,500.11		134.50		4,680.31		89.31		567.26		1,660.04		306.69		2,497.79		10,446.36		24,719.12					
Peel and Halton	Woodstock	2,280.30		8,819.79		4,097.09		8,088.31		1,510.97		878.34		200.00		4,200.17		83.92		282.57		332.35		626.78		2,497.79		10,446.36		24,719.12					
Perth	Stratford	2,057.50		3,227.75		1,804.11		8,552.08		1,419.97		491.05		155.00		2,148.00		83.92		282.57		332.35		626.78		2,497.79		10,446.36		24,719.12					
Peterborough	Lakefield	795.45		1,501.50		1,501.50		3,711.71				86.60		125.00		2,219.35		89.78		118.41		301.69		365.76		2,497.79		10,446.36		24,719.12					
Prince Edward	L'Orignal	2,688.46		3,036.27		2,610.86		515.37				90.70		150.00		6,569.33		89.78		118.41		301.69		365.76		2,497.79		10,446.36		24,719.12					
Prince George	Pictou	1,313.46		1,594.53		741.40		3,837.90				101.39		192.50		2,763.00		89.78		118.41		301.69		365.76		2,497.79		10,446.36		24,719.12					
Simcoe	Beeton	3,055.79		1,352.51		1,629.72		10,171.25		1,984.60		1,314.45		338.75		5,546.33		15.82		332.80		1,483.80		1,456.57		2,497.79		10,446.36		24,719.12					
Stornont, Dundas and Glengarry	Stornont	2,844.76		1,629.08		7,925.98		13,252.97		1,589.88		440.45		90.00		6,502.06		15.82		332.80		1,483.80		1,456.57		2,497.79		10,446.36		24,719.12					
Victoria	Lindsay	3,491.06		1,854.51		2,250.44		8,845.76		581.77		433.33		86.00		4,202.62		15.82		332.80		1,483.80		1,456.57		2,497.79		10,446.36		24,719.12					
Waterloo	Kitchener	7,671.06		1,857.06		6,257.07		24,394.23		2,606.20		1,137.86		390.00		21,227.69		296.35		118.78		932.60		2,911.86		2,497.79		10,446.36		24,719.12					
Welland	Welland	2,790.26		5,214.59		2,672.38		12,405.93		396.54		1,137.86		390.00		5,110.10		296.35		118.78		932.60		2,911.86		2,497.79		10,446.36		24,719.12					
Wellington	Pergus	2,149.30		2,466.69		1,884.91		3,091.58		396.54		1,137.86		390.00		5,110.10		296.35		118.78		932.60		2,911.86		2,497.79		10,446.36		24,719.12					
Weston	Dundas	1,842.84		1,354.84		775.42		5,014.54		604.62		1,765.88		540.00		3,872.50		142.87		50.46		296.62		661.45		2,497.79		10,446.36		24,719.12					
York	Newmarket	3,053.67		5,503.69		747.45		5,293.86				182.31		1,006.18		5,428.51		70.07		1,084.50		2,466.42		791.41		2,497.79		10,446.36		24,719.12					
		76,777.18		82,000.48		99,958.33		228,765.19		34,284.88		16,409.66		4,518.36		616.04		1,987.83		14,171.54		14,819.25		23,207.41		791.41		2,497.79		10,446.36		24,719.12			
		3,142.77		5,872.63		2,124.18		9,237.57		2,458.11		1,308.93		203.65		8,434.86		146.58		933.08		777.28		500.45		35,140.14		20,694.30		21,853.49					
		1,508.36		1,278.30		478.42		8,527.94		442.25		232.00		290.00		4,849.98		296.35		1,541.02		808.02		675.10		20,694.30		21,853.49							
		1,004.82		310.23		118.70		5,461.54		417.25		1,540.93		348.00		16,701.84		132.13		1,917.92		306.97		627.43		20,694.30		21,853.49							
		5,655.95		7,461.21		2,721.30		23,227.05		3,317.85		1,540.93		348.00		16,701.84		575.06		3,392.02		1,952.27		1,175.55		68,687.93		20,694.30		21,853.49					

