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SESSIONAL PAPERS

VOL. LI.—PART V.

FIFTH SESSION

OF THE

FOURTEENTH LEGISLATURE

OF THE

PROVINCE OF ONTARIO

SESSION 1919

TORONTO:

Printed by THE RYERSON PRESS.

LIST OF SESSIONAL PAPERS

PRESENTED TO THE HOUSE DURING THE SESSION.

TITLE.	No.	Remarks.
Accounts, Public, 1918	$egin{array}{c} 1 \\ 30 \\ 32 \end{array}$	Printed.
Agricultural Societies, Report Agriculture, Department of, Report Agriculture, Statistics Archives, Report	42 29 46 52	« « «
Bee-Keepers' Association, Report	37 20 76	Printed. "Not Printed.
Children, neglected and dependent, Report Civil Service Commissioner, Report Clarkson's Report on Hydro accounts Communicable Diseases, Regulations Corn Growers' Association, Report Coroners in Toronto, names of Crown Land Agencies in Muskoka	27 72 57 66 35 59 68	Printed. " " Not Printed. " "
Dairymen's Association, Report Division Courts, Report	38	Printed.
Education, Report Education, Regulations and Orders-in-Council Elections-by, Return from Records Entomological Society, Report Estimates	17 64 51 36 2	Printed. Not Printed. Printed. ""
Feeble-Minded, Report	24 11 44	Printed. " "
Game and Fisheries, Report	14 26	Printed.
Health, Report of Board of Health, Board of Regulations re Communicable Diseases. Highway Improvement, Report Horticultural Experiment Station, Vineland, Report Horticultural Societies, Report	21 66 15 45 43	Printed. Not Printed. Printed.

TITLE.	No.	REMARKS.
Hospitals and Charities, Report	25 77 75	Printed. Not Printed.
Hydro-Electric P. Commission, Clarkson's Report on accounts of	57	Printed.
Industries, Bureau of, Report	$\frac{46}{22}$	Printed.
Insurance, Report	10 74	Not Printed.
Kapuskasing, Soldiers' land settlement in	67	Not Printed.
Lands, Forests and Mines, Report	3 6	Printed.
Librarian, Report Live Stock Branch, Report Loan Corporations, Report	53 39 12	Not Printed. Printed. "
Mines, Bureau, Report	4	Printed.
Municipal Affairs, Report	47 75	Not Printed.
McGibbon & Sons, correspondence re license	63	Not Printed.
Ontario Housing Committee, Report, etc Ontario Insurance Commission, Report Ontario Railway and Municipal Board, Report	65 56 50	Printed.
Ontario Temperance Act. Report	28 60	Not Printed.
Pic River District, sale to J. J. Carrick, etc. Prisons and Reformatories, Report Provincial Archivist, Report	73 26 52	Not Printed. Printed. "
Provincial Municipal Auditor, Report	54 8 70	Not Printed.
Provincial Taxes, receipts by Corporations	1 1 15	Printed.
Public Works, Report	13	<i>"</i>
Queen Victoria N.F. Park, Report	9	Printed.
Railway and Municipal Board, Report Registrar General, Report Resistrar Officer Penert	50 20	Printed. " "
Registry Offices, Report	7	

Title.	No.	REMARKS.
Rodd, J. H., correspondence re conspiracy	62 71	Not Printed.
Secretary and Registrar, Report Sims, Gen. Manly, Agent-General Soldiers' Aid Commission, Report Soldiers' Land Settlements in Kapuskasing Stallion Enrolment Board, Report	78 67	Printed. Not Printed. " " Printed.
Temiskaming and N.O. Railway. Report	48 18 16	Printed.
Vegetable Growers Association. Report Venereal Disease, Report Veterinary College, Report Vineland Station, Report	34 58 31 45	Printed. "Not Printed. Printed.
Women's Institutes, Report	41 55 61	Printed. " Not Printed.

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LIST OF SESSIONAL PAPERS

Arranged in Numerical Order with their Titles at full length; the dates when presented to the Legislature; the name of the Member who moved the same, and whether ordered to be Printed or not.

		CONTENTS OF PART I.
No.	1	Public Accounts of the Province for the year ending 31st October, 1918. Presented to the Legislature, 6th March, 1919. Printed.
No.	2	Estimates—Supplementary, for the service of the Province for the year ending 31st October, 1919. Presented to the Legislature, 6th March, 1919. Printed. Further Supplementary Estimates. Presented to the Legislature, 7th April, 1919. Printed. Estimates for the year ending 31st October, 1920. Presented to the Legislature, 14th April, 1919. Printed.
		CONTENTS OF PART II.
No.	3	Report of the Minister of Lands, Forests and Mines for the year 1918. Presented to the Legislature, 17th April, 1919. Printed.
No.	4	Report of the Bureau of Mines, for the year 1918. Presented to the Legislature, 9th April, 1919. Printed.
No.	5	Report of the Inspector of Division Courts, for the year 1918. Presented to the Legislature, 6th March, 1919. Printed.
No.	6	Report of the Inspector of Legal Offices, for the year 1918. Presented to the Legislature, 20th March, 1919. Printed.
N_0	7	Report of the Inspector of Registry Offices, for the year 1918. Presented to the Legislature, 20th March, 1919. Printed.
No.	8	Report of the Provincial Municipal Auditor, for the year 1918. Presented to the Legislature, 15th April, 1919. Printed.
		CONTENTS OF PART III.
No.	9	Report of the Commissioners for the Queen Victoria Niagara Falls Park, for the year 1918. Presented to the Legislature, 28th February, 1919. Printed.
No.	10	Report of the Inspector of Insurance for the year 1918. Presented

No. 23

No. 11 Report of the Registrar of Friendly Societies. Transactions for the year 1918. Presented to the Legislature, 3rd April, 1919. Printed. No. 12 Financial Statements made by Loan Corporations, Building Societies, Loaning Land Companies and Trust Companies, for the year 1918. Presented to the Legislature, 3rd April, 1919. Printed. CONTENTS OF PART IV. No. 13 Report of the Minister of Public Works of the Province, for the year 1918. Presented to the Legislature, 18th March, 1919. Printed. No. 14 Report of the Game and Fisheries Department, for the year 1918. Presented to the Legislature, 11th April, 1914. Printed. No. 15 Report on Highway Improvement in the Province, for the year 1918. Presented to the Legislature, 11th April, 1919. Printed. No. 16 Report of the Trades and Labour Branch for the year 1918. Presented to the Legislature, 11th April, 1919. Printed. No. 17 Report of the Minister of Education, for the year 1918. Presented to the Legislature, 8th April, 1919. Printed. No. 18 Report of the Board of Governors of the University of Toronto, for the year ending 30th June, 1918. Presented to the Legislature, 26th February, 1919. Printed. CONTENTS OF PART V. No. 19 Report of the Secretary and Registrar of the Province, for the year 1918. Presented to the Legislature, 9th April, 1919. Printed. No. 20 Report upon the Registration of Births, Marriages and Deaths, for the year 1918. Presented to the Legislature, 9th April, 1919. Printed. Report of the Provincial Board of Health, for the year 1918. No. 21 Presented to the Legislature, 9th April, 1919. Printed. No. 22 Report on the Hospitals for the Insane, for the year 1918. Pre-

sented to the Legislature, 9th April, 1919. Printed.

Report on Hospitals for Idiots and Epileptics. Not presented.

No. 24	Report on Hospital for Feeble-minded, Orillia, for the year 1918, and Part II. on Feeble-minded in Ontario. Presented to the Legislature, 9th and 15th April, 1919. Printed.
Ne. 25	Report upon the Hospitals and Charities, for the year 1918. Presented to the Legislature, 9th April, 1919. Printed.
	CONTENTS OF PART VI.
No. 26	Report upon the Prisons and Reformatories for the year 1918. Presented to the Legislature, 9th April, 1919. Printed.
No. 27	Report upon Neglected and Dependent Children, for the year 1918. Presented to the Legislature, 15th April, 1919. Printed.
No. 28	Report upon the Operation of the Ontario Temperance Act, for the year 1918. Presented to the Legislature. 11th April. 1919. Printed.
No. 29	Report of the Department of Agriculture, for 1918. Presented to the Legislature, 9th April, 1919. Printed.
No. 30	Report of the Agricultural College and Agricultural Farm, for the year 1918. Presented to the Legislature. 9th April. 1919. Printed.
No. 31	Report of the Ontario Veterinary College, for the year 1918. Presented to the Legislature, 16th April, 1919. Not printed.
No. 32	Report of the Ontario Agricultural and Experimental Union, for the year 1918. Presented to the Legislature, 9th April, 1919. Printed.
No. 33	Report of the Stallion Enrolment Board, for the year 1918. Presented to the Legislature, 6th March, 1919. Printed.
No. 34	Report of the Ontario Vegetable Growers' Association, for the year 1918. Presented to the Legislature, 9th April, 1919. Printed.
No. 35	Report of the Corn Growers' Association, for the year 1918. Presented to the Legislature, 16th April, 1919. Not Printed.
No. 36	Report of the Entomological Society of Ontario, for the year 1918. Presented to the Legislature. 9th April, 1919. Printed.
No. 37	Report of the Ontario Bee-Keepers' Association, for the year 1918. Presented to the Legislature, 9th April, 1919. Printed.
No. 38	Report of the Dairymen's Association of Ontario, for the year 1918. Presented to the Legislature 9th April 1919 Printed

Presented to the Legislature, 9th April, 1919. Printed.

No. 39 Report of the Live Stock Associations of Ontario, for the year 1918. Presented to the Legislature, 9th April, 1919. Printed. No. 40 Report of the Farmers' Institutes of Ontario. Dropped. Report of the Women's Institutes of Ontario, for the year 1918. No. 41 Presented to the Legislature, 6th March, 1919. Printed. CONTENTS OF PART VII. No. 42 Report of the Agricultural Societies of Ontario, for the year 1918. Presented to the Legislature. 6th March, 1919. Printed. No. 43 Report of the Horticultural Societies of Ontario, for the year 1918. Presented to the Legislature, 9th April, 1919. Printed. Report of the Fruit Growers' Association of Ontario, for the year No. 44 1918. Presented to the Legislature, 9th April, 1919. Printed. Report of the Horticultural Experiment Station, Vineland Station, No. 45 Ontario, for the year 1918. Presented to the Legislature, 17th April. 1919. Report of the Statistics and Publications Branch of Department of No. 46 Agriculture, for the year 1918. Presented to the Legislature, 16th April, 1919. Printed. Report of the Bureau of Municipal Affairs for the year 1918. Pre-No. 47 sented to the Legislature, 17th April, 1919. Not printed. Report of the Temiskaming and Northern Ontario Railway, for No. 48 the year 1918. Presented to the Legislature, 11th April, 1919. Printed. CONTENTS OF PART VIII. No. 49 Report of the Hydro-Electric Power Commission, for the year 1918. Not presented. See No. 57. No. 50 Report of the Ontario Railway and Municipal Board, for the year 1918. Presented to the Legislature. 26th March, 1919. Printed. No. 51 Return from the Records of the By-Elections in 1918-19. Presented to the Legislature, 12th March, 1919. Printed. CONTENTS OF PART IX. Report of the Archivist of Ontario, for the year 1918. Presented to No. 52

the Legislature, 3rd April, 1919. Printed.

CONTENTS OF PART X.

- No. 53 Report on the State of the Legislative Library. Presented to the Legislature, 26th February, 1919. Not printed.
- No. 54 Statements of Provincial Auditor under Audit Acts. Presented to the Legislature, 26th March, 1919. Printed.
- No. 55 Report of the Workmen's Compensation Board, up to 31st December, 1918. Presented to the Legislature, 17th April, 1919.

 Printed.
- No. 56 Report of the Ontario Insurance Commission. Presented to the Legislature, 26th February, 1919. Printed.
- No. 57 Report of G. T. Clarkson upon the Accounts of the Hydro-Electric Power Commission of Ontario. Presented to the Legislature. 4th March, 1919. *Printed*.
- No. 58 Second Interim Report on Venereal Disease. Presented to the Legislature, 26th February, 1919. Printed.
- No. 59 Return to an Order of the House of the 13th March, 1918, for a Return of the names of all Coroners, and their addresses in the City of Toronto, also the number of inquests held by each one, each year during the last five years, namely, from January 1st, 1912, until December 31st, 1918, also the amount of money each received, each year during the period named for their services as Coroners. Presented to the Legislature, 26th February, 1919. Mr. Crawford. Not printed.
- No. 60

 Return to an Order of the House of the 7th March, 1918. for a Return shewing—1. How many persons who have been convicted and sentenced to imprisonment under the Ontario Temperance Act have been discharged without completing the term for which they were sentenced. 2. How many persons fined under the said Act have had their fines or some portion thereof remitted. Presented to the Legislature, 26th February, 1919. Mr. Munro. Not printed.
- No. 61 Return to an Order of the House of the 18th March, 1918, for a Return shewing—1. What number of accidents have been reported to and dealt with by the Workmen's Compensation Board for accidents caused to workmen engaged in Munition Plants.

 2. What amount do the manufacturers of munitions pay in comparison to the amount paid by other manufacturers.

 3. Is the amount based on a percentage higher than on manufacturers of a somewhat similar character so as to provide for the possibility

of munition factories ceasing to operate within the near future and yet have large claims left to be provided for. Presented to the Legislature, 26th February, 1919. Mr. Richardson. Not printed.

No. 62

Return to an Order of the House of the 13th March, 1918, for a Return shewing copies of all communications and correspondence between the Attorney-General, J. H. Rodd, Crown Attorney for the County of Essex, Dr. St. Pierre and H. C. Maisonville of Windsor. Ontario, in the matter of an alleged conspiracy on the part of the said J. H. Rodd against the said St. Pierre and Maisonville in connection with the trouble which occurred at Ford City, Ontario, on or about the eighth day of September, 1917, and which led to the arrest of the said St. Pierre. Presented to the Legislature, 26th February, 1919. Mr. Racine. Not printed.

No. 63

Return to an Order of the House of the 21st March, 1918, for a Return of the copies of—1. All correspondence between the Minister of Lands, Forests and Mines, or any member, officer or official of the Government, and the firm of F. McGibbon & Sons, Lumber Merchants, Sarnia, or the firm McGibbon Lumber Company, of Penetanguishene, in reference to the renewal of the license granted to the last named company to cut timber on Franklin Island, in Parry Sound. 2. Copy of the original agreement with the McGibbon Lumber Company, of Penetanguishene, in which the said company was given the right to eut pine timber on the said island. 3. Copy of the license and renewals (if any) granted to the said McGibbon Lumber Company. 4. Copy of the agreement made with the license granted to the Hope Lumber Company of Thessalon, Ontario (now owned by White, Gratwich & Mitchell on Garden River), about the same time; and copies of all correspondence between the said Hope Lumber Company or White, Gratwich & Mitchell and the Government or any officer or official thereof in reference to the sale of timber to either company. 5. Copies of the renewals of licenses to the Hope Lumber Company or White, Gratwich & Mitchell (if any). 6. The date when the license to the McGibbon Lumber Company was cancelled. 7. How the money derived from the said license was expended. number of licenses which have been renewed during the present year in the District of Parry Sound, and in whose names these licenses stand. Presented to the Legislature, 26th February, Mr. Proudfoot. Not printed. 1919.

No. 64

Copies of Regulations and Orders-in-Council under Section 27 of the Department of Education Act. Presented to the Legislature, 3rd March, 1919. Not printed.

- No. 65 Report of the Ontario Housing Committee, including standards for inexpensive houses adopted for Ontario with typical plans.

 Presented to the Legislature, 4th April, 1919. Printed.
- No. 66 Regulations of the Provincial Board of Health re Communicable Diseases approved by His Honour. Presented to the Legislature, 20th March, 1919. Not printed.
- No. 67

 Return to an Order of the House of the 24th March, 1919, for a Return shewing:—1. How much money has been spent in connection with the soldiers' land settlement scheme at Kapuskasing. 2. How many acres have been cleared for crop; and what other improvements have been made, and by whom. 3. How many soldiers availed themselves of the opportunity afforded by the scheme. 4. How many soldiers are still there. 5. At what price per acre is this land available. Presented to the Legislature, 3rd April, 1919. Mr. Bowman (Manitoulin). Not printed.
- No. 68
 Return to an Order of the House of the 24th March, 1919, for a Return shewing:—1. How many Crown Land Agencies exist in the Districts of Muskoka and Parry Sound. 2. What are the names of the agents and dates of appointment. 3. What is the remuneration paid to each agent. 4. What are the duties of the agents. Presented to the Legislature, 3rd April, 1919. Mr. Proudfoot. Not printed.
- Return to an Order of the House of the 7th March, 1919, for a No. 69 Return shewing if:—1. General Manly Sims had been appointed Agent-General for Ontario, at London, England. If so, at what date. 2. What is his age, and what period of time has he ever spent in Ontario, and in what employment. 3. Is he a native-born Canadian. 4. Is he a British or Canadian Officer. 5. If the former, why was not some qualified Canadian Officer from Ontario appointed to fill the Post. 6. Were any Canadian Officers applicants or recommended for the position, and if so, what were the names of such Officers and on what grounds was each respectively refused. 7. Was the appointment made upon the recommendation of the Civil Service Commissioner of Ontario. 8. What is the salary or remuneration that the Province of Ontario pays to General Sims, and what perquisites, if any, in addition to his salary does he receive. 9. Is the appointment a permanent one, or if not, for what period and on what terms as to time of service. Presented to the Legislature. 3rd April, 1919. Mr. Dewart. Not printed.
- No. 70 Return to an Order of the House of the 24th March, 1919, for a Return shewing:—What are the details of the receipts by Corporations of the Provincial taxes included in the Revenue of the Department of Lands, Forests and Mines for the year end-

ing October 31st, 1918, at page a32 at the sum of \$863,457.75. Presented to the Legislature, 3rd April, 1919. Mr. Pinard. Not printed.

- No. 71 Return to an Order of the House of the 4th day of April, 1919, for a Return shewing:—1. What is the total amount of the grants withheld from the Roman Catholic Schools of Ottawa. 2. In what years were such grants withheld. 3. What amount was withheld in each respective year. 4. Has the money for grants withheld from the Roman Catholic Separate Schools of Ottawa been kept in a separate fund. 5. Have these amounts been revoted in any succeeding session of the Legislature. Presented to the Legislature, 10th April, 1919. Mr. Pinard. Not printed.
- No. 72 Report of the Civil Service Commissioner, 1918. Presented to the Legislature. 10th April, 1919. Printed.
- No. 73

 Return to an Order of the House of the 24th March, 1919, for a Return of:—1. Copies of all documents covering the original sale to one J. J. Carrick, of the City of Port Arthur, of certain pulpwood limits in the Pic River and Black Sturgeon River Districts of Thunder Bay. 2. Copies of all agreements connected therewith or supplementary thereto. 3. Copies of all letters and telegrams which passed between the Government or any member or official thereof and the said Carrick or any one on his behalf, in reference to the said limits.—Presented to the Legislature, 15th April, 1919. Mr. Proudfoot. Not printed.
- No. 74 Return to an Order of the House of the 4th March, 1919, for a Return shewing what building it is proposed to cover by insurance out of the following items appearing in the Supplementary Estimates for the fiscal year ending October 31st. 1919:—

 (a) \$4,000.00, Item No. 1, Vote No. 187; (b) \$1,000.00, Item No. 9, Vote No. 194. Presented to the Legislature, 15th April, 1919. Mr. Pinard. Not printed.
- No. 75 Report of the Bureau of Municipal Affairs re Housing, including Acts. Rules and Regulations. Housing Standards, Provisions and Forms for 1919. Presented to the Legislature, 15th April, 1919. Not printed.
- No. 76

 Return to an Order of the House of the 28th March, 1919, for a Return shewing all correspondence between any Department of the Government or Minister, or Official, and the British America Nickel Corporation, Limited, or any Official or Director thereof or person representing the said Company, regarding the refining of Nickel or other Minerals by the said Company, the establishment of a Refinery or other works and the location of the same in Ontario, and as to the location of the Refinery where

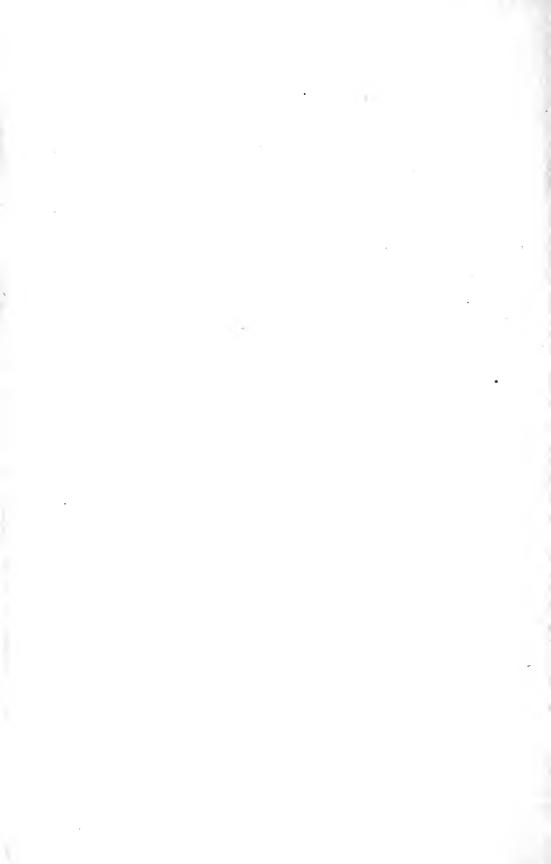
it is now being erected in the Province of Quebec, and all documents relating in any way thereto. Presented to the Legislature, 15th April, 1919. Mr. Dewart. Not printed.

No. 77

Copies of Orders-in-Council designating the Convalescent Home for Women, Ottawa, and the Salvation Army Women's Hospital, Bloor Street East, Toronto, as Hospitals to which aid may be granted pursuant to Section 14 of The Hospitals and Charities Institutions Act. Cap. 300, R.S.O., 1914. Presented to the Legislature, 17th April, 1919. Not printed.

No. 78

Report of the Soldiers' Aid Commission. Presented to the Legislature, 17th April, 1919. Not printed.



REPORT

OF THE

Secretary and Registrar

OF THE

PROVINCE OF ONTARIO

FOR THE YEAR
ENDING 31st DAY OF OCTOBER

1918

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO



TORONTO:

Printed by A. T. WILGRESS, Printer to the King's Most Excellent Majesty

Printed by THE RYERSON PRESS

To His Honour Sir John Strathearn Hendrie, Knight Commander of the most Distinguished Order of St. Michael and St. George, Commander of the Royal Victorian Order, a Colonel in the Militia of Canada, etc., etc.,

Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

The undersigned begs respectfully to present to Your Honour, the report prepared with respect to the chief transactions of the Department of the Secretary and Registrar of the Province of Ontario during the year ending the 31st day of October, 1918.

WM. DAVID McPHERSON,

Secretary and Registrar of the Province of Ontario.

Provincial Secretary's Office, Toronto, March 28th, 1919.



REPORT

OF THE

SECRETARY AND REGISTRAR

OF THE PROVINCE OF ONTARIO

For the Year ending October 31st, 1918

PROVINCIAL SECRETARY'S OFFICE,

TORONTO, March 28th, 1919.

To the Honourable

WM. DAVID McPHERSON,

Secretary and Registrar of the Province of Ontario.

SIR,—I beg leave to submit the Annual Report of the Provincial Secretary's office for the year ending October 31st, 1918, showing details of the various services rendered by the office during that period.

The following table shows the fees as they were received month by month:

STATEMENT OF OFFICE FEES RECEIVED, BY MONTHS, 1918.

November	\$7,805 00
Degember	6,216 05
January	20,334 70
February	18,976 27
March	12,624 10
April	11,361 55
May	10,077 55
June	10,043 85
July	9,669 00
August	7,926 75
September	8,603 85
October	7,748 70
Total	\$131,387 37

STATEMENT OF SOURCE OF FEES RECEIVED DURING 1918.

Letters Patent, Licenses, etc. Companies' Returns Commissions By-laws, Copies and Searches	$25,946 \\ 1,560$	$\begin{array}{c} 60 \\ 02 \end{array}$
Total	0191 907	97

NUMBER OF CHARTER, LICENSES, ETC., ISSUED.

Year.	Number of Instruments.	Fees.
1892	158	\$6,780 00
1893	138	8,465 00
1894	139	7,729 00
1895	174	10,000 00
1896	154	14,335 00
1897	358	34,659 00
1898	295	23,820 00
1899	416	60.817 00
1900	438	71,179 00
1901	450	75,782 00
1902	591	95,330 00
1903	578	107,166 00
1904	673	87,177 00
1905	828	108,621 00
1906	1,045	181,998 11
1907	1,067	227,312 90
1908	924	132,252 50
1909 (ten months)	828	171,695 80
1909–10	1.110	183,780 45
1910–11	1.211	235.662 10
1911–12	1.288	232,079 05
1912–13	1,305	232,364 35
1913–14	1,120	176.270 05
1914–15	1,080	80.744 75
1915–16	1,265	109.276 00
1916–17	930	133.503 30
	1,047	102,510 75
1917–18	1,041	102,010 10

The usual Tables and Appendices accompany this Report.

All of which is respectfully submitted.

F. V. JOHNS,

Assistant Provincial Secretary.

Name.	Address.	Capital.
. A		
Andrew Agency, Limited, The	Port Arthur	40,000
Auto-Printing Register Company of Canada, Limited, The	Toronto	40,000
Auto Road Construction Company, Limited	Niagara Falls	600,000
Acme Coal and Coke Company, Limited		
Aurora Foundries, Limited		.,
Acme Engineering Company, Limited	Toronto	$125,000 \\ 40,000$
Aberdeen Realty Company, Limited		100,000
Allenford Rural Telephone Company, Limited		15.000
Auto Oil Company, Limited (No personal liability)	Toronto	250,000
	Toronto	
Adams Coal Company, Limited	Toronto	40,000
Advertising Sign Company, Limited		40,000
Arrow Service, Limited	Toronto	40,000
Addanac Film Company, Limited	Toronto	40,000
Anderson Brothers, Limited	Kingston	100,000
Andrich & Hyndman, Limited	Palmoreton	40,000 50,000
Auto Sales Company, Limited	Owen Sound	10.000
Authors and Cox, Limited	Toronto	50,000
Atic Lake Mines, Limited (No personal liability)	Toronto	40,000
Automotive Transports, Limited	Toronto	250,000
Allen's Danforth Theatre, Limited	Toronto	300,000
Alliston Milling and Manufacturing Company, Limited	Toronto	500,000
В		
Bowes Creamery Company, Limited	Toronto	40,000
(British) Young High Velocity	Toronto	250,000
Bulmer's, Limited	Toronto	25,000
Braidberg and Company, Limited, H		40,000
British Canadian Toy Company, Limited, The	Toronto	40,000
Boat Lake Telephone Company, Limited	Wiarton	750
Betty's, Limited		40,000
Bisco Doll Company, Limited		40,000 40,000
Buckels, Limited		40,000
Bennet Company, Limited, The J		40,000
Brantford Realty Company, Limited		100,000
Bryson Estate, Limited	Ottawa	300,000
Buckingham Mines, Limited, The (No personal liability)		1,000,000
Bennett & Son, Limited, I. W.	Gananoque	50,000
Belle River Oil Company, Limited		40,000
Bouron Brothers, Limited	Toronto	50,000
Bodi-Tone Company, Limited	Toronto	50,000 5,000
Beachburg Rural Telephone Company, Limited, The	Westmeath	2,500
Bay Manufacturing Company, Limited, The	North Bay	40,000
Belvoir Stock Farms, Limited	London	40,000
B.S.L. Company, Limited, The	Toronto	40,000
Bancroft Marble Quarries, Limited, The	Toronto	300,000
Beattie, McIntyre, Limited	Foronto	40,000
Boys' Wear, Limited	Toronto	40,000
Benson, Johnston, Limited	Hamilton	60,000 $40,000$
British American Feldspar, Limited (No personal liability).	Foronto.	100,000
C.		200,000
0.		
Compaign County C		
Canadian Gambite Company, Limited	Hawkesbury	$100,000 \\ 40,000$

Name.	Address.	Capital.
Canada Dulawaad Evroptors Limited	Toronto	40,000
	Toronto	
College Street Cartage and Storage Company, Limited		
Comfort Manufacturing Company, Limited		
Chaplin Realty Company, Limited		
Canadian Remedy Company, Limited		30,000
liability)	Toronto	40,000
Color Craft, Limited	Toronto	40,000
Calculator Agency, Limited	Toronto	40,000
Carr and Company, Limited, H. N	Hamilton	20,000
Classics Hosiery, Limited	Toronto	40,000
Cadwell Brick Company, Limited	Windsor	200,000
Cambefort Cheese Company, Limited	Gore Bay	40,000
Canadian Industrial Minerals, Limited	Toronto	500,000
Co-Operative Supply Company, Limited, The	Kingsville	25,000
Crescent Dairy Company, Limited, The		40,000
Consolidated Lumber Company, Limited		500,000
Craig-Stell, Limited		10,000
Canada Cleaning Company, Limited		40,000
Carter Decorating Company, Limited		40,000
Coulter's, Limited		,
Churchill Mining and Milling Company, Limited (No persona		
liability)	1	1,000,000
Clemora Realty Company, Limited		
Continental Chemical Company, Limited		
Canadian Fluorite, Limited (No personal liability)		
Cleanall Soap Company, Limited		
Citizens' Taxi-Car and Garage Service, Limited		40,000
Canadian Standard Products, Limited		
Colorado-Ontario Development Company, Limited		
Canadian Forging and Socket Company, Limited		50,000
Canadian Guide to Bonded Lawyers, Limited, The		40,000
Canadian Bee Supply and Honey Company, Limited, The	Toronto	40,000
Canadian Coal Company, Limited	Sault Sta Maria	40,000
Canadian Stoves, Limited		
Campbell Grain and Feed Company, Limited, The		
Canada Pulpwood Exporters, Limited		
Caswell Lumber Company, Limited		40,000
Clyde Cars Company, Canada, Limited, The	Toronto	50,000
Canada Importing and Produce Company, Limited	Listowal	40,000
Canadian Barber & Specialty Company, Limited, The	Toronto	20,000
Contact Bay Mines, Limited (No personal liability)	Toronto	200,000
Cambray Telephone Company. Limited, The	Cambray	10,000
Champlain Club of Ottawa, Limited	Ottawa	40,000
Crocker Press, Limited	Toronto	40,000
Conway, Limited, J.	Toronto	10,000
Commercial Agencies, Limited	Toronto	40,000
Canada Bottle and Junk Company, Limited	Toronto	
	Toronto	40,000
D		
Dominion Shipbuilding Company, Limited		1,000,000
Dominion Lumber and Coal Co., Limited	Hamilton	40,000
Dufferin Land Corporation, Limited, The	. Hamilton	40,000
Duke Street Realty Company, Limited, The	Hamilton	40,000
bility)	Fort William	250,000
Dunwich and Dutton Telephone Company, Limited, The	Dutton	6,000
Company, Limitou, Inc		0,000
DeFoe. Wilson Limited	Toronto	40 000
DeFoe. Wilson Limited	Toronto	
DeFoe, Wilson Limited	Toronto Toronto	36,000
DeFoe. Wilson Limited	Toronto Toronto Oshawa	36,000 75,000