Alkoma House of Refuge  
Nipissing Home of the Aged  
Parry Sound House of Refuge

STATISTICS — County Houses of Refuge, District Houses of Refuge : Homes for the Aged — January 1st to December 31st, 1946

NAME	LOCATION	Number Resi- dents Jan. 1st 1946	Number Admis- sions	Total Under Lodge- ment During Year	Number Dis- charged During Year	Number of Deaths During Year	Number of Residents at December 31st, 1946			Num- ber Paid for by Muni- cipal- ities	Number of Free Resi- dents	Number of Pen- sioners	Total Days Stayed by All Resi- dents	Dormi- tory Capacity in Beds	Total Num- ber of Beds Made Up
							December 31st, 1946		Total						
							Male	Female							
Algonia House of Refuge	Sault St. Marie	86	16	102	5	12	85	13	85	1	30	71	29,093	85	85
Nipissing Home of the Aged	North Bay	45	21	66	9	7	50	13	50	16	14	15	19,249	58	58
Perry Sound Dist. Hse. of Refuge	Powasson	42	8	50	2	5	43	3	43	1	2	24	16,072	43	43
		173	45	218	16	24	178	144	178	17	66	110	64,414	186	186
COUNTIES															
Brant	Brantford	91	39	130	24	15	91	32	91	4	57	31,249	90	91	
Bruce	Walkerton	60	15	75	9	6	60	23	60	5	34	36	21,541	70	60
Elgin	St. Thomas	32	9	41	6	1	34	13	34	24	17	12,026	50	40	
Essex	Leamington	84	26	110	10	12	88	26	88	6	67	37	31,823	84	89
Grey	Markdale	71	23	94	8	14	72	33	72	6	46	42	23,688	80	89
Haldimand	Dunnville	31	12	43	2	2	39	19	39	3	18	17	11,953	45	45
Hastings	Belleville	84	19	103	9	7	87	40	87	6	44	30,632	100	87	
Huron	Clinton	90	14	104	6	11	87	41	87	13	59	32	31,455	95	95
Kent	Chatham	91	21	112	5	19	88	56	88	2	67	43	31,265	95	88
Lambton	Sarnia	57	11	68	3	7	58	14	58	3	19	21,273	60	60	
Lanark	Perth	74	31	105	14	15	76	55	76	1	47	25,558	100	98	
Leeds and Grenville	Athens	40	13	53	5	8	40	27	40	6	35	12	14,456	55	49
Lincoln	St. Catharines	58	15	73	6	8	62	41	62	5	27	25	21,292	66	62
Middlesex	Strathroy	65	22	87	6	12	67	49	67	5	44	36	22,075	100	67
Norfolk	Simcoe	62	18	80	6	12	62	38	62	3	34	37	22,471	69	62
Northumberland and Durham	Cobourg	102	26	128	12	17	99	47	99	3	88	37	36,329	130	130
Ontario	Whitby	119	42	161	15	23	123	77	123	4	96	52	44,166	70	70
Ottawa	Woodstock	60	10	70	5	3	62	38	62	5	22	21,059	123	118	
Peel and Halton	Brampton	123	35	158	19	21	118	65	118	23	51	18	43,252	173	118
	Stratford	69	13	82	6	9	67	39	67	12	50	14	24,639	70	67
	Lakefield	16	5	21	2	2	15	12	15	2	11	8	5,484	45	56
Peterborough	Pictou	55	8	64	6	11	56	27	56	40	24	18,870	58	56	
Prescott and Russell	Beeton	51	9	60	17	15	42	19	42	1	38	20	15,871	60	60
Prince Edward	Beeton	34	126	160	17	15	94	64	94	8	34	39,040	116	94	
Simcoe	Orillia	92	34	126	17	17	89	60	89	6	63	31	33,676	100	95
Stormont, Dundas and Glengarry	Orillia	84	24	108	12	17	87	57	87	13	39	29,509	105	95	
Victoria	Lindsay	25	99	124	5	7	107	62	107	12	115	62	59,275	188	184
Waterloo	Kitchener	160	29	189	6	14	169	107	169	6	37	31	23,288	69	69
Welland	Welland	66	10	79	13	2	64	52	64	3	39	47	28,643	75	74
Wellington	Fergus	79	18	94	12	8	74	26	74	6	39	30	20,196	70	60
Wentworth	Dundas	56	12	68	4	10	54	30	54	2	29	37	31,249	100	100
York	Newmarket	79	28	107	7	13	87	52	87	40	39	37	21,249	70	100
		2275	616	2891	266	314	2311	1418	2321	206	1054	1045	820,503	2528	2334



DISBURSEMENTS — City Homes for the Aged — January 1st, 1946, to December 31st, 1946

NAME	LOCATION	Fuel, Light, Water, Etc.		Repairs and Re-buildings, Etc.		Farm, Garden, Equipment, Supplies, Etc.		Food, Clothing, Etc.		Household Expenses		Administration Expenses		Funeral Expenses		Insurance		Mortgage, Principal and Interest		Salaries and Wages		Rent or Taxes, Etc.		Office Expenses		Hospital and Medical Supplies		Refund to Pensioners, Residences, Etc.		Sundry		Total
		\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	
I.O.F.	Barrie	2,509.72				597.04		7,840.08		3,375.28		838.30		207.11		14,815.84		179.24		1,541.78		10,554.66		36.90		1,541.78		10,554.66		36.90		42,495.95
Home for the Aged	Belleville	577.11		2,391.78		13.94		1,254.03		185.22		47.40		111.60		1,032.20		3.69		8.25		311.39		22.37		8.25		311.39		22.37		8,899.03
St. Joseph's Villa	Brantford	1,218.67		1,913.93				5,629.49		880.14		87.06		111.60		4,613.24		81.49		57.76		530.49		332.15		57.76		530.49		332.15		15,550.28
Brantford Widows' Home	Brantford	494.62		885.12				1,115.52		92.23		44.70		111.60		1,670.75		71.1		95.57		190.00		71.70		95.57		190.00		71.70		4,821.10
Home of the Friendless	Chatham	1,209.47		1,872.51		59.80		2,769.48		460.03				12.00		2,157.95		111.7		159.23		362.82		1,152.99		159.23		362.82		1,152.99		9,563.03
St. Paul's Home	Corwall	663.00		1,028.82				11,570.55		1,398.84		51.97		215.00		6,864.90		135.83		320.03		362.82		338.70		135.83		362.82		338.70		22,471.84
House of Providence	Dundas	4,523.20		6,681.38		1,489.34		19,009.03		4,197.08		625.30		94.50		11,720.60		314.35		516.14		1,309.63		2,175.15		314.35		1,309.63		2,175.15		14,943.19
Fort William Manor	Fort William	370.56		1,618.31				1,618.31		2,078.28				266.01		1,965.48		82.98		82.98		864.60		14,943.19		82.98		864.60		14,943.19		14,943.19
Effort Home	Guelph	1,285.68		3,422.22		82.47		4,160.88		507.40		70.39		102.57		4,482.45		23.80		11.67		828.12		88.15		11.67		828.12		88.15		16,092.57
Home of Providence	Hamilton	1,152.68		2,677.73				2,677.73		809.96				102.57		5,617.29		376.94		32.91		828.12		16,092.57		32.91		828.12		16,092.57		16,092.57
Aged Women's Home	Hamilton	2,839.73		2,339.73		50.80		1,150.52		78.11		318.50		318.50		6,278.30		470.81		40.84		828.12		16,092.57		470.81		828.12		16,092.57		16,092.57
Home for the Aged and Infirm	Hamilton	8,801.04		4,552.36		1,441.17		22,628.84		6,495.52		171.11		309.10		45,885.03		170.18		1,050.01		4,746.41		1,049.75		1,050.01		4,746.41		1,049.75		97,857.85
House of Providence	Kingston	6,789.14		6,140.27		3,132.23		33,632.11		4,728.68		514.76		529.92		19,883.99		366.77		3,074.53		618.07		883.08		3,074.53		618.07		883.08		82,658.18