Dyrob Steel Tools, Limited, The Toronto. 100,00 Press Essentials, Limited Toronto. 40,00 Donnen Feldspar Company, Limited, The Ottawa. 100,00 Dixlerson Dye Works, Limited, The Toronto. 40,00 Dixlerson Dye Works, Limited Toronto. 40,00 Dixlerson Dye Both Dixlerson Dye Works, Limited Toronto. 40,00 Dixlerson Dye Both		1	1
Dress Essentials, Limited Toronto. 40,00 Donnen Feldspar Company, Limited, The Ottawa 100,00 Dickinson Dye Works, Limited, The Toronto. 40,00 Dickinson Dye Works, Limited Toronto. 40,00 Dickinson Dye Works, Limited Toronto. 40,00 Dixel Produce Company, Limited Toronto. 40,00 Davenport Investments, Limited Welland. 60,00 Detroit Glencoe Gil Company, Limited Welland. 60,00 Detroit Glencoe Gil Company, Limited Glencoe. 650,00 Dyke & Sons, Limited, J. Fort William 250,00 Daly Drug Company, Limited, The H. J. Ottawa 40,00 Davison & Hughes Engraving & Lithographing Company, Limited, The Toronto. 40,00 Davison & Hughes Engraving & Lithographing Company, Limited, The Toronto. 20,00 Door Estates, Limited (No personal liability) Toronto. 20,00 Door Estates, Limited (No personal liability) Toronto. 20,00 Down Dicking Truck Company of Canada, Limited Windsor. 20,00 Dominion Macaront Company, Limited (No personal liability) Toronto. 50,00 Dundas Oil and Gas Company, Limited (No personal liability) Toronto. 50,00 Davison Bros, Limited Sudbury, 40,00 Davis Bros, Limited Toronto 60,00 Davis Bros, Limited Toronto 100,00 Dicking Manufacturing Company, Limited Toronto 100,00 Dicking Manufacturing Company, Limited, The Toronto 100,00 Dicking Toronto 100,0	Name.	Address.	Capital.
Dress Essentials, Limited Toronto. 40,00 Donnen Feldspar Company, Limited, The Ottawa 100,00 Dickinson Dye Works, Limited, The Toronto. 40,00 Dickinson Dye Works, Limited Toronto. 40,00 Dickinson Dye Works, Limited Toronto. 40,00 Dixel Produce Company, Limited Toronto. 40,00 Davenport Investments, Limited Welland. 60,00 Detroit Glencoe Gil Company, Limited Welland. 60,00 Detroit Glencoe Gil Company, Limited Glencoe. 650,00 Dyke & Sons, Limited, J. Fort William 250,00 Daly Drug Company, Limited, The H. J. Ottawa 40,00 Davison & Hughes Engraving & Lithographing Company, Limited, The Toronto. 40,00 Davison & Hughes Engraving & Lithographing Company, Limited, The Toronto. 20,00 Door Estates, Limited (No personal liability) Toronto. 20,00 Door Estates, Limited (No personal liability) Toronto. 20,00 Down Dicking Truck Company of Canada, Limited Windsor. 20,00 Dominion Macaront Company, Limited (No personal liability) Toronto. 50,00 Dundas Oil and Gas Company, Limited (No personal liability) Toronto. 50,00 Davison Bros, Limited Sudbury, 40,00 Davis Bros, Limited Toronto 60,00 Davis Bros, Limited Toronto 100,00 Dicking Manufacturing Company, Limited Toronto 100,00 Dicking Manufacturing Company, Limited, The Toronto 100,00 Dicking Toronto 100,0	Dyrob Steel Tools, Limited, The	Toronto	100,000
Dickinson Dye Works, Limited, The	Dress Essentials, Limited	Toronto	49,000
Dixie Produce Company, Limited			100,000
Davenport Investments, Limited			40,000
Dim-Rite Specialties, Limited			40,000
Detroit Glencoe Cil Company, Limited Glencoe. 550,00 byke & Sons. Limited J. Fort William. 250,00 byke & Sons. Limited J. Glencoe. 520,00 byke & Sons. Limited J. Glencoe. 520,00 baly Drug Company, Limited, The J. Ottawa. 40,00 bavison & Hughes Engraving & Lithographing Company. Limited, The Toronto. 600,000 bestetses, Limited Toronto. 1,000,00 bestetses, Limited Toronto. 1,000,00 beneby Motor Truck Company of Canada, Limited Windsor. 200,00 beneby Motor Truck Company of Canada, Limited Windsor. 200,00 bempster's, Limited Hamilton. 100,000 bempster's, Limited Toronto. 1,000,00 bavis Bros., Limited The Toronto. 1,000,00 bavis Bros., Limited Toronto. 1,000,00 bavis Bros., Limited Toronto. 1,000,00 bavis Bros., Limited Toronto. 1,000,00 bavis Tor			,
Dyke & Sons, Limited, J	Detroit Glencoe Cil Company, Limited	Glencoe	
Daly Drug Company, Limited, The H. J. Davison & Hughes Engraving & Lithographing Company, Limited, The Daton Spice Company, Limited, The Door Company, Limited (No personal liability) Door Destates, Limited Door Truck Company of Canada, Limited Down Estates, Limited Down Macaroni Company, Limited Domninon Macaroni Company, Limited Donninon Mearoni Company, Limited Donninon Mearoni Company, Limited Donninon Mearoni Meldrum Bay Somminon Cone Company, Limited Donninon Cone Company, Limited Donninon Cone Company, Limited Donninon Cone Company, Limited Donninon Cone Company, Limited Destric Insulation and Varnish Company, Limited, The Donninon Company, Limited Donninon Company, Limited Donninon Donninon Company, Limited Donninon			
Limited, The Toronto. 40,00 Jalton Spice Company, Limited, The Toronto. 600,00 Jalton Spice Company, Limited (No personal liability) Toronto. 1,000,00 Joner Oil Company, Limited (No personal liability) Toronto. 1,000,00 Joner Oil Company, Limited (No personal liability) Toronto. 1,000,00 Jonen Jone	Daly Drug Company, Limited, The H. J	. Ottawa	40,000
Dalton Spice Company, Limited, The Toronto 500,00 Doon Estates, Limited Trocome 700 Doon Estates, Limited 700 Dover Oil Company, Limited (No personal liability) 700 Donninon Macaroni Company, Limited 400 Dominion Macaroni Company, Limited 400 Dompster's, Limited 700 Donninon Macaroni Company, Limited 600 Donninon Macaroni Company, Limited 600 Dryden Pulp and Paper Company, Limited 700 Dryden Pulp and Waste, Limited 700 Dryden 700 Dryden Pulp and Paper Company, Limited 700 Dryden			40.000
Doon Estates, Limited (No personal liability) Toronto. 20,000 Dover Oil Company, Limited (No personal liability) Toronto. 1,000,00 Denby Motor Truck Company of Canada, Limited Windsor. 200,00 Dominion Macaroni Company, Limited Hamilton. 100,00 Dempster's, Limited Toronto. 500,00 Dundas Oil and Gas Company, Limited (No personal liability) Toronto. 500,00 Davis Bros., Limited Sudbury. 40,00 Davis Bros., Limited Sudbury. 40,00 Davis Bros., Limited Sudbury. 40,00 Davis Bros., Limited Toronto. 500,00 Davis Bros., Limited Toronto			
Dover Oil Company, Limited (No personal liability) Toronto 1,000,00 Denby Motor Truck Company of Canada, Limited Windsor Dempster's, Limited Hamilton Dempster's, Limited Hamilton Dempster's, Limited Hamilton Dryden	Doon Estates, Limited	. Toronto	
Dominion Macaroni Company, Limited Hamilton 100,000 bempster's, Limited 50,00 bempster's, Limited 70,00 bempster's, Limite	Dover Oil Company, Limited (No personal liability)	Toronto	1,000,000
Dempster's, Limited 50,000 pryden 1,000,001 and Gas Company, Limited (No personal liability) Toronto. 500,000 pryden Pulp and Paper Company, Limited 50,000 pryden Pulp and Paper Company, Limited 50,000 pryden Pulp and Paper Company, Limited 50,000 pryden 50,000 pryden Pulp and Paper Company, Limited 50,000 pryden 50,000 pr	Denby Motor Truck Company of Canada, Limited	Windsor	200,000
Dundas Oil and Gas Company, Limited (No personal liability) Toronto. 500,00 pryden Pulp and Paper Company, Limited Sudbury 40,00 paws Bros., Limited Toronto. 40,00 E Cloo Bay and Waste, Limited Toronto. 60,00 E Cloo Bay and Waste, Limited (No personal liability) Toronto. 100,00 E Cloo Bay and Wood Wool Company, Limited Toronto. 60,00 E Cloo Bay and Wood Wool Company, Limited Toronto. 100,00 E Cloo Bay and Wood Wool Company, Limited Toronto. 100,00 E Cloo Bay and Wood Wool Company, Limited, The Toronto. 100,00 E Cloo Bay and Wood Wool Company, Limited, The Toronto. 100,00 E Cloo Bay and Wool Company, Limited, The Toronto. 100,00 E Cloo Bay and Wool Wool Company, Limited, The Toronto. 100,00 E Cloo Bay and Wool Wool Company, Limited, The Toronto. 100,00 E Cloo Bay and Wool Wool Company, Limited, The Toronto. 100,00 E Cloo Bay and Wool Wool Company, Limited, The Toronto. 100,00 E Cloo Bay and Wool Wool Company, Limited, The Toronto. 100,00 E Cloo Bay and Willing Company, Limited (No personal liability) Toronto. 500,00 E Cloo Bay and Gas and Gas Heating Company, Limited, The Wingham 50,00 E Cloo Bay and Warehousing Company, Lid. The Toronto. 100,00 E Cloo Bay and Warehousing Company, Lid. The Toronto 100,00 E Cloo Bay and Warehousing Company, Lid. The Toronto 100,00 E Cloo Bay and Warehousing Company, Lid. The Toronto 100,00 E Cloo Bay and Willied The Woodstock 50,00 E Cloo Bay and Willied The Toronto 100,00 E Cloo Bay and Willied The Toronto 10	Dominion Macaroni Company, Limited	Hamilton	100,00
Dryden Pulp and Paper Company, Limited Sudbury. 40,000 Davis Bros. Limited Sudbury. 40,000 Dawson Township Telephone Company, Limited Meldrum Bay 85 Dominion Cone Company, Limited Toronto. 40,000 ECCITIC Insulation and Varnish Company, Limited Toronto. 60,000 Dawson Township Telephone Company, Limited Toronto. 100,000 Excelsior and Wood Wool Company, Limited The Toronto. 100,000 Excelsior and Wood Wool Company, Limited, The Toronto. 100,000 Excelsior and Gas Heating Company, Limited, The London 250,000 Excelsior Coll and Gas Heating Company, Limited, The Toronto. 100,000 Excelsior Coll and Gas Heating Company, Limited, The Toronto. 100,000 Excelsior Gas and Milling Company, Limited, The Toronto. 100,000 Excelsior Gas and Oil Company, Limited, The Hamilton. 40,000 Excelsior Gas and Oil Company, Limited, The Hamilton. 40,000 Excelsior Gas and Oil Company, Limited, The Hamilton. 40,000 Excelsior Gas and Oil Company, Limited, The Wingham 50,000 Excelsior Gas and Oil Company, Limited, The Wingham 50,000 Excelsior Gas and Oil Company, Limited, The Wingham 50,000 Excelsior Gas and Warehousing Company, Ltd. The Toronto. 100,000 Excelsior Gas Excelsior Company, Limited, The Wingham 50,000 Excelsior Gas Excelsior Company, Limited Toronto 100,000 Excelsior Colling Company, Limited T			50,000
Davis Bros., Limited			
Dawson Township Telephone Company, Limited Meldrum Bay 40,000 E Toronto E Mominion Cone Company, Limited Toronto Momentum Momentu	Dryuen Pulp and Paper Company, Limited	Dryden	
E Clico Bay and Waste, Limited	Dawson Township Telephone Company Limited	Moldrum Pov	
E Cleo Bay and Waste, Limited	Dominion Cone Company Limited	Toronto	
Cleo Bay and Waste, Limited Cleetric Insulation and Varnish Company, Limited Cleetric Insulation and Varnish Company, Limited Cleetric Insulation and Varnish Company, Limited Cleetric On and Wood Wool Company, Limited, The Cleetric Oil and Gompany, Limited, The Cleetric Oil and Gas Heating Company, Limited (No personal liability) Cleetric Oil and Gas Heating Company, Limited (No personal liability) Cleetric Oil and Gas Heating Company, Limited (No personal liability) Cleetric Oil and Gas Heating Company, Limited (No personal liability) Cleetric Oil and Gas Heating Company, Limited (No personal liability) Cleetric Oil and Gas Heating Company, Limited, The Cleetric Oil and Gas Heating Company, Limited Cleetric Oil and Cleetric Oil	John Cone Company, Elimited	Toronto	40,000
Cleetric Insulation and Varnish Company, Limited Toronto 100,000 Edwards and Wright, Limited (No personal liability) Toronto 100,000 Excelsior and Wood Wool Company, Limited, The Toronto 100,000 Essex Farmers, Limited Essex 35,000 Essex Farmers, Limited Essex 35,000 Essex Farmers, Limited Toronto 100,000 Essex Farmers Essex 35,000 Essex 500,000 Essex 500,00	E		
Cleetric Insulation and Varnish Company, Limited Toronto 100,000 Edwards and Wright, Limited (No personal liability) Toronto 100,000 Excelsior and Wood Wool Company, Limited, The Toronto 100,000 Essex Farmers, Limited Essex 35,000 Essex Farmers, Limited Essex 35,000 Essex Farmers, Limited Toronto 100,000 Essex Farmers Essex 35,000 Essex 500,000 Essex 500,00	Elco Bay and Waste, Limited	Toronto	40.000
Edwards and Wright, Limited (No personal liability) Stocelsior and Wood Wool Company, Limited, The Cligin Manufacturing Company, Limited, Toronto Cligin Manufacturing Company, Limited, Toronto Cligin Manufacturing Company, Limited (No personal liability) Toronto To			60,000
Elgin Manufacturing Company, Limited, The Esex 35,00 (25,000 (100,000
Sesex Farmers, Limited			100,000
Clectric Oil and Gas Heating Company, Limited, The Toronto. 100,00 mendy's, Limited Toronto. 40,00 mendy's, Limited Toronto. 40,00 mendy's, Limited Milling Company, Limited (No personal liability). Toronto. 500,00 mendy mining and Milling Company, Limited Milling Company, Limited Milling Company, Limited Milling Company, Limited, The Hamilton. 40,00 menders Publishing Company, Limited, The Toronto. 500,00 menders Publishing Company, Limited, The Wingham 50,000 menders Company, Limited, The Toronto. 100,000 menders Limited, The Woodstock 50,000 menders Limited, The Woodstock 50,000 menders Limited Milling Company, Limited Sault Ste. Marie Toronto 100,000 menders Wool Company, Limited Sault Ste. Marie Toronto 100,000 menders Wool Company, Limited Mills Milling Milling Miller, Limited, George R. Toronto 40,000 menders Milling Miller, Limited Miller, Limited Miller, Limited Miller, Limited Mills Milling Miller, Limited Mills Milling Miller, Limited Mills Milling Miller, Limited Mills Milling Miller, Limited Milling			250,000
Chendy's, Limited Toronto 40,00 Clidorado Mining and Milling Company, Limited (No personal liability) Toronto 500,00 Clis and Howard, Limited Kitchener 40,00 Cxcelsior Gas and Oil Company, Limited, The Hamilton 40,00 Cxcelsior Gas and Oil Company, Limited, The Hamilton 600,00 F Carmers' Publishing Company, Limited, The Wingham 50,000 Carmer Fertilizer Company, Limited, The Wingham 50,000 Carmer Fertilizer Company, Limited, The Toronto 100,000 Carmer Sertilizer Company, Limited, The Woodstock 50,000 Carmer Sertilizer Company, Limited, The Toronto 100,000 Carmer Sertilizer Company, Limited Sault Ste. Marie 150,000 Carmer Sertilizer Company, Limited Toronto 150,000 Carmer Wool Company, Limited Toronto 100,000 Carmer Wool Company, Limited Toronto 100,000 Carmer Wool Company, Limited Collingwood 40,000 Carmer Flour Mills Company, Limited Collingwood 40,000 Carmer Flour Mills George R. Toronto 40,000 Carmer Hardware, Limited Toronto 100,000 Carmer Sudbury	Essex Farmers, Limited	Essex	
Aldorado Mining and Milling Company, Limited (No personal liability)			
Callis and Howard, Limited Caxcelsior Gas and Oil Company, Limited, The Hamilton 40,00 dowards, Limited, Gordon C. Toronto 600,00 dowards, Limited, Gordon C. Toronto 500,00 dowards, Limited, The Wingham 50,00 downwards Company, Limited, The Wingham 50,00 downwards Company, Limited, The Wingham 50,00 downwards Company, Limited, The Toronto 100,00 downwards Company, Limited, The Woodstock 50,00 downwards Company, Limited Sault Ste. Marie Traser Wool Company, Limited Sault Ste. Marie Company Limited Toronto 100,00 downwards Company, Limited Toronto 100,00 downwards Company, Limited Company Company, Limited Collingwood 40,00 downwards Company Compan	Eldorado Mining and Milling Company, Limited (No personal		
Excelsior Gas and Oil Company, Limited, The Hamilton 40,000 Glowards, Limited, Gordon C. Toronto 600,000 F F Carmers' Publishing Company, Limited, The Wingham 50,000 Gloser Company, Limited, The Wingham 50,000 Gloser Company, Limited, The Wongham 50,000 Gloser Company, Limited, The Toronto 100,000 Gloser Company, Limited, The Woodstock 50,000 Gloser Company, Limited The Woodstock 50,000 Gloser Flour Mills Company, Limited Sault Ste. Marie Graser Wool Company, Limited Toronto 100,000 Gloser Flour Mills Company, Limited Barrie 60,000 Gloser Flour Mills Company, Limited Collingwood 40,000 Gloser Cox's, Limited Fort William 40,000 Gloser Cox's, Limited Toronto Sudbury 40,000 Gloser Hardware, Limited Sudbury 40,000 Gloser Western Chemical Corporation, Limited No personal liability 100 Gloser Gate Mining Company, Ltd. (No personal liability) Toronto 15,000 Gloser Gate Mining Company, Ltd. (No personal liability) Toronto 15,000 Gloser Gate Mining Company, Ltd. (No personal liability) Toronto 16,000 Gloser Gate Mining Company, Ltd. (No personal liability) Toronto 16,000 Gloser Gate Mining Company, Ltd. (No personal liability) Toronto 16,000 Gloser Gate Mining Company, Ltd. (No personal liability) Toronto 16,000 Gloser Gate Mining Company, Ltd. (No personal liability) Toronto 16,000 Gloser Gate Mining Company, Ltd. (No personal liability) Toronto 16,000 Gloser Gate Mining Company, Ltd. (No personal liability) Toronto 16,000 Gloser Gate Mining Company, Ltd. (No personal liability) Toronto 16,000 Gloser Gate Mining Company, Ltd. (No personal liability) Toronto 16,000 Gloser Gate Mining Company, Ltd. (No personal liability) Toronto 16,000 Gloser Gate Mining Company, Ltd. (No personal liability) Toronto 17,000 Gloser Gate Mining Company, Ltd. (No personal liability) Toronto 17,000 Gloser Gate Mining Company Ltd. (No personal liability) Toronto 17,000 Gloser Gate Mining Company Ltd. (No personal liability) Toronto 17,000 Gloser Gate Mining Company Ltd. (No personal liability) Toronto 17,000 Gloser Gate Mining Company Ltd.			
F. Carmers' Publishing Company, Limited, The Toronto. 500,000 (armer Fertilizer Company, Limited, The Wingham 50,000 (armer Fertilizer Company, Limited, The Wingham 50,000 (armer Fertilizer Company, Limited, The Wingham 50,000 (armer Company, Limited, The Toronto 40,000 (armer Company, Limited, The Woodstock 50,000 (armer Ray Lumber Company, Limited Sault Ste. Marie 150,000 (armer Flour Mills Company, Limited Toronto 100,000 (armer Flour Mills Company, Limited Barrie 60,000 (armer Flour Mills Company, Limited Collingwood 40,000 (armer Kenter Company) (armer Kenter Kenter Kenter Company) (armer Kenter Kenter Kenter Kenter Kenter Kenter Kenter Company) (armer Kenter Ken	Excelsion Gas and Oil Company Limited The	Kittchener	,
F Carmers' Publishing Company, Limited, The Toronto. 500,000 Carmer Fertilizer Company, Limited, The Wingham 50,000 Carmer Fertilizer Company, Limited, The Wingham 50,000 Carmer Fertilizer Company, Limited, The Toronto 40,000 Carderal Cold Storage and Warehousing Company, Ltd. The Toronto 100,000 Carmer Fertilizer Company, Limited, The Woodstock 50,000 Carench Bay Lumber Company, Limited Sault Ste. Marie 150,000 Carench Bay Lumber Company, Limited Toronto 100,000 Carench Bay Lumber Company, Limited Barrie 60,000 Carench Bay Limited Collingwood 40,000 Carench Bay Limited Collingwood 40,000 Carench Bay Limited Fort William 40,000 Carench Bay Limited Sudbury 40,000 Carench Bay Limited Toronto 100,000 Carench	Edwards, Limited, Gordon C.	Toronto	
Tarmers' Publishing Company, Limited, The Toronto. 500,000 (armer Fertilizer Company, Limited, The Wingham 50,000 (armer Company, Limited, F. W. Toronto. 40,000 (armer Company, Limited, F. W. Toronto. 100,000 (armer Company, Limited, The Woodstock 50,000 (armer Company, Limited, The Woodstock 50,000 (armer Company, Limited Sault Ste. Marie. 150,000 (armer Flour Mills Company, Limited Toronto. 100,000 (armer Flour Mills Company, Limited Barrie 60,000 (armer Flour Mills Company, Limited Collingwood 40,000 (armer Company, Limited Sudbury, Limited Sudbury. 40,000 (armer Company, Limited Toronto 40,000 (armer Company, Limited Sudbury. 1,500,000 (armer Company, Limited Sudbury. 1,50			000,000
armer Fertilizer Company, Limited, The Wingham. 50,000 Pisher Company, Limited, F. W. Toronto. 40,000 Piederal Cold Storage and Warehousing Company, Ltd. The Toronto. 100,000 Pig Lax Laboratories Limited, The Woodstock. 50,000 Prench Bay Lumber Company, Limited Sault Ste. Marie. 150,000 Prench Bay Lumber Company, Limited Barrie. 60,000 Prench Bay Lumber Company, Limited Collingwood. 40,000 Prench Bay Lumber Company, Limited Port William P			
armer Fertilizer Company, Limited, The Wingham. 50,000 Pisher Company, Limited, F. W. Toronto. 40,000 Piederal Cold Storage and Warehousing Company, Ltd. The Toronto. 100,000 Pig Lax Laboratories Limited, The Woodstock. 50,000 Prench Bay Lumber Company, Limited Sault Ste. Marie. 150,000 Prench Bay Lumber Company, Limited Barrie. 60,000 Prench Bay Lumber Company, Limited Collingwood. 40,000 Prench Bay Lumber Company, Limited Port William P	Farmers' Publishing Company, Limited, The	Toronto	500,000
rederal Cold Storage and Warehousing Company, Ltd., The Toronto	Farmer Fertilizer Company, Limited, The	Wingham	50,000
rench Bay Lumber Company, Limited Sault Ste. Marie. Traser Wool Company, Limited Toronto. Tench Bay Lumber Company, Limited Toronto. Traser Wool Company, Limited Barrie. Toronto Company, Limited Barrie. Toronto Company, Limited Collingwood. Toronto Company, Limited Collingwood. Toronto Company, Limited Toronto Company, Limited Toronto Company, Limited Toronto Toronto Company, Limited Toronto Toronto Company Limited Toronto Toronto Company Limited Toronto Toronto Toronto Company Limited Toronto Toronto Toronto Company Limited Toronto Toronto Company Limited Toronto Toronto Toronto Company Limited Toronto Toronto Toronto Company Limited Toronto Toronto Company Limited Toronto Toronto Toronto Toronto Company Limited Toronto Tor	Sisher Company, Limited, F. W.	Toronto	40.000
rench Bay Lumber Company, Limited Sault Ste. Marie. 150,000 (raser Wool Company, Limited Toronto 100,000 (Suber Flour Mills Company, Limited Barrie 60,000 (Surguson and Wheatley, Limited Collingwood 40,000 (Surguson and Wheatley, Limited Fort William 40,000 (Surguson and Wheatley, Limited Sudbury 40,000 (Suber Hardware, Limited Sudbury 40,000 (Suber Western Chemical Corporation, Limited No personal liability) 1500,000 (Suber Hardware Gate Mining Company, Ltd. (No personal liability) 1500,000 (Market Mining Company, Ltd. (M	Gederal Cold Storage and Warehousing Company, Ltd., The	Toronto	100,000
raser Wool Company, Limited	rig Lax Laboratories Limited, The	Woodstock	
Sisher Flour Mills Company, Limited Barrie. 60,000 Gerguson and Wheatley, Limited Collingwood. 40,000 Ox's, Limited Fort William 40,000 Guller, Limited, George R. Toronto. 40,000 G G Grit Press, Limited Sudbury. 100,000 Grit Press, Limited Toronto. 1,500,000 Grit Pres	French Bay Lumber Company, Limited	Sault Ste. Marie.	
reguson and Wheatley, Limited	Fisher Flour Mills Company Limited	Parrio	20,000
ox's, Limited	Ferguson and Wheatley, Limited	Collingwood	
rit Press, Limited	Fox's, Limited	Fort William	
owler Hardware, Limited	Fuller, Limited, George R	Toronto	40,000
rit Press, Limited	Fowler Hardware, Limited	Sudbury	40,000
reat Western Chemical Corporation, Limited (No personal liability)	G		
reat Western Chemical Corporation, Limited (No personal liability)	Grit Press, Limited	Toronto.	100.000
olden Gate Mining Company, Ltd. (No personal liability) Toronto 1,500,000	freat Western Chemical Corporation, Limited (No personal		100,000
ilbert Menzies Company, Limited, The A. C	liability)	Port Arthur	1,500,000
Toronto 100,000	Filhert Mongies Company, Ltd. (No personal liability)	Toronto	40,000
	sincerc mensies Company, Limited, The A. C.	Toronto	100,000

List of Companies Incorporated for the year 1918, ending October 31st.—Continued.

Name.	Address.	Capital.
Galt Foundry Company, Limited	Galt	40,000
Galt Foundry Company, Limited	Toronto	50,000
Greig, Morris and Blair, Limited	Toronto	150,000
Great Lake Oil Refining Company, Limited	Toronto	
Gamble Robinson, North Bay, Limited	North Bay	40,000
Goulais Bay Telephone Company, Limited	Gonlais River	
Grant Company, Limited, The T. D	Guelph	
Goudies, Limited	Kitchener	
General Research and Development Company, Limited	Toronto	100,000
Grimshaw Wool Company, Limited, The	Toronto	50,000
Gratton Limited	Toronto	40,000
Glover Basket Company, Limited	Burlington	100,000
Gold Lake Mining Company, Limited	Toronto	1,000,000
Gelber Bros Limited	Toronto	200,000
Glennie and Moore, Limited	Galt	40,000
Goodwin and Company, Limited	Sarnia	40,000
Guelph Paper Box Company, Limited	Guelph	40,000
Glendale Spinning Mills, Limited	Hamilton	50,000
Gophir Diamond Company, Limited, The	Toronto	40,000
н		
**		
Hamilton Automobile Supply Company Limited, The	Hamilton	40,000
Hop-Malt Company, Limited	Hamilton	40,000
Howrey Creek Mining Company, Ltd. (No personal liability)	Toronto	1,000,000
Hull Construction, Limited		40,000
High Park Club		20,000
Henderson Farmers' Line, Limited	Toronto	40,000
Hercules Rubber Company, Limited		150,000
Hillock, Limited, Frank	Toronto	100,000
Hamilton Leather Goods Company, Limited	Hamilton	100,000
Hacking's, Limited		100,000
Haldimand Machine Company, Limited		40,000
Howe Fish Company, Limited, The	Pt Stanley	100,000
Hill Gold Mining Company, Limited (No personal liability)	Toronto	3,000,000
Harrison, Limited, R. A	Dunnville	40,000
Hallman Company, Limited, The		40,000
House Repair Company, Limited		40,000
Highgate Milling Company, Limited	Highgate	80,000
Hawley Company, Limited, John S	Toronto	40,000
Harmak Mining Company, Limited		300,000
Higgins, Limited, J. J		40,000
Hay Brothers, Limited		100,000
Hewart and Wood, Limited		100,000
Hadley Company, Limited, The C. and J		50,000
Hampshire Telephone Company, Limited, The		1,400
Hewitson Company, Limited, J. F	Port Arthur	40,000
I		
Ideal Box Lunch, Limited	Hamilton	40,000
Indian Trail Mines, Limited. The (No personal liability)		1.000,000
Interprovincial Flour Mills, Limited		50,000
Interurban Engineering Company, Limited		35,000
Ivy and Thornton Farmers' Stock and Grain Company, Ltd	Thornton	100,000
Irving's, Limited		20,000
International Agencies, Limited		40,000
Imperial Clothing Manufacturing Company, Ltd., The		200,000
International Munitions, Limited		
lrons and Company, Limited, W. E	Toronto	25,000

Name.	Address.	Capital.
J		
Jaimet and Company, J. C. James and Smith, Limited Jobbers Realty, Limited Jarvis Agency, Limited, The	Toronto	40,000 40,000 100,000 40,000
K .		
Kent County Oil, Gas and Coal Company, Ltd. (No personal liability) Kline Fanning Mill Company, Limited Kitchener Realty, Limited Kent Bridge Farmers' Co-operative Society, Limited, The Kent Ockley Kitchener Furniture Company, Limited, The Keele Fair Construction Company, Limited K. & S. Canadian Tire & Rubber Company, Limited Kinsey Company, Limited, W. W. Ketchum Manufacturing Company, Limited Keppel Rural Telephone Company, Limited, The	Beeton	40,000 40,000 25,000 40,000 40,000 40,000 40,000 40,000 1,680
L		
Lyndhurst Hospital Lyndroute Groceries, Limited Lauder, Spears and Howland, Limited Long and Wilson Hardware, Limited Lincoln County Greater Production Company, Limited Lookout Mines, Limited (No personal liability) Langstaff Mercantile Company, Limited London Oil Company, Limited (No personal liability) Luton Farmers' Co-operative Club, Limited Lincoln Meter Company, Limited, The Luhrmann, Limited, C. F. Livingstone Rural Telephone Company, Limited	Toronto	40,000 40,000 250,000 40,000 25,000 40,000 40,000 3,000 100,000 40,000 3,300
M		
Maestolian Company, Limited, The Manitoulin Sheep Ranching Company, Limited Mattawin Contracting Company, Limited Milton Shoes, Limited, The Millard's Products, Limited Mica Products, Limited, The Middlesex Woollen Company, Limited Modern Theatres, Limited Marshall Ventilated Mattress Company, Limited, The Menard, McKeon Truck Company, Limited McDermid and Kyle, Limited Miller, Limited, L. E. Mackey Company, Limited, The Morris-Knowles, Limited Metals Chemical, Limited Muir Cap Company, Limited Muir Cap Company, Limited, The McMaster Lumber Company, Limited Manley's, Limited Mihell and Gill Company, Limited, The Metals Chemical Development Company, Limited Mulligan Pharmacy, Limited, The Murphy, Bradley, Limited	Toronto. Port Arthur Milton. Toronto. Toronto. Toronto. Toronto. Toronto. Toronto. Foronto. Stratford Foronto. Foronto. Windsor Welland Foronto. Kemptville. Sarnia Strathroy Welland Strathroy Welland Strathroy Melland Strathroy	100,000 100,000 40,000 40,000 40,000 40,000 40,000 50,000 1,000,000 40,000

Montreal-Kirkland Gold Mines, Limited (No personal liability) Mitchell, Limited, J. F. Minerva Phonograph Company, Limited McLarty, Limited, R. W. Molybdenum Products Company, Ltd. (No personal liability) Maberly Telephone Company, Limited Murray Company, Limited, Wm. Mercantile Securities, Limited Merrickville Milling and Manufacturing Company, Ltd, The McCredie Tractors, Limited McCredie Tractors, Limited Naunder Milling Company, Limited Novelty Lace and Veiling Company, Limited, The Niagara Tool and Machinery Company, Limited, The Northern Wood Products, Limited, The Northern Gas and Gasoline Company North Star Publishing Company Ltd. (No personal liability) Toronto 3	000,000 40,000 75,000 1,500 40,000 25,000 40,000 40,000 40,000 40,000 40,000 40,000 40,000 40,000
Mitchell, Limited, J. F	40,000 40,000 75,000 1,500 40,000 600,000 40,000 40,000 40,000 40,000 40,000 60,000 60,000 60,000
Mitchell, Limited, J. F	40,000 40,000 75,000 1,500 40,000 600,000 40,000 40,000 40,000 40,000 40,000 60,000 60,000 60,000
Minerva Phonograph Company, Limited Toronto. McLarty, Limited, R. W. Toronto. Molybdenum Products Company, Ltd. (No personal liability) Wilberforce. Maberly Telephone Company, Limited Maberly. Murray Company, Limited, Wm. Toronto. Mercantile Securities, Limited Toronto. Merrickville Milling and Manufacturing Company, Ltd, The Merrickville. McCredie Tractors, Limited St. Mary's. Maunder Milling Company, Limited, The Lindsay. N Novelty Lace and Veiling Company, Limited, The St. Catharines. Niagara Tool and Machinery Company, Limited, The St. Catharines. Northern Wood Products, Limited, The Haileybury. Northern Gas and Gasoline Company Hepworth. National Cabinet Company, Limited Parry Sound. Nepigon Reserve Iron Company, Ltd. (No personal liability) Toronto. 3	40,000 75,000 1,500 40,000 600,000 40,000 40,000 40,000 40,000 40,000 40,000 60,000
McLarty, Limited, R. W. Toronto. Molybdenum Products Company, Ltd. (No personal liability) Wilberforce. 1,0 Maberly Telephone Company, Limited Maberly. Toronto. Maberly Company, Limited, Wm. Toronto. Merrickville Securities, Limited Toronto. Merrickville Milling and Manufacturing Company, Ltd, The Merrickville. McCredie Tractors, Limited St. Mary's. Lindsay. Novelty Lace and Veiling Company, Limited, The St. Catharines. Northern Wood Products, Limited, The St. Catharines. Northern Wood Products, Limited, The Haileybury. Northern Gas and Gasoline Company Hepworth. National Cabinet Company, Limited Parry Sound. Nepigon Reserve Iron Company, Ltd. (No personal liability) Toronto. 3	1,500 1,500 40,000 600,000 25,000 40,000 100,000 40,000 40,000 40,000 60,000
Molybdenum Products Company, Ltd. (No personal liability). Maberly Telephone Company, Limited. Murray Company, Limited, Wm. Mercantile Securities, Limited. Merrickville Milling and Manufacturing Company, Ltd, The. McCredie Tractors, Limited. McCredie Tra	1,500 40,000 500,000 25,000 40,000 100,000 40,000 40,000 60,000
Murray Company, Limited, Wm. Toronto. Mercantile Securities, Limited Toronto. Merrickville Milling and Manufacturing Company, Ltd, The Merrickville. McCredie Tractors, Limited St. Mary's. Maunder Milling Company, Limited Lindsay. N Novelty Lace and Veiling Company, Limited, The Toronto. Newman Brothers, Limited St. Catharines. Niagara Tool and Machinery Company, Limited, The St. Catharines. Northern Wood Products, Limited, The Haileybury. Northern Gas and Gasoline Company Hepworth National Cabinet Company, Limited Parry Sound. North Star Publishing Company Limited Parry Sound. Nepigon Reserve Iron Company, Ltd. (No personal liability) Toronto.	40,000 500,000 25,000 40,000 40,000 100,000 40,000 40,000 60,000
Murray Company, Limited, Wm. Toronto. Mercantile Securities, Limited Toronto. Merrickville Milling and Manufacturing Company, Ltd, The Merrickville. McCredie Tractors, Limited St. Mary's. Maunder Milling Company, Limited Lindsay. N Novelty Lace and Veiling Company, Limited, The Toronto. Newman Brothers, Limited St. Catharines. Niagara Tool and Machinery Company, Limited, The St. Catharines. Northern Wood Products, Limited, The Haileybury. Northern Gas and Gasoline Company Hepworth National Cabinet Company, Limited Parry Sound. North Star Publishing Company Limited Parry Sound. Nepigon Reserve Iron Company, Ltd. (No personal liability) Toronto.	25,000 40,000 40,000 40,000 100,000 40,000 40,000 60,000
Mercantile Securities, Limited	25,000 40,000 40,000 100,000 40,000 40,000 60,000
Merrickville Milling and Manufacturing Company, Ltd, The. Merrickville McCredie Tractors, Limited	40,000 40,000 100,000 40,000 40,000 60,000
Maunder Milling Company, Limited	40,000 100,000 40,000 40,000 60,000
Novelty Lace and Veiling Company, Limited, The	100,000 100,000 40,000 40,000 60,000
Novelty Lace and Veiling Company, Limited, The	40,000 40,000 40,000 60,000
Newman Brothers, Limited	40,000 40,000 40,000 60,000
Niagara Tool and Machinery Company, Limited, The St. Catharines. Northern Wood Products, Limited, The Haileybury Northern Gas and Gasoline Company Hepworth National Cabinet Company, Limited Toronto North Star Publishing Company Limited	40,000 40,000 60,000
Niagara Tool and Machinery Company, Limited, The St. Catharines. Northern Wood Products, Limited, The Haileybury Northern Gas and Gasoline Company Hepworth National Cabinet Company, Limited Toronto North Star Publishing Company Limited	40,000
Northern Gas and Gasoline Company	60,000
National Cabinet Company, Limited	
North Star Publishing Company Limited	40 000
Nepigon Reserve Iron Company, Ltd. (No personal liability) Toronto 3	
Nepigon Reserve Iron Company, Ltd. (No personal liability) Toronto 3	40,000
	375,000
	50,000
	40,000
The state of the s	40,000
	200,000
	100,000
North Bonnechere Telephone Association, Limited Renfrew	1,000 50,000
	10,000
	25,000
Nickel Lake Mining Company, Limited (No personal liability) Fort Frances 1.0	
o	
Oakwood Amusement Company, Limited	40,000
Ctton Hardware Co., Limited Barrie	40,000
	40,000
	40,000
	105,000
Overlays Company, Limited, M. B	40,000
	30,000
Omemee Tanning Company, Limited, The Toronto	40,000
	100,000
Orsiny Construction Company, Limited Toronto	40,000
P	
Perfection Children's Cloak Company, LimitedToronto	40,000
	40,000
Pearson Brothers, Limited	40,000
Peerless Carbon and Ribbon Company, Limited	250,000
,	50,000
	25,000
	60,000
	60,000
	75,000
	250,000
	1,000
Porcupine River Improvement Company, Limited	40,000
	20,000
2 date recard, Company, Miniton (111111111111111111111111111111111111	000,000

Name.	Address.	Capital.
		40.000
Pullan Manufacturing Company, Limited	Toronto	40,003
Petigorsky, Limited		40,000
Provincial Lumber Company, Limited Paudash Lake Molybdenite Mines, Limited (No personal		40,000
liability)	Wilberforce	150,000
Perth Printing and Publishing Company, Limited		80,000 25,000
Petrolia Printing and Publishing Company, Limited		40,000
Porcelain Products, Limited		40,000
Port Colborne Supply Company, Limited		40,000
Plane Settlement Telephone Company, Limited	Madoc	2,000
Q	·	
Queen City Dental Manufacturing, Limited	Toronto	40,000
Quinte Transfer Company, Limited	Belleville	40,000
Queen City Vinegar, Limited	Toronto	90,000
Quinte Chemical Company, Limited	Deseronto	40,000
R		
r.		
Rae Machine Tool Works, Limited	Hamilton	45,000
R. B. Hill, Limited		75,000
Reliable Butchers & Grocers Company, Limited	Toronto	40,000
Raw Silk Corporation of Canada, Limited		100,000
Ripley Peck Hardware Company, Limited		60,000
Rapid Radiators, Limited		40,000
Rondeau Fish Company, Limited		40,000
Rawdon Threshing Company, Limited		5,000 20,000
Regal Ladies' Wear, Limited		40,000
Raper Piano Company, Limited, John		1,000,000
· s		
Sudbury Knights of Columbus Home Association, Limited	Sudbury	31,000
Stevens Catering Company, Limited	Hailevhury	40.000
		40,000
Seneca Lumber Company, Limited, The	Kitchener	40,000
Seneca Lumber Company, Limited, The	Kitchener Searchmont	40,000 100,000
Seneca Lumber Company, Limited, The Searchmont Lumber Company, Limited Superior Mines, Limited	Kitchener Searchmont Toronto	40,000 100,000 500,000
Seneca Lumber Company, Limited, The Searchmont Lumber Company, Limited Superior Mines, Limited Stanley and Company, Limited, L. E.	Kitchener Searchmont Toronto Ottawa	40,000 100,000 500,000 40,000
Seneca Lumber Company, Limited, The Searchmont Lumber Company, Limited Superior Mines, Limited Stanley and Company, Limited, L. E. Swaddling and Sons, Limited	Kitchener Searchmont Toronto Ottawa Cobourg	40,000 100,000 500,000 40,000 40,000
Seneca Lumber Company, Limited, The Searchmont Lumber Company, Limited Superior Mines, Limited Stanley and Company, Limited, L. E. Swaddling and Sons, Limited Superior Lunch, Limited	Kitchener	40,000 100,000 500,000 40,000 40,000 60,000
Seneca Lumber Company, Limited, The Searchmont Lumber Company, Limited Superior Mines, Limited Stanley and Company, Limited, L. E. Swaddling and Sons, Limited Superior Lunch, Limited St. Catharines Taxicabs, Limited	Kitchener	40,000 100,000 500,000 40,000 60,000 40,000
Seneca Lumber Company, Limited, The Searchmont Lumber Company, Limited Superior Mines, Limited Stanley and Company, Limited, L. E. Swaddling and Sons, Limited Superior Lunch, Limited St. Catharines Taxicabs, Limited Shilington Company, Limited, The	Kitchener	40,000 100,000 500,000 40,000 60,000 40,000 75,000
Seneca Lumber Company, Limited, The Searchmont Lumber Company, Limited Superior Mines, Limited Stanley and Company, Limited, L. E. Swaddling and Sons, Limited Superior Lunch, Limited St. Catharines Taxicabs, Limited Shilington Company, Limited, The Schnaufer Company, Limited, The A. F. Sutherland Press, Limited, The	Kitchener Searchmont Toronto Ottawa Cobourg Toronto St. Catharines Blenheim Toronto St. Thomas	40,000 100,000 500,000 40,000 60,000 40,000 75,000 400,000
Seneca Lumber Company, Limited, The Searchmont Lumber Company, Limited Superior Mines, Limited Stanley and Company, Limited, L. E. Swaddling and Sons, Limited Superior Lunch, Limited St. Catharines Taxicabs, Limited St. Catharines Taxicabs, Limited Schnaufer Company, Limited, The Schnaufer Company, Limited, The Sutherland Press, Limited, The Selak Orth, Limited	Kitchener. Searchmont. Toronto. Ottawa. Cobourg. Toronto. St. Catharines. Blenheim. Toronto. St. Thomas. London.	40,000 100,000 500,000 40,000 60,000 40,000 40,000 40,000 20,000
Seneca Lumber Company, Limited, The Searchmont Lumber Company, Limited Superior Mines, Limited Stanley and Company, Limited, L. E. Swaddling and Sons, Limited Superior Lunch, Limited St. Catharines Taxicabs, Limited Shilington Company, Limited, The Schnaufer Company, Limited, The A. F. Sutherland Press, Limited, The Selak Orth, Limited Sudbury Housing Association, Limited, The	Kitchener. Searchmont. Toronto. Ottawa. Cobourg. Toronto. St. Catharines. Blenheim. Toronto. St. Thomas. London. Sudbury.	40,000 100,000 500,000 40,000 60,000 40,000 400,000 20,000 100,000
Seneca Lumber Company, Limited, The Searchmont Lumber Company, Limited Superior Mines, Limited Stanley and Company, Limited, L. E. Swaddling and Sons, Limited Superior Lunch, Limited St. Catharines Taxicabs, Limited Shilington Company, Limited, The Schnaufer Company, Limited, The A. F. Sutherland Press, Limited, The Selak Orth, Limited Sudbury Housing Association, Limited, The Safety Stove Pipe Company, Limited, The	Kitchener	40,000 100,000 500,000 40,000 40,000 75,000 40,000 20,000 100,000 50,000
Seneca Lumber Company, Limited, The Searchmont Lumber Company, Limited Superior Mines, Limited Stanley and Company, Limited, L. E. Swaddling and Sons, Limited Superior Lunch, Limited St. Catharines Taxicabs, Limited Shilington Company, Limited, The Schnaufer Company, Limited, The Sutherland Press, Limited, The Selak Orth, Limited Sudbury Housing Association, Limited, The Safety Stove Pipe Company, Limited, The Sherman Service, Limited	Kitchener Searchmont Toronto Ottawa Cobourg Toronto St. Catharines Blenheim Toronto St. Thomas London Sudbury Toronto Toronto	40,000 100,000 500,000 40,000 40,000 75,000 40,000 20,000 100,000 1,000
Seneca Lumber Company, Limited, The Searchmont Lumber Company, Limited Superior Mines, Limited Stanley and Company, Limited, L. E. Swaddling and Sons, Limited Superior Lunch, Limited St. Catharines Taxicabs, Limited Shilington Company, Limited, The Schnaufer Company, Limited, The Schnaufer Company, Limited, The Sutherland Press, Limited, The Selak Orth, Limited Sudbury Housing Association, Limited, The Safety Stove Pipe Company, Limited, The Sherman Service, Limited Security Bond Corporation, Limited	Kitchener Searchmont Toronto Ottawa Cobourg Toronto St. Catharines Blenheim Toronto St. Thomas London Sudbury Toronto Toronto Toronto	40,000 100,000 500,000 40,000 40,000 40,000 40,000 20,000 100,000 1,000
Seneca Lumber Company, Limited, The Searchmont Lumber Company, Limited Superior Mines, Limited Stanley and Company, Limited, L. E. Swaddling and Sons, Limited Superior Lunch, Limited St. Catharines Taxicabs, Limited Shilington Company, Limited, The Schnaufer Company, Limited, The A. F. Sutherland Press, Limited, The Selak Orth, Limited Sudbury Housing Association, Limited, The Safety Stove Pipe Company, Limited, The Sherman Service, Limited Security Bond Corporation, Limited Silver Lake Ice and Fish Company, Limited	Kitchener Searchmont Toronto Ottawa Cobourg Toronto St. Catharines Blenheim Toronto St. Thomas London Sudbury Toronto Toronto Toronto Toronto Hamilton	40,000 100,000 500,000 40,000 40,000 40,000 20,000 100,000 100,000 40,000
Seneca Lumber Company, Limited, The Searchmont Lumber Company, Limited Superior Mines, Limited Stanley and Company, Limited, L. E. Swaddling and Sons, Limited Superior Lunch, Limited St. Catharines Taxicabs, Limited Shilington Company, Limited, The Schnaufer Company, Limited, The Schnaufer Company, Limited, The Sutherland Press, Limited, The Selak Orth, Limited Sudbury Housing Association, Limited, The Safety Stove Pipe Company, Limited, The Sherman Service, Limited Security Bond Corporation, Limited Southwold and Dunwich Telephone Association, Limited Southwold and Dunwich Telephone Association, Limited Sutcliffe and Bingham of Canada, Limited	Kitchener Searchmont Toronto Ottawa Cobourg Toronto St. Catharines Blenheim Toronto St. Thomas London Sudbury Toronto Toronto Toronto Hamilton Iona Station Toronto	
Seneca Lumber Company, Limited, The Searchmont Lumber Company, Limited Superior Mines, Limited Stanley and Company, Limited, L. E. Swaddling and Sons, Limited Superior Lunch, Limited Superior Lunch, Limited Shilington Company, Limited, The Schnaufer Company, Limited, The Schnaufer Company, Limited, The Sutherland Press, Limited, The Selak Orth, Limited Sudbury Housing Association, Limited, The Safety Stove Pipe Company, Limited, The Sherman Service, Limited Security Bond Corporation, Limited Silver Lake Ice and Fish Company, Limited Southwold and Dunwich Telephone Association, Limited Suteliffe and Bingham of Canada, Limited Spittal-Sparks Company, Limited	Kitchener Searchmont Toronto Ottawa Cobourg Toronto St. Catharines Blenheim Toronto St. Thomas London Sudbury Toronto Toronto Toronto Hamilton Iona Station Toronto Hamilton Hamilton	40,000 100,000 500,000 40,000 60,000 40,000 75,000 40,000 20,000 100,000 100,000 40,000 6,725
Seneca Lumber Company, Limited, The Searchmont Lumber Company, Limited Superior Mines, Limited Stanley and Company, Limited, L. E. Swaddling and Sons, Limited Superior Lunch, Limited St. Catharines Taxicabs, Limited Shilington Company, Limited, The Schnaufer Company, Limited, The Schnaufer Company, Limited, The Sutherland Press, Limited, The Selak Orth, Limited Sudbury Housing Association, Limited, The Safety Stove Pipe Company, Limited, The Sherman Service, Limited Security Bond Corporation, Limited Silver Lake Ice and Fish Company, Limited Southwold and Dunwich Telephone Association, Limited Spittal-Sparks Company, Limited Spittal-Sparks Company, Limited Shand, Engineering and Contracting Company, Limited	Kitchener Searchmont Toronto Ottawa Cobourg Toronto St. Catharines Blenheim Toronto St. Thomas London Sudbury Toronto Toronto Toronto Hamilton Iona Station Toronto Hamilton Sault Ste. Marie	40,000 100,000 500,000 40,000 40,000 40,000 20,000 100,000 40,000 40,000 40,000 40,000 40,000 40,000 40,000 40,000 40,000
Seneca Lumber Company, Limited, The Searchmont Lumber Company, Limited Stuperior Mines, Limited Stanley and Company, Limited, L. E. Swaddling and Sons, Limited Superior Lunch, Limited St. Catharines Taxicabs, Limited Shilington Company, Limited, The Schnaufer Company, Limited, The Schnaufer Company, Limited, The Selak Orth, Limited Sudbury Housing Association, Limited, The Safety Stove Pipe Company, Limited, The Sherman Service, Limited Security Bond Corporation, Limited Silver Lake Ice and Fish Company, Limited Southwold and Dunwich Telephone Association, Limited Spittal-Sparks Company, Limited Spittal-Sparks Company, Limited Shand, Engineering and Contracting Company, Limited Stone and Company, Limited, W. A.	Kitchener Searchmont Toronto Ottawa Cobourg Toronto St. Catharines Blenheim Toronto St. Thomas London Sudbury Toronto Toronto Toronto Hamilton Iona Station Toronto Hamilton Sault Ste. Marie Toronto	40,000 100,000 500,000 40,000 40,000 40,000 20,000 100,000 40,000 40,000 40,000 40,000 40,000 40,000 50,000 100,000 40,000 25,000
Seneca Lumber Company, Limited, The Searchmont Lumber Company, Limited Superior Mines, Limited Stanley and Company, Limited, L. E. Swaddling and Sons, Limited Superior Lunch, Limited Superior Lunch, Limited St. Catharines Taxicabs, Limited Shilington Company, Limited, The Schnaufer Company, Limited, The Schnaufer Company, Limited, The Sutherland Press, Limited, The Sutherland Press, Limited, The Safety Stove Pipe Company, Limited, The Safety Stove Pipe Company, Limited, The Sherman Service, Limited Security Bond Corporation, Limited Southwold and Dunwich Telephone Association, Limited Southwold and Dunwich Telephone Association, Limited Sutcliffe and Bingham of Canada, Limited Spittal-Sparks Company, Limited Shand, Engineering and Contracting Company, Limited Stone and Company, Limited, W. A. Smith Brothers Jewellers, Limited	Kitchener Searchmont Toronto Ottawa Cobourg Toronto St. Catharines Blenheim Toronto St. Thomas London Sudbury Toronto Toronto Hamilton Iona Station Toronto Hamilton Sault Ste. Marie Toronto Kingston	40,000 100,000 500,000 40,000 40,000 40,000 20,000 100,000 50,000 1,000 40,000 40,000 40,000 5,725 40,000 25,000 20,000 20,000
Seneca Lumber Company, Limited, The Searchmont Lumber Company, Limited Superior Mines, Limited Stanley and Company, Limited, L. E. Swaddling and Sons, Limited Superior Lunch, Limited Superior Lunch, Limited Superior Company, Limited Shilington Company, Limited, The Schnaufer Company, Limited, The Schnaufer Company, Limited, The Sutherland Press, Limited, The Selak Orth, Limited Sudbury Housing Association, Limited, The Safety Stove Pipe Company, Limited, The Sherman Service, Limited Security Bond Corporation, Limited Silver Lake Ice and Fish Company, Limited Southwold and Dunwich Telephone Association, Limited Sutelifie and Bingham of Canada, Limited Spittal-Sparks Company, Limited Spittal-Sparks Company, Limited Shand, Engineering and Contracting Company, Limited Shand, Engineering and Contracting Company, Limited Sparling and Reeson, Limited	Kitchener Searchmont Toronto Ottawa Cobourg Toronto St. Catharines Blenheim Toronto St. Thomas London Sudbury Toronto Toronto Hamilton Iona Station Toronto Hamilton Sault Ste. Marie Toronto Kingston Cobourg	40,000 100,000 500,000 40,000 40,000 40,000 40,000 50,000 100,000 6,725 40,000 40,000 25,000 40,000 40,000 40,000 40,000 40,000 40,000 40,000
Seneca Lumber Company, Limited, The Searchmont Lumber Company, Limited Superior Mines, Limited Stanley and Company, Limited, L. E. Swaddling and Sons, Limited Superior Lunch, Limited Superior Lunch, Limited St. Catharines Taxicabs, Limited Shilington Company, Limited, The Schnaufer Company, Limited, The Schnaufer Company, Limited, The Sutherland Press, Limited, The Sutherland Press, Limited, The Safety Stove Pipe Company, Limited, The Safety Stove Pipe Company, Limited, The Sherman Service, Limited Security Bond Corporation, Limited Southwold and Dunwich Telephone Association, Limited Southwold and Dunwich Telephone Association, Limited Sutcliffe and Bingham of Canada, Limited Spittal-Sparks Company, Limited Shand, Engineering and Contracting Company, Limited Stone and Company, Limited, W. A. Smith Brothers Jewellers, Limited	Kitchener Searchmont Toronto Ottawa Cobourg Toronto St. Catharines Blenheim Toronto St. Thomas London Sudbury Toronto Toronto Hamilton Iona Station Toronto Hamilton Sault Ste. Marie Toronto Kingston Cobourg Toronto	40,000 100,000 500,000 40,000 40,000 40,000 20,000 100,000 50,000 1,000 40,000 40,000 40,000 5,725 40,000 25,000 20,000 20,000

Name.	Address.	Capital.
T		
Tanlac Company, Limited		40,000
Traders' Financial Company, Limited	Toronto	40,000
Times Journal of St. Thomas, Limited, The		100,000
Turnbull Company Limited, The J		100,000
Limited		
Terminal Publishing Company, Limited		50,000
Thompson Brothers, Limited Toronto Cabinet Company, Limited		60,000 40,000
U		
Universial Coal Company, Limited	Toronto	100,000
Universial Car Agency, Limited	Windsor	40,000
Union Garage & Motors, Limited	Toronto	40,000
United Inspection & Testing Laboratories, Limited	Toronto	40,000
United Auto Sales, Limited	Toronto	100,000
V		
Timited		FO 000
Veteran Mechanical Farming Company, Limited	Toronto	50,000 100,000
Victory Gold Mines, Limited	Toronto	1,000,000
Victoria Rural Telephone Company, Limited	Walford Station.	4,000
W		
	T.T. *14.	40.000
Walsh's Garage, Limited	Hamilton	40,000 $40,000$
Walkerville Brick and Tile Company, Limited, The Wentworth Manufacturing Company, Limited	Warkervine	300,000
Windsor Mausoleum Company, Limited	Windsor	10,000
Walker-Vallance, Limited	Hamilton	40,000
West Toronto Iron and Metal Company, Limited	Toronto	10,000
Walker and Son, Limited, W	Toronto	75,000
West Lake Telephone Company, Limited	Sudbury	910
White and Sons. Limited. L	Toronto	40,000
Western Securities Corporation, Limited	Toronto	20,000
Workmen's Book & Publishing Company, Limited, The	Toronto	40,000
Western Ontario Oil Company, Limited (No personal liability)	Toronto	1,000,000
Wright and Cakley, Limited	Toronto	40,000
Y		
York Farms, Limited	Toronto	40,000
York Chemical Works, Limited		40,000
101k Chemical Works, illusted	Toronto	20,000
York Manufacturing Company, Limited		

List of Corporations Licensed to do Business in Ontario.

Name of Corporation.	Where Incorporated.	Attorney.
A		
Armstrong Forest Company Alberta Pure Bred Holstein Development Company, Limited, The Amerlin Company	Alberta	Charles B. Nasmith.
В		
Bird & Son Buckeye Traction Ditcher Company, The Bearings Service Company Brighton and Sussex Mutual Syndicate Limited Balfour and Company, Limited, Arthur	Ohio Delaware Gt. Britain & Ireland	John Joseph Wallace. W. R. P. Parker. Albert Ogden.
C		
Can Conservers of Canada, Limited Chamberlain Company, The Commercial Acetylene Supply Company Caulk Company, The L. D Canadian National Carbon Company, Ltd Crawley and McCracken Company Crane, Limited Canners Seeds, Limited	Pennsylvania New Jersey Delaware Dominion Illinois Dominion	Thomas A. Gibson. William H. Wood. J. Doan Musselman. Leighton McCarthy. George J. Valin. George Aaron Vowell.
${f F}$		
Fox Film Corporation, Limited	Dominion	Benjamin P. Rogers. George E. Buchanan.
G		
Gordon Ironside & Fares Packers, Ltd	Dominion	James Harris.
I		
Internation Business Machines Company Limited	Dominion	Frank E. Mutton.
L		
Lister and Company (Canada), Limited R. A	Dominion	Walter J. Ellis.
M		
Montour Coal and Coke Company, Inc Miner Shoe Company, Limited, The	New York Dominion	John Percy Milnes. Gordon C. Yearsley.
N		
National Shipbuilding Company, Limited Nyando Pulp and Paper Corporation	Dominion Delaware	Wm. R. Wadsworth. Wm. Arthur Dowler.
o		
Ontario Petroleum Company	South Dakota Gt. Britain & Ire'and	John H. McLeod. Alex. Mossman.

List of Corporations Licensed to do Business in ${\bf Ontario.} \hbox{--} {\it Continued.}$

Name of Corporation.	Where Incorporated.	Attorney.
P		
Panex Corporation		
R		
Robbins Mining Company, The A. A Rainy Lake River Boom Cor, oration		
S		,
Sunset Soap Dye Company	Gt. Britain & Ireland.	Harold F. Ritchie. Edward A. Parkes.
The	Dominion	Peter L. Fraser.
W		
White Shoe Company, Limited	Dominion	Hugh White.

List of Corporations to whom Supplementary Licenses Were Issued.

Name.	Date.
A	
Abbott Laboratories, Limited (changing name) Austin Company, The (changing name)	Aug. 21; 1918. June 11, 1918.
В	-
Barrett Company, Limited, The (changing name and increasing capital)	April 22, 1918.
C	
Childs Company (authorizing the Corporation to use in Ontario capital to the xtent of \$100,000)	June 18, 1918.
D	
DeLaval Company, The	April 9, 1918.
L	
Lake Superior Paper Company, Limited (increasing the capital)	April 6, 1918.
M	
Mosher & Crawley Company (changing name)	June 11, 1918.
0	
Oneida Community, Limited (further increasing capital)	April 2, 1918.
P	
Pratt & Lambert, Inc. (increasing capital)	April 12, 1918.
S	
Saskatchewan Co-operative Elevator Company, The	Feb. 14, 1918.

List of Corporations to whom Licenses in Mortmain were Issued.

Name of Corporation.	Date
Fort Dearborn Trust and Savings Bank	June 11, 1918. October 10, 1918.

List of Companies whose Capital was Increased.

Name of Company.	From	То	Date
A			
Adanac Silver Mines, Limited (no personal liability)	2,500,000	3,000,000	Feb. 14, 1918.
B.			
Benjamin Moore & Company, Limited: Beaver Abitibi Lumber Company, Limited. The	160,000 300,000	$\substack{250,000 \\ 1,000,000}$	Dec. 14,1917. Feb. 27,1918.
С			
Corbet Foundry & Machine Company, Limited, The Canadian Buffalo Sled Company, Limited, The Canada Cycle & Motor Company, Limited Credit River Works, Limited Channell Chemical Company, Limited	40,000 40,000 50,000 150,000 75,000	$\begin{array}{c} 100,000 \\ 2,000,000 \\ 200,000 \end{array}$	May 10,1918. May 27, 1918. Jan. 7, 1918. Dec. 5, 1917. Nov. 12, 1917.
D			
Drebner, Limited, D. A	$\begin{array}{c} 40,000 \\ 250,000 \\ 100,000 \end{array}$	500,000	Feb. 14, 1918. Mar. 7, 1918. Sept. 18,1918.
E			
Edwards & Wright, Limited	100,000 500,000		June 23, 1918. Sept. 26, 1918.
н			
Hygenic Containers, Limited	100,000 100,000		July 5, 1918. Feb. 4, 1918.
ī			
Inksetter-Meyers, Limited	$\frac{100,000}{250,000}$		July 10, 1918. Jan. 11, 1918.
К			
Kingan Hardware Company, Limited, The	20,000	40,000	April 8, 1918.
M			
Manitoulin Island Rural Telephone Company Ltd	7,000 100,000	,	Dec. 18, 1917. June 15, 1918.
N			
Northwestern Elevator Company, Limited	250,000	1,000.000	Sept. 30, 1918.
O			
Ore Chimney Mining Company, Limited, The (No personal liability)	600,000	1,200,000	Mar. 21, 1918.

 $List\ of\ Companies\ whose\ Capital\ was\ Increased. --Concluded.$

Name of Company.	From	То	Date
P			
Pratt Company Limited, The T. H	40,000	100,000	April 12, 1918.
R			
Rogers, Limited, Wm. A	2,400,000 100,000		Jan. 30, 1918. June 24, 1918.
s			
Sparta Rural Telephone Company, Limited, The Standard Woollen Mills Company of Toronto,	4,500 100,000		April 23, 1918 Feb. 8, 1918.
Limited, The	100,000 60,000 50,000	200,000	June 18, 1918. Oct. 2, 1918. March 8, 1918
w			
Wolverton Milling Company, Limited, The Windsor Jockey Club, Limited	40,000 200,000		July 20, 1918. Sept. 24, 1918.
Windsor Asbestos Company, Limited (No personal liability)	500,000	600,000	April 11, 1918
U			
Union Lumber Company, Limited	50,000	500,000	Dec. 5, 1917.

List of Companies whose Capital was Decreased.

Name of Company.	From	То	Date
. В			
Buffalo Mines, Limited, The (No personal liability)	750,000	500,000	Aug. 12, 1918.
L			
LaRose Mines, Limited (No personal liability)	6,000,000	1,500,000	Nov. 12, 1917.
P			
Prince Arthur Land & Development Company, Limited	300,000	100,000	Jan. 7, 1918.

List of Corporations whose Names were Changed.

From	То	Date
Α.		
Abitibi Lumber Company, Limited B.	Beaver Abitibi Lumber Company, Limited, The	
Berlin Table Manufacturing Company, Limited, The	Beaver Furniture Company, Limited, The	Aug. 1, 1918. June 25, 1918. Nov 13, 1917.
Coulter's, Limited	B. L. Anderson, Limited Dowswell, Lees & Company, Limited The Great War Veterans' Associa-	Nov. 22, 1917. Dec. 1, 1917.
Canadian Hoskins, Limited D	tion of Canada (Ottawa Branch) Hiram Walker & Sons, Metal Products, Limited	
Doyle-Dennert Tractor Company,	The Daughters of Scotland Essex Tractor Company, Limited .	
E	3	
Emendy's, Limited	Middleman's, Limited	Sept. 24, 1918.
F		
Faircloth Company, Limited, The.	Faircloth & Winfield, Limited	Mar. 16, 1918.
G		
Greig-Morris & Blair, Limited George E. B. Grinyer Company,	The Quality Printers, Limited Greig-Morris & Company, Limited. The Grinyer Company, Limited	Sept. 7, 1918.
Н		•
Hall Motors, Limited	Auto Motors, Limited	Mar. 9, 1918.
I	1	
I. X. L. Laundry Company, Limited	The Sunlight Laundry Company Limited	Nov. 14, 1917.
Kirkland Securities Corporation,	Woodturning Products, Limited	

List of Corporations whose Names were Changed.—Continued.

From.	То	Date
L		
Laura Secord Candy Shops, Limited Lang Brothers & Company, Limited	Laura Secord Confections, Limited Lang, Treacy Company, Limited	Mar. 7, 1918. April 11, 1918.
M		
	Mono Mills Telephone Company, Limited	Jan. 1918.
Marsh & Henthorn, Limited	Marsh Engineering Works, Limited	Feb. 21, 1918.
N		
Niagara Grain & Feed Company, Limited		Jan 28, 1918.
Northern Riding and Driving Association, Limited		
O		
Ontario Storage & Cartage, Limited	The Howell Warehouses, Limited	Oct. 23, 1917.
P		
C. L. Perkins, Limited	McMullen-Armstrong, Limited	Aug. 9, 1918.
R		
Railway Marine & General Hospital of Port Arthur, The	The General Hospital of Port	77.1 40 4040
Routley & Summers, Limited	Arthur	
S	ited	April 30, 1918.
Saxon Sales Company, Limited	Canada Motor Car Company, Limited	Mar. 22, 1918.
w		
	Women's Patriotic League of Niagara Falls, The	Sept. 21, 1918.
Wormwith Piano Company, Limited, The	Weber Piano Company, Kingston, Limited	,

List of Corporations whose Powers were Extended.

Name.	Date.
A	
Austin Company, The (authorizing the Corporation to use, exercise and enjoy within the Province of Ontario, all the powers, privileges and rights set forth in the license issued to the Corporation under its original name	June 12, 1918.
I	
Irish & Maulson, Limited (confirming by-law converting preference shares not subject to redemption into preference shares subject to redemption	
К	
Kerr Lake Mines, Limited (relieving the Company from the provisions or sub-sections 1 and 2 of section 119 of The Ontario Companies Act)	Jan. 2, 1918.
М	
McGinley-Teck Gold Mines, Limited	July 18, 1918.
N	
Nickel Lake Mining Company, Limited (authorizing the Company to hold meetings of its shareholders, directors or executive committes, if any, outside of the Province of Ontario)	March 14, 1918.
P	
Peabody's Company, Limited, The (extending the powers of the Company)	Nov. 22, 1917.
R	
Rogers, Limited, Wm. A. (increasing the preference shares)	Jan. 30, 1918.
v	
Victor Saw Works, Limited (relieving the Company from the provisions of sub-sections 1 and 2 of section 119 of The Ontario Companies Act)	Nov. 6, 1917.
· W	•
Walker and Sons Metal Products, Limited, Hiram (extending the powers of the Company)	

List of Corporations without Share Capital.

List of Corporations without Share Capital.		
Name of Corporation.	Place.	
Ashbury College Agudath Israel Anshae Sfard Congregation Aurora Overseas Auxiliary Alumnae Association of the Lady Stanley Institute for Trained Nurses Amity Patriotic Club of Kingsville Amherstburg Farmers' Co-operative Association, The	Kingsville.	
В.		
53rd Battery Auxiliary B. C. Club 3rd Battalion, Toronto Regiment, Women's Auxiliary Beamsville Farmers' Co-operative Club Burford Co-operative Milk Producers 116th Battalion Club, The	Toronto. Toronto. Toronto. Beamsville. Burford. Uxbridge.	
C		
Carmelite Sisters of Canada Canadian Aviation Aid Club Catholic Women's Guild of Hamilton Chinese Reform Party Canadian Farmers' Co-operative Association, The Canadian Convalescent Home for Officers in France, The Cooksville District Patriotic League Canadian Academy of Music Canadian Collegiate Movement, The Chatsworth War Workers' Association, The Club Dalhousie Incorpore Canadian Post Masters Association Congregation Agudis Achim Anshe Sfard, Hamilton Century Social Club	Newburg. Toronto. Cooksville. Toronto. Toronto. Chatsworth. Ottawa. Ottawa. Hamilton.	
D.		
Delta Phi Dundas Women's Patriotic League, The D'Arcy Athletic Club Dunnville Women's Patriotic Society	Dundas. Toronto.	
E.		
Eden Mills Town Hall Association Edith Cavell Womens' Club Enterprise Farmers' Co-operative Association, The Elora Junior Patriotic League, The Earlscourt Women Workers Edith Cavell Society of Port Perry East Hamilton Spiritual Church	Toronto. Enterprise. Elora. Toronto. Port Perry.	
F.		
Federation of Jewish Philanthropies of Toronto, The Franco British Aid Society, The Friends of France. The Federation of Catholic Societies Fort William Womens' Patriotic Society, The Fort William Teachers' Patriotic Association Fergus Women's Patriotic League, The Fenelon Falls Women's Patriotic League Fort Frances Finnish Social Society, Local No. 47	Toronto. Fort William. Fort William. Fergus. Fenelon Falls.	

$List\ of\ Corporations\ without\ Share\ Capital. -- Continued.$

Name of Corporation.	Place.
G.	
Gananoque War Workers' League, The Girls' Patriotic League of Owen Sound Granite Club Gore Bay War Auxiliary Garden Craft Club	Toronto. Gore Bay.
H.	
Hamilton Branch of the British Navy League Home Advisory Association of the 75th Overseas Battalion, The Haileybury Service League High Park Overseas Club, The Havelock Trench Club Hibernian Club of Ottawa, The Home Bureau Nursing Association	Toronto. Haileybury. Toronto. Havelock. Ottawa.
I.	
Ioco Good Cheer Club, The	Toronto.
J.	
Jewish War Sufferers' Association of London Jarvis Collegiate Institute Patriotic Association, The Jura Guild	London. Toronto. Thedford.
K.	
King Street Improvement Association, The	Toronto. Brantford.
L.	
Ladies' Auxiliary of the 109th Regiment, The Ladies' Khaki Club of Petrolia Ladies' Patriotic Auxiliary of Berkeley Ladies' Auxiliary of the 74th Battalion, C.E.F., The Lansdowne Service League Le Club Des Amis Du Poilu Ladies' Khaki Aid Club of Strangfield Longueuil Farmers' Co-operative Association, The Lyn Patriotic League Lambeth Farmers' Co-operative Association	Petrolia. Berkeley. Toronto. Lansdowne. Toronto. Strangfield. Longueuil. Lyn.
М.	
May Court Club of Ottawa, The Manitoulin Women's Patriotic League, The Millbrook War Relief Society, The Maple Leaf Co-operative Association, The	Millbrook.
N	
Norfolk Co-operative Association North Augusta Patriotic League, The Newmarket Field and Soldiers' Comforts Society North Bay Women's Patriotic Society, The Nurses' Alumnae Association of the Ottawa General Hospital, The	Simcoe. North Augusta. Newmarket. North Bay. Cttawa.

${\bf List\ of\ Corporations\ without\ Share\ Capital.} -Continued.$

List of Corporations without Snare Capital.—Continue	
Name of Corporation.	Place.
O Optimist Club	Odessa. Ottawa. Oshawa. Oshawa. Oakville. Owen Sound. Toronto. Toronto.
P.	
Port Credit Patriotic League, The Prince Edward County Hospital, The Patriotic Sunshine Circle of Berkeley Protestant General Hospital Association of the Town of Prescott Parkdale Soldiers' Comforts Society Peterborough Progressive Club The Patriotic League of Florence, The Palestine Restoration Fund Association Paris Maple Leaf Patriotic Club, The	Picton. Berkeley. Prescott. Toronto. Peterborough. Florence. Brantford.
Q.	
Queen Mary's Needlework Guild in Ontario	Toronto.
R. Rosseau War Workers Richmond Farmers' Co-operative Association Robindale Farmers' Co-operative Association Rocklyn Farmers' Club Retail Stationers' and Newsdealers' Association of Toronto Roish Pina Congregation Richmond Hill Lawn Bowling Club	Napanee. Richmond. Rocklyn. Toronto. Toronto.
S.	
Sixth Line Moore Patriotic Society Sir Douglas Haig Auxiliary Secours National of St. Catharines Secours National of Toronto Sutton West Girls' Patriotic League, The Sault Ste. Marie Finnish Social Society. Local Number 12 Soldiers' Welfare Association of Kingsville and Gosfield Silver Maple Leaf Society Sarnia War Chest Fund, The Soldiers' Relatives' League for Women, The St. George and District Patriotic War Relief Fund Sydenham Farmers' Co-operative Association Soldiers' Comforts Committee of St. Catharines Sioux Lookout Fnnish Social Society, Local Number 97 Somme Club of Kingston, The Starkville Co-operative Threshing Fund, The	Toronto. St. Catharines. Toronto. Sutton. Sauit Ste. Marie Kingsville. Wiarton. Sarnia. Amabel. St. George. Sydenham. St. Catharines. Sioux Lookout. Kingston.
T.	1
The 220th Battalion Women's Auxiliary Tipperary Club of Brockville The 198th Battalion, Women's Auxiliary Toronto Conference for the Relief of Jewish War Sufferers, Incorporated Toronto Male Chorus, The	Brockville. Toronto. Toronto.

List of Corporations without Share Capital.—Concluded.

Name of Corporation.	Place.
The 86th Machine Gun Battalion, C.E.F., Women's Auxiliary The 75th Overseas Battalion Women's Club The 166th (Q.O.R.), Overseas Battalion, Women's Auxiliary Toronto Gun Club and Game Protective Association Trinity Penticostal Assembly of Toronto The 204th Battalion Women's Auxiliary The 159th Battalion Ladies' Auxiliary The 159th City of Hamilton Battalion, C.E.F., Women's Auxiliary Toronto Gun Club Third Battalion, Toronto Regiment, Veterans' Association Toronto Women' Liberal Association, The Thursday Club, The Toronto Insurance Conference, The Toronto Board of Education War Charities, The Trustees of Oaklawn Cemetery Thamesville Returned Soldiers' Comfort Society	Toronto. Toronto. Toronto. Toronto. Toronto. North Bay. Hamilton. Toronto. Toronto. Toronto. Toronto. Toronto. Toronto. Toronto. Toronto.
v.	
Union Jack Club of Shelburne, The	Shelburne.
W,	
Wilton Farmers' Co-operative Association War Relief Club of Copper Cliff, The War Auxiliary School Section 27, Todmorden Women's Conservative Club and Association, The Women's Patriotic League, The Women's Patriotic and Red Cross League of Niagara Falls Women's Patriotic League of Brockville Women's Patriotic League of Petrolia Woodstock 5.000 Club West End Khaki Club, The Women's Patriotic League of Swansea Women's Patriotic League of Cannington Wiarton Patriotic League Whitby War Relief Society Women's Patriotic Association of Port Perry Walkerton Soldiers' Coverseas Auxiliary Women's Patriotic League of Norwich, The Women's Patriotic League of Listowel, The Women's Patriotic League of Listowel, The Women's Patriotic League of Waterford, The	Copper Cliff. Todmorden. Toronto. Toronto. Toronto. Niagara Falls. Brockville. Petrolia. Woodstock. Toronto. Swansea. Cannington. Wiarton. Whitby. Port Perry. Walkerton. Norwich. Listowel.

List of Corporations whose Charters were Surrendered.

Name.	Date.
Α.	
Adams Coal Company, Limited	Nov. 27, 1917.
В.	
Bluevale Cheese & Butter Factory, The Beechwood Park Realty Company, Limited Blenheim & South Kent Telephone Company, Limited Byrnes Manufacturing Company, Limited Bothwell Garage and Sales Company, Limited	Jan. 14, 1918. Jan. 17, 1918. Mar. 6, 1918.
C.	
Chatham Bridge Company, Limited, The Crown Gypsum Company, The Canada Saddlery Hardware and Steel Goods, Limited Cinderella Shoe Company, Limited, The Consolidated Hardware Manufacturing Company, Limited Cutler Bay Company, Limited Canadian Meter Company, Limited, The Collingwood Shipbuilding Company, Limited Clayton Meat Company, Limited	Aug. 28, 1918. Dec. 10, 1917. Jan. 24, 1918. Jan. 24, 1918. Feb. 5, 1918. Mar. 1, 1918. Mar. 6, 1918.
F.	
Forsythe Laundry Company, Limited	Feb. 20, 1918.
G.	
Guelph Oiled Clothing Company, Limited, The Galt Building Products, Limited	
H.	t
Home Natural Gas Company, Limited Holmes Gas Company, Limited, Thè Holden-Morgan Company, Limited	Oct. 7, 1918.
K.	
Kingston Shipbuilding Company, Limited	Feb. 21, 1918.
М.	
Midland Dry Dock Company, Limited	Aug. 31, 1918.
N.	
New York and Ontario Oil and Gas Company, Limited	June 6, 1918.
P	
Pure Milk Company, Limited, The	April 17, 1918. May 17, 1918.
R.	
Rolla L. Crain Company, Limited, The	Mar. 25, 1918.

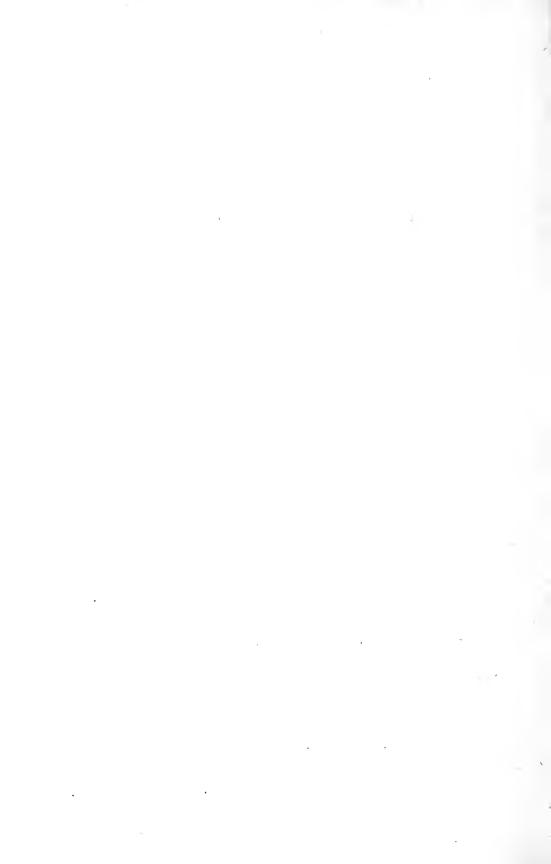
List of Corporations whose Charters were Surrendered.—Concluded.