House of Refuge	Kingston	1,416.81		4,591.41		540.02		5,906.20		850.78		54.02		159.96		21,741.80		82.22		1,016.52		294.73		485.97		1,016.52		294.73		485.97		14,307.93
House of Providence	London	4,484.22		3,681.57		1,071.49		22,070.73		3,308.70		354.63		159.96		19,973.55		236.91		247.47		844.19		591.81		247.47		844.19		591.81		56,865.27
McCormack Home	London	2,753.22		739.17		79.43		9,352.34		744.25		101.08		542.49		10,649.49		145.26		104.43		62.82		400.00		104.43		62.82		400.00		10,778.30
Bronson Memorial Home	Ottawa	1,836.50		845.39				3,646.57		193.42		81.00		127.43		3,035.48		145.26		104.43		62.82		400.00		104.43		62.82		400.00		10,778.30
Maycourt Convalescent Home	Ottawa	1,077.08				109.40		2,574.00		1,112.37		191.41		127.43		3,627.35		57.53		39.81		131.83		400.00		39.81		131.83		400.00		10,778.30
Good Shepherd Refuge	Ottawa	9,983.92		8,702.57		476.35		21,077.48		5,047.63		554.74		891.67		12,710.66		334.00		171.67		1,358.20		400.00		171.67		1,358.20		400.00		69,431.25
Protestant Home for Aged	Ottawa	1,272.41		1,738.74		80.92		1,963.84		3,015.63		312.57		67.23		2,688.04		334.00		121.24		1,561.10		498.09		121.24		1,561.10		498.09		8,868.53
St. Charles' Home	Ottawa	10,201.21		2,770.47				38,393.59		3,125.57		324.25		890.21		32,916.48		334.00		2,033.3		1,241.50		1,850.20		2,033.3		1,241.50		1,850.20		96,293.34
St. Patrick's Home	Ottawa	4,147.98		3,130.80		1,226.80		10,416.52		1,567.56		174.86		890.21		7,336.82		702.80		117.36		1,850.20		1,850.20		117.36		1,850.20		1,850.20		31,599.68
Anson House	Peterborough	1,684.75		482.28		118.73		4,401.21		3,142.65		384.65		94.44		4,911.71		76.65		376.42		1,337.85		514.49		376.42		1,337.85		514.49		13,020.56
House of Providence	Peterborough	2,412.67		1,519.43		397.20		11,384.09		2,144.85		3,546.27		93.59		13,058.63		51.24		449.50		2,162.62		30,181.25		449.50		2,162.62		30,181.25		30,181.25
St. Joseph's Manor	Peterborough	1,471.81		764.15		154.84		10,462.25		1,370.04		96.31		127.80		3,171.72		259.90		19.29		1,626.62		30,181.25		19.29		1,626.62		30,181.25		30,181.25
Braeside Home	Preston	954.79		3,699.93				4,452.74		6,701.18		204.22		434.52		1,988.00		712.80		234.35		304.00		1,531.32		234.35		304.00		1,531.32		13,652.94
Thomms Carmel Residence	Preston	1,393.57		3,162.20		37.90		7,120.86		1,573.00		135.51		434.52		1,988.00		712.80		234.35		304.00		1,531.32		234.35		304.00		1,531.32		13,652.94
St. Thomas	St. Catharines	761.40		2,899.39		66.20		2,509.37		473.60		457.35		158.98		2,858.44		2.88		28.79		60.00		183.75		28.79		60.00		183.75		7,904.44
St. Catharines	St. Catharines	2,075.08		780.27		94.92		2,833.68		613.71		3,198.02		64.24		1,976.66		2.88		134.05		133.65		16,330.19		134.05		133.65		16,330.19		16,330.19
Thomms Williams' Home	Sudbury	761.40		2,899.39		66.20		2,509.37		473.60		457.35		158.98		2,858.44		2.88		28.79		60.00		183.75		28.79		60.00		183.75		7,904.44