Name.	Date.
S.	
Stonehouse, McDougall, Moore, Limited Standard Natural Gas Company, Limited Selby and Youlden, Limited Sterling Gum Company of Canada, The St. Clair Land Company of Hamilton, Limited Seely Manufacturing Company, Limited	May 1, 1918. Mar. 6, 1918. Nov. 28, 1917. Dec. 3, 1917.
W.	
White Sewing Machine Company of Canada, Limited Wire-Woven-Wood Manufacturing Company, Limited	

Proclamations Gazetted.

1918.

Name.	Date.
Re 4th Anniversary of the declaration of war	
and the Civic Employees of the said City	July 13, 1918.
of the Empire	June 18 1918
Re National Day of Prayer	Jan. 7, 1918.
Re Natural Gas Act, 1918	Fah 6 1019
we week of Dedication and Preparation for the period of production	•
approaching, beginning on the 24th March	Mar. 7, 1918.



REPORT

RELATING TO THE REGISTRATION OF

Births, Marriages and Deaths

IN THE

PROVINCE OF ONTARIO

FOR THE

Year Ending 31st December,

1918

(Being the 49th Annual Report)

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO



TORONTO:

Printed by THE RYERSON PRESS

To His Honour the Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

I herewith beg to present for your consideration the Forty-Ninth Annual Report of the Registrar-General, relating to the Registration of Births, Marriages and Deaths in the Province of Ontario, during the year 1918.

Respectfully submitted.

WM. DAVID McPHERSON,

Registrar-General of Ontario.

SIR:

I have the honour to submit for your approval the Forty-Ninth Annual Report made in conformity with and under the provisions of the Act respecting the Registration of Births. Marriages and Deaths in the Province of Ontario, for the year ending December 31st, 1918.

I have the honour to be, Sir,

Your obedient servant,

Johnes motbellough

Deputy Registrar-General.

To Hon. WM. DAVID McPherson,

Registrar-General of Ontario.

REPORT UPON

Births, Marriages and Deaths FOR THE YEAR 1918

The Forty-ninth Annual Report of Vital Statistics for the Province of Ontario is herewith presented.

POPULATION.

The estimated population of Ontario for the year 1918 is 2,798,970, divided as follows:—Cities, 1,080,430 or 38.7 per cent.; towns, 149,020 or 5.3 per cent., and rural municipalities, 1,569,520 or 56 per cent. This is an estimated increase in the population for the year, of 29,120 or 1.04 per cent. It will be noted that the percentage of the population in the towns is smaller this year than in the previous year. The number of births, marriages and deaths in towns, as well as the ratios per one thousand of population, are smaller than in the previous year. This is due to the fact that the list of towns is smaller, for the reason that several of the larger ones have become cities, and two, at least, have been eliminated because the population did not reach 5,000. Welland, for example, has become a city, and Steelton has been absorbed by Sault Ste. Marie.

BIRTHS.

The following table shows the number of birth registrations for 1917 and 1918 and allows of a comparison between the two:

	1918	Ratio	1917	Ratio
Entire Province	64,729	26.6	62,666	22.6
Cities	26,903	24.9	26,029	25.2
Towns	4,367	29.3	4,866	28.8
Rural Municipalities	33,459	21.3	31,771	20.2

The natural increase, i.e., of births over deaths, was 21,691, which was 7,691 less than the natural increase in the preceding year.

The number of births increased by 2,063, which is 3.3 per cent. of an increase over the number registered during the year 1917. There was an increase in the ratio of births per 1,000 of population, of 4.0 per cent.; the ratio for the year being 26.6. This is an increase of 2.7 per 1,000 of population over the mean rate for the decade.

The relation of male births to female births is shown in the following table:-

	\mathbf{Male}	Female	\mathbf{M}	to	\mathbf{F}
Entire Province	33,486	31,243	107	to	100
Cities	13,883	13,020	106	to	100
Towns	2,222	2,145	103	to	100
Rural Municipalities	17,381	16,078	108	to	100

Of births registered 33,486 were males and 31,243 were females; being an increase of 1,104 males and 959 females over the number of the previous year.

ILLEGITIMATE BIRTHS.

The number of illegitimate births registered was 1,363, being 139 more than during the preceding year. This gives a rate of 18.2 per 1,000 births registered, which is 1.3 less than for the preceding year.

The rate is shown as follows:—

4

Entire Province	1,363,	being	18.2	per	1,000	living	births
Cities	976	4.4	36.3	"	1,000	**	"
Towns	58	4.6	13.3	"	1,000	4.4	4.6
Rural Municipalities	329	44	9.8	4.6	1,000	**	**

The ratio of illegitimacy to total births for the last five years has been as follows: 1914, 22.1; 1915, 21.9: 1916, 20.9; 1917, 19.5; 1918, 18.2.

MULTIPLE BIRTHS.

The number of pairs of twins registered in 1918 was 676, comprising 658 boys and 694 girls. There were 9 cases of triplets, comprising 13 boys and 14 girls.

MARRIAGES.

The number of marriages registered in 1918 was 19,525, being at the rate of 6.9 marriages, or 13.8 persons married, per 1,000 of population. This was a decrease of 1,974 marriages and a decrease of .8 of the rate.

The distribution of the marriages is as follows: In the cities, 10,483 or 53.7 per cent. of the total; in the towns, 1,363 or 6.9 per cent., and in the rural municipalities, 7,679 or 39.3 per cent. The rates were as follows: Cities, 9.7; towns, 8.8; rural municipalities, 4.8 per 1,000 of population, and for the whole province 6.9, which is 2.3 below the mean rate for the ten preceding years.

CONJUGAL RELATIONS.

The following table shows the conjugal relations and how intermarriage took place:—

	Bache	elors a	and	Wid	lowers	and	Divor	Total		
	Spinsters	Widows	Divorced Women	Spinsters	Widows	Divorced Women	Spinsters	Widows	Divorced Women	Marriages
Province	17,622 9,329 1,251 7,042	334 231 22 81	15 12 1 2	802 464 40 298	721 423 46 252		18 15 1 2	5 2 2 1	4	19,525 10,483 1,363 7,679

Marriages by license, 17,344 or 88.84 per cent.; by banns. 2.181 or 11.16 per cent.

DEATHS.

The following table shows the number of deaths registered during the year and allows of a comparison with the registrations of the preceding year:—

	1913	Ratio	1917	Ratio
Entire Province	43,038	15.3	33,284	12.0
Cities	18,771	17.3	13,535	13.1
Towns	3,241	21.7	2,493	14.7
Rural Municipalities	21,026	13.4	17,256	10.9

It will be noted that there is a large increase in the number of deaths: the increase being 9,754 or 12.9 per cent. over the number of deaths for 1917. The ratio of deaths per 1,000 of the estimated population is the highest in the history of the Province and is due to the fact that Ontario did not escape the ravages of the dreadful epidemic of Influenza which struck the world.

The cities collectively gave a rate per 1,000 of estimated population, of 17.3, which is 4.2 of an increase over that of the preceding year, while the towns collectively gave a rate of 21.7, being an increase of 7.0 over the preceding year, and this notwithstanding the fact already pointed out in another paragraph, that the towns are fewer in number than they were in 1917. It will be noted that there is a large increase in the number of deaths: the

INFLUENZA.

The number of deaths registered from influenza and Spanish influenza are compiled under "Influenza"; being cause No. 10 in the Bertillon System. The total number of deaths from this disease was 7,337; being at the rate of 2.61 per 1,000 of estimated population. It is impossible to make a comparison with any previous year in this particular disease, for the simple reason that nothing of the kind ever happened before in the history of the Province. This number, 7.337, does not actually include the total deaths from this plague, as it is impossible speak of the deaths from influenza without taking into consideration the number. of deaths from pneumonia.

The number of deaths from pneumonia was 4,660. The mean deaths from pneumonia for ten years, excluding the year 1918, number 2,015, so that it would be unfair to make a comparison between the number for 1918 and any previous year. This is the reason of the statement to the effect that deaths from influenza cannot, in themselves, be considered without the deaths from pneumonia. Let it

cannot, in themselves, be considered without the deaths from pneumonia. Let it be assumed, then, that half of the total deaths from pneumonia (4,660) are due to influenza, and let this half (2,330) be added to the total deaths from influenza. This makes the influenza deaths total 9,667, which is a ratio of 3.45 per 1,000 of estimated population and is 22.4 per cent. of all deaths registered.

Taking influenza by itself (7,337 deaths), this is 17.0 per cent. of the total deaths registered. Of these deaths, 47.1 per cent. occurred in the cities; 10.5 per cent. in the towns, and 42.4 per cent. in the rural municipalities. The cities suffered 47.1 per cent. of the deaths from influenza, whereas they contain collectively but 38.7 per cent. of the total population. While the rural municipalities contain 56 per cent. of the population, they suffered but 42.4 per cent. of the deaths from influenza. This is but a natural result of herding together, as is the situation in every city. The last three months of the year had the greatest mortality. The following table contains the compilation of the deaths from influenza and pneumonia during that period: during that period:-

DEATHS FROM INFLUENZA AND PNEUMONIA, OCTOBER 1ST TO DECEMBER 31ST, 1918.

	Influenza and Pneumonia	Influenza	Pneumonia	Total	
Entire Province	5,999	1,824	2,500	10,323	
Cities	2,903	612	1,274	4,789	
Towns	628	181	198	1,007	
Rural Municipalities	2,468	1,031	1.028	4,527	

DEATHS FROM PNEUMONIA.

As already stated, it is not fair to make a comparison between the deaths from this disease during the previous year and those which occurred during 1918, as the latter do not represent what might be considered a more or less normal death rate. It is unfortunate that we have to consider a high "normal death rate," but it cannot be denied that pneumonia has steadily increased during the last decade. If percentage is desired, there were 1,897 more deaths than in the previous year, and a rate per 100,000 of population, of 166.5. The highest previous rate was 105.6, in 1916, although that year did not contain the highest number of deaths.

The following table shows the deaths from pneumonia for the decade, together with the rate per 100,000 of population:—

	Number	\mathbf{Rate}
1909	1,504	67.3
1910	1,558	66.5
1911	1,568	66.0
1912	1,629	63.0
1913	2,076	77.4
1914	2,009	73.0
1915	2,352	84.9
1916	2,912	105.6
1917	2,763	99.7
1918	4,660	166.5

CANCER.

The number of deaths from cancer recorded during the year was 2,103, which gives a rate of 75 deaths per 100,000 of population. This is 93 fewer deaths than in the previous year, and a decrease in the rate of 4.3. The disease still continues undiminished and is carrying off altogether too many residents of our Province. The question of cancer is, however, receiving the attention of medical men and laboratory experts, and it is hoped that some method will be evolved to check the ravages of this distressing disease.

TUBERCULOSIS.

The number of deaths from tuberculosis was 2,519, which was a rate of 90 per 100,000 of population, being an increase of 2 over that of the preceding year.

The following is an analysis of rates in city, town and rural municipalities:

	Deaths	Per cent. of deaths	Ratio per 100 M
		from tuberculosis	of population
Entire Province	2,519	100	90
Cities	934	37.8	86
Towns	174	5.8	116
Rural Municipalities	1,451	56.4	92

DEATHS IN ONTARIO FROM TUBERCULOSIS BY AGES, 1909-1918.

Year.	Total.	per 100,000	U 0-1	nder	· 5 y	rear 3	s.	5-9	0-14	5-19	-29	30-39	40–49	50-59	69-09	70-79	& over.	Not stated.	Total deaths from all causes.
×		tio p	İ						Ξ	=	22	ಣ	4	20	9	7	80	Z	Ţ
	23,913	Ratio	543	359	239	139	146	465	605	1,897	6,608	4,942	3,106	2,207	1,522	684	139	312	338.105
		_		_												—		-	
1909	-,000			27	25					179		487	290	222	163	66		40	30,792
1910	2,291	102			19	15		36				463	293	222	160	71	18	24	31,332
1911	2,353				15			48	64	181	618	476	325	218	156	85		34	31.878
1912	2,250	87			19	9	15	46	42	154	631	500	304	200	134	64	7	42	32,150
1913	2,295			36	20	10	18	32	41	188	632	479	313	204	156	56	10	47	34,317
1914	2,340	85			20	16	11	56	58	181	688	469	307	214	116	63	12	34	32,440
1915	2,466	89	79	39	25	19	16	55	74	168	676	516	273	242	176	73	15	20	33,294
1916	2,559	92	66	43	35	19	9	53	61	224	683	536	327	238	156	68	17	$\overline{24}$	35,580
1917	2,460	88	51	43	26	19	11	45	70	196	664	490	351	240	144	72	18	20	33, 284
1918	2,519	89	39	35	35	13	27	40	86	242	677	526	323	207	161	66	15	27	43,038
	-													_					13,390

TOTAL NUMBER OF DEATHS FROM TUBERCULOSIS IN EACH COUNTY IN ONTARIO FOR TEN YEARS, 1909-1918.

Assertation of the Control of the Co	Totals	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918
Totals	23,912	2,380	2,291	2,353	2,250	2,294	2,340	2,466	2,559	2,460	2,519
Algoma	354	27	34	33	33	39	28	34	41	39	46
Brant	377	32	26	28	38	32	35	36	40	68	42
Bruce	$\frac{448}{1.593}$	43 161	64 127	$\frac{47}{163}$	36	48	34	42	48	50	36
Carleton Dufferin	89	151	10	105	143 9	178	162 7	168	161	151 12	179 5
Elgin	282	28	18	26	26	28	41	33	34	24	24
Essex	595	63	62	60	61	54	60	52	44	73	66
Frontenac	619	43	58	63	56	58	52	68	72	71	78
Grey	400	55	58,	32	43	52	31	41	30	31	27
Haldimand	145	14	13	18	15	13	21	18	13	14	6
Haliburton	40	4 13	17	3	5	2	13	3	6	4	6
Halton	132 474	56	17 56	17 51	16 53	$\frac{6}{30}$	15 45	17 48	12 45	8 47	11 43
Huron	355	44	44	44	41	27	31	31	23	32	38
Kenora	102	13	6	16	7	15	12	7	8	3	15
Kent	515	53	52	51	51	52	48	53	63	41	51
Lambton	428	55	43	41	30	40	32	45	56	47	39
Lanark	312	46	37	30	27	30	33	21	30	26	32
Leeds and Grenville	736	86	77	82	96	69	59	73	59	60	75
Lennoxand Adding-	146	24	17	18	11	16	13	12	8	15	12
ton Lincoln	357	30	42	29	28	36.	36	43	39	15 33	41
Manitoulin	96	2	2	3	7	4	4	28	10	17	19
Middlesex	987	88	85	99	95	96	102	95	108	115	104
Muskoka	474	41	34	44	47	43	32	46	60	69	58
Nipissing	253	25	24	35	42	20	15	33	32	15	12
Norfolk	188	31_{i}	15	17	14	20	12	25	16	13	25
Northumberland	116	48	49	15	1.1	= 1	33	51	5.1	21	42
and Durham Ontario	$\frac{446}{315}$	23	49	45 42	44 23	51 33	24	51 31	51 40	31 35	43 24
Oxford	321	37	38	43	36	32	30	21	38	27	19
Parry Sound	150	18	6	14	12	17	14	19	11	14	25
Peel	147	21	14	21	14	16	12	16	8	11	14
Perth	316	41	28	35	35	25	30	23	49	33	17
Peterboro'	370	47	39	37	36	51	36	32	33	33	26
Prescottand Russell	554	45	34	42	51	46	60	54	72	65	85
Prince Edward	146	17	14	11	13	$\frac{16}{4}$	$\frac{11}{10}$	20	16	10	18 9
Rainy River Renfrew	65 361	35	24	$\frac{6}{31}$	$\frac{7}{33}$	42	43	8 46	7 46	6 43	18
Simcoe	748	82	82	67	65	70	72	78	78	74	80
Stormont, Dundas	, 10	02	02	0.	00	.0			•0	• 1	00
and Glengarry	697	81	66	83	58	59	72	61	77	77	63
Sudbury	252	22	18	10	18	20	29	32	31	33	39
Thunder Bay	442	32	44	38	35	47	58	56	48	43	41
Timiskaming	132					12	21	24	22	21	32
Victoria	204	23 43	23	18	13	16	27	17	24	18 43	25 33
Waterloo	$\frac{418}{360}$	36	41 31	42 31	$\frac{46}{34}$	$\frac{40}{43}$	42 35	$\frac{45}{32}$	43 38	45	39
Wellington	380	41	40	50	39	$\frac{45}{32}$	44	41	24	37	32
Wentworth	1,279	128	127	107	112	118	129	112	132	149	165
York	5,312	464	504	520	496	492	545	567	604	538	582
									,		

INFANT MORTALITY.

The number of infants who died before completing the twelfth month of life was 6,402, which is a rate of 99 per 1,000 living births. This is an increase of 7 per 1,000 births over that of the previous year, which rate was 92 and was the lowest ever known in the Province. It is unfortunate that the rate has again increased, but some small measure of satisfaction may be taken from the fact that it is still considerably below that of any other year, with the exception of 1917. This rate means that out of every ten children born alive, one is doomed to a shroud before completing the twelfth month of life. The Various Public Health Nurses and Associations for Child Welfare are leaving no stone unturned to give the baby a chance to live, but more intensive effort is needed in what may be regarded as one of our most important public health activities.

Appended is a table giving the number of deaths and the rate of death per 1,000 living births for the decade for the Province, cities, towns and rural municipalities, excluding cities and towns:—

Deaths of infants under 1, and ratio per 1,000 living births, 1909-1918

	Prov	vince	Cit	ties	То	wns	Rural		
	Deaths under 1	Ratio per 1000 living births	Deaths under 1	Ratio per 1,000 living births	Deaths under 1	Ratio per 1,000living births	Deaths under 1	Ratio per 1,000living birtbs	
1909 1910 1911 1912 1913 1914 1915 1916 1917 1918	6,932 6,649 6,421 6,494 7,597 6,835 6,338 7,000 5,777 6,402	129.7 117.1 114.4 110.2 117.7 103.2 102.0 107.2 92.1 99.0	2,830 3,008 2,905 3,194 3,776 3,249 3,086 3,286 2,652 3,086	170.3 162.8 144.9 139.3 140.3 116.0 113.1 122.0 101.9 114.7	426 389 522 520 605 599 425 609 478 504	144.7 135.2 130.2 132.8 148.3 129.8 110.0 129.9 98.2 115.4	3,686 3,252 2,994 2,780 3,216 2,887 3,327 3,105 2,647 2,812	108.7 94.5 94.7 86.8 95.7 85.9 92.3 83.3 84.0	

GENERAL REMARKS.

The year 1918 will go down in history as Peace Year. The Great War came to an end on the eleventh day of November, and the people of the Province of Ontario rejoice and give thanks, as do all other peoples of the world.

During the early part of the year the Military Service Act became operative in Canada, which made it necessary for practically all men from sixteen or seventeen years of age and upwards to carry certificates of birth and, in some cases, certificates of margiage. Never before in the history of the Department has the demand been so great for documentary evidence relating to births and marriages on the part of the public. So great, indeed, was the demand that it became necessary to increase the staff by about three hundred per cent, and work twenty-four hours per day seven days per week, in eight-hour shifts. It is estimated that there were some 60,000 certificates issued during the year, and some 89,500 searches made, for which fees were received. During the same period some 7,000 searches were made and certificates issued free of charge to soldiers or their families. Such a huge amount of searching revealed the fact that in the earlier days registration of vital statistics was not nearly so well observed as it is at present. A large number of births and marriages was found not to be registered, and, in all cases where it was possible, the Department gave the privilege of registering, and in this way some 5,000 births were registered. A larger number would have been registered had the Department not been obliged to refuse many the privilege because there was no person available who was qualified to bring sufficient evidence to make the registration.

During the year the Dominion Bureau of Statistics at Ottawa expressed a desire to compile vital statistics for the whole of the Dominion. With this end in view an invitation was issued to all the officials of the various Provinces charged with the administration of the Acts relating to the registration of births, marriages and deaths, to attend a Conference at Ottawa. This Conference had two sittings. One of the objects of the meetings was to evolve from the various Vital Statistics Acts in operation throughout the Dominion, a new Act which would be acceptable and workable in each of the Provinces. This new Act has been printed and appears in the Statutes of Ontario, 1919, as Chapter 23; copies of which may be had upon application to the Department. Another object of the Conference was the standardization of forms, making the information required uniform in each Province. This, it is expected, will enable a comprehensive comparison of Canadian Vital Statistics.

There have been no radical changes in the new Vital Statistics Act. The responsibility of registration still rests with the parents, and notice of a birth by the physician must be given within forty-eight hours instead of "forthwith," the latter word being indefinite. In regard to the issuing of a medical certificate of death, the same must be done within twenty-four hours instead of "forthwith." It is expected that the rigid enforcement of the new Act will produce more perfect registration.

TABLE No. 1.

Showing the number of Births, Marriages and Deaths, and the ratio per 1,000 of population in each County (excluding Cities and Towns) 1918.

Counties.	Estimated Population.	Births, Excluding Still- Births.	Ratio per 1,000.	Marriages.	Ratio per 1,000.	Deaths, Excluding Still- Births.	Ratio per 1,000.
Total, including all municipalities	2,798,970	64.729	26.6	19,525	6.9	43,038	15 5
towns	1,569,520	33,459	21.3	7,679	4.8	21,026	13.4
Algoma Brant. Bruce Carleton. Dufferin. Elgin Essex Frontenac. Grey Haldimand Haliburton Hastings. Huron. Kenora Kent. Lambton Lanark Leeds and Grenville Lennox and Addington Lincoln Manitoulin Middlesex. Muskoka. Northumberland and Durham Ontario Oxford. Pearry Sound. Peel Perth. Peterborough Prescott and Russell. Prince Edward Rainy River Renfrew Simcoe Stormont, Dundas and Glengarry. Sudbury Thunder Bay Timiskaming Victoria Waterloo. Welland. Wellington. Wentworth York.	32,090 25,400 45,470 33,910 15,380 29,120 50,340 22,600 49,570 21,280 52,120 39,420 47,880 12,490 41,540 38,760 26,290 41,640 18,870 26,600 11,465 46,080 18,090 32,710 25,970 54,460 32,710 31,4590 31,850 31,950 31,950 33,950 37,950 92,240	499 492 492 490 1,294 443 920 448 154 410 930 903 262 1,011 724 497 715 388 439 283 822 446 644 587 623 382 670 437 1,702 283 385 670 437 1,011 1,048 647 1,048 648 649 1,048 649 1,048 647 1,048 647 1,048 647 1,048 648 1,04	15.5 19.3 19.6 23.5 19.0 16.8 25.7 19.5 21.0 29.1 18.5 22.9 17.1 20.5 18.6 17.8 24.6 17.8 24.6 19.2 19.2 19.7 18.5 23.5 18.8 24.6 19.2 19.2 19.2 19.3 23.5 18.6 23.5 19.6 24.6 24.6 25.7 19.6 25.7 19.6 25.7 19.6 26.7 27.7 28.7 29.8 20.9 20.0 20.0 20.0 20.0 20.0 20.0 20.0	126 123 221 150 86 144 311 93 267 128 32 103 257 296 16 251 192 161 235 116 141 52 205 97 113 128 304 165 165 107 93 182 74 285 94 285 94 262 232 250 80 14 212 113 218 144 185 131 329	3.8 4.8 4.4 5.9 1.1 5.0 6.0 6.0 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1	217 367 637 501 206 389 580 318 572 262 80 284 555 661 157 554 471 349 668 282 372 150 567 284 250 407 806 424 423 305 286 354 212 978 271 135 428 838 797 403 888 559 281 471 471 471 471 471 471 471 47	6.7 14.4 14.0 14.7 13.3 11.5 12.3 14.0 11.5 12.3 14.0 13.8 12.5 14.0 13.8 12.5 16.0 14.9 13.0 12.3 15.7 7.7 7.7 7.7 12.9 13.4 11.3 11.3 11.3 11.3 11.3 11.3 11.3

TABLE No. 2.

Showing the total number of Births, Marriages and Deaths, and the ratio per 1.000 of population in each City of Ontarlo, 1918.

Cities.	Estimated Population.	Births. Excluding Still-Births.	Ratio per 1,000.	Marriages.	Ratio per 1,000.	Deaths. Excluding Still-Births.	Ratio per 1,000.
Totals	1,080,430	26,903	24.9	10,483	9.7	18,771	17.3
Belleville Brantford Chatham. Fort William. Galt. Guelph Hamilton Kingston. Kitchener London. Niagara Falls Ottawa. Peterborough Port Arthur St. Catharines St. Thomas Sarnia Sault Ste. Marie Stratford. Toronto Welland Windsor	11.360 28.460 15,140 19.520 12.520 16.970 109.070 23.740 19,580 56,210 12,770 100,030 15,100 17,870 15,810 12,800 19,590 15,450 490,000 10,240 28,710	292 701 267 724 251 370 2,770 633 488 1.188 316 2.968 443 497 516 325 289 525 320 11,779 245 807	25.7 24.6 17.6 17.6 20.0 21.7 25.4 26.6 24.9 21.1 24.7 29.6 22.2 32.9 28.8 20.5 26.7 20.7 24.0 23.9	120 233 121 151 118 142 1,003 307 159 555 213 892 198 136 166 142 117 170 93 4,990 98 287	10.5 8.1 7.9 7.7 9.4 8.3 9.1 12.9 8.1 9.8 16.6 8.9 9.7 9.0 9.2 8.9 9.1 8.6 6.0 10.1 9.5	234 576 283 300 238 262 1,756 582 324 1,151 1,247 2,290 332 221 343 279 238 403 242 7,635 218	20.5 20.2 18.6 23.2 19.0 15.4 16.5 20.4 19.3 22.9 16.6 14.6 19.1 17.6 18.5 20.5 15.6 21.2

TABLE No. 3.

Showing the total number of Births, Marriages and Deaths in the Towns of 5,000 population in Ontario, together with the ratio per 1,000 of population, 1918.

Towns.	Estimated Population.	Births. Excluding Still-Births.	Ratio per 1,000.	Marriages.	Ratio per 1,000.	Deaths. Excluding Still-Births.	Ratio per 1,000.
Totals	149,020	4,367	29.3	1,363	8.8	3,241	21.7
Barrie Brockville Cobalt Collingwood Cornwall Ingersoll Kenora Lindsay. Midland North Bay Orillia Oshawa Owen Sound. Parry Sound Pembroke Renfrew Smith's Falls.	$\begin{array}{c} 6,420 \\ 9,450 \\ 5,980 \\ 7,420 \\ 7,230 \\ 5,170 \\ 5,880 \\ 7,280 \\ 6,940 \\ 8,530 \\ 9,770 \\ 12,270 \\ 5,720 \\ 8,100 \\ 6,760 \\ 6,590 \end{array}$	141 237 228 186 192 118 157 194 183 343 231 259 297 190 255 193 205	21.9 25.0 38.1 25.0 26.5 22.8 26.7 26.6 26.3 40.2 25.8 26.5 24.2 33.2 31.5 31.1	42 121 67 59 66 42 26 118 44 55 82 55 76 65	6.5 12.8 11.2 7.9 9.1 8.1 4.4 15.5 6.3 6.4 9.1 5.6 7.9 11.3 9.3 9.3 6.7	92 252 84 131 243 80 137 132 167 177 138 207 174 103 226 136	14.3 26.6 14.0 17.6 33.6 15.4 23.3 18.1 24.0 20.7 15.4 21.1 18.0 27.9 20.1 24.1
Sudbury Trenton Walkerville	6,920 7,830 5,830	415 200 143	59.9 25.5 24.5	94 94 94 48	13.5 12.0 8.2	408 133 62	58.9 16.9 11.4

TABLE No. 4.—Showing the number of BIRTHS registered and birth rate per 1,000 of census population in each County of the Province for each of the ten years, 1909-1918, inclusive.

6		1010	1011	1010	1019	1011	101=	1012	1017	1010	Totals
Counties.	1909	1910	1911	1912	1913	1914		1916	1917		Totals.
Totals	*51,465 24.3	*55,871 24.9	*57,235 22,6	58,870 22,4	61,516 24.0	66,225 21.0	67,032 21.2	65,264 23.5	22.6	26.6	616,573 23.9
Algoma	757 16.3	784 16.8	795 18.8	£49 19.1	894 17.4	813 15.8	$\frac{985}{18.1}$	906 17.1	955 8.81	1,021 19.8	8,762 17.8
Brant	931 23.8	1.048 26.5	1.100 23.9	$\frac{1.160}{24.7}$	1,202 24.3	1,30S 26.1	$\frac{1,165}{23.4}$	$\substack{1.206\\23.7}$	$\frac{1,165}{22.4}$	$\frac{1,193}{22.1}$	11,473 24.0
Bruce	1,289 21.3	1,195 18.4	1,060 21.1	1,069 21,6	1,061 22.9	1,059 22.6	942 20.0	967 20.8	862 19.3	$895 \\ 19.6$	11,399 20.7
Oarleton	3,515 25,3	2,568 25.8	2.659 22.8	2,993 25.1	3,127 24.8	3,232 24.8	3,258 23.4	3,176 23.0	3,066 23.3	3,765 28.0	30,359 21.6
Dufferiu	368 17.0	387 17,4	352 19.8	321 18.3	367 22.3	30? 18.7	340 20.9	322 19.7	311 19.5	292 19.0	3,362 19.2
Elgin	900 20.1	861 19.1	843 19.0	828 18.6	814 18.2	88? 19.3	919 19.9	828 17.9	753 16.5	815 18.1	8,443 18.6
Essex	1,528 25.5	1,589 26.4	1,594 23.5	1,579 22.9	1,848 25.0	1,958 25.9	1,922 24.6	2.044 26.0	2,089 25.2	2,244 26.4	18,395 25,1
Frontenac	$974 \\ 21.3$	901 19.7	861 22.0	872 20.8	1,019 23.2	962 21.4	1,004	1,047 33.6	989; 21.2	1,076 23.1	$\frac{9,705}{24.8}$
Grey	1,484 20.8	1.384 19.3	1,390 21.0	1,269 19.2	1,329 20.4	1,192 18.3	1,350 20.9	1,319 20.6	1,233 20.7	1,217 19.6	13,167 20.8
Haldimand	418 19.2	414 19.0	408 18.9	425 19.6	435 19.9	421 19.4	447 20.2	452 20.4	$\substack{411\\19.4}$	$\frac{448}{21.0}$	$\frac{4.279}{19.7}$
Haliburton	219 32.6	174 25.0	18x 28.7	146 20.5	109 19.2	273 48.3	199 34.0	196 34.6	142 26.3	154 29.1	1,794 29.8
Halton	447 22.3	460 22.9	484 21.8	420 18.7	497 21.5	516 21.0	519 21.3	455 18.7	427 18 5	$\frac{410}{18.5}$	4,635 20.5
Hastings	1,245 20.5	1.192 19.6	1,229 22.0	1,310 23.5	1,320 23.9	$\frac{1,358}{24.2}$	1,250 22,9	1,311 22.9	1,180 20.8	$\frac{1,422}{24.2}$	12,817 22,4
Huron	1,059 16.7	983 15.5	1.085 20.4	974 18.5	984 19.3	956 19.0	940 18.5	911 18.1	837 17.1	903 18.8	8.632 18.1
Kenora	285	213	239 13.1	246 13.7	262 13.7	326 16.3	394 20.4	292 15.2	280 14.7	419 23.8	2,956 16 2
Kent	1,093 18.6	1,165 19.7	1,237 22.0	1,187 21.0	1,223 21.4	1,270 21.6	1,359 22.6	1,241 20.6	1,209 20.1	1,278 21.4	12,222 20,9
Lambton	942 16.2	943 16.2	942 18.3	957 18.9	945 17.9	972 16.4	1.081	1,083 20.4	1.040 20.1	1,013 19.6	9,918 18.4
Lanark	670 17.5	695 18.2	668 19.4	683 19.9	724 21.0	666 49.1	709 20.8	642 18.9	641 19.2	702 21.3	6,800 19.5
Leeds and Grenville	1,068	1,073 17.7	959 17.6	1.018	922 17.4	973 18.6	1,035 19.7	985 18.8	952 18.4	952 18.6	9,937
Lennox and Addington	382 16.0	361 15.0	367 18.0	391 17.8	356 17.8	342 17.3	353 17.6	356 16.9	323 16.4	388 30.5	3,619 17.3
Lincoln	687 21.9	715 22.8	735 20.7	806 22.4	920 23.2	1,014 24,5	1,057 21.5	$\frac{1.046}{23.9}$	1,003 22.7	955 21.4	8,938 18,3
Manitonlin	217	226	186 16.8	206 18.8	239 21.4	171 14.8	410 35.0	287 24.3	298 26.1	283 34.6	2,556 22.6
Middlesex	1,854 19.5	1.844 19.3	1,820 18.7	1.914 19.5	1.948 19.4	1.949 19.2	2.117 20.2	2,130 21.1	1,830 17.9	$\frac{2,010}{19,6}$	19,416 19,4
Mnskoka	604 28.1	565 26.2	534 25.1	531 25,2	506 24.8	528 26.5	528 30.0	499 24.4	431 22.8	446 21.6	5,172 25.7
Nipissing	1,195 43.7	1,703 62.0	1,688 28.5	1.775 28.3	1,276 36.0	900 23.0	1,041 26.3	993	918 23.1	987 24.2	12,475 32,0
Norfolk	562 18.8	586 19.6	571 21.0	517 19.0	475 17.5	566 20.7	374 29.6	539 19.5	473 17.9	500 19.2	5,363 19,3
Northumberland and Durham	1,134 17.8	1,216 19.1	1,142 19.2	1.142 19.2	1,075 18.1	1,132	1,134 19.4	1,039	1,030 15.3	1.048 19.2	10,092 18.4

^{*}Still-births not included.

TABLE No. 4-Concluded.

Counties.	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	Totals.
Ontario	849 20.5	876 21.1	843 20.5	808 19.5	931 22.6	881 21.2	937 21.7	936 31.5	850 23.9	906 21.3	8,817 21.3
Oxford	997 20.1	973 19,6	926 19.5	$\begin{array}{c} 974 \\ 20.4 \end{array}$	1,008 21,4	972	1,006	$\frac{1.030}{21.6}$	882 18.8	894 19.3	9.662
Parry Sound	675 26.4	691 27.0	790 29.7	675 26.0	$\substack{632\\23.4}$	781 28.5	849 31.6	$\frac{809}{24.3}$	806 23.4	813 25.4	7,521 26.5
Peel	427 19.4	426 19.3	414 18.7	418 18.8	$\substack{446 \\ 20.4}$	438 20.0	479 20.6	$\substack{464 \\ 20.0}$	390 17.0	982 17.4	4,484 19,1
Perth	1,029	972 19.0	947 19.2	963 19.6	950 18.8	1,036	1,088 21.0	1,055 20.5	960 18.8	990 19.7	9,990 19.7
Peterborough	866 23.4	930 25.1	925 22.2	977 23.0	$\frac{969}{22.8}$	$\substack{982\\22.8}$	941 22.3	$\frac{921}{22.3}$	885 21.2	880 21.1	9.276 22.6
Prescott and Russell	1,760 36.3	1,842 37.0	1,767 34.1	1,659 31.6	$\substack{1.860\\36.7}$	$\substack{1,715\\32.4}$	1,770 33.1	$\frac{1.692}{32.3}$	1,721 33,7	1.702 32.1	17,488 33,9
Prince Edward	326. 17.8	319 17.4	332 19.3	290 16.8	$\substack{342\\20.4}$	294 17.4	328 19.4	324 18.7	319 19.5	283 18,1	3,157 18,4
Rainy River	$\substack{240\\14.2}$	234 13.8	215 21.3	254 28.1	$\substack{334\\31.9}$	$\substack{319\\29.0}$	334 31.8	311 29.3	320 30.1	315 26.5	2,876 25,5
Renfrew	1.291 23.9	1,227	1,223 23.5	1,179 22.9	1,223 23.3	1,188 22.1	1,267 23.6	1,237 23,2	1,559 24.7	1,355 24,0	12,749 21.5
Simcoe	1,981 23.5	1,851 21.9	1,873, 22,0	1,804 21.0	$\frac{1.964}{22.8}$	$\frac{1,929}{22.4}$	1,933 22.4	1.824 21.3	1,955 23.6	1,842 21.6	18,956 22,2
Stormont, Dundas & Glengarry	1.460 20.7	1,237 17.5	1,330 20.7	1,135 17.7	1,259 20.0	1,249 19.5	1,266 20.0	$\frac{1.318}{20.8}$	1.315 20.8	1,266 20.8	12,835 19,8
Sudbury	836	665	818 23.4	779 19.7	873 21.4	$\frac{1,025}{24.0}$	1,403 33.5	1,307 30.6	$\substack{1.470\\33.2}$	$\frac{1,444}{31,4}$	10,620 26.8
Thunder Bay	871 67.6	1,083 84.1	1,241 31.7	1,353 33.0	1,657 38.2	1.836 40.3	1,862 41.5	$\frac{1.510}{37.5}$	1,392 34.5	1,366 33,3	
Timiskaming					$\substack{876\\30.3}$	1.294 41.5	1,369 45.5	1,313 39.9	1.338 49.5	1,459 45.\$	7,649 51.1
Victoria	661 20.2	$\substack{691\\21.0}$	584 19.3	648 20.9	607 20.1	$\begin{smallmatrix} 551 \\ 17.9 \end{smallmatrix}$	$\substack{612\\20.3}$	537 17.4	520 17.1	536 17.8	5,947 19.3
Waterloo	1,347 25.0	1.430 26.5	1.429 22.8	1.515 23.3	$\substack{1,643\\24.0}$	$^{1,819}_{26,2}$	1,774 25.6	1.733 24.8	1,615 23.4	1,636 23,3	
Welland	780 24.1	917 28,3	942 22.3	1.044 24.1	1,149 23.6	$^{1,326}_{24.8}$	$\frac{1,289}{24.0}$	$\frac{1,340}{24.0}$	1,260 22,3	$^{1.108}_{23.8}$	11,455 24.1
Wellington	1,111 19.5	1,108 19.4	1,100 20,1	1.085 19.9	1,105 20,3	1,072 19.5	1.067 19.4	$^{1,094}_{20.2}$	1,013 19.3	1,055 30,1	10.810 19.7
Wentworth	2,336 28.7	2.622 32.1	2,663 23.8	3.149 26.9	$\frac{3,37?}{25,2}$	3,602 26.4	$\frac{3,401}{25.1}$	3,585 25.1	3,365 24.2	3,408 23,1	31,503 26.0
York	9.765 35.0	10,332 37.6	11.743 \$6.4	12,573 26,1	15,439 29,8	15,877 28.7	15,025 27.2	14,653 26.7	14,083 24.9	13,950 23.9	
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TABLE No. 5.—Showing the number of MARRIAGES registered and marriage rate per 1,000 of census population in each County of the Province for each of the ten years, 1909-1918, inclusive.

Counties.	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	Totals.
Totals	22,366 10.0	24,036 10.7	25,807 10.2	28,845 11.1	26,998 10.0	24,215 8.8	23,506 8.5	23,401 8,4	21,499 7.7	19,525 6,9	210,228 9,2
Algoma	382 9.2	302 6.4	340 8.0	403 9.0	342 6.6	352 6.8	331 6.4	346 6.6	345 6.8	296 5.7	3,139 7.1
Brant	325. 8.3	385 9.0	414 9.0	467 9.9	485 9.8	443 8.8	405 8.1	426 8.3	410 7.9	356 6.6	1,116 8,5
Bruce	355 5.8	352 5.8	311 6.2	344 6.9	372 8.0	311 6.6	333 7.0	340 7.3	257 5.7	$\frac{221}{4.8}$	3,196 6,1
Carleton	941 9.4	1.047 10.5	1.123 9.6	1.221	1,194 9,5	1.224 9.3	1.175 8.4	1,227 8.9	$\frac{1.118}{8.5}$	1,042 7.7	11,313 9.3
Dufferin	119 5.5	134 5.2	142 8.0	130 7.4	113 6.8	112 6.9	103 6.3	113 69	$\frac{104}{6.5}$	86 5.5	1,156 6,5
Elgin	352 7.8	334 7.4	342 7.7	368 8.2	387 8.7	357 7.7	346 7.5	346 7.4	294 6.4	286 6.3	3,112 7,5
Essex	2,508 41.9	2,836 47.8	3,426 50.7	4,149 60.2	2,082 28.1	1,050 13.9	996 12.8	1,035 13.1	922 11.1	646 7.6	19,650 28.7
Frontenac	366 8.0	364 7.9	381 8.9	427 10.2	382 8.7	366 8.1	406 9.1	365 8.3	393 8.4	400 8.6	3,850 8.5
Grey	432 6.0	468 6.5	460 7.1	496 7.5	506 7.7	441 6.7	415 6.4	482 7.5	385 6.4	365 5.9	4,450 6.7
Haldimand	136 6.2	149 6.8	130 6.0	146 6.7	153 7.0	150 6.9	160 7.2	164 7.4	112 5 3	128 6.0	
Haliburton	26 3.8	30 4.4	31 4.9	22 3.9	35 6.1	25 4.4	39 6.6	26 4.5	26 4.8	32 6.0	
Halton	134 6.7	130 6.4	132 5.9	160 7.1	180 7.7	166 6.7	141 5.8	137 5.6	105 4.5	103 4.6	
Hastings	469 7.7	430 7.0	439 7.8	470 8.4	664 12.0	452 8.0	420 7.7	474 8.3	463 8.1	471 8.0	
Huron	358 5.6	398 6.2	364 6.8	348 6.6	372 7.3	323 6.4	356 7.0	375 7.4	311 6.3	296 6.1	
Kenora	72	69	72 3.9		188 9.9	71 3.5	75 3.9	84 4.3	37 1.9	4:1	
Kent	408 6.9	454 7.7	459 8.1	475	502 8.8	451 7.6	458 7.6	463 7.7	452 7.5	37 : 6. :	
Lambton	466 8.0	486 8.3	523 10.1	518 10.2	450 8.5	445 8.3	406 7.6	435 8,2	332 6.4	309 5.9	
Lanark	219 5.8	274 7.0	264	245 7.1	279 8.1	239 6.9	242 7.1	262 7.7	239 7.1	21: 6.4	
Leeds and Grenville	437 7.2	452 7.4		498	449 8.4	353 6.7	416 7.9	411	395 7.6	356 6.9	
Lennox and Addington	169	143 5.0	169	154	183 9,1			130 6.5		116 6.1	
Lincoln	290 9.2	294	332	348	355 8.9			418		307	
Manitonlin	67	69	57 5.1	56				76 6.4		55 4.3	
Middlesex	745 7.8		834	928	900	900		896 8.6			8,539 8,4
Mnskoks	133	134	132	160	148	142	142	142	98	97 5.8	1,338
Nipissing	344 12.5	423	428	473	254	273	257	284	264	168	3,168
Norfolk	193	226	183	193	211	228	197	225	141	128	1,935
Northumberland and Durham	401	415	404	390	431	379	364	429	387	304	3,904

TABLE No. 5-Concluded.

Counties.	1909	1910	1911	1912	1913	1911	1915	1916	1917	1918	Totals.
Ontario	263 6.3	264 6.3	269 6.5	277 6.7	292 7.0	308 7.4	267 6.2	329 7.6	268 6.4	990 5.1	2,757 6.5
Oxford	372 7.5	336 6.7	352 7.4	382 8.0	358 7.6	400 8.3	359 7.4	388 8.2	334 7.1	284 6.1	3,565 7.1
Parry Sound	174 6.8	160 6.2	194 7.3	167 6.4	179 6.6	156 6.7	173 6.4	190	225 6.5	173 5.3	1,820 6.3
Peel	163 7.4	136 6.1	133 6.0	142 6.0	134 6.1	137 6.2	138 5.9	134 5.8	89 3.8	98 1.2	1,299 5.7
Perth	349 6.8	337 6.5	369 7.5	403 8.2	372 7.3	368 7.2	422 8.1	406 7.9	350 6.8	975 5.4	3,651
Peterborough	334 9.5	315 8.5	346 8.2	377 8.8	353 8.3	354 8.3	$\frac{310}{7.3}$	335 8.1	339 8.1	267 6.4	3,330 8.1
Prescott and Russell	349 7.2	348 7.1	350 6.7	336 6.4	342 6.7	330 6.2	312 5.8	349 6.6	332 6.5	285 6.8	3,333 6.4
Prince Edward	123 6.7	129 6.6	116 6.7	116 6.7	120 7.1	117 6.9	131 7.7	111 6.4	88 5.3	$\frac{94}{6.0}$	1,138 6.6
Rainy River	81 4.8	91 5.4	74 7.3	96 9.3	104 9.9	125 11.3	7.7	74 6.9	78 7.3	56 4.7	856 7.4
Renfrew	371 6.8	369 6.8	318 6.1	360 7.0	385 7.3	408 7.6	350 6.5	377 7.0	427 7.8	343 6.0	3,708 6.8
Simcoe	580 6.8	630 7.4	635 7.4	647 7.5	498 5.7	599 6.9	556 6.4	625 7.3	580 7.1	$\frac{459}{5,3}$	5,809 6.7
Stormont, Dundas and Glengarry	467 6.6	388 5.4	331 5.1	366 5.7	399 6.3	430 6.7	418 6.6	475 7.5	374 5.9	316 5.3	3,964 6.1
Sudbury	181	163	$\frac{122}{3.4}$	183 4.6	$\frac{256}{6.2}$	227 5.3	211 5.0	203 4.7	187 4.2	174 3.5	1,907 4.6
Thunder Bay	354 27.5	386 30.0	418 10.6	$\substack{ 461 \\ 11.2 }$	595 13.7	493 10.8	365 8.8	364 9.0	323 8.0	301 7.8	4,060 13.9
Timiskaming					281 9.7	288 9.9	273 9.1	268 8.1	260 9.6	279 8.8	1,649
Victoria	240 7.3	217 6.6	199 6.5	213 6.8	$\frac{220}{7.2}$	234 7.6	209 6.9	201 6.5	205 6.7	296 7.5	2,164 6.9
Waterloo	437 8.1	482 8.9	486 7.7	576 8.8	623 9.1	632 9.1	603 8.7	572 8.1	554 8.0	195 7.0	5,460 8.3
Welland	1,091 33.7	1,375 42.4	1,524 36.1	1,840 42.5	1,108 22.8	743 13.9	672 12.5	648 11.6	548 9.7	455 7.7	10,004 23.2
Wellington	378 6.6	426 7.4	378 6.9	378 6.9	412 7.7	358 6.5	429 7.8	393 7.2	354 6.7	327 6.1	3.833 6.9
Wentworth	919 11.3	1,075 13,1	1,271 11.3	1.464 12.5	1.548 11.6	1,320 9.6	1.307	1,297 9,1	1,197 8.6	1,134	12,532 10.4
York	4,293 15.3	4,805 17.1	5,604 12.6	6,418 13.3	6,737 13.0	6,358 11.5	6.084	5,556 10,1	5,474 9.7	5,319 9.1	56,648 12.1

TABLE No. 6.—Showing the number of DEATHS registered and death rate per 1,000 of census population in each County of the Province for each of the ten years, 1909=1918, inclusive.

	the t	en ye	ars, i	909=1	910,	inclus	ive.				
Counties.	1909	1910	1911	1912	1913	1914	1915	1916	1917	1915	Totals.
Totals	*32,628 14.6	*33,539 14.9	*34,341 13.6	32,150 12.4	34,317 12,7	32,440 11.8	33,294 11.2	35,580 12.8	33,284 12.0	43,038 15.8	311,611 13,1
Algoma	413 8.8	490 10.5		470 10.6	515 10.0	400	472 9.1	467 9.0	457 9.0	620 12.0	4,765 9.7
Berant	536 13.8	551 14.0	565 12.3	567 12.1	568 11.4	510 10.2	527 10.6	633 12.5	717 14.3	943 17.4	6,147 12,8
Bruce	706 11.6	650 10.7		621 12.5	603 13.0	540 11.5	573 12.2	623 13.4	580 12.9	637 14.0	6,181
Oarleton	1,773 17.8	1.917 19.2	2,147 18.4	1,933 16.3	2,142 17.0	2.084 16.0	2,100 15.0	2.175 15.7	1,903 14.4	2,791 20,8	20,965 17.0
Dufferin	207 9.6	219 10.1		166 6.6	190 11.5	158 9.8	200 12.3	184 11.2	187 11.7	206 13.3	1,900
Elgin	527 11.8	488 10.9		539 12.1	526 11.8	561 12.3	525 11.3	568 12.2	507 11.1	668 14.8	5,414 11 9
Essex	830 13.8	800 13.3	881	808 11.7	919 12.4	867 11.5	830 10.7	957 12.1	950 11.5	1,128 13.3	8,970 12,3
Frontenac	605 13.2	697 15.2	672	705 16.8	740 16.9	657 14.6	694 15.4	773 17.7	705 15.1	900 19.4	7,148 16.0
Grey	795 11.1	711 9.9	743	738 11.2	767 11.7	679	691 10.7	698 10.9	658 11.0	746 10.4	7,996 9,8
Haldimand	226 10.4	228 10.4	276 12.8	229 10.6	265 12.1	255 11.7	278 12.5	270 13.4	234 11.0	262 12.8	2,523 11,7
Haliburton	80 12.0	68 10.1	74 11.7	62 10.9	40 7.0	81	72 12.3	66 11.7	67 12.4	80 15.1	690 11.7
Halton	249 12.4	254 12.6	258	229 10.2	234 10.1	203 9.0	264 10.8	246 10.1	259 11.2	284 12.5	2,500 11.0
Hastings	731 12.0	780 12.8	1	709 12.7	725 13.1	754 13.4	733 13.4	773 13.5	727 12.8	929 15.1	7,660 13.3
Huron	720 11.3	627 9.8	673	600 11.2	643 12.6	589 11.7	608 12.0	631 12.5	634 12.9	661 13.8	6,386 12,0
Kenora	136	114		146 8.4	128 6.7	143 7.1	103 5.3	98 5.1	100 5.2	294 15.5	1,378 8,5
Kent	705 12.0	733 12.4	787 14.0	608 10.4	674 11.8	700 11.9	727 20.0	770 12.8	622 10.3	887 14.0	7,163 12.9
Lambton	647 11.1	588 10.1	639 12.4	611 12.0	607 11.5	560 10.5	581 10.8	698 13.1	603 11.7	70! 13.7	6,243 11.6
Lanark	435 11.4	479 12.2	434	428 12.4	402 11.6	461 13.4	410 12.0	463 13.6	438 13.1	508 15.4	4,458 12,7
Leeds and Grenville	785 12.1	798 13.1	764 14.0	896 16.5	759 14.3	720 13.8	784 13.9	739 14.1	765 14.8	920 17.7	7,930 14.4
Lennox and Addington	263 11.0	316 13.2		229 10.4	256 12.8	208 10.4	254 12.7	217 10.9	280 14.2	252 14.9	2,569 12,3
Lincoln	505 16.0	482 15.3	459	460 12.8	544 13.7	536 12.9	532 12.3	577 13.2	489 11.0	715 16.0	5,299 13.6
Manitoulin	90	67	72 6.5	69 6.3	72 6.4	73 6.2	162 13.8	112 9.5	153 13,4	150 13.0	1,020
Middlesex	1,260 13.2	1,348		1,191 12.1	1,401 14.0	1.267 12.5	1,396 13.3	1,513 14.6	1,421 13.9	1,718	13,828
Muskoka	279 13.0	257 11.9	243	209	210 10.2	188 9.4	232 13.1	257 12.5	272 14.4	284 15.7	2,431 12,1
Nipissing	758 27.7	812 29.5	730	618 9.8	444 11.9	296 7.5	349 8.8	343 8.6	291 7.3	427 10.4	5,068 13.3
Norfolk	363 12.1	368	343	330 12.1	373 13.7	322 11.8	327 11.7	355 12.8	348 13.0	407	3,531
Northumberland and Durham		861	757	739 12.4	727 12.2	704 12.0	776 13.2	790 13.6	701 10.4	806 14.7	7,626
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^{*} Still-births not included.

TABLE No. 6-Concluded.

Counties.	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	Totals.
Ontario	571 13.8	617 14.8	559 13.6	494 11.9	536 13.0	495 11.9	510 11.7	530 12.2	522 12.5	631 11.8	5.465 13.0
Oxford	566 11.4	565 11.3	629 13.2	582 12.2	583 12.4	532 11.0	572 11.9	642 13.5	576 12.3	634 13.7	5,881 12.2
Parry Sound	268 10.5	252 9.8	316 11.9	272 10.4	259 9.5	272 9.9	274 10.2	395 11.8	278 8.1	408 12.7	2,994 10.4
Peel	271 12.3	278 12.6	271 12.2	230 10.3	244 11.1	243 11.1	257 11.0	238 10.2	235 10.2	286 13.0	2,553 11.4
Perth	558 10.9	524 10.2	514 10.4	520 10.6	532 10.5	522 10.3	515 9.9	572 11.1	531 10.4	596 13.0	5,384 10,7
Peterborough	539 14.6	569 15.3	606 14.5	470 11.0	521 12.2	459 10.6	175 11.2	555 13.4	$\frac{562}{13.4}$	544 13.0	5,300 13.9
Prescott and Russell	764 15.7	692 14.2	771 14.8	613 11.6	697 13.7	699 13.3	741 13.8	754 14.3	658 12.8	978 18.4	7 367 14.3
Prince Edward	262 14.3	278 15.1	244 14.2	236 13.7	231 13.7	225 13.3	243 14.4	271 15.7	$\substack{223\\13.6}$	271 17.3	2,484 14.5
Rainy River	83 4.9	96 5.6	111 11.0	79 7.6	$\substack{122\\11.6}$	115 10.4	93 8.8	85 8.0	83 7.8	135 11,3	1,002 8.7
Renfrew	591 10.9	565 10.4	629 12.1	603 11.7	574 10.9	568 10.5	$\substack{607\\11.2}$	629 11.3	571 10.4	790 11.0	6,127 11.3
Simcoe	1,159 13.7	1.083 12.8	1,156 13,5	1.042 12.1	1,048 12,2	1,069 12,4	1,086	1,184 13.8	$\substack{1,109\\13,2}$	1,366 16.0	11,300 13.3
Stormont, Dundas and Glengarry	863 12.2	803 11,3	908 11.1	$804 \\ 12.5$	757 12.0	781 12.2	$\substack{802\\12.7}$	856 13.5	827 13.0	1,040 17.1	8,441 13.0
Sudbury	359	405	$\substack{ 362 \\ 10.3 }$	423 10.7	$\frac{456}{11.2}$	453 10.6	409 9.7	476 11.1	469 10.6	811 17.8	4,623 13,1
Thunder Bay	480 34.7	600 46.6	523 13.3	$^{494}_{12.0}$	725 16.7	676 14.8	523 12.6	521 12.9	$\frac{487}{12.0}$	609 11.8	
Timiskaming					297 10.2	373 12.8	429 14.2	540 16.4	396 14.6	643 20.4	
Victoria	352 10.7	377 11.5	370 12.2	338 10.8	338 11.1	303 9.8	309 10.2	348 11.3	345 11.3	263 12.0	3,443 11.0
Waterloo	693 12.8	793 14.7	736 11.7	661 10.1	778 10.4	727 10.4	746 10.7	785 11.1	779 11.3	1,017 14.3	7,715 11.7
Welland	470 14.5	575 17.7	522 12.3	499 11.0	677 13.9	610 11.4	621 10.5	711 12.8	664 11.8	$988 \\ 16.7$	6,337 13.2
Wellington	721 12.6	668 11.7	720 13.2	681 12.5	731 13.4	652 11.8	696 12.7	767 14.2	705 13.4	733 14.0	7,074 12,9
Wentworth	1,467 18.0	1,579 19.3	1,606 14.3	1,654 14.1	1,603 12.0	1,593 11.6	1,622 11.9	1.704 11.9	1.720 12.4	2,374 16.1	16,922 14.1
York	6,202 22,2	6.517 23.3	6.973 15.6	6,545 13.6	7,134 13.7	6,537 11.5	6,564 11.9	7,021 14.1	6,451 11.4	8,916 15.3	68,860 15,2

	1918.
	Counties,
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Causes of Death by Classes of Disease.	.lsto]	Jnder 0-1.			-		*6-9	.\$1-01	. 61-93	68-08	*68-08	20-29	*69-09	.67-07	.1970 bns 08	Not stated.	Male.	Female.	Not stated.	January.	February.	.lingA	Nay.	June.	July	Anguet.	September.	October.	November.
Grand Total, including all municipalities					- 302	-					-	-		715,3	+31,4	423	190,62		700 €		071.5	812,8	7 846	2,516	2,532	2,500	549,2	283,8	110,8
Grand Total	21,036 2	2.813	924	959	1 121	138	1 11	1 12	197 3.1	9,193 18	1865 1279	1599	9 2359	93176	.7.73	373	11,306	068.6	1 :	1550 15	1529 156	1565 1556	9 1433	1351	1338	133	- 286	3481 2	35.29 2111
		088	1	138	1.8.	92	1.55	1828	196	355	1070 614	109	1 634	\$	193	151	3,478	3.381	<u>'</u>	338	318	337 378	315	5.599	991	21.8	315 1	1799 1	1357 913
11. Diseases of the nervous sys- tem and of the organs of special sense.	9.157	5	27	es res	91	. 7	- 8	x G!	**	1.6	1:08	147 238	£ 403	\$2 \$2	87.	7	1,150	1,007		189	316 3(308 17	161 921	17.5	168	1	183	193	151
III. Diseases of the circulatory	800	G	-		10	- ::	12	12	30	25	12.	133 293	13 607	5 9 15	555	7.	1,464	1.319	:	365	388	362 37	97.6	9.55	315	110	183	318	194
IV. Diseases of the respiratory	10	201	131	67	41	- 22	51	13	 65	396	312 10	162	168 239	25 25 25	355	15.	1,510	11.244	:	66.6	300	500	221 157	104	86	30	12	665	410
V. Diseases of the digestive	1,049	3	6.1	15	1:	x	9	17	- 55	25	-	50	90 119	6 115	12	6	6,5	200	:	3	13	1:	02 29	9	1	165	158	101	5.6
VI. Non-venereal diseases of the genito-urinary 8ys- tem and adnexa	91	::	13	-	 	- :	12	23	×	8	4	61 9	98 165	5 208	11	x	25	1G	- :	67	-8	69	12	25	61	+	36	ţĢ.	67
VII. The puerperal state	133			:	-	-		-:	20	ŝ	19	16	_	:	:	31	:	33	-:	2	9	- œ	10 1	91	- 1	2	ı÷.	$\bar{\Xi}$	Ξ
VIII. Diseases of the skin and	1:36	-				:	:		_		œ	1-	-2	19 39	51	31	?-	5.1	:	22	- 3	9	- _{5.}	11 15		g.	s.	=	5,
IX. Diseases of the bones and of the organs of locomotion.	æ			:	-	:	-	_ :	:	:		00	:	1				-	:	_	-	- :	:	- :	_	_		:	1
X. Malformations.	i -	1-		-	:	:		-		:	- :	:	:	. :	:	:	?;	5	:	x	22	i-	s. '	٠.	6 19	6.	.o	10	?'
XI. Diseases of early infancy	1,513	1.513				-		-	:	:	:		:	- :		:	::	040	:	25	133	135	155 138	= = = = = = = = = = = = = = = = = = = =	130	136	<u>::</u>	<u> </u>	1-10
XII. Old age	7.13				:		:	:	:	:	:	:	- :	100 448	1186	x	998	876	:	17	1 191	4	144 136	9 119	1113	113	33	163	111
NIII. Affections produced by ex-		ıs	53	50	-01	116	+	<u>x</u>	-89	159	-211	ĝ!	- 30 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	80 67	150	Š	685	11 11	:	19	55	129	33	81 110	22	g.	89	72	:8
XIV. Ill-defined diseases	156	7	8	11	13	.5	2	i+	į.	=	2	+	21	5		10	98	€.	:	2	16	21	113	91 91	= = =	21 3	9 1	Ξ.	ΞΞ

TABLE No. 8.
Recanitulation of Causes of Death by Classes of Diseases in Citias

Canses of Death by Classes of Discases.		.1-		-				Ages.	<i>x</i> .								Sex.						Mor	Months.		,19		
	Total,	Under 0	1,	5.	3.		10-14,	15-19.	\$0-29.	30-39	.64-04	.65-05	69-09	*62-02	o bas 08	Not state	Female.	Not state	February February	March.	April.	May.	Jane.	July.	·1snZnV	Septemb		October.
Grand Total	177,81	380,8	879	324	222	143 2+1	828	129	5 2 42	2,418	11+11	988,1	1,819	9+8'1	1,219	121	388,8	1.239	261'1	585.1	884,1	1,212	1,015	850,1	1,073	1,139		+15,+
1. General diseases	6,682	386	= =	121	1 91	123	258 15	156 329	61519	1316	609	12.0	210	9889	186	50 3, 136	3,256	1:	289 258	50 1 20	1 gg	21.7	255	25	955	368	1 88	6 2385 1017
aystem and of the organs of special sense.	1,359	170	5.0	36	2	=	3.	-11	- E	- 80	-61	178	5	3.11	111111	1 680	679	-	116 125	13	983	=======================================	86		119	32		113
BystemIV Diseases of the respiratory	2,146	5.	??	-	-	**	27 27	36	3.5	25	123	331	163	561	21 668	5-1,134	1,012	÷ ;	217 209	9 207	12	183	165	164	20	157		80%
8y8tem Dispuses of the directive	3,388	419	006	ĩ01	10	55	- E	64 137	614	1 264	13	£18	دو	633	15:1	15 1,880	1,508	≎5	211 206	251	966	177	2.5 2.5 2.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3	68	-1	101		1130 351
* Diseases of the digestive system *** ********************************	1,189	455	2:	98	Ξ	-01	155 3.	- 55 - 55	15	ž	81	6	88	96	3	623	566	-	9 69	62 83	ş.	10	19	Ξ		309		x
the genito-urinary sys- tem and adnexa	673	16	(-	<u></u>	:	\$\$	G E		18	98	8.	95	913	136	57	388	291	-:		89		139	13	-9	22	.G		63
WII. The puerperal state	149		-		<u>:</u>	:	:	•	£ 63	6.	ĩ	:	:	:	:	<u> </u>	149	-	21	31 16	=	73	=	13	S)	~		22
cellular tissueIX. Diseases of the bones and	90	1:3	21	-	:	;	-	-		-:	7	=	Ľ	22	÷	58	?}	:	8	- 2	=	s,	x	5,	-	9		- 9
the organs of locomotion			-	<u>:</u>	:	:	4 ?	:	:	G 8	:	31	**	35	<u>:</u>	×	(-	-	_	25	21	:	25	-	-	_		-
X. Malformations		137	00	€\$:	:	:	:	:		:	:	:	:	:	86	52	:	11	01	<u> </u>	Ξ	æ	9	9	æ		9
XI. Diseases of early infancy	1,435	1,129	:	:	:	:	:-	:	<u>:</u>	<u>:</u>		:	:		:	3 804	619	25	101 281	611	22	911	103	130	106	\$55 300	-	156
XII. Old age			:	:	:	:	:	:	-	:	:	es.	5	88	430	286	381	:	60 5	26 72	13	-Si	<u>e</u>	50	33	¥3		65
ternal causes	735	35	33	91	e € 8	<u>«</u>	6	37	45 91	113	9.5	8	55	51	??	11 506	35 35 35	_	48 57	89	£6	20	-	69	53	13		99
XIV. Ill-defined diseases	. 110	2	25	£3	:	-	_	_	- € ?	= x	13	16	10	-	-	99	50	-:		15	æ	10		6	9	6		2
Still-Births (not included in			_						_	_				_	_			_	_						_	_		

Recapitulation of Causes of Death by Classes of Diseases in Towns of 5,000 population, 1918. TABLE No. 9.

	Causes of Death by Classes of Diseases of Diseases Transfer of Disease Transfer of Dis	Grand Total	I. General diseases 1,284	system and of the organs 237	III. Diseases of the circulatory 323	W. Diseases of the respiratory system	V. Discases of the digestive	the genito-urinary sys-	VII. The puerperal state	cellular tissue	X. Malformations 10	XI. Diseases of early infancy 349	XII. Old age	AIII. Affections produced by ex- ternal causes 163	XIV. Ill-defined diseases	Still-Births (not included in totals)
	1-0 1-01. 1. 2. 3.	\$01 15 75	23 46	38 11 8	G2	73 29 7	72 17 6	÷			10	249		4 1 6	1 1	197
	.9-3	18 27	34 17 37		CS.	11 11	1 13		:		:	:	:	ž -1 13	1	
Ages.	10-14.	£91 <u>48</u>	26 87	- 60	4 6	10 37	13	3,	:	:	:	:	:	10 10	:	
	.62-02	245	35.7	10	3	113	10		9	G₹	:	:	:	34	:	
	*67-07	235	235 103	-6	55	60 40	13 12	10 17	- o	Gì	<u>:</u>	-	:	28	-	- :
	.62-03	510	83	£5	38	98 0	13	01 2	GI	1 1	:	:	:	11 81	; ;	:
	*69-09	872	- E	07	833	er er	12	<u>:</u>	<u>:</u>	:	÷	:	(-	10	-	
	70-73, 80 and over,	202	58 17	- 27	162	333	£-	(-	<u>:</u>	- (-	: :		8 61	į-	:	-:-
	Not stated.	56	101	G?	43 3	16 6	7	· ×	:	7,	:	:	88 1	G\$:	÷
Sex.	Male.	1,865	733	€€ 1	177	339	103	33	:	σ,	9	100	¿-	131	-	111
į.	Female.	948,1	551.	115	146	173	105	67	17.	× ×		114	- 89	31.	8	-9s
	Not stated.		¥ :	, 50		ਜ਼ੌ •	= :				•	G ?			.	-
	February.	181	38	35	31	90	11 11	10		1	?₹	33 15	15 9	5 11	::	11 19
	March.	555	99	19	55	34	16		_	10	_	30	5	x	¢\$	19
	April.	\$22	cs cs	30	જ	65	13	ţ-	7	3₹	-	68	15	11	:	18
×	May.	150	7	65	83	35	10	- x		-	:	65	13	35		1.
Months.	June.	120	980	- ĉĉ	٠٠ ٢٠	13_1	- n	9		-	:	12 1	5		:	
	Auguet.	021	94	13 18	31 14	10	14 37		:			16 20	6	95 1C	:	16 13
	September.	861	- 2	8 19	- 53	6 11	48	9 9	<u>:</u>	:	_	S.	114	×		5
	Осторет.	787	193	19	8	166	16	6	-	es.	:	÷	#	œ	۰,	8,
	Мочетрег.	422	360	15	ŝ	66	11		G)	-	_	1.4	10	11	?'	10

TABLE

Showing Total Deaths by Individual N.B.-First line shows totals including Cities and Towns. Second line shows totals excluding OFFICIAL ENGLISH TRANSLATION. Total. (DISPUSES AND CAPSES OF DEATH.) laliburton. Frontena Dufferin Algoma. Halton, anı 7.46 006 584 637 56 Grand Total, including Cities and Town-.... ž 5 £ 83 Total Rurar Municipalities 3 36 I— General Diseases. (A-Epidemic Diseases.) Group Total..... 6.859 79 126, 170 137 63 107 185 108 151 68 23 96 172 179 71 Typhoid Fever 3,.... 1 1 80 1 4. Mataria 1 Smallpox 5.: Measles..... Scarlet Fever.... 0.3 .5 7. 26 2 Whooping Cough 10 1 13 3 1 1 Diphtheria and Croup..... 103 33 22 27 36 42 3,111 34 69. 57 65 83 31 -11 13 99 61 52 Influenza..... Miliary Fever..... 3 Cholera nostras..... 13. 1 3 1 1 40 1 Dysentery 3 2 3 1. 1 Erysipelas ... 31 1 Other epidemic diseases..... 2....1... 20. Purulent infection and Septicæmia 21. Glanders Anthrax.... 2 Rabies.... 10 Tetanua 26. Pellagra 22 19 Total deaths from tuberculosis..... 1.419 21 17 26 5 13 11 40 6 6 11 201 38 11 90 39 5 5 32 11 28. Tuberculosis of the Lungs 12 2 ... Acute Miliary Tuberculosis -) •3 Tuberculous Meningitis **i**1 ... +) - 1 1 Abdominal Tuberculosis 31. 38 1 1 1 1 32. Pott's Disease..... ' ' 1 White Swelling..... 6 Tuberculosis of other organs Disseminated tuberculosis..... 36. Rickets 37. Syphilis Gonococcus infection 39. Cancer and other malignant Tumors of 1 the buccal cavity 1 1 40. Cancer and other malignant Tumora of 7 6 15. 1 15 S 2236 3 11 11 14 2 132 5 • the peritonæum, intestines, rectum... 42. Cancer and other matignant Tumora of 2 ... 9 • ? 62 1 3 1 1 1 the breast..... Cancer and other malignant Tumors of 2 28 . :3 1 •) 1 1 other organs or of organs not specified .) 20 13 11 1 2 3 36 1 1 1 1 ٠. 48. Chronic Rhenmatism and Gout 190 3 • • 50. Diabetes Exophthalmic Goitre 51 1 8 .. 6 52. Addison's disease 53. Leuchæmia 20 6 4 7 ···· 6 12 278 9 - 8 9 Anæmia, Chlorosia..... 21 1 Other General diseases 23 1 . . . 1 56. Alcoholism (acute or chronic)..... 14 ! . . . ! ' | |

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57. Chronic lead Poisoning

Other chronic poisonings

No. 10.

Diseases in each County, 1918.

Kent.	Lambton.	Lanark.	Leeds and Grenville.	Lennox and Addington.	Lincoln	, ,	Middlesex.	Muskoka.	Nipiseing.	Norfolk.	Northumberland and Durham.	Ontario.	Oxford.	Parry Sound.	Peel.	Perth.	Peterborough.	Prescott and Russell.	Prince Edward.	Rainy River.	Renfrew.	Simcoe.	Stormont, Dundas & Glengarry	Sudbury.	Thunder Bay.	Timiskaming.		Waterloo.	Welland.	Wellington.	Wentworth.	York.	Grand Total, including Cities and Towns.
837	200	208	920	282	715	150	1,718	284	427	407	806	631	634				244	978	1 271	135	290	1,366	1.040	811	609	643	363	1,017	988	733	2.374	8.016	43,038
199	171	349	899	282	37.5	120	567	186	1350	107	908	# č †	193	305	386	1 354	213	978	971	135	864	838	797	£0f	88	559	15.5	155	253	124	618	1.381	_:_
5	3 3 56	2		2 37		1	2		6	125	229 2 1 2 4 1 70	125	100 1 5 1 31		90	1	57	418 18 9 5 275			127 2 1 1 3 59	269 4 5 10 4 113	1 5 2	173 3 6 8 2 118	2	271 2 2 1 14 9 191	1	2 2 1 2	177 2 1 1 1 7	149 1 2 1 74	3 6 4	472 4 10 4 146	208 208 3 2 95 84 303 335 7,337
2	1					1	1	2		1	i i	1	2	l	3		1 4	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5		1	3	1			1 2 4 	1	1 1 	3 1 	1	17 1 	1 3	5 63 71 13 161 1 2 1 23
36 34 1	19	9 20	5	- -	1 1	7 19	3 26	56	6	25 21 1 1 1 1		14 1 1 1 1	14	-	-	::	-	58	1	7	18	58 1 2	411 1 2 1	18	7	30 21 1 2 2 3 3 1 1	17 1	19	20 1 1 1	17	_	219 213 3 2 1	2,519 2,129 95 138 88 21 14 29 5 32 91
1 7 3	1	1	5	1 4 6		5 3	1 1		1 1	7		12 4			3			١.	6	8	10	11				4	1	1 11 1	11	10	3	15 7	647 281
4 3		1	1	2 .	2	1 .			1	1 1	2	2	1	. 8	1	2			1 1	1	1	2	2 2				3	3 2 1	1	2	3		148 129 71
9 2 5 2 2 1	1	3	7 1	0 1 . 4 . 6 1	9	6 .4222 213	1 29	1	2	10	16 13 4 8 8 3 3 3 3 3 3 3	10	3	2 1		1 1 4	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	10	2 1	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 11 11 11 11 11 11 11 11 11 11 11 11	1 18	3	1	2	3 9	11 1 2 4 1 1 7	1 5 6	14 2 3 1 1 1 8	5	13 9 8 3 	750 118 75 118 355 107 16 45 51-

TABLE Showing Total Deaths by Individual

N.BFirst line shows totals inc	luding (itie	s an	d To					llin					xclu		
CAUSES OF DEATH.	Total.	Algoma.	Brant.	Bruce,	Carleton,	Dufferin.	Elgin.	Еввех.	Frontenac.	Grey.	Haldimand.	Haliburton.	Halton.	Hastings.	Huron	Kenora,
II.—Diseases of the Nervous Statem and of the Organs of Special Sense.								i								
Group Total	2,157	21	36	86	46	22	48	54	27	61	26	s	24	57	75	2 2
60. Encephalitis 61. Meningitis 62. Locomotor Ataxia 63. Other diseases of the spinal cord 64. Cerebral hæmorrhage, apoplexy 65. Softening of the brain 68. Paralysis without specified cause	18 88 887 19 353	2 2 6 1 5	20 1 6	47		6 7	2 22 9	23	14		₉	1 1	1 1 9	25	45	
67. General Paralysis of the Insane. 68. Other forms of mental alienation 69. Epilepsy 70. Convulsions (non-puerperal) 71. Convulsions of infants 72. Chorea 73. Neuralgia and neuritis 74. Other diseases of the nervous system	154 124 21 223 7	1 4	2	12	5	::::	4	8	3 1 2	3 6 1 5	4	1	4		3 1 1	1
75. Diseases of the eyes and their adnexa 76. Diseases of the ears	6	<u>::::</u>			::::		::::		<u>::::</u>	::::	: : : :	i	::::		:::	
III.—Diseases of the Circulatort Statem.														1	İ	
Group Total	2.783 9 39 1.841	22	54 		69 51	47 3 27			24	83 1 2 65	49 	1 6	23	60		-
 Diseases of the Arteries, atheroma, aneurysm, etc Embolism and Thrombosis. Diseases of the veins (varices, hæmorrhoids, phlebitis, etc.). Diseases of the lymphatic system (lymphenses) 	744 46		17 1	20 1	14	14	22 2	28 1		15	13 1		12 1			
angitis, etc.) 85. Hæmorrhage; other diseases of the circulatory system				2		1								1		
IV.—DISEASES OF THE RESPIRATORT SYSTEM. Group Total	2,754	35	58	78	99	12	46	64	5 3	79	32	16	31	93	10 0	8
86. Diseases of the nasal fossae. 87. Diseases of the Larynx 88. Diseases of the Thyroid Body 89. Acute Bronchitis 90. Chronic Bronchitis 91. Broncho-Pneumonia 92. Pneumonia 93. Pleurisy 94. Pulmonary congestion, pulmonary apoplexy 95. Gangrene of the Lung 96. Asthma. 97. Pulmonary Emphysema.	106 188 303 1,926 54 57 2 83	3 4 5 21 1	1 4 9 41 1		5, 3, 10, 74, 2,	5	1 3 2 36 2 1	1 3 4 8 42 3 1	3 2 46	1 1 1 9 4 56 3 2	1 3 26 1	2 2 1 11			1 3 19 9 62 2 1	
98. Other diseases of the respiratory system (tuberculosis excepted)	11						••••			1					_2	<u>:</u>
V.—DISPASES OF THE DIOESTIVE STSTEM. Group Total 99. Diseases of the Month and adnexa 100. Diseases of the Pharynx 101. Diseases of the Oesophagus 102. Ulcer of the Stomach 103. Other diseases of the Stomach (cancer excepted) 104. Diarrhœa and Enteritis (under 2 years) 105. Diarrhœa and Enteritis (2 years and over) 107. Intestinal Parasites 108. Appendicitis and typhlitis 109. Hernia, Intestinal Obstructions	17 5	2 4 1		37 1 3 1 	45 1 1 5 29 1	1	6 3	49 	16 1 1 1 1 1	35 3 5 1 4	1 2 3 1	::::	8 	- 1	3 5 1	- 2 2

No. 10.—Continued.