Good Shepherd Refuge	Sudbury	2,075.08		780.27		94.92		2,833.68		613.71		3,198.02		64.24		1,976.66		2.88		134.05		133.65		16,330.19		134.05		133.65		16,330.19		16,330.19
Aged Men's Home (Tweed's)	Toronto	1,539.49		2,246.54				9,333.08		2,751.72		155.34		97.68		12,046.76		41.79		142.92		1,350.20		16,330.19		142.92		1,350.20		16,330.19		16,330.19
Aged Women's Home (Bel'n'b)	Toronto	3,430.65		4,932.65				16,254.88		3,940.01		179.40		179.40		21,316.52		107.73		309.29		366.88		50,279.19		309.29		366.88		50,279.19		50,279.19
Aged Women's Home (Ewart)	Toronto	2,307.14		1,738.92				8,441.49		1,511.78		146.66		98.75		10,770.08		134.38		117.37		274.57		26,830.20		117.37		274.57		26,830.20		26,830.20
Church Home for the Aged	Toronto	1,899.98		2,510.82				8,467.13		2,883.31		253.07		488.97		8,694.76		445.03		400.08		3,219.10		22,830.20		400.08		3,219.10		22,830.20		22,830.20
Good Shepherd Refuge	Toronto	11,352.08		7,867.93				15,931.11		2,767.55		487.54		488.97		40,771.12		379.96		2,328.88		13,777.23		296.77		2,328.88		13,777.23		296.77		61,173.60
House of Providence	Toronto	3,404.21		10,190.30		10,656.10		25,291.65		5,417.69		1,927.31		225.00		29,720.94		82.63		1,657.56		212.27		364.06		1,657.56		212.27		364.06		71,173.60
Jewish Old Folks Home	Toronto	3,746.77		5,022.72				21,491.06		5,417.69		1,927.31		225.00		29,720.94		82.63		1,657.56		212.27		364.06		1,657.56		212.27		364.06		71,173.60
Julia Green Shields' Home	Toronto	2,222.72						3,792.95		1,260.66		216.86		1,162.85		6,229.14		217.60		46.75												

STATISTICS — City Homes for the Aged — January 1st, 1946, to December 31st, 1946

NAME	LOCATION	Num-ber of Resi-dents 1946	Admis-sions During Year	Total Lodge-ment During Year	Num-ber Dis-charged During Year	Num-ber of Deaths During Year	Num-ber in Resi-dence Dec. 31, 1946	Number of Residents at Dec. 31, 1946		Number of Paying Resi-dents	Num-ber Paid for by Munici-palities	Num-ber of Free Resi-dents	Number of Pen-sioners	Total Days Stay All Resi-dents	Dormi-tory Capacity in Beds	Num-ber of Beds Made Up
								Male	Female							
I. O. F. Home	Barrie	44	10	54	1	12	41	32	9	41	.....	20	34	14,068	60	47
Home for the Aged	Belleville	11	5	16	2	1	13	8	5	13	.....	.....	13	4,978	17	14
St. Joseph's Villa	Blind River	42	38	80	35	4	15	28	13	41	.....	4	44	12,507	50	50
The Widows' Home	Brantford	13	4	17	.....	2	15	15	15	15	.....	5	4	5,398	15	15
Home of the Friendless	Chatham	24	3	27	6	.....	15	14	17	21	.....	10	14	7,365	30	25
St. Paul's Home	Cornwall	86	52	138	27	13	98	49	49	98	.....	44	65	34,262	100	98
House of Providence	Dundas	111	73	148	23	19	106	46	60	106	.....	28	61	39,594	122	122
Fort William Manor	Fort William	.....	37	27	2	4	31	23	8	31	.....	5	22	3,036	65	31
Elliott Home	Guelph	25	2	27	3	.....	24	6	18	24	.....	.....	27	12,760	26	26
House of Providence	Guelph	35	13	48	12	1	35	21	14	35	.....	1	27	18,271	42	42