Diseases in each County, 1918.

went.	Lambton.	Lanark.	Leeds and Grenville.	Lennox and Addington.	Lincoln.	Manitoulin.	Middlesex,	Muskoka,	Nipissing.	Norfolk.	Northumberland and Durham.	Ontario.	Oxford.	Parry Sound.	Peel.	Perth.	Peterborough.	Prescott and Russell.	Prince Edward.	Rainy River.	Renfrew.	Simcoe.	Stormont, Dundas and Glengarry.	Sudbury.	Thunder Bay.	Timiskaming.	Victoria.	Waterloo.	Welland.	Wellington.	Wentworth.	York.	Grand Total, including Cities and Towns.	N.m bere.
6	51	24	92	28	38	10	74	19	15	5 3	91	41	73 —	26	21	33	23	55	30	6	-25	88	100	16	4	26	26	54	40	46	120	163	3,753	
1 2 7 1 1 · · · · · · · · · · · · · · · · ·	3, 4 32 1 4	2 1 11 1 4 1	1 1 1 32 1 16 5 21 1 1 8 	2 14 1 4 2 1 1 1	222 8 2 2 2 2	3	1 3 6 3 9 2 2 1 1 · · · · · · · · · · · · · · · ·	1 1 3 4 2 3	1 1 1 1 1 1 6 	10 8 21 10	3 4 42 2 2 20 1 2 1 7	1 1 1 23 3 3 1 1 8	10 25 10 2 25 10 2 2 3 3 3	9 1 1 2 10	8 6 3 1 3 3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 3 9 2 2	**************************************	17 16 2 	1 1 1 3	1 2 7 5	2 1 5 36 1 12 1 1 15 	2 10 4 58 2 2 6 1 1 1 1 1	2 5 2 2 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 8 1 8 · · · · · · · · · · · · · · · ·	4 10 6 1 2 3	3 1 2 20 5 13 1	16 16 15 1	3 2 21 8 3 2 1	1 2 3 2 16 1 16 12 48 12 · · · · · · · · · · · · · · · · · ·	3 2 6 39 1 233 1 63 8 3 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50 299 35 166 1,491 37 563 69 219 171 30 428 11 22 129	666666666677777777777777777777777777777
0	68	5 9	135	42	45	-4	114	40	15	79	124	60	72	31 —	35	55	29	69	57 —	10	47	126	91	15	5	20	12	56	69	74	73	138	5,252	
9	40	2 41 1	67	33	37	···· 4	2 70 4	32	13 1	61	1 84 4	1 44 2	$\frac{1}{48}$	24 1	1 15 6	35	1 19	41 4	39 39	7	1 34	71 5	1 65 3	1 14	4		1 23 1	1 36 2	2 41 1	53 1	1 45 2	6 79	17 127 3,321 161	7
	24	12	58 2	8	7		37	6		15	31	12	21 1		12	16	8		15	3	11	11 2	21	::	1	1	- 1	15	25	14	24	42	1,461 107	8:
								1			1							1				• • •	• • •	• •				••		• • •			11	8
1			1				• • •		• • •	1		1			1			 2			1	1			••'		1 .	••		1		2	11 36	8
2	72	61	76	23	61	42	79	34	28	43	88	48	60	66	32	53	27	115	26	18	73	107	89	45	4	79	25	57	69	53	47	178	6,643	
6	-				1		···	12	18	1		26	1	1 2 1	- -	-		1		8	24	45	54 1 6 1 3 1		1	1 31	1 .	19	34		2	<u></u>	2 31 22 241 276 4.660 128 99 5 145 3	81 81 91 91 91 93 93 94 91
																-		1	_										1	1 1	i	3	5 37 8	100
1 .		9	3	1	1	1	1	3	1	2	2	1 3	1	• •	1	5	1	•••	1	2	4	8	2	2				1 .	2	1		8	75 210	103
9	10	1		1	3	:::	2 2	1			5	13	3	2	1	.	[.	- 11	1 1 2		1	10 11	11 2	22	1,1	2		3	20			22	845 135 5 266	103 103 103

TABLE Showing Total Deaths by Individual

N.B -First line shows totals, include	ling Citie	es an				_	ota ond l					_				
CAUSES OF DEATH.	Total.	Algoma.	Brant.	Bruce.	Carleton,	Dafferin.	Elgin.	К вех.	Frontenac.	Grey.	Haldimand.	Haliburton.	Halton.	Hastings.	Haron.	Kenora.
	1	<	m	1 ==	5	1 =	ER		1	0	P		P			×
V.—DISEASES OF THE DIGESTIVE SYSTEM—Con. 110. Diseases of the Intestines. 111. Acute Yellow Atrophy of the Liver 113. Cirrhosia of the Liver 114. Biliary Calculi 115. Other Diseases of the Liver 116. Diseases of the Spleen 117. Simple Peritonitis (non-puerperal) 118. Other diseases of the digestive System (cancer and tuberculosis excepted)	32 23 68 6 93		2	2 3 1 9		1	1	1 1 2 1 2	1 2	1 1 1 1	1 3		···	 1	1	
VINon-Venereal Diseases of the Genito- Urinary System and Annexa.		_			_								_			
Group total	772	6	7	33	11	6	27	31	8	23	11	2	17	22	40	3
119. Acute Nephritis	578		6	3 20			26	5 21	1 5	1 13		2	2	3	2 30	
121 Ohyluria 123. Other Diseases of the Kidneys and Annexa 123. Oalculi of the Urinary Passages 124. Diseases of the Bladder 125. Diseases of the Urethra, Urinary Abscess, etc.	8 35 4 21				1			1 	 	1 2 				3	1	
 126. Diseases of the Prostate 127. Non-venereal diseases of the malegenital organs 129. Uterine Tumor (non-cancerous). 130. Other Diseases of the Uterus 131. Oysts and other Tumors of the Ovary 132. Salpingitis and other Diseases of the Female 	55 5 3										 1				5	
Genital Organs										_1	:				_1	
VII.—The Puerperal State.					١.											
Group total	132		-	3	-4	-		-4		3				5		6
 134. Accidents of Pregnancy 135. Puerperal Hæmorrhage 136. Other Accidents of Labor 137. Puerperal Septicæmia 138. Puerperal Albuminuria and Convulsions 139. Puerperal Phlegmasia Alba Dolens, Embolus 	16 38 37 31		1	1 2	2	1		1 1 1		 1 1				1	•••	5
Sudden Death									:::		:::				• • •	
VIII.—DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE			1													_
Group total	126	1		4	3	1	3	3		5	1		1	3	6	• •
142. Gangrene	88 2 30	1		3	3	1	21		:::				 1		 4	• • • • • • • • • • • • • • • • • • • •
145. Other Diseases of the Skin and Annexa IX.—Diseases of the Bones and of the Organs of Locomotion	6												:	-		-
Group total	8												1			
146. Diseases of the Bones (tuberculosis excepted) 147. Diseases of the Joints (tuberculosis and rheumatism excepted)	8												1			
149. Other diseases of the organs of locomotion							<u></u>		···	:::	<u></u>					:: <u> </u>
X.—CONGENITAL MALFORMATIONS																
Group total	77		-3	4	1	2		_2		4	- 1	2	2		_2	
150. Congenital Malformations (still-births not included)			-5	4	1	.2	ļ	.3		1	1	?	3	2	2	

No. 10.—Continued. Diseases in each County, 1918.

	ton,	· K	Leeds and Grenville.	Lennox and Addington.	ln.	Manitoulin.	lesex.	oka.	sing.	olk.	Northumberland and Durham.	io.	.d.	Parry Sound.	And the second s		Peterborough.	Prescott and Russell.	Prince Edward.	Rainy River.	rew	oe.	Stormont, Dundas and Glengarry.	nry.	Thunder Bay.	Timiskamıng.	oria.	noo.	Wellington.	Wentworth.		Grand total, including Cities and Towns.	Dores.
Kent.	Lampton	Lanark.	Leeds	Lenno	Lincoln.	Manit	Middlesex	Muskoka.	Nipissing.	Norfolk.	North	Ontario.	Oxford.	Parry	Peel.	Perth.	Peter	Presc	Princ	Rains	Renfrew	Simcoe.	Storn	Sudbury.	Thun	Limi	Victoria.	Waterioo.	Welli	Went	York.	Grand	Vumbers
4 1 1 1 	 1 2	1 2 1 2	1 2 1 6	 1 1 1		1 	 1 9				1 3 	2	 2 2 2		1 2 		1	1 3 	 2 	1	 1 2 	3	1 3 6	1		3	1 1 1 1	1	1	1 1 1 2	1 3	64 44 136	11 11 11 11 11
15	19	1?	36	17	16	3	23	7	;;	30	37	23	13	15	-36	23	9	21	-6	1	14	24	30	·3		ĩ	: 1	4 1	9 1	8 11	33	1,521	
- 2 12 	13	9 1 1	30 3	15 1 1	2 12 	1	1 15 1 1 2 1 1	1 5		1 15 1 1	26 4 2	21	8 1 1		1 18 1 1 	16 1 1 1 1 3	1 6		1		2 10 1		!	1		1	1	1 8 1	- -		3	130 1.071 9 80 13 45 11 99 1 15	12 12 12 12 12 12 12
<u></u>				:							<u></u>			<u></u>		···						:-	::	!	••	-	- -	-	- -	-	-		13
2 	1	6 2 1 1 1 1 1 	1 1	1 1 2	1		1 3 2	1	2 2 	1 i 	6 2 2 2		1 2		2		1 1 1 1 1	7 1 2 1 3		2 1 	6 1 2 3	1	8 :3 :32 ::	9 2 4 3		3 - 2 - 2 - 1	1	- -	2	1	1	26 63 92 70	13 13 13 13
3	3	3	5	2		2	5				11	3		2	3			3	1		4			2			3	3	3	1 :		209	
2 ::	1 2	3	3 1 1	2	2 1	2	4	1	i	3	9	3	1	1	3			1 1 1 1			2	-4 	8 ::	- 1	:- :::	1	2	2	1 .	1 3	-	56	-
<u></u>	 	1					1				1							1				3										2	14 14 14
7		3	_				2		2		2	1	_1	2								2	3	3	_1	-		2	1	6	5 5	230	

TABLE
Showing Total Deaths by Individual

					S	how	ing	To	tal	De	atl	hs	bу	ln	div	'idı	ual
	CAUSES OF DEATH.	Total.	Algoma.	Brant,	Bruce,	Carleton,	Dufferin,	Blgin.	Essex.	Frontenac,	Grey.	Haldimand.	Haliburton.	Halton.	Hastings.	Huron.	Kenora,
		1	V	<u>x</u>	æ	o o	<u>a</u>	2	2	Œ,	C	=	=	Ξ	=	=	×
	XIDISEASES OF EARLY INFANCY.																
	Group total	1,513	17	20	34	36	14	21	61	53	30	18	5	26	23	31	5
152.	Congenital Debility, Icterus, and Sclerema Other Diseases peculiar to Early Infancy Lack of Care	1,501 3 9		20	34	35		20		23	29 1	18	5	26		31	5
154	XII.—OLD AGE.																
	Group total	1,742	12	30	73	38	20	35	30	47	67	28	6	25	42	77	12
y	IIII. Affections Produced by External Causes.																
	Group Total	898	10	14	15	6	8	12	21	4	26	9	5	10	36	24	15
156. 157. 158. 159. 160. 161. 163. 164. 165. 166.	Suicide by poison Suicide by asphyxia. Suicide by hanging or strangulation Suicide by drowning. Suicide by firearms. Suicide by cutting or piercing instruments. Suicide by jumping from high places. Other Suicides. Poisoning by food Other acute poisonings. Conflagration Burns (conflagration excepted). Absorption of Deleterious Gases (conflagration excepted) Accidental Drowning.	14 3 1 9		1				1	2 1 	1	1 1 5	1	1	2 1 1 2	1		
170.	Traumatism by firearms	36	2	••••	1	••••			•••			اا		•••	2		3
173. 174.	ments Traumatism by fall Traumatism in mines and quarries. Traumatism by machines. Traumatism by other crushing (a) Railroad (b) Street car (c) Automobile	4 15		1	2		3	3	1 2 		1 3		1	1		₂	1
177.	(d) Other crushing. Injuries by animals Starvation. Excessive cold.	74 16 2	::::	::::			• • • •					1			14	1	
180. 181. 182. 183. 184. 185.	Effects of heat. Lightning Rectricity (Lightning excepted). Homicide by firearms Ilomicide by cutting or piercing instruments Homicide by other means Fractures (cause not specified).	1 1 121	1	1			::::		1		1			:::	6	 3	
186.	Other external violence	100				1					-2	2	1	1	_3	-6	···
	Group Total	156	1	3,	9	6			2	5	6	1	2	2		1	24
188.	Ill-defined organic disease	2 20 134	 i		₂	6			···· 1	1 4	4 2	1	2			1	24
	STILL-BIRTHS.										-		- -				_
	Not included in Totals	1,142	20	18	49	28	10	11	37	5	22	15	13	17	22	30	

No. 10.—Concluded.

Diseases in each County, 1918.

Kent.	Lambton.	Lanark.	Leeds and Grenville.	Lennox and Addington.	Lincoln.	Manitoulin.	Middlesex.	Muskoka.	Nipissing.	Norfolk.	Northumberland and Durham.	Ontario.	Oxford.	Parry Sound.	Peel.	Perth.	Peterborough.	Prescott and Russell.	Prince Edward.	Rainy River.	Renfrew.	Simcoe.	Stormont, Dundas and Glengarry.	Sudbury.	Thunder Bay.	Timiskaming,	Victoria.	Waterloo.	Welland.	Wellington.	Wentworth.	York.	Grand Total including Cities and Towns.	Numbers
- -	34	17	27 27 	16 15 	23	12 12 	23 22 1	21 21 	38 38 	21 21 	47	34	19	32 32 	24 24 	-		136	_	-	-	-	52 52		13	70 70	14	25 25 	28 28 	29 29 	20 20 	115 113 ₂		15 15 15
40	41	41	63	40	19	14	36	16	16	29	96	40	42	18	27	40	22	39	23	6	42	79	71	17	3	-7	28	36	25	53	69	65	2,554	15
20	111 1 1 2 1	133 	233	14	20 - 2	8	15 1 1	24	19	13	3 1 1 2 4	19	177	-	14 	13 1 1 1 2	15	19 2 4	15 2 1	9 1 1 3	21	41 	19	1 2	6	39	8	21 2 1 3 4	51 4 3 4	12	18 1 1 2	53 	11 27 10 16 11 1 9 82 22 179 86 275	160 161 161 161 161 161
6 3 1 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1			9	1		1 1 1 2	1 2 1 2	1 1 1 4 2 2		1 2 2 2	1 2 1 1	1	1	1	2	3 3 1 2	1		1 2	2 1 16 1 15 1 2 3 4	3 1 2 1	1 1 1	2.2	2 7 6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1	8 7 1 1 4 7 9	1 2 1 1 1 1 1 1 4	2 2 1 1 1	14 6 17 7	14 30 307 124 18 59 106 20 27 17 13 16 29	17: 17: 17: 17: 17: 17: 17: 18: 18: 18: 18: 18:
3	3	1 1	1 1		1	_	 2	· · · · · · · · · · · · · · · · · · ·	4	2	1 2	···· i		1 3	- : : :-	1			- 	2	5	1 2	1 2			4		··· i	 1 3		3	∞ : : : ∞	278 5 30 243 1,339	183 188 189

TABLE No. 11.

Table Showing Total Deaths by Individual Diseases in each City.—1918.

OF	FIGIAL ENGLISH TRANSLATION. (Diseases and Causes of Death.)	Total.	Belleville.	Brantford.	Chatham.	Fort William.	Galt,	Guelph.	Hamilton.	Kingston.	Kitchener.	Niagara Falls.	London.	Ottawa.	Peterborough.	Port Arthur.	St. Catharines.	St. Thomas.	Sarnia.	Sault Ste. Marie.	Stratford.	Toronto.	Welland.	Windsor.	Woodstock.
	Grand Total	18.771	234	576	283	300	238	262	1.756	582	324	247	1.151	2.290	332	221	343	279	238	403	242	7,635	218	486	131
	IGeneral Diseases.																								
	Group Total	6682	59	247	103	132	98	93	685	226	133	109	337	657	104	103	123	88	73	148	103	2765	100	163	31
1.5.6.7.8.9.10.13.14.118.120.221.224.226.333.334.3354.3354.44.45.49.551.555.555.555.555.555.555.555.555.55	the Stomach, Liver. Cancer and other Malignant Tumors of the Peritonæum. Intestines, Rectum Cancer and other Malignant Tumors of the Female Genital Organs. Cancer and other Malignant Tumors of the Breast. Cancer and other Malignant Tumors of the Skin Cancer and other Malignant Tumors of other organs or of organs not specified. Other Tumors (tumors of the female genital organs excepted). Acute Articular Rheumatism. Chronic Rheumatism and Gout	1 1 66 52 52 52 52 52 52 52 52 52 52 52 52 52	86.22.33.33.33.33.33.33.33.33.33.33.33.33.	1 1 1 1 5 5 1 6 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111111111111111111111111111111111111111	5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	5 60 1 1 10 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25 10 10 8 5 5 5 10 8 8 5 5 5 22 25 25 25 25 25 25 25 25 25 25	1 1 1 3 1 1 1 0 1 1 1 5 1 1 1 0 1 1 1 1 1 1 1 1	95	91 4 2 1 1 1 5	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6 11 28 257 4 2 257 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	23 16 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	216658	1119922	1 1 23 3 3 3 3 3 4 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 4 4 8 8 0	74 1 2 1 1 1 2 2 1 2 2 1 1	1100 1177 21 31 12 22 363 240 477 466 53 447 427 427 428 120 127 59 25 60 136 61 61 61 61 61 61 61 61 61 6	111 9	3 9 86 2 1 20 1 20 1 2	3 3
59.	Ohronic Lead Poisoning		1			-					::				-			-					13		
61 62	Group Total. Encephalitis	3 14	1 -	4 1	-	: -	18	2	1	1 5		3	2 8	3 1		1 15		1 1	- -	1		50°	1	7 1	1 3

TABLE No. 11-Continued.

OFFICIAL ENGLISH TRANSLATION. (DISBASES AND CAUSES OF DEATH.)	Total.	Relleville	Brantford	Chethern	Cuatuam.	Calt William.	Guelph.	Hamilton.	Kingston.	Kitchener.	Niagara Falls.	London.	Ottawa.	Peterborough.	Port Arthur.	St. Catharines.	St. Thomas.	Sarnia.	Sault Ste. Marie.	Stratford.	Toronto,	Welland.	Windsor.
II.—Diseases of the Nervous System and OF the Organs of Special Sense.—Con.	b																	1					
64. Gerebral hæmorrhage, apoplexy. 65. Softening of the brain	15 177 28 65 67 37	6 1	4	1 3		9 1 1 1 1	1 2 4	 8 1	5	i	1	31 7 8 30 10 2 6	31 4	6 	1	4 1 ?	9			1	'	1	4
 Neuralgia and Neuritis. Other Diseases of the Nervous System. Diseases of the eyes and their annexa. Diseases of the Ears. 	53		1		1	::		6				3	3	1	1 .			ή.	' .	;	3	1	1
IIDISEASES OF THE CIRCULATORY STSTEM.																							
Group Total	2146	28	55 	13	18	51	46 1	99	91	27	33	156 5		1	_ (- 1	1		37 :		0 1	5 6	ĩ
77. Pericarditis	1256 78		33	25 3	13 1	18	15 1	6 27 2	61 2	24	1 12	4 84 6	3 10 49 4	1 35 3	1 11	18	27	1 8 2	1	1 4 23 47 . 4	9	33	3
Aneurysm, etc	643	6	17	15		3	29 •••	55 5 2.	1	1	1	57 3	59	13		8	2 3	5	5 1	1 2	8 1	-	2
84. Diseases of the Lymphatic System (Lymphangitis, etc.) 55. Hæmorrhage; other Diseases of the Cirulatory System	. 8				1	- 1			1 .		- 1	2			• • •		. .	.			1	1	
V.—DISEASES OF THE RESPIRATORY STETEM.																							Ï
Group Total	3388	40	97	35	4:2	33	28-26	64 8	85 3	55 :	33 2	39,5	21	50	28 3	52 1	4 40	6	1 2	5 1486	3 36	74	1
36. Diseases of the nasal fossæ. 37. Diseases of the Larynx. 38. Diseases of the thyroid body. 39. Acute Bronchitis. 30. Chronic Bronchitis. 41. Broncho-pneumonia. 32. Preumonia. 33. Pleurisy. 44. Pulmonary Congestion, Pulm. Apoplexy.	12 14 117 78 626 2370 66	1 5 31	1 2 10 80	1 9 26 1	1 27	4 27	1 3 23 10	1	3	1	1 5 5	SS 38	2 . 5 . 8 . 3 . 7 . 1 .	6 6 37	4	1.4	3 5 5 5 1 31 1	5 1	5 2 1 2	1 70 1 21 1 340 1 937 1 35	2	1 1 3 68	1
5. Gangrene of the Lung	51 1	1	1		3			4	1			3	5.		2	i .	.			. 1 2: . 1			
(tuberculosis excepted)		-		- -	-	-		-,-	2	1	-	4	2		-	1 .	-	-	1				-
Group Total	11891	9	26	15	25	8.1	2.10	5 9	13 1	S 1	7 :	50.00	1	0	ر. اي	9 2	2.01	•)•		488	16	21	
Diseases of the Mouth and Annexa	3 .			1	1'.					-	. -		- -	-	-	1 .				-			
1. Diseases of the Oesophagus	37		 				i	_	2		\cdot	3	3			1	1	1		13	1	2	
5. Diarrhœa and Enteritis (2 years and over) 7. Intestinal Parasites	146 65 1 121 147		3		14	i ·	2 3 1 1 . 1	6	3	2	1	3 1 7 1t 2	6 3 • • • •	,	6	3 1	1 13 1	16	1	170 46		6	
O. Diseases of the Intestines L. Acute yellow at ophy of the liver L. 3. Cirrhosis of the Liver L. Biliary Calculi Other Diseases of the Liver L. 3. Other Diseases of the Liver L. 4. Biliary Diseases of the Liver	44 . 2 . 31 . 15 .		2/ 1,	4	i .	1	i,	6 4 1	2	i	1	1 · · · · · · · · · · · · · · · · · · ·	6	1	1	: i				18 1 11 8	1	1	1
6. Diseases of the spleen. 7. Simple Peritonitis (non-Puerperal). 8. Other Diseases of the Digestive System (cancer and tuberculosis excepted)	64 € 88		4	3	3.	21.) 1		3	1					2 3				2		1	

TABLE No. 11 — Continued.

OPPICIAL ENGLISH TRANSLATION. (DISEASES AND CAUSES OF DEATH.)	Total.	Belleville.	Brantford.	Chatham.	Fort William.	Galt.	Guelph.	Hamilton.	Kingston.	Kitchener.	Niagara Falls.	London.	Ottawa.	Peterborough.	Port Arthur.	St. Catharines.	St. Thomas.	Sarnia.	Sault Ste. Marie.!	Stratford.	Toronto.	Welland.	Windsor.	Woodstock.
VI.—Non-Venereal Diseases of the Genito-Urinart Ststem and Adness.						-															j			
Group Total	673	-	h	12	5	6	8	83	20	5	9	57	85	16	4	16	8	15	10	7	252	7	30	3
119. Acute Nephritis	1		6		•••			63	14			3 44 		•••	ļ	•••		1 13 	• • •		139	•••		·
Annexa 123. Calculi of the Urinary Passage. 124. Diseases of the Bladder. 125. Diseases of the Urethra, Urinary Abscess, etc.	00 00	1	• • •	···i				3		• • •	 	3	:::			3		::	:::		10			
126. Diseases of the Prostate	12																				13	1		
123. Uterine Tumor (non-Cancerous) 130. Other Diseases of the Uterus. 131. Cysts and other Tumors of the Ovary. 132. Salpingitis and other Diseases of the Female Genital Organs.	11	::					::		1			•••	1			• • •)	7			•
VIITHE PUERPERAL STATE.																								_
Group Total	149	<u></u>		_			_						25 - —		2		<u> </u>	2	_4	$-\frac{3}{}$	70		-7	<u>··</u>
134. Accidents of Pregnancy. 135. Puerperal Hæmorrhage. 136. Other Accidents of Labor. 137. Puerperal Septicæmia. 138. Puerperal Albuminuria and Convulsions 139. Puerperal Phlegmasia Alba Dolens. Em-	9 24 49	:: :: ::	:::			1	::	2	i		1 1 1 1	 i	1	• • •	••••		• •	••	2 1 1		6 11 27	1	2 1 1 2 1	••
bolus. Sudd 'n Death	2		· • ·	· · ·					· · · · · · · · · · · · · · · · · · ·								1							 <u>:-</u>
VIII.—Diseases of the Skin and of the Cellular Tissue.									,															
Group Total	90	1	-2	1		3	2	_13 			-2						-	11	•••	-3	33			2
142. Gangrene	50 8 24 8	1				2	1	5			2		3	.	1	1	i	2		2 1	3 6			1
IX.—Diseases of the Bones and of the Organs of Locomotion.																								
Group Total	-	<u></u>						1	5					···	1	-2	-:	-			8			<u></u>
146. Diseases of the Bones (tuberculosis excepted)	12	 		• • • •								• • •		• • •			 				2		- 1	
X.—Congenital Malformations.	1																							
Group Total	i	1	2	1	3		1	5	•••	1	1	3	13	5	1	3			1	1	98	•••	3	1
150. Congenital Malformations (stillbirths not included)	143	1	2	_1	3	-	1	5	: :-	1	_1	3	13	-5	1	3	-		1	_1	98		3	<u>i</u>
XI.—DISEASES OF EARLY INFANCY.	Ì																							
Group Total	1425	24	33	21	32	11	18	138	44	24	19	72	249	20	16	31	22	18	50	14	496	19	46	8
151. Congenital Debility, Icterus and Sclerema	76		33			ļ			44						16		22	18	49	14	417 76 .3	18	46	8

TABLE No. 11.—Concluded.

		_								_	_		_								_			_
OFFICIAL ENGLISH TRANSLATION, (DISEASES AND CAUSES OF DEATH.)	Total.	Belleville.	Brantford.	Chat'sam.	Fort William.	Gast.	Guelph.	Hamilton.	Kingston.	Kitchener.	Niagara Falls.	London.	Ottawa.	Peterborough.	Port Arthur.	St. Catharines.	Thomas.	rnia.	Saunt Ste. Marie,	Stratford.	Toronto.	Welland.	Windsor.	Woodstock.
4	T.	ಷ	Б	5	F	စ်	ē	Ē	3	3	z	3	õ	Pe	Po	S.	St	Sa	Š.	S	$_{\rm To}$	=	=	ž
154 XII.—OLD AGE.							,								1									
								-																
Group Total	667	30	39	18		15	17	-56 	-21	24	6	70	63	16	5	- 9	18	10	4	24	205	5	8	12
XIII.—Affections Produced by External Causes.																								
Group Total	735	ç	21	12	19	5	10	83	19	8	14	34	71	12	9	8	13	8	29	5	308	9	20	9
155. Suicide by Poisou	12	ļ						1				- <u>-</u>								1			2	
156. Suicide by Asphyxia	10	۱						1				1								1	8]	
157. Suicide by Hanging or Strangulation	9	١٠٠	1	• • •		• •	1	• • •	• • •	• • •		.3	5	• • •	• • •	• • •			• • •		3		٠٠.	٠.
159. Suicide by Firearms		1::											1	• • •	:::				· i					
160. Suicide by Cutting or Piercing Instru-		l																.						
ments		ŀ··	• • •	• • •	• • •	• •	i	1	• •	• • •	• • •	1	1	• • •		• • •	1	• •			2			
165. Other Acute Poisonings	44	1::	···i		1			6	3	i		4	5	3	2	1	11	1	2	!	12	:::		1
166. Conflagration	9					١		- 1					5						2		3	1 1	!	
167. Burns (conflagration excepted) 168. Absorption of Deleterious Gases (con-	78	ŀ:	3		4	1	1	7	3	• • •	3	5	5	2	3	4	1	4	2		25	2	3	
flagration excepted)	0.5																						1	• •
169. Accidental Drowning	60	5	3	3	- 3		2	6	4		5	5	5	1		1			4	1	20		1	
170. Traumatism by Firearms		3	1					5					1					1	4		3		1	
173. Traumatism in Mines and Quarries			1		• • •	1	• •	3	1	1 9	• • •	3	б	• • •	• • • •	• • • •		- '			11			
174. Tranmatism by Machines	1 15	::															1			1 1	14		!	
(a) Railroad	139	1	1		1	1		15	1	1	4	4	8	1	2		1	1	3		74		9	5
(b) Street car	14	l::	• • • •		1		• •	-2	• • •	-1	4	3	1	1	2		1	1	1		10		4	3
(c) Automobile	44	j	1					3				1	ĝ								31		- 4	Z
(d) Other crushing	30	1			.5	٠.		6	1							• • •	• •	• •	5		17		1	٠.
178. Excessive Cold																						:::		• •
179. Effects of Heat	. 5																				5			
180. Lightning	. 4	ł.,			. 1			!	!	1			- 3		1	!	!	!						
182. Homicide by firearms	11	l···	• • •			• • •			• • • •	• • • •	•••	• • •	• • •	• • •	1	• • • •	• • •		• • • • •	:::	8		1	
183. Homicide by cutting or piercing instru-		١.,			ł			- 1					,		1	- 1	1 {	1	1 1	1				••
ments	1		• • •	٠	• • •		• •	• • •	• • •		• • •		1	• • •		• • •	• •			• • •			• • •	٠.
185. Fractures (cause not specified)		l'i	₃		3	• •		18				8	13				• =				6	•••		9
186. Other External Violence	71		6	5	1	2	1	14	3		2	3	11	2			2	1	4	 1 1	7	1		ĩ
	_	-				-	-										-	-						_
XIV ILL-DEFINED DISEASES.	1							ı																
Group Total	110	4	4			5	3	2	3	2	.3	7	14	1	3				3	3	55		2	
187. Ill-Defined Organic Disease	3	<u> </u>	. 1		l		1 1	1		l 1	1			'	- 1		5	1	. !	l I				-
188. Sudden Death	8	ļ.,										1	1		1						5			
189. Cause of Death not Specified or Ill- defined		1			ĺ	l l	1	- 1				6		- 1	1	- 1	li		1 1	3			9	
~~ мини	- 99	_*		•••		_ z	3				1		15						- 3		46		_==	<u>. </u>
Still-Births.		1																						
																		. 1						
Not included in totals	1125	11	28	17	23	15	12	157	28	23	9	45	• • •	29	27	28	19	19	36	14	521	12	38	14
	1			_		_		1		- 1					,	-		!					- 1	_

TABLE No. 12.

Table Showing Total Deaths by Individual Diseases in each Town of 5,000 population, 1918.

-	,	i	-	-		-	-		-	-		_	1	_			-	- 1			_
OFFICIAL ENGLISH TRANSLATION. (Diseases and Causes of Death.)	Total.	Barrie.	Brockville.	Cobalt.	Collingwood.	Cornwall.	Ingersoll	Kenora.	Lindsay.	Midland.	North Bav.	Orillia.	Oshawa.	Owen Sound.	Parry Sound.	Pembroke.	Renfrew.	Smith's Falls.	Sudbury	Trenton.	Walkerville.
Grand Total	3,241	9.2	252	ž	131	243	80	137	132	167	177	138	207	174	103	226	136	150	408	133	62
IGENERAL DISEASES.	_								1				1								_
Group Total	1,284	-29	107	32	53	101	20	53	41	68	61	35	64,	53	57	98	74	62	214	30	29
1. Typhoid Fever. 5. Smallpox 6. Measles. 7. Scarlet Fever. 8. Whooping Cough 9. Diphtheria and Croup 10. Induenza. 11. Miliary Fever. 12. Cholera Nostras. 14. Dysentery. 18. Eryslpelas. 20. Purnlent Infection and Septicemia. 24. Tetanus.	29 1 6 6 20 23 776 1 1 4 6 16	i i	1 2 43 1	25 1	1 1 33		 1 4	37	1	1 51	::1	1	1 3 46	1 22	30	2 6 58 1	1 62	5 1 30	2 1 3 4 163 	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 1 14
Total deaths from tuberculosis	147	6	16	2	9	18	2	4	6	1	4	2	6	8	12	14	5	-8	17	5	2
98. Tuberculosis of the Lungs 30. Tuberculosis of the Lungs 31. Abdominal Tuberculosis 32. Pott's Disease. 33. White swelling 34. Tuberculosis of other organs 36. Rickets. 37. Syphills. 39. Cancer and other Malignant Tumors of the Buccal Cavity. 40. Cancer and other Malignant Tumors of the Stomach. Liver. 41. Cancer and other Malignant Tumors of the Peritomeum, intestines, rectum. 42. Cancer and other Malignant Tumors of the Female Genital Organs 43. Cancer and other Malignant Tumors of the Breast 41. Cancer and other Malignant Tumors of the Breast 41. Cancer and other Malignant Tumors of the Skin. 45. Cancer and other Malignant Tumors of the President of the Malignant Tumors of the Skin. 46. Cancer and other Malignant Tumors of the Skin. 47. Acute Articular Rheumatism 48. Ohronic Rheumatism and Gout 50. Diabetes. 51. Exophthalmic Goitre 53. Leuchamia 54. Answnia, Chlorosis 55. Other general diseases 56. Alcoholism (Acute or Chronic)	1300 17 5 5 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5 1	14 2 1 7 1 3 2 2 3 8	1		17 1	1 1	5	5 1 2 2 1 3 1 2	1	4	2	1 2	6 1 1	111	12 1 1 3 1 3 1 1 1	3 1	8	16 1 1	2 1	1 3
II.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE. Group Total 60. Encephalitis 61. Meningitis 62. Locomotor Ataxia 63. Other Diseases of the Spinal Cord. 64. Cerebral Hamorrhage, Apoplexy 65. Softening of the Brain 66. Paralysis without Specified Cause 68. Other forms of Mental Alienation 69. Epilepsy 71. Convulsions of Infants 72. Chorea 74. Other Diseases of the Nervous System 76. Diseases of the Ear	11 31 85 5 33 2 10 38 1 13	1 6 6	10		2 1 1	1 12 	1 1	8 1 1 1 1 1 2	22 3 1 10 1 5 1		1 2 1 2	1 7	1 3 5	111	5	17	8	14	1 5 3 1 1 3	1	- 1 · · · · · · · · · · · · · · · · · ·

TABLE No. 12-Continued.

	1			_										1	Ī		1	-	1	-
OFFICIAL ENGLISH TRANSLATION. (DISEASES AND CAUSES OF DEATH.)	Total.	Barrie.	Brockville.	Cobalt.	Collingwood.	Cornwall.	Ingersoll.	Kenora.	Lindsay.	Midland.	North Bay.	Orillia.	Oshawa.	Owen Sound.	Parry Sound.	Pembroke.	Renfrew.	Smith's Falls.	Sudbury.	Trenton. Walkerville.
III.—Diseases of the Circulatory																		i	1	
STRTEM. Group Total	323	11	29	2	13	23	11	16	16	12	24	19	25	39	5	18	7	25	14	7 7
78. Acute Endocarditis	4 224 6 75 8	3	20 7 2	1 1 	 8 5	17 1 5	1 9	9	10 1 4 1	2	21 2	1 11 6 1	8	30 1 7 	3	1 13 3 1	6	1 19 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 3
IV DISEASES OF THE RESPIRATORY SYSTEM.																				
Group Total	501	10	49	16	18	36	15	16	35	39.	41	32	46	13	9	20	15	16	51	10 7
87. Diseases of the Larynx 89. Acute Bronchitis 90. Chronic Bronchitis 91. Broncho-pneumonia. 92. Pneumonia. 93. Pleurisy 94. Pulmonary Congestion, Pulmonary Apoplexy	18 18 10 65 364 8	5 1	1 1 2 43	11	1 2 14	1 8 26	2 8 2	 1 12 1	1 1 17 2	 3 35	5 4 30	 2 3 16	4 40	1 3 4		1 16	2 6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 18 28	1 1 3 3 30 3
95. Gangrene of the lung	15 1 11	1 1		::		· · ·			::				1				1			1
97. Pulmonary Emphysema	1		1								1	1								
V.—Diseases of the Digestive System Group Total	208	7	15	10	7	17	6	6	6	6	7	10	10	9	7	17	12	9	35,1	2
100. Diseases of the pharynx	2 5	.:	i		-:	::	::	::	1	::	::	::	::				::	::	i.	
Excepted)	11 74		2	3	·i		1	3	1	3	2	5	7	2	3	8	5	. 63	11	9
over.). 107. Intestinal Parasites	16 30 24 11 1 2 2 20	22 93	1 5 1	1 1 3	1 2 2 1	5 3	1 1		1	1	1 1	1 1 1 1 1 1	2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2	1 1 1 1 1 1 1 1 1 1 1	3 1 2	9 9	1	1
VI.—Non-Venereal Diseases of the Genito-Urinart Statem and Adnexa.	1	•				1		•												
Group Total	76	4	9	2	5	11	6	_1		5	2	7	2	1	1	2	4	4	5	4 4
119. Acute Nephritis	9 48	1 2	• ;	1	3	1 8	6			1	i	5	2	1	1	1	1 3	i		1
Adnexa. 124. Diseases of the bladder. 126. Diseases of the Prostate. 127. Uterine Tumor (noncancerous) 130. Other diseases of the uterus 131. Cysts and other tumors of the ovary 132. Salpingitis and other diseases of the female genital organs	8 4 2 1 2 1	1		1	i 1	2		1		1	1	1						3	1	i
VII.—THE PUERPERAL STATE. Group Total	17				1		3		1		1		1	1		2		1	4.	. 2
134. Accidents of pregnancy	3 1 1 6				··· ·· 1		1 2		1		1		1	1		2		1		. 1
defined)	1	!			!	!						!				!			1.	

TABLE No. 12-Concluded.

		ĺ																į	_	
OFFICIAL ENGLISH TRANSLATION (Diseases and Causes of Death.)	Total.	Barrie.	Brockville	Cobalt.	Collingwood.	Cornwall.	Ingersoll.	Kenora.	Lindsay.	Midland.	North Bay.	Orillia.	Oshawa.	Owen Sound.	Parry Sound.	Pembroke.	Renfrew.	Smith's Falls.	Sudbery.	Trenton. Walkerville.
VIII.—Diseases of the Sein and of the Cellular Tissue.				1											,					
Group Total	17	,	9	;		.2	1		9	.5		1	••)	5				2	1	2
142. Gangrene 113. Furuncle. 144. Acute Abscess. 115. Other diseases of the skin and annexa	13					1 1	1		1	2		1	::	2	::			2	1 	1
IX.—Diseases of the Bones and of the Organs of Locomotion.																;				
Group Total	31		<u></u>		<u></u>			_::		<u>··</u>	<u>.</u> : .		<u>··</u>		<u></u>		••			
X -Congenital Malformations.					1														1	
Group Total	10		- e	• •	1		<u></u>			1			3	1		1	ا	••	••	1 1
150. Congenital malformations (still- births not included)	10		5		1					1			3	1		1	•••			1 1
XI DISEASES OF EARLY INPANCY.																				
Group Total	219	6,	6	16	6	12	5	î	î	15	13	13	23	15	9	25	13	16	20 .	16 6
151. Congenital Debility, Icterus and Sclerema	217 1 1	6	6		6		5		:	15	13		23		9	25	13	15	20	16 6
151. XII.—OLD AGE.	ĺ																			
Group Total	145	14	12		14	19	g	9	î	3	5.	9	6	18		î	2.	2	5	10
XIII.—Appections Produced by External Causes.				10			;			-~;			-							-i-
Group Total	162	1	6_	1			3	20	-î		. S	5	9	11	8,	15	1	-î	40	6
155. Suicide by Poison	0 1 1 1 1 1		i 		::					-5		••	••					· · · · · · · · · · · · · · · · · · ·	1	1
167. Burns (Conflagration Excepted) 168. Absorption of deleterious gases (con- flagration excepted)	37 5	••	1		1			6.	1		••	i		2		4		•		1
169. Accidental Drowning. 170. Traumatism by Firearms 172. Traumatism by Fall. 173. Tranmatism in mines and quarries. 175. Traumatism by Other Crushing. (a) Railroad. (d) Other crushing.	32 10 1 2 25 25		1 1 1	1	1			6 1 1 : 3 3	1	1	· · · · · · · · · · · · · · · · · · ·		1	1	1 2 2	1 2	i	1 4 4	13 3.	1
178. Excessive cold. 181. Electricity (lightning excepted). 185. Fractures (Cause not Specified). 186. Other External Violence.	2 2 2 2 15	1	1			 4 1	3	::				1	1	• :	1	3		1	2.6	:::
XIV ILL-DEFINED DISEASES.	- !												-		1					Ì
Group Total	12	-		- -		,-	1	1 -	1	· · /	1	- , -	1	•	2	4		1	-: -	-
188, Sudden death	9 10						1	1	1					••	1	3		1		
STILL-BIRTHS.				1					1											
Not included in totals	197	1.5	3.5	4	6	9	13	1	4	13	14	9!	11	15	9	4	8	10	15 1	11 7

TABLE No. 13.
Infant Mortality—Deaths under 5 Years of Age, and Causes, 1918.

			Pı	ovi	nce.					Citi	es.		1		Т	<i>11</i> O	ns	-			Mun	Ru	ral alit	ies	
	OFFICIAL ENGLISH TRANS- LATION. DISEASES AND CAUSES OF DEATH.)	Total.	Under 1 Yr.	1 Уеяг.	2 Years.	3 Years.	4 Years.	Total.	Under 1 Yr.	1 Year.	2 Years.	3 Years.	1 Years.	Total.	Under I Yr.	I Year.	2 Years.	3 YPHTS.	4 Years,	Total,	Under t Yr.	1 Уел	9 Years.	5 Years.	4 Years.
	Grand Tota,	8,990	6,402	1.212	634	434	308	4, 403	3.086	628	324	222	143	727	204	108	51	37	27	3.860	2,812	476	250	17.5	138
	IGENERAL DISEASES.																						1		
	Group Total	1934	769 —-	471	296	232	166	961	386	241			-1		-1	46	23	24	17	K10	330	184	128	92	76
4. 5. 6. 7. 8. 9. 10. 13. 14. 18. 19.	Typhoid fever Malaria Smallpox Measles Scarlet fever Whooping cough Diphtheria and croup Influenza Cholera nostras Dysentery Erysipelas Other epidemic diseases Purulent infection and septicæmia. Tetanus	1 80 40 271 148 979 1 23	6 163 23 344 1 18 30 7	30 6 77 27 253 : 33	30 176 1 1 2	8 11 12 40 130	10 8 28 76	1 56 24 113 93 420 18 6	19 3 62 18 132 11 16 5 11	4 36 14 125 2 2	8 5 5 2) 78	8 7 28 54	1 3 4 3 13 13 13 1 1 1 1 1 1 1 1 1 1 1 1	1 6 20 10 100	2 10 36	2 26	3 17	1 2 2 2 14	1 1 1 3 7	18 13 135 45 45 159	5 91 5 176 1 6 14 2	6 2 29 11 102	11 7 81 	3 1 3 10 62	5 4 12 28
	Total Deaths from Tuberculosis	145	37	37	35		23	79	22	16		8	12	- 1	1	2		2	2	59	14		14	3	9
29. 30. 31. 32. 34. 35. 36. 37. 38. 39. 40. 45. 47. 48. 50. 53. 55.	Tuberculosis of the lungs Acute miliary tuberculosis Tuberculous meningitis Abdominal tuberculosis Pott's disease Tuberculosis of other organs Disseminated tuberculosis Rickets Syphilis Gonococcus infection Cancer and other malignant tumors of the buccal cavity. Cancer and other malignant tumors of the stomach, liver Cancer and other malignant tumors of the stomach, liver Cancer and other malignant tumors of the skin Cancer and other malignant tumors of the skin Cancer and other malignant tumors of the skin Cancer and other regans or of organs not specified Acute articular rheumatism Chronic rheumatism and gout Diabetes Leuchæmia Anæmia, chlorosis Other general diseases	71 15 32 1 21 59 7	15 51 2 1 1 4 22	3 1 1 1 3 7 4 1 2 1 2 9	4	3 1	1 4 1	15 52 6 1 12 51 5 5 3 1	10 50 1	1 1 1 2	3 13 3 1 1	1 4 9 3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 1 2 2	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1	2	9 22 17 8 1 2	5 4 5	1 8 7 9 1 1 1	3	1 1	3 1
	Alcoholism (acute or chronic) . -DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE.	2				2		1							-/-				-	1	• • •			1.	<u>-</u>
	Group Total	657	432	109	59	32	25	269	170	52	26	10	11	66	38 1	4	8	6		22	224	43	25	16 1	4
61. 62. 63. 64. 66. 69. 71. 72. 73. 74.	Encephalitis Meningitis. Locomotor ataxia Other diseases of the spinal cord Cerebral hæmorrhage, apoplexy. Paralysis without specified cause Epilepsy Convulsions of infants Clorca Neuralgia and neuritis Other diseases of the nervous system Diseases of the eyes and their annexa Diseases of the ears	12 161 5 18 3 1 5 262 166 2	2 8 2 1 174 152	1 42 2 4 1 1 41 7	4 17 1 3 1 1 25 3	3 13 1 10	2 6 3 1 12	5 74 8 5 1 1 1 39 127 2 5	1 32 1 1 1 1 1 127	22 1 2 1 22 2 1	1 9 1 · · · · · · · · · · · · · · · · ·	7	1	21 3 2 38	2 225	6	3	2	9	7 66 2 10 2 2	1 41 5 1 1 173	1 14 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 5	1 9 1	1 2 1 1 8
	DISEASES OF THE CIRCULA-							}	-				- -	ij		-		- -	1	Ξį				- -	-
77	TORY SYSTEM. Group total	4? 1 23	13	6	8	9		2? 1	9 1 2	2	4	4	3		2 1	1.			- -	18	2	4		5	-

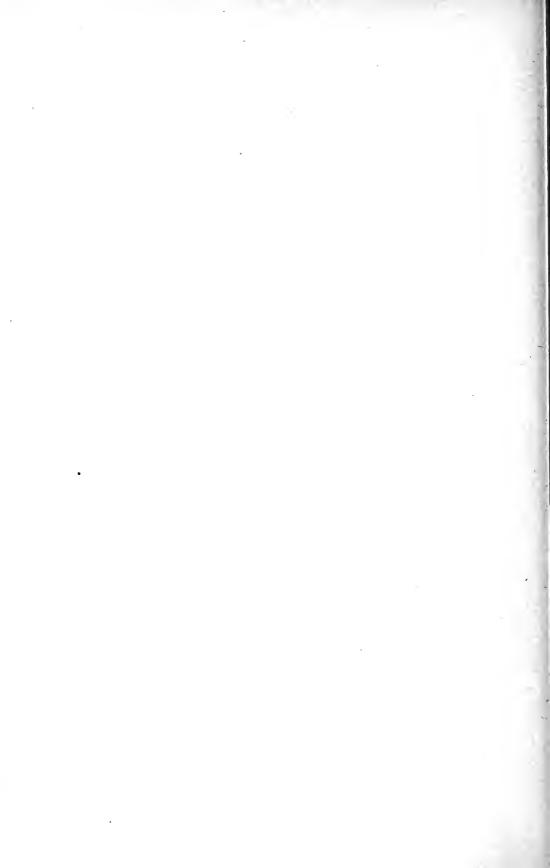
TABLE No. 13.—Continued. Infant Mortality—Deaths Under 5 Years of Age, and Causes, 1918.

OFFICIAL ENGLISH TRANS-		Pr	ovi	nce.					Citi	ea,			7	l'ow	/ Il = .	_	М		tura cipa		ie•.	
LATION. (Diseases and Causes of Death.)	Total.	Under 1 Yr.	1 Year.	2 Years.	3 Years.	4 Years.	Tetal.	Under 1 Yr.	I Year.	2 Years.	3 Years.	Total	Under 1 Yr.	1 Year.	2 Years.	4 Years.	Total.	Under 1 Yr.	1 Year.		3 Years.	
IIIDiseases of the Circulatory System Continued.																						
79. Organic diseases of the heart. 80. Angina pectoris	20 H 27 G	1 1	1	1		• • • •	1	1	1		1.					: :: :¦::	1		1			
IV.—DISEASES OF THE RESPIRA- TORY SYSTEM.														:	:							
Group total	1498	50	360	158	86	44	S31	449	2011	10.5	55	5 117	73	31	<u>:</u> -	4 4	550	528	131	49	27 15	5
86. Diseases of the larynx 87. Diseases of the larynx 89. Acute bronchitis 90. Chronic bronchitis 91 Broncho-pneumonia 92. Pneumonia 93. Pleurisy 94. Pulmonary congestion, pulmonary apoplexy 95. Gangrene of the lung 96. Asthma 98. Other diseases of the respiratory system (luberculosis excepted).	5	11	1	1		• • •			• • •	• • •	 i.	2 13 4 28 8 68 1	1	::1		· · · ·	11 ••• 4	8	 1	1		
V.—DISEASES OF THE DIGESTIVE SYSTEM.															1	,						
Group total	1093	319	153	41	31	19	571	455	7:2		14 1	0 96	7:2	17	6'.	. 1	4 2 6	322	64	15	17 8	3
99. Diseases of the mouth and annexa 100. Diseases of the pharynx 102. Uleer of the stomach 103. Other diseases of the stomach (cancer excepted) 104. Diarrhœa and enteritis (under 2 years) 105. Diarrhœa and enteritis (? years and over) 107. Intestinal parasites 108. Appendicitis and typhlitis 109. Hernia, intestinal obstructions 110. Diseases of the intestines 114. Biliary calcui 115. Other diseases of the liver. 117. Simple peritonitis (non-puer peral)	836 47 9 34 43 1 4	65 719 28 26 1	13 117 2 4 11	25 1 3 3	16	3 2 2 1	45 446 25 : 4 16 16 : 2	39 389	57 57 1 1 5	11	1 · · · · · · · · · · · · · · · · · · ·	74 4 1 1	63	11 11 	1		36 316 15 15 21 1	23 267 10 13 1 2	5 49 1 3 5	3 7 	9 3 2 1 1 2 1	
VI.—Non-Venereal Diseases of the Genito-Urinary Sys- tem and Adnexa.						_								i	-							
Group total	45	55	12	5	3	8	29	16		4	<u></u> _	2 4	3			. 1	1.5	3	5	1	3	
119. Acute nephritis 120. Bright's disease 122. Other diseases of the kidneys and adnexa 123. Calculi of the urinary passages 124. Diseases of the bladder 127. Non-venereal diseases of the male genital organs		16 3 1	 	1		٠	22	12 2 1	6 	3 1 		1 1	1	::	::¦:	1		2			3	
VIII.—DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE.																						
Group total	1 13 13 8	1 9 6	3 2				16 1 2	1	1		1 · · · · · · · · · · · · · · · · · · ·			<u></u>		:::	-6 4	4	1	1		

TABLE No. 13.—Concluded.

Infant Mortality-Deaths Under 5 Years of Age, and Causes, 1918.

		D		-		Í		O:	ties			1		m.	ow:			1	}		ura			
	_	Prov	V I II	ce.					Tres	· 		_			OW.	115.			_ M	unic	ipa.	litie	18.	
OFFICIAL ENGLISH TRANS- LATION.		Yr.		*		v.		Yr.		'n	· S	s.		Yr.		·	o.	v.		Υ.		,	1 1	ň
(DISEASES AND CAUSES OF DEATH.)	Total.	Under 1	1 Year.	2 Years.	3 Years.	4 Years.	Total.	Under 1	1 Year.	2 Years.	3 Years.	4 Years.	Total.	Under 1	1 Year.	2 Years.	3 Years.	4 Years.	Total.	Under 1	1 Year.	? Years.	3 Years,	-
IX.—DISEASES OF THE BONES AND OF THE ORGANS OF LOCO-MOTION.																								
Group total	4	t	2	1			3	1	1	1	• •	٠.	• • •				• •		1		1		٠٠]٠.	
146. Diseases of the bones (tuberculosis excepted). 149. Other diseases of the organs of locomotion	3 t	t	2	1			2		1	1									1		1			
X CONGENITAL MALFORMATIONS.	_			_													-				_			-
150. Congenital malformations (still-births not included). Total	239	224	3	22		::	142	137	3	2	<u></u>		10	10			-		77	77	l !			•
XI.—DISEASES OF EARLY INFANCY.																								
Group total	3184	3184					1422	1422					249	249					15 t 3	151			<u> </u>	
151. Congenital debility, icterus, and sclerema 152. Other diseases peculiar to early infancy 153. Lack of care		89					1339 76 7	76					217	1					1501 13	1				
XIII.—Affections Produced BY EXTERNAL CAUSES.					_													-						-
Group total	197	31	47	47	34	38	101	2.3	23	16	2:	18	17	-4	1	6	-2	4	71		33	25	10 1	6
164. Poisoning by food	100 21 17 14 100 21 20 21 21 21 21 21 21 21 21 21 21 21 21 21	5	1 1 1 1 1 1	1 23 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 4 15 5 5 5	6 6 1 8 1 1 1 2 2	8 37 8 4 5 11	5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10	10 1 1 5 5	2.5	1	1		3	1		19			1 4	1	1
179. Effects of heat	5	2			· ·	::	2							ļ										:
183. Homicide by cutting or piercing instruments	1 4 2 15	1 1	1	1	1		1 4 1 3					1		1										
XIV.—ILL-DEFINED DISEASES.																								
Group total	85	11	46				36	7		3		i	3		1	1	1		-10		1 20	11	5	б
188. Sudden death	83	 1 t	41	15	6		36		25	3		 t				1			4		4 18	11	5	6
STILL-BIRTHS.								l													1			
Not included in totals	2400	2400	• • •		•••	• •	1061	1061					t97	197 197					114	114	2		•••	



APPENDIX

BIRTHS BY MONTHS AND SEX IN ONTARIO (INCLUDING CITIES AND TOWNS), 1918.

_						11		OIL 0	1				_	110. 2	
	Still- Births.	2,198	1,236	396	1,096	620	921	11	8	æ 10	=	188	15	===	8
	-illegiti- mates.	1,363	726	637	329	991	39	25.51	16	9 6	छ	x 5.	12	- 21	200
	No. cases of triplets.	6.	=	<u>+</u>	1.3	×	1					21 —	-	- 21	-
	sting .oN sairs.	929	658	1 69	67E	 	367	1-1-	1~	10.10	าเร		°	5. 25	9
	December.	1,851	2,547	2,304	2,423	1,298	1,125	121	38	89	<u> </u>	812	1 99	32.5	57
	November.	4,666	2.381	2.285	2.434	1.352	1.182	17	8	27	27	83	99	នគ	9
	October.	5,485	2.872	2,613	2,799	1:4:-	1,325	92	36	3.0 3.1	120	# #	89	8.5	3
	September	5,548	2.842	2,706	2,942	1.516	1,426	88	50	12	<u>;</u>	17 kg	8	32	17
	Jenguk	5,829	3.043	2.786	3.090	1.623	1,467	នន	[² 구	8 <u>2</u>	×	7 4	z	37	77
	July.	5,663	2.919	2,74	2,953	1.554	1.399	22.5	25	88	9	87	73	88	77
	June.	5,643	2.959	2,684	2,972	1.54	1,428	สส	17	88	96	177] 3.	무류	79
	May.	5,688	2.883	2,805	2,960	1.487	1.473	និត	7	និនិ	9	8 =	99	7 8	7.9
	April.	5.726	3.016	2,710	2.981	1.558	1.423	3.8	58	31 82	7	 4	86	88	133
	Матећ.	5.733	2.984	2.749	2.943	166.	1.392	= 81	FF .	<u>×</u> +	훮	422	6:	1278	8.29
	February.	4,865	2,504	2.361	2,436	1,259	1.177	<u> </u>	7.	24 16	9	188	6.7	87	3
	.Vanuary.	5.032	2.536	2,496	2,526	1,265	1.261	និន	22	25.	ही	27.35	39	280	27
	Total.	64,729	33.486	31.243	33.459	17.381	16.078	255	190	292 1982	195	977	895	381	797
	Sex.	:	M	~		M	Դ	EF		M		MF		F	_
	Counties.	Grand Total, Province.	Towns	Total Counties, Cities, Towns	Total Counties only	Total	Total	Algoma		Brant		Bruce		Carleton	

× 101	15	1-1-	=	81 0	31	1:0 -	9	='		155 4	17	1218	22	5 77	1 22
:27	51	च च	<u>∞</u>	921	<u></u>	1 23	7	===	 	m ∞	=	-01	÷	- :	Ī
24	 	# D	9	==		24		13 9	11	x →	9			1-5	×
翌日	75	188	<u> </u> %	 1 23 	96	122	27	122	 	1 97 9	35	1 20 00	=	122	 6;
901	19	82	 	 67 87	97	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	 % 	88	1.0	27.	 	1201-	22	22	18
 9	81	23 25	 각 	129	133	182	 	% % 	89	27.82	 8 	 	=	16	=
90	%	ន្ត្រ	 == 	95	 =	222	 9+ 	126 9	3.	16	9	10	16	25 1.9 1.9	15
15	25	198	 %	188	134	1 = 8	 % 	97	82	1 7 5	183	==	14		×
112	 %	16	32	67 - 59	126	15	<u> </u> 23	88	74	82	37	69	153	197	각
<u> </u>	62	12	43	188	8	21 8		127	188	==	 23 	12.6	<u> </u> <u>=</u>	08 19 19	 68
15.0	 &	171	37	- 30 +0 +0	79	19	 9	25.	197	25 25	 98 	41-	=	7 %	1 25
122	27	182	97	67	124	128	=	1 2 2 2 2 2	192	88	 27 		12		 95
911	12	28 16	127	57	113	181	12	222	3	127	 - 88 	192	1 ==	======================================	
112	16	124	=	49	8	97	3	# #	199	88	188	1 25 1-	12	1 2 5	%
12 16	58	88	45	49	10†	13.6	 ਜ਼	888	15	15	32	& ru	13	525	27
161	292	257	190	651	1,294	228	113	505	920	233	8++	81	154	200	- 01+
ME	'	ZF	<u> </u>	ZF.	1	<u> </u>	ļ	ZF	.!	ZH	<u> </u>	Zř.		Z.F	<u></u>
Dufferin		Elgin		Essex		Frontenac		Grev		Haldimand		Haliburton		Halton,	

BIRTHS BY MONTHS AND SEX IN ONTARIO, 1918.—Continued.

					пы	OII.	I OF						TAO.	20
Still- Births.	220	 	979	26		53	21	37	7.	12	= "	18	112	33
Illegiti- mates.	% 4	12	20.20	7	-:	-	10.0	=	NW	13	7-	ra	10:1-	12
No. cases of triplets.			F7											
No. pairs.	15	10	9	×	9	500	27	13	13.	13	9 4	123	4	5
Бесешбет.	7 %	69	E 25	63	9.0	16	38.3	67	18.18	48	81 19	37	20 24	44
Хо чет рег.	37	89	8.5	55	75	21	88 9	78	18.22	97	26	14	22	46
October.	46 51	97	88 13	7.1	10:1-	12	22.65	105	12.55	17	18 2	75	350	85
September	28	99	27.53	3.	77	20	96 98	Se .	# ## ## ## ## ## ## ## ## ## ## ## ## #	3	ିଶ୍ୱ	155	22.38	09
August.	ii: ∓	3.	36	80	75	6%	육후	%	₹ %	133	នុន	<u>∓</u>	0 7 82	89
July.	45	:S.	944	88	o. <u>∓</u>	83	# \$	87	ਫ਼ਨ	85	ត្តទ) % 	288	150
June.	14	88	37	53	==	22	9 %	<u>2</u>	표원	133	127	9	96 E	70
May.	<u> </u>	138	74.4	55	20	22	12.23	95	E 21	83	รล	44	88	62
.lirqA	22.25	.e.	1788	13	510	5	± %	2	8 8	Se.	17	8	30	54
March.	28.23	 133 	88	89	16	25	\$ E	<u> </u>	\$ 28	62	ន្តន	<u></u>	32	23
February.		12	275	65	==	75	おお	- S	28.28	1.6	12 22	85	22.2	48
January.	2122	153	37.5	12	22	23	# %	33	E &	8	15	읊	88	55
-IstoT	176	930	453 450	806	137	262	538	1011	382	724	276	497	369	715
Sex.	ZF	·	KF		E		MH	·	ĦĦ		ZH		ĦĦ	
Counties.	Hastings		Huron		Kenora		Kent		Lambton		Lanark		Leeds and Grenville	

ZE.	1177	200	∞ E 21	21 12	81 0 1 %	24 24	8 8 8	19 19	82 8	18 58	171	178 25	हु ज		H 20 15	12 5
223		8183	+ e =	88	2=	: 25	នុខ	= X	88	<u> </u> 동으	13.5	1 83	7 2	1 10000	-10	1
		15	122	1 %	 8 	35	%	8	=	HA	37	4	8	14	9	51
154		55	2∞	152	2=	191	22	55	122	22	× 5	122	120		9.0	100 000
283		<u> </u> 2	~	8	92	188	83	F .	182	122	17	83	8		=	9
393		88	1 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1 25 85	1 2 18	% %	 	ल क	177	85 75	₩.∓	228	88		1=1:00	1=8
822		127	192	122	11	8	67	28	S	65	67	89	22		1	61
222		5.5	1212	122	192	136	129	≈%	202	25	122	유원	12.21	9 61	m 21	128
911		- 2	81	\$ *	=	=	27	=	17	98	 	55	98		120	15
300		87.55	33.80	28	24	18	25.53	187	22.72	300	Ē: = T	9 7	22.22	1201	m -	1872
644		3	13	55	125	133	99	각	55	15	1 ===	=	12		-	38
222	<u> </u>	7.1	12. 17.	55	82	ន្តន	125	12.2	F 51	8189	==	잃으	87	\\		5110
200		<u> </u>	5	27	#	133	98	37	55	15	51	12	7.5	9	 	1-
556	1 :0 01	18 FF	88	99	67 62	33.51	25	37	85 60	17.5	2188	15.07	12 55	∞ n	S 21	121
1048	-	99	133	<u> </u>	Ξ	 ‰	68	SS	138	3	8	1 =	158	01	202	36

BIRTHS BY MONTHS AND SEX IN ONTARIO, 1918-Continued.

;						REP)KT	OF.						NO. 4	10
	Still- Births.	111	28	69	61	15	31	3	10	16	24	·10	17	22 22	55
-	-illegiti- mates.	S. S.	18	4-	10	- 80	7	-	1	4-	ເລ	:-	-	2) 2)	7
•	No. cases of triplets				:	21 -	-			1 m m	: : :	8	7		:
	saire .oX sairs.	∞ ∞	œ	9	ro.	13.00	-	51.51						228	23
	December.	202	7	16	38	18	0+		30	양찬	£;	55.8	30	62 54 54	116
	№ Мо∨ешЪег	18	#	28.8	52	88	"	16	8	12.08	10	98, 9	55	52	96
4	October.	7:8	65	용자	56	8 3	88	x	19	88	58		≅	80 69	145
J	September	25.55	18	27.	13	78	<u>8</u>	18	7.5	3.5	58	22	픘	8.71	159
	Jsugu4.	88	<u>16</u>	สเล	5	88	133	និត	7	នន	S ;	25	7	198	160
	July.	33.8	70	82	9	# 53	58	28	17	25.25	. S.	E 9	=	88	155
	June.	97	17.	8 8	57	61.8	37	17.2	23	88	3	≗ន	7	87 71	158
	May.	តន	#	88	9.6	198	192	151	98	7 8	32	22.55	33	77	148
	April.	88	1 27	25	123	35.	3	<u>x</u> x	38	88	ात	22.	25	102	172
2	March.	\ \ \ \	1.5	88	7	윉동	18	E E	36	88	9.6	87	14	68	139
10111	February.	121	# #	82	=	রঙ্গ	14	5 22	8	នៃន	===	19	8	64	132
o curving	January.	1 22 83	1 09	19	157	32	59	16	125	22	×	19	31	89	122
urq	.lstol	338	647	296	587	331	623	205	382	337	670	255 182	437	906	1,702
	,xəč	3 24		MH	·	ME	1	ÄF	1	ĦF		MH		Æ	
	Counties.	Ontario		Oxford		Parry Sound		Peel		Perth		Peterborough		Prescott and Russell	

101	. 0	& ro E			1111	11011	11110	013111	71(111						X (
11.4	15	∞ ro	13	16	31	16	33	19	0†	110	22	0201	7	20 15	35
20 :	\$3	0101	7	25.57	ro.	m	4	- 60	7	0.00	12	-	-	2.0	12
24	572	20.00	: : : ::::::::::::::::::::::::::::::::	9	13	14	61	10 01	01	7	12		:	13	15
14	21	9 22	22	# S	51	35	7.1	333	70	37	72	x x	16	1 4 9	152
110	21	121	 85	3,42	<u> </u>	355	20	1 4 18	78	38.8	71	97	13	184 %	77
1121	75	13.0	1 8	98	727	50	26	26.7	8	35.32	74	ro to	x	55	109
∞ 7 2	 %	85	9	26.25	2	74	 6%	38	100	2 %	8	20-	, m	200	106
<u> </u>	[2]	202	98	## FF	7.1	55.0	105	55	107	07	79	1-1-	171	88	115
16	35	25	8	15:4	 	27.53	87	57	106	38	88	12	121	8.22	108
22	25	150	18	35	35	192	100	48 39	87	55 53	86	∞ →	121	202	15
15	33	171	8	8.98	8	60	100	53.40	102	174	88	6 9	15	144	88
116	27	100	98	36 48	87	54	101	56	104	25.2	101	1=8	161	18.2	126
∞ 0 <u>1</u>	18	24	161	47	8	64	113	47	6	46	16	010	7	15	115
13	123	101	24	28.2	155	38	8	22	65	188	79	12=	122	47	- 126
9	101	12 12	32	3383	18	39	08	36	117	47	104	42	9	37	104
140	283	154	315	464	206	563	1,101	578 496	1,074	529 500	1,029	92 69	145	641	1,231
ΜH		F		Ħ₩		M		ĦĦ		MH		F		H	
Prince Edward		Rainy River		Renfrew		Simcoe		Stormont, Dundas and Glengarry		Sudbury		Thunder Bay		Timiskaming	

BIRTHS BY MONTHS AND SEX IN ONTARRO, 1918—Concluded.

Counties.	Victoria	-	Waterloo		Welland		Wellington		Wentworth		York	
Sex.	FM		Ж¥		MH		FM		M		M	
Totalı	174 168	342	117	768	137 410	847	353	685	988	829	1,116	2,171
January.	==	5	<u> </u>	258	82	99	38	129	388	1.3	78 66	17
February.	20	SS	187	13	12.22	x	# £	<u> </u>	88	2	56	133
Матећ.	915	37	3.5	S.	# X	12	22.23	6.5	122	1.6	95	203
April,	<u>~</u> ±	25	88	17.	한학	ž	37.8	12	25.	133	5.2	172
May.	±5	183	98 S	<u> </u>	ន្តន	Se.	8 2	79	25.22	17	.8 S.	183
-June.	==	18	8.2	32.	1 # 8	62	ងអ	55	72.22	126	8.8	192
July.	13 ₹	E	18.8	12	동품	12	88.83	99	3.8	3	88	130
.tsuguk	1. 8	158	\$ 98	z	35	27	28	123	25.20	55	88	194
September	92 8	1 21	% t	13	7.77	17	報路	159	8 8	IG.	86.88	184
October.	27	130	218	S	12.55	17	822	0.0	12 E	3	= 3	206
Хотешьет.	==	133	15:37	E _	# # # #	52	13.85	1.5	25.2	1.59	- 58 86 	183
Бесешьет.	0 10	18	88	es	198	8	<u> </u>	T _G	E 81	123	86.88	187
Xo. pairs of twins. Xo. cases	22.02	:	9 + 6	<u> </u>	9 +	1-	1 10 10	re I	:::	- i e	288	::
of triplets. Illegiti- mates.	::			:	= :	-		:-	 	=	100	1 26
Still- Births.	10 10	17	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	67	S &	<u> </u>	121	22	1 6	070	# 88	5 77

BIRTHS BY MONTHS, AND SEX-CITIES, 1918.

	Cities.	Grand Total	Total Males Total Females	Belleville		Brantford		Chatham		Fort William		Galt	
	Sex.	:		F				 MH		: HX	-	E M M	
1	Total.	. 26,903	13,883	158	202	362	701	149	267	353 371	724	130	251
	.Vanuary.	2,187	1,101	12	19	98	69	15	36	239	70	18	15
• 1	Гертиату	2,094	1.076	21,4	ક્ષ	28 8	59	11 ∞ 12 ∞	22	20 22	23	1	15
	Матећ.	2,416	1,246	10	77	988	87	112	83	22 88	59	100	22
	·lirqA	2,330	1,234	11 16	27	12.23	26	17	82	25.23	9	27 %	25
	May.	2,350	1.210	18	83	22.83	09	13	19	38	57	12.53	7.7
	June.	2.293	1,214	13	63	22 88	133	15 10	25	5.22	528	13.1	25
	July.	2,299	1,159	12.	51	27.	T _G	11.12	83	119	55	× =	12
	.tsuguk	2,323	1,215	20	23	158 25	99	102	38	25.23	51	1-1-	 ½
19	Septemb	2.264	1,152	11 22	24	8 87	72	101	22	818	133	12.1-	荪
-	October.	2,319	1.215	14	8	8 2	99	S S	18	82.56	99	==	177
·a	Мочетье	1.904	988	∞ 21	98	82.5	17	71-	=	18 88	69	:: i-	<u> </u> ==
•.1	Десешре	2, 124	1,093	8 5	8	128	177	720	72	188	18	1-=	18
	No. pairs.	282	279	521	-	15.	=			2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	10		5.1
's	No. cases of triplet	-	101-	5) -	-								
	-ijigəlll .sətem	976	529	27-	65	71-	=	5151	7	-	-	55 51	100
1	Still- Births,	916	514	1-21	6	==	81	127	1 21	5.7	1 22		1,3
LUJ	.0		1	HACILIS	LILL	in or	77.111	23.14.					13

BIRTHS BY MONTHS, AND SEX-CITIES, 1918-Continued.