Aged Women's Home	Hamilton	51	2	53	3	.....	50	50	50	53	.....	.....	50	70,177	50	50
Home for the Aged and Infirm	Hamilton	184	76	260	31	32	197	124	73	197	.....	81	141	66,152	220	200
House of Providence	Kinston	185	100	285	80	21	184	100	100	184	.....	21	109	65,506	220	200
House of Refuge	Kinston	39	39	78	34	.....	44	23	21	44	.....	11	88	15,506	26	26
House of Providence	London	167	69	236	31	21	174	113	113	174	.....	68	83	61,236	200	200
McCormack Home	London	100	48	148	45	3	100	25	75	100	.....	15	83	36,356	100	100
Bronson Memorial Home	Ottawa	25	12	37	13	.....	24	24	24	13	.....	3	21	8,039	28	24
Maycourt Convalescent Home	Ottawa	138	97	150	142	.....	8	.....	8	8	.....	5	18	3,296	18	18
Good Shepherd Refuge	Ottawa	26	9	35	10	1	143	25	143	143	.....	163	3	51,942	175	32
Protestant Home for Aged	Ottawa	288	93	381	39	52	290	129	161	290	.....	10	18	9,978	40	40
St. Charles' Home	Ottawa	108	67	175	48	13	114	47	67	114	.....	6	208	103,765	312	312
St. Patrick's Home	Ottawa	44	26	60	26	.....	34	12	22	34	.....	95	46	40,482	114	114
Anson House	Peterborough	72	12	84	6	7	71	36	35	71	.....	16	26	12,600	42	42
House of Providence	Peterborough	90	51	141	47	5	89	69	20	89	.....	31	75	26,180	76	76
St. Joseph's Manor	Preston	23	6	29	2	2	25	20	25	23	.....	6	6	32,484	92	92
Brasside Home	Preston	47	10	57	8	3	46	4	42	46	.....	1	13	16,528	47	47
Mount Carmel Home	St. Catharines	21	7	28	3	4	21	9	12	21	.....	6	15	7,899	26	25
Thomas Williams Home	St. Thomas	16	31	47	24	.....	23	.....	23	23	.....	32	39	8,208	36	29
Good Shepherd Refuge	Studbury	59	13	72	5	7	60	60	60	60	.....	1	39	21,681	60	60
Aged Men's Home (Twice.)	Toronto	119	23	142	7	12	123	123	123	123	.....	1	84	44,347	123	123
Aged Women's Home (Belmit)	Toronto	62	9	71	5	5	61	61	61	61	.....	13	12	18,719	62	62
Aged Women's Home (Ewart)	Toronto	44	9	53	6	1	43	43	43	43	.....	24	24	15,644	43	43
Church Home for the Aged	Toronto	93	45	138	61	1	76	76	76	76	.....	13	125	31,002	160	100
Good Shepherd Refuge	Toronto	594	947	1,541	891	37	613	369	244	613	.....	386	750	216,919	641	641
House of Providence	Toronto	97	23	120	16	16	104	41	63	104	.....	29	64	36,749	103	104
Jewish Old Folks Home	Toronto	30	2	32	1	.....	30	30	30	30	.....	20	17	10,444	30	30
Julia Greenhields' Home	Toronto	163	70	233	44	20	169	99	70	169	.....	92	119	58,991	178	172
Laughlen Lodge	Toronto	46	44	90	42	40	54	1	54	54	.....	3	38	17,283	48	48
St. Mary's Rest Home	Toronto	56	24	76	20	2	48	48	48	48	.....	1	38	21,567	60	60
Salvat'n Army Eve'tide Home	Toronto	17	293	310	292	.....	18	.....	18	18	.....	199	5	6,762	21	21
Salvat'n Army Receiv'g Home	Toronto	48	8	56	6	3	47	47	47	47	.....	35	35	17,515	48	48
Salvat'n Army Sunset Lodge	Toronto	38	11	49	14	.....	35	.....	35	35	.....	14	13	13,701	40	40
Good Shepherd Refuge	Windsor	20	9	29	6	.....	23	15	8	23	.....	2	13	7,152	25	23
The Homestead	Windsor	3,496	2,627	6,123	2,204	328	3,591	1,519	2,072	3,591	.....	1,518	2,505	1,279,630	4,019	3,717