)				RE	PORT	OF					No.	20
Still- Births	15.0	=	78	132	S =	24	= 8	10	58	17	1 3 3	
-iliegiti- .estem	→ 12	S.	28 8	127	222	183	w 20	ra .	12 2 1	37	13 27	7
Xo. cases of triplets.			:::	-								
No. pairs.	5) 5)	51	##	32	133	2	13	1.0	171	=		
Десешрет.	1.2	3 3	113	201	1 25 28	239	12.5	==	98	7.9	22	25
Zovember.	==	182	109	206	182	155	15	 	9.7	Z	1 2 2	12
October.	77	25	135	27.2	37	15	255	7	188	501	9=	27
September	25	22	92	246	27.81	19	25 8	<u>≈</u>	39.54	107	17.72	8
August.	17	37	138	हि	27	Sc	277	<u> </u>	24	- S	<u> </u>	28
July.	216	37.	158	1 2 2	158	- - - - - - -	28	=	25.53	107	70	183
June.	s <u>2</u>	8	121	233	× ×	9	122] -	18 2	=	50 13	32
May.	919	1 23	105	22.0	2 77	25	27) ‡ 	122	<u> </u>	100	25
April.	23	37	122	85 85 85	88	58	22.51	 - 	22	3; 3;	e =	02
Матер.	22	%i %i	125	241	88	123	สีส	 ਫ਼ੋ	127	1 1 3 1	100	27.
February.	919	1 92	101	231	88	15	22 25	 9 	52	201	200	
.Vanuat.	110	2	131	642	188	5	0.13	- - 	8.8	18	128	32
Total.	169 201	370	1,437	2,770	324	633	256	88†	613	1.188	169	316
Sex.	ЖÆ		FM	-	Ä₽		ÄΉ		ĦΉ		볼늄	
Cities,	Guelph		Hamilton		Kingston		Kitchener		London		Niagara Falls	

25.5	8	= 9	51		=	mr	 ≌	60 121	×	" :	m	13.0	81		1
	203	∞ m	-		51	:t=	7		_=	: m n1	1.0		x	ec :	
30	33	1	33	5	9	15 2	6	1 - 21	:		21	5.5		+63	
124	252	23.23	<u> </u>	188	 †6	100	98	10 c	122	x x	12	181	 68 	100	1
109	217	15	98	1252	9	1 6 3	章	101	121	1	51	25.53	<u></u>	10 1	
149 115	264	18 18	98	152	=	88	199	1777	 % 	211-	191	122	33	13	1
119	241	27	08	12	 	172	 	192	8	250	255	251	1 27	6 11	
103 132	235	25.23	1 ===	13	158	188	 % 	200	128	127	101	33.0	61	15.3	1
157 137	294	7 ≈	325	28	1 23	22.5	 \$ 	27	26	19	1 55	120	8	15	1
133	257	02 01	 % 	101	63	\2 8 8 8	1 5%	191	83	151	97	11-11-11-11-11-11-11-11-11-11-11-11-11-	23	176	-
155 136	16%	88	 	30 18	 % 	122	%	15.4	8	1216	12	122	1 9	91	
113	241	12 61	1 ====	15.8	<u> </u>	181	37	100	18	121	8	24	5	130	-
135 118	253	16	 9 	171	16	20	37	12.2	1 7.5	31=	1 88	35	65	218	
118 87	205	12.12	40	171	36	88	7	12 65	8	16	182	22.5	37	16	
105 113	218	5.5	185	23 23	154	200	19	186	 ਜ਼ੌ	1-1-	=	27	 	22	
1,530	2,968	219	143	257	197	239	516	181	325	173	586	237	525	172	
MF		MR	' — —	MF		MW		Mæ	· ·	MW		MF		F	_
Ottawa		Peterborough		Port Arthur		St. Catharines		St. Thomas		Sarnia		Sault Ste. Marie		Stratford	

BIRTHS BY MONTHS, AND SEX-CITIES, 1918.—Concluded

Cities.	Toronto		Welland		Windsor		Woodstock	
Sex.	FM		F		F		<u> 24</u>	
Total.	6,131	11.779	165	245	421	807	8.3	189
January.	176 164	940	122	187	श्च	9	2 10	1 25
February.	483	026	55	1 2	8, 83	122	₩ m	6.
Матећ.	546 516	1,062	25	8; 	0 ##	 	17	21
April.	557	1,034	2.51	 	\$ \$	2	21 00	=
May.	555 500	1.035	7-57	[3]	27.	îâ	1-1-	14
June.	546	1,017	20 3	15	28 8	13	× =	21
July.	527 512	1,639	ाउ∞	- Fi	22	3	=	~
.isuguk	547 476	1,023	2.5	61	955	6.7	1-10	2
September.	187 181	 	× =	2	辛素	77	= x	81
October.	504	974	9 9	51	27	86	2=	KS
Хочешьет.	424 394	818	9 9	23	121	%; %;	10	17
December.	478 450	876	m m	23	# SS	2.	101-	2
No. pairs, of (wins, No. cases	113	113	m ra	<u>:</u>	G #1	9	22 62	80
of triplets.	21 —	-				 		
Illegiti- mates.	289	240	51.00	ro	100 FE	×	-:	-
Still- Births.	221	395	. s rc	=	88		n ro	=

BIRTHS BY MONTHS AND SEX-TOWNS, 1918.

February. F. M. F	Ingersou
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10 12 13 13 14 15 15 15 15 15 15 15	+ 19 T G
1	o m ∫ ∞
September Sept	9 7 2
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BIRTHS BY MONTHS AND SEX-TOWNS, 1918,—Concluded.

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	No. Cases of Triplets.																
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1918	·1suguy	713	5.	× 21	52	172	<u>~</u>	28	88	==	122	==	183	85	68	× 65	122
-TOWNS,	July.	S 4	101	191	2 2	5.15	9	61 81	37	22 %	24	==	68	<u> E </u>	62	0 6	161
X—TO	June.	z e	1 8 1	 s. s. 	1 2	210	17	× :::	5	2.73	<u> </u>		=	227	20	23	191
AND SEX	May.	101-	12	x x	16	x 1-	1 12	==	155	217	17	1 + 13	61	122	172	12.22	17
	.lirqA	∞ G.	171	x +	2	2=	85	5 8	1 27	x 2:	17	57	183	22	183	C 2	122
MONTHS	March.	917	122	5 5	<u>x</u>	7 22	16	1 55	55	<u> </u> 5.5	155	 e = 	25	127	53	7 ×	12
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BIRTHS	January.	12.13	101	x x	19	122	1 02	122	212	 m :s 	s.	 2.2 	202	7 9	1 = 1	1-4	1=
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	Towns.	Kenora		Lindsay		Midland		North Bay		Orillia		Oshawa		Owen Sound		Parry Sound	

101											
70.4	6	400	1	43)	9	7 8	17	44	· ×	1-2	100
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13	83	5.6	81	212	27	15	32	11	17	ro ∞	13
14	20	12	61	= ×	19	212	39	6.6	18	∞ ro	13
10	19	6	13	12	61	12.21	36	10	21	10	16
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140	255	102 91	193	99 106	202	198 217	415	102 98	200	71	143
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Pembroke		Renfrew		Smith's Falls		Sudbury		Trenton		Walkerville	

MARRIAGES BY MONTHS-COUNTIES, 1918.

Counties.	Total.	January.	February	March.	April.	Мау.	June.	July.	August.	September.	October	November.	Desember.
Grand Total	19,525	1,512	1,392	1,419	1.887	1,508	2,845	1,368	1,288	1,830	1,453	1,447	1,576
(all Municipalities) - Total Counties (excluding Cities and Towns)	7,679	639	561	579	798	534	1,095	512	401	753	603	539	665
_													
Algoma	126	13	Ĩ.	5	9	10	14	-0.0	16	8	12	4	6
Brant	1.23	5	10	13	20	5	19	10	5	13	3	9	11
Bruce	351	18	50	18	12	14	50	18	9	51	24	15	28
Darleton	150	8	11	10	13	. 9	30	1.5	4	15	14	14	10
Dufferin	86	î	10	11	5	6	14	3	4	- 7	4	3	15
Elgin	111	11	11	14	10	7	16	11	9	17.	11	9	18
Essex	311	.),	30	21	33.	50	45	111	19	39	21	23	2.
Frontenac	93	î	12	1	13	3	13	4	4	9	7	6	
Grey	267	-50	97	27	20	20	34	5.5	1.5		15		8
Haldimand	128		8	6	9	15	15	5	3	17	11	16	[4
Haliburton	32	*)		:3	4	î	6	3		3		1	9
Haiton	103	3	6	6	4	î	18	3	9			4	1
Hastings	257	28	18	14	55	22	33	5.5	8	24	18	21	2
Huron	390	19	23	98	59	15	12	55	17	30	24	17	3
Kenore	16			1		2	2	3	3	1	1	2	
Kent	251	5.5	16	15	35	22	33	17	15	5.5	13	16	2
Lambion	192	13	10	1.5	24	13	31	10	7	14	14	13	2
Lanark	161	1:2	13	8	5.5	7	21	17	10	51	10	12	1
Leeds and Grenville	235	28	15	18	28	12	29	13	8	33	17	15	1
Lennox and Addington	116	8	1.4	12	11	8	16	8	8	10	7	8	
Lincoln	1 1 1	11	:	10	1.3	13	17	20	13	10	14	8	
Manitoulin	52	î	5	-3	5	-2	- 4	5	6	: 7	4	4	
Middlesex	205	18	10	21	24			7	7	17	. 13	50	2
Muskoka	17	;	;	6					9			6	
Nipissing	113	l .		1								. 3	1
Norfolk	128	7	13								12	7	1
Northumberland and Durham	301	l											2
Ontario	165	1		23						1			
Oxford	165	ı		14								1	
Parry Sound	107	l								1			
Peel		l											
Perth	93	1								2:			8
Peterborough	182	1									1. 1		
Prescott and Russell	74									1			1
Prince Edward	285				1					1	5 (1	
Raing Pines	94	I .			1						3 8		
Rainy River	ăt'	1											
Renfrew	505	1								1	1		
Simcoe	-):):	1								9 10			1
Stormont, Dundas & Glengarry	25									7 2	1		1
Sudbury	ы	1		3	51 - 5		1			8	5 5	6	'
Thunder Bay		¦		. :			3			1			
Timi-kaming	21:				. 5:								
Victoria	11:	:	` 7				6, 1			4 1		1	1
Waterloo	218	2:	3(13	3				4		1		1
Welland	144	!	0 18		1 :	9	9 2	5 5	1	1	1	8 13	1
Wellington	183	1:	5 10	1	5 25	2 1	1 20		į.	1	8 1	1	1
Wentworth	131	13	2 (3 10	3	9 1	0 20	0 1			2 2		ł
York	32	2.	1. 1:	3 2	3	7 2	8 4	5 15)	8 3	6 2	3 3	ı

MARRIAGES BY MONTHS IN THE CITIES OF ONTARIO, 1918.

Cities.	Total.	January	February.	March	April.	May.	June.	July.	August.	September.	October.	November.	December
Total	10,483	757	737	745	957	872	1,560	767	79.)	938	739	809	803
Belleville. Brantford. Obatham Fort William Galt Guelph Hamilton Kingston Kitchener London Niagara Falls Ottawa Peterborongh Port Arthur St Catharines. St. Thomas. Sarnia.	120 233 121 151 118 119 1,003 307 159 555 213 892 193 136 166 142	8 18 10 7 7 9 73 19 12 34 14 57 20 9 15 8 6	6 15 5 6 2 8 1 18 10 38 9 65 10 5 9 10 15	8 9 15 4 15 10 8 5 4 12 8 6 5 12 12 12 12 12 12 12 12 12 12 12 12 12	17 23 9 16 12 18 97 32 13 45 19 85 22 10 14	9 21 8 90 5 15 79 22 20 39 16 83 17 11 20 8 12	17 89 21 29 24 29 111 39 15 81 38 118 26 14 26 22	12 26 14 12 7 10 79 18 15 88 15 15 17 12 12 14 15	9 18 10 12 8 13 66 24 14 45 19 11 10 21 15	10 14 7 20 12 13 78 36 18 59 20 83 16 10 12	11- 10- 6- 19- 10- 10- 70- 21- 10- 34- 6- 65- 15- 11- 18- 11- 19- 19- 19- 19- 19- 19- 19- 19- 19	5 18 11 11 10 9 82 30 13 48 21 81 15 9	7 16 8 5 6 5 69 21 1 8 53 22 56 15 11 12 15
Sault Ste. Marie	170 93 4,990	9 5 383	21 6 358	10 5 350	13 9 436	10 6 409	25 19 761	15 7 346	12 2 375	17 14 443	14 8 356	12 8 363	13 4 410
Welland Windsor. Woodstock.	98 287 77	3.5 24 5	30 6	15 18 7	10 32 5	9 22 4	16 35 13	5 21 2	23 23	9 21 6	18 18	6 24 5	11 20 8

MARRIAGES BY MONTHS IN THE TOWNS OF ONTARIO, 1918.

Towns,	Total.	January.	February.	March.	April.	May.	June,	July.	August.	September.	October.	November.	December.
Total	1,363	116	94	95	132	102	190	89	88	139	11!	99	108
Barrie Brockville Crobalt Collingwood Cornwall Ingersoll Kenora Lindsay Midland North Bay Orillia Oshawa Owen Sound Parry Sound Pembroke Renfrew Smith's Fells Sudbury Trenton Walkerville	42 121 67 66 42 26 113 44 55 82 58 66 65 65 51 94 48	2000 1 1 4 4 5 2 1 1 1 5 2 1 1 5 2 2 1 5 2 2 2 1 5 2 2 2 1 5 2 2 2 2	1 7 6 8 6 4 1 3 5 4 1 2 2 8 5 7 3 4 6 6 12 2	3 4 3 7 2 3 3 10 4 4 12 6 8 1 3 15 6 2 8 2	5. 13 13 4. 8 8 3 1 13 3 7 10 2 8 6 10 14 2 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1 8 5 3 1 1 3 3 7 8 2 2 5 2 3 3 3 3 4 11 11 7	8 28 10 8 7 6 3 13 6 12 8 8 13 10 11 11 16 13 8 8	8 5 15 4 6 2 1 5 1 2 1 5 3 3 1 3 3 5 3 8 8 4 2	866888886886556488145	5 19 4 3 18 2 9 12 10 8 6 6 6 5 6 5	ନାର୍ଥ ଅଧିକ ଅବଶ୍ର ଅବଶ୍ର ଅବଶ୍ର କଥା ବର୍ଷ ଓ ଅବଶ୍ର ଅବଶ୍ର ଅବଶ୍ର ଅବଶ୍ର ଅବଶ୍ର ଅବଶ୍ର ଅବଶ୍ର ଅବଶ୍ର ଅବଶ୍ର ଅବଶ୍ର ଅବଶ୍ର ଅବଶ୍ର	400621126542546854895	4 10 3 1 1 1 1 3 10 6 8 2 6 10 9 7 7 9 9 3 10 6 4

Marriages by Denominations in the Province of Ontario, 1918.

(Including Cities and Towns).

			1	1			,	,	1	1			
GROOMS.	Anglican.	Presbyterian,	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	2,298	568	584	206	151	16	24	4	3	2	39		3,895
Presbyterian	588	2,451	665	117	162	30	26	5	2	1	50	1	4,098
Methodist	59?	784	3,472	136	199	18	51	10	5	5	64	3	5,339
Roman Catholic	221	115	116	2,900	40	2	15		1		17	1	3,428
Baptist	164	162	235	40	493	12	13	1		2	15	1	1,138
Congregationalist	14	55	26	2	7	28	1	2			2		104
Lutheran	14	24	37	15	8	1	410	4		1	4		518
Evangelical Association		6	17	1	3		7	61		1	1		97
Hebrew	1	3	2	1					312				319
Salvation Army	7	7	11				1			40	1		67
Others Denominations.	26	42	39	11	21	3	4	4		2	359		511
Denomination not stat'd		•			1						1	9	11
TOTAL GROOMS	3,925	4,181	5,204	3,429	1,085	110	552	91	323	54	553	15	19,525

Licenses, 17,344,

Banns 2,181.

Marriages by Ages in the Province of Ontario, 1918.

(Including Cities and Towns).

	AGE.	15	20	2.5	30	3 5	40	45	50	5.5	60	6.5	70 & over	Not stated	TOTAL
	15	586	2,047	952	209	89	13	. 18	4			1			3,924
	20	288	3,295	2,728	934	366	101	28	10	1	1	1			7,753
1	2.5	11	442	1.608	948	574	184	74	27	10	3	2	2		3,885
	30	2	54	274	525	471	208	105	38	15	4	3	1		1,700
	3 5		4	38	122	320	229	148	77	35	13	3	2		991
	40		3	10	28	76	146	126	68	40	20	16	5		538
	4.5			3	5	16	40	103	73	37	28	11	4		319
	50					2	4	20	47	50	32	13	8		176
	5.5					1	1	4	17	38	33	25	9		128
	60					1	1		-5	8	20	18	14		64
	6.5							2	-5	5	3	10	14		33
	70 & over							1		1	3		9		14
	Age not stated.														
1	TOTALS	887	5,845	5,612	2,771	1,916	932	629	365	237	160	103	68		19,525

Marriages by Denominations in the Counties of Ontario, 1918.

(Excluding Cities and Towns).

G воомs.	BRIDES. Anglican.	Preabyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	Total Bridge.
Anglican	563	165	227	31	34	. 2	8				16		1,648
Presbyterian	188	1,103	324	50	55	8	10	2			30	1	1,731
Methodist	204	365	1,828	31	76	5	27	5	2	3	38	1	2,585
Roman Catholic	43	20	21	1,269	3	1	7				-5		1.366
Baptist	40	43	98	6	193	6	3	1			5		395
Congregationalist	3	8	13		1	4							28
Lutheran	7	13	15	4	2		191	3			3		236
Evangelical Association	n	. 5	11	1	1		6	44		1	1		70
Hebrew								• • • • •	3				4
Salvation Army		. 1	4							5			10
Other Denominations	7	19	31	1	9	1	2	1		1	141		203
Denomination not sta	ted											3	3
Total Grooms	1,056	1,741	2,561	1,363	374	27	254	58	5	10	225	5	7,679

Licenses, 6,651.

Banns, 1,025.

Marriages by Ages in the Counties of Ontario, 1918.

(Excluding Cities and Towns).

AGE.	15	20	25	30	35	40	45	50	55	60	65	70 and over	Not stated	Тота
15	221	838	470	113	42	8	8	1						1,701
20	133	1,288	1,124	393	144	40	9	5		i				3,137
25	5	176	605	379	206	65	28	14	2	1	2			1,483
30		55	102	182	156	68	44	16	4	3	3			600
35		1	13	• 41	86	72	49	29	10	4	1	1		307
40		2	2	9	17	45	35	29	16	8	5	3		171
45				2	8	10	33	26	13	6	5	1		104
50						2	7	18	20	12	6	3		68
55						1	1	6	10	17	11	3		49
60						1		1	5	7	16	9		36
65							1	1		1	6	7		16
70 & over										2		5		7
Age not stated.														
TOTALS	359	2,327	2,316	1,119	659	312	215	146	77	62	55	32		7,679

Marriages by Denominations in the District of Algoma, 1918.

City of Sault Ste. Marie and Town of Steelton not included.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	Тотаг, Вяпкв.
Anglican	. 10	3	5			•••••	1			•••••			16
Presbyterian	. 1	16	3		t								51
Methodist	. 3	3	11										17
Roman Catholic	. 4	1		61		·							66
Baptist			1		1								2
Congregationalist											1		
Lutheran							1						1
Evangelical Association.													
Hebrew					\	٠					1		
Salvation Army													
Other Denominations					1						3		3
Denomination not stated								ļ					
TOTAL GROOMS	. 18	23	17	61	3		5				3		126

Licenses, 92.

Banns, 34.

Marriages by Ages in the District of Algoma, 1918.

	Age.	1.5	20	2.5	30	3 5	40	45	50	5.5	60	6.5	70 and over	Not stated	TOTAL.
	15	4	95 ,	55	5	1	1	1							56
	20	8	12	17	7	3	3								45
	2.5		5	1	-5	- 5	1	1							12
-	30				3	1		1							5
	3 5			1		1	1								3
: [40							1		1					5
- -	4.5							1							1
-	50														
	5.5									1					1
	60									1					1
	6.5														
&	70 over														
	ge not tated.														
T	OTALS.	7	39	44	14	8	6	5		3.					126

Marriages by Denominations in the County of Brant, 1918.

City of Brantford not included.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denominations.	Denomination not stated,	TOTAL BRIDES.
Anglican	17	1	4		3			· • • • •			1		26
Presbyterian		8	8	1	5								22
Methodist	1		25	1	6								33
Roman Catholic				6									6
Baptist	3	1	9		17	2							33
Congregationalist		2	2										4
Lutheran													
Evangelical Association.													
Hebrew													
Salvation Army													
Other Denominations													
Denomination not stated													
TOTAL GROOMS	21	12	48	8	31	2					1		128

Licenses, 121.

Banns, 2.

Marriages by Ages in the County of Brant, 1918.

	Age.	15	20	2.5	30	35	40	4 5	50	5 5	60	6.5	70 and over	Not stated	Total.
	15	3	24		1										28
	20	4	31	15	5	2	1								58
	2.5		5	8	1			2							16
	30						2	1	1						15
	3.5			1	1	1	1		1						5
Š.	40					1	1	1	1	1					5
BRIDES.	45					1					1				-5
BR	50											1			1
	5 5									1	1				-3
	60														
	6.5														
	70 & over														
	Age not stated.														
	TOTALS	7	60	24	8	7	5	4	3	2	2	1			123

Marriages by Denominations in the County of Bruce, 1918.

ежен В Вильков В Споома.	Anglican.	Presbyterian.	Methodist	Roman Catholic.	Baptist.	Congregationalist	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated	TOTAL BRIDES.
Anglican	.) .	7	6	. .	1		ļ .						21
Presbyterian	. 11	77	11	1	5							1	106
Methodist	. 7	9	50	1			1				8		50
Roman Catholic		1	-3	21									27
Baptist		1	4					1					6
Congregationalist													
Lntheran		5					4						6
Evangelical Association		1	1					5					4
Hebrew													
Salvation Army					·								
Other Denominations		1											1
Denomination not stated													
TOTAL GROOMS	. 25	99	53	26	6		5	3			3	1	221

Licenses, 198.

Banns, 23,

Marriages by Ages in the County of Bruce, 1918.

AGE.	15	20	25	30	3 5	40	45	50	5.5	60	6.5	70 and over	Not stated	TOTAL.
1.5	5	13	8	4	1									28
20	2	35	38	9	2									86
2.5		4	28	14	6	4		1						57
30			7	3	5	1		1						17
3 5				1	6	5	1	1	2	1				17
40						- 2	2		1					
4.5							1		. 3					3
50								1	- 5	1	2			6
5.5														
60										<u></u>		11		1
6.5														
7 0 & over										<u>-</u>		1		1
Age not stated.														
TOTALS	4	52	81	31	30	12	4	4	7	2	2	2	l	221

Marriages by Denominations in the County of Carleton, 1918.

City of Ottawa not included.

ба Споомь.	Anglican,	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated	TOTAL BRIDES.
Anglican	15	4	5	1	1	1							27
Presbyterian	3	26	8										37
Methodist	2	9	17	1	1								30
Roman Catholic	3	1		40									44
Baptist	1	1			1	1							4
Congregationalist													
Lutheran	1								<u></u>	• • • • •			1
Evangelical Association													
Hebrew													
Salvation Army			1										1
Other Denominations	1	2	1								2		6
Denomination not stated.													
Total Grooms	26	43	35	42	3	2					2	••••	150

Licenses, 123.

Banns, 27.

Marriages by Ages in the County of Carleton, 1918.

Age.	15	20	25	30	35	40	45	50	55	60	65	70 and over	Not stated	TOTAL
15	3	10	1		2		1							17
20	2	24	31	16	3	1								77
2.5		6	17	4	4	2	2				1			36
30		1	2	1	3	2		•••••						9
35			1	3	1	2	1							8
40				• • • • • • • • • • • • • • • • • • • •	• • • • • •			2						2
45														
50														
5 5								1						1
60														
6.5														
70 & over														
Age no stated														
TOTALS	. 5	41	52	24	13	7	4	3			1			150

Marriages by Denominations in the County of Dufferin, 1918.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomin- ations.	Denomination not stated.	TOTAL BRIDGE.
Anglican	ŧi.	5	3										14
Presbyterian	4	21	1		5								31
Methodis1	4	8	19										3 3
Roman Catholic			1	- 2									3
Baptist		1	1										2
Congregationalist			1			1							5
Lutheran,													
Evangelical Association.													
Hebrew													
Salvation Armv													
Other Denominations						·				••••	1		1
Denomination not stated.									1				
TOTAL GROOMS	14	35	29	5	3	1					3		86

Licenses, 85.

Banns, 1.

Marriages by Ages in the County of Dufferin, 1918.

-														
Age.	1.5	20	25	30	3.5	40	4.5	5 0	5.5	60	6.5	70 &over	No1 stated	TOTAL
15	1	ŝ	;;			· · · · · · ·	• • • • • • • • • • • • • • • • • • • •							6
20	1	12	14	3	1	1								32
2.5		2	10	tj	15	1								25
30			2	5	5		-3							14
3.5			1	1			1							3
40				1						1				3
4.5								1	. 1					5
50							·			1				1
5.5										ļ	1			1
60														
6.5							·							
70 & over								,						
Age not stated														
TOTALS	2	16	30	16	12	2	3	1	1	2	1			86

Marriages by Denominations in the County of Elgin, 1918.

City of St. Thomas not included.

Grooms.	BRIDES.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association,	Hebrew.	Salvation Army.	Other Denomin- ations.	Denomination not stated.	TOTAL BRIDES.
Anglican			4	1		2						ı		5
Presbyterian		. 2	25			•3	1					• • • • • •		4)1)
Methodist		2	5	45		7					1	1		61
Roman Catholic	••••		:		3									3
Baptist				8		21						1		20
Congregationalist			1											1
Lutheran						1								1
Evangelical Associati	on		1									1		• 9
Hebrew														
Salvation Army														
Other Denominations	· · · ·		2			2			1			1		5
Denomination not sta	ted.													
TOTAL GROOMS		4	38	57	3	35	1		1		1	4		144

Licenses, 142.

Banns, 2.

Marriages by Ages in the County of Elgin, 1918.

AGE.	15	20	25	30	3.5	40	4.5	50	5 5	60	6.5	70 & over	Not stated	Тотаг
15	12	13	9	1		1								30
20	3	51	19	4	4	1					,			5.5
25		3	15	7	2	2		1						30
30					• 4	3	1							
€ 5				1		i	:							- 1
40					1		3							- ::
4.5							3							:)
50									1			1		9
5 5														
60								1		1				
6.5	,										1			1
70 & over														
Age not stated.														
TOTALS	15	40	43	13	11	s	8		1		1	1		144

Marriages by Denominations in the County of Essex, 1918.

City of Windsor and Town of Walkerville not included.

В грк».	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	24	3	15	3	2	· • · • • •							44
Presbyterian	1	19	5		3								19
Methodist	3	- g ·	81	2	2				1		2		97
Roman Catholic	9	1	5	109									124
Baptist	2	1	2	1	14								20
Congregationalist	2												2
Lutheran													
Evangelical Association									<u></u>				
Hebrew						<u></u>		<u></u>					••••
Salvation Army								····:		2			2
Other Denominations			1							·····	2	• • • • • •	3
Denomination not stated							<u>.</u>	<u></u>					
Total Grooms	4 1	21	106	115	21				1	2	4		311

Licenses, 221.

Banns, 90.

Marriages by Ages in the County of Essex, 1918.

	AGE.	15	20	25	30	3 5	40	45	50	5 5	60	6.5	70 & over	Not stated	TOTAL
1	15	25	56	22	ъ	1									109
-	20	6	58	34	10	3		1							112
-	2.5		7	t8	6	4	2	1							38
	30			5	7	6	2	1							21
-	3 5			5	1	3	t		2	1	1				-11
	40			1		2		4							7
BRIDES	45						1	1	1						3
3RI	50							1	3						4
-	5.5								1			1	1		3
1	60										1	1			2
1	6.5												1		1
	70 & over														
	Age not stated.													<u></u>	
	TOTALS.	31	121	82	29	19	6	9	7	1	2	2	2		311

Marriages by Denominations in the County of Frontenac, 1918.

City of Kingston not included.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Armv.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	8	2	6		<u></u>						1		17
Presbyterian	3	4	2	1									10
Methodist	5	3	43										51
Roman Catholic			1	-11									12
Baptist	1												1
Congregationalist													
Lntheran													
Evangelical Association													
Hebrew													
Salvation Army													1
Other Denominations			1								1		1
Denomination not stated													
TOTAL GROOMS	17	9	53	12							2		93]

Licenses, 83.

Banns, 10.

Marriages by Ages in the County of Frontenac, 1918.

	AGE.	15	20	2.5	30	35	40	45	50	5 5	60	6.5	70 & over	Not stated	TOTAL
	15	4	16	10	<u></u>			1		ļ					31
	20	1	14	15	2	3									• 35
	25		3	10	3	2									18
	30			1	1	1	1								4
	35				1	1									2
	40					1	1								2
-	45														
	50									1					1
	55														
	60														
	65														
&	70 over														
	ge not														
T	OTALS.	5	33	36	7	8	2	1		1				·	93

Marriages by Denominations in the County of Grey, 1918.

Town of Owen Sound not included.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association,	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	Toral Brines.
Anglican	10	7	` `		1						:		28
Presbyterian	9	68	11		6						2		96
Methodist	5	16	56		3		2				1	1	84
Roman Catholic				13									13
Baptist	9	3	-3	1	3						1		12
Congregationalist													
Lutheran		2 1	1		1		16	• • • • • • • • • • • • • • • • • • • •					20
Evangelical Association			t					1					2
Hebrew													
Salvation Army													
Other Denominations		3			1						7		12
Denomination not stated													
Total. Grooms	26	98 -	81	14	15		15	1			13	1	267

Licenses, 261

Banns, 6,

Marriages by Ages in the County of Grey, 1918.

	AGE.	1.5	20	2.5	30	3 5	40	45	50	5 5	60	6.5	70 &over	Not stated	TOTAL.
	15		?3	19	3	1									46
	20	4	39	52	13	6	1	1							116
	2.5		6	20	18	12	1	1							58
	30		1	3	3	3	1	2		1					17
_	3.5				1	2	3	3	3						12
_	40					1		1	2		1				5
,_	4.5				1				3	1	1	1			6
_	50						·								
	5.5										1	1			. 3
	60											3	1		4
	6.5														••••
å:	70 over.							1					1		1
	ge not ated.														<u>.</u>
To	TALS.	4	69	94	39	25	9	8	7	2	3	5	2		267

Marriages by Denominations in the County of Haldimand, 1918.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	8	5	8								• 2		23
Presbyterian	2	1	3	1	1			· · · · · ·					11
Methodist	8	10	32		1	1	2	2			-3		58
Roman Catholic				2									- 3
Baptist	1	1	3		6	1	2						14
Congregationalist													
Lutheran		1	1				6						8
Evangelical Association			1					3					4
Hebrew													
Salvation Army					·								
Other Denominations					.5		1				5		
Denomination not stated													
TOTAL GROOMS	19	21	18	3	10	-5	11	5			9		135

Licenses, 126.

Banns, 2.

Marriages by Ages in the County of Haldimand, 1918.

Age.	15	20	2.5	30	35	40	45	50	5.5	60	6.5	70 & over	Not stated	TOTAL
. 15	4	12	11	4										31
20	3	24	24	5	2	1	1							60
2.5	2	2	9	5	2	1								21
30		1	1	1	3									6
35				4		3		1						î
40						1								1
45														
50			,							1				1
5.5										1				1
60														
65														
70 & over														
Age no stated														
TOTAL	s 9	39	45	19	7	5	1	1		5				128

Marriages by Denominations in the County of Haliburton, 1918.

Grooms.	Anglican	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomin- ations.	Denomination not stated.	TOTAL BRIDDE.
Anglican	7	1		1									9
Presbyterian		4	2										6
Methodist	2	1	12										15
Roman Catholic													
Baptist					2								2
Congregationalist													
Lutheran													
Rvangelical Association													
Hebrew													
Salvation Army													
Other Denominations													
Denomination not stated													
TOTAL GROOMS	9	6	14	1	2								32

Licenses, 32.

Banns.

Marriages by Ages in the County of Haliburton, 1918.

	Age.	15	20	25	30	35	40	45	50	5.5	60	6.5	70 &over	Not stated	TOTAL.
	15	3	9	4	1										- 17
	20		6	5											11
	25				1	1									2
	30														
ř	35														
ES.	40								1						1
BRIDES.	45														
E .	50														
ĺ	5.5														
ı	60														
	6.5														
	70 & over										1				1
	Age not stated.														
	TOTALS	3	15	9	2	1			. 1		1				32

Marriages by Denominations in the County of Halton, 1918.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denominations.	Denomination not stated.	TOTAL BRIDES.
Anglican	25	4	3	1									33
Presbyterian	4	16	3	1	3								26
Methodist	3	8	24	1	1								37
Roman Catholic		1		1									.5
Baptist	1				3								4
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations											1		1
Denomination not stated													
TOTAL GROOMS	33	29	30	4	6						1		103

Licenses, 98.

Banns, 5.

Marriages by Ages in the County of Halton, 1918.

	AGE.	15	20	2.5	30	35	40	45	50	55	60	65	70 & over	Not stated	TOTAL.
	15	1	9	3	1	1		1							16
	20	2	7	19	6	3	2								39
	2.5		2	10	7	4	2								25
	30		1	2	4	3		1							11
	35			1		1	3	1	1						.7
	40					1							1		2
BRIDES	45								1		1				2
<u> </u>	50														,
	5 5														
	60											1 ·			1
	65														
-	70 k over														
	ge not stated.														
1	TOTALS	3	19	35	18	13	7	3			1	1	1		103

Marriages by Denominations in the County of Hastings, 1918.

City of Belleville and Town of Trenton not included.

Скоомь.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denominations.	Denomination not stated.	TOTAL BRIDER
Anglican	34	3	11	1				,	••••				49
Presbyterian	7	19	6	1									38
Methodist	9	10	105								1		125
Roman Catholic	5			36									38
Baptist			.5	1	-5						·		5
Congregationalist		•									·		
Lntheran	1												1
Evangelical Association		1	2					1		·			8
Hebrew													
Salvation Army													
Other Denominations			1								2		3
D enomination not stated		ļ			,								
Total Grooms	58	32	127	39				1			3		257

Licenses, 225.

Banns, 32,

Marriages by Ages in the County of Hastings, 1918.

AGE.	15	20	25	30	35	40	45	50	5.5	60	65	70 & over	Not stated	TOTAL
15	6	30	21	7	1	1								66
20	4	39	39	18	4	5	1	1						108
2.5		-1	18	16	1	1	1	2						43
30		ı	4	6	4	3	1							3.5
3.5				1	1	4	2							8
40					5		1	1	1	1				6
, 45							1							1
50								1						1
5.5										3				5
60	,													
6.5					i									
70 & over														
Age not stated.														
TOTALS	10	77	82	48	13	1 t	7	5	1	3				257

Marriages by Denominations in the County of Huron, 1918.

Вальку.	Anglican.	Presbyterian.	Methodist.	Roman Oatholic.	ist.	Congregationalist.	Lutheran.	Evangelical Association	ew.	Salvation Army.	ther Denomina- tions.	Denomination not stated.	1. BRIDES.
Grooms.	Angl	Pres	Meth	Rom	Baptist.	Cong	Luth	Evan	Hebrew	Salv	Other	Denc	Total.
Anglican	9	8	3	2	1		1						24
Presbyterian	7	81	29	•••••		1					••••	•••••	118
Methodist	5	22	78		3		3						111
Roman Catholic				20			1						21
Baptist		1	2										3
Congregationalist													
Lutheran		1					6			<u></u>			7
Evangelical Association			2					7					9
Hebrew											<u></u>		
Salvation Army											<u></u>		
Other Denominations			1								2		3
Denomination not stated													
TOTAL GROOMS	21	113	115	22	-4	1	11	7			2		296
	1	J)	J		1	1	1	1	ı		1

Licenses, 277.

Banns, 19.

Marriages by Ages in the County of Huron, 1918.

Age.	15	20	25	30	35	40	4.5	50	5 5	60	6.5	7 0 & over	No s ta ted	Тотаі
15		27	8	5	2	1	1							4
20		41	63	13	3	1								12
2.5		13	23	17	6	2	1							6
30		2	4	9	11	1	1	••••						
3 5				1	4	3	5	3						1
40					1	1		2	2	1				
45				1	1		2	2	1					
50									1	1				
5 5									1	1	1			
60						1								
6.5											1			
70 & over								,						
Age not stated.														
TOTALS.		83	98	46	28	12	13	6	5	3	2			50

Marriages by Denominations in the District of Kenora, 1918.

Town of Kenora not included.

GROONS BRIDGE.	Anglican,	Presbyterian	Methodist.	Roman Catholic.	Baptist,	Congregationalist	Lutheran.	Evangelical Association.	Hebrew,	Salvation Army.	Other Denomina- tions.	Denomination not stated.	Total Bridge,
Anglican	2				. 1								3
Presbyterian	1	3											4
Methodist	1		2										3
Roman Catholic				3									3
Baptist	1												1
Congregationalist						1							1
Lutheran							1						1
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations													
Denomination not stated													
TOTAL GROOMS	5	3	5	3	1	1	1						16

Licenses. 15.

Banns, 1.

Marriages by Ages in the District of Kenora, 1918.

AGE.	1 5	20	2.5	30	35	40	45	50	5 5	60	6.5	70 & over	TOTAL
15		1	3	1									 5
20		1	1	2									 4
2.5				1		1							 2
30			1	1									 2
3 5													
40						5							 2
4.5						1							 1
50													
5.5													
60													
6.5													
70 & ove	г												
Age n stated	ot I												
TOTAL	s	2	5	5		4							 16

Marriages by Denominations in the County of Kent, 1918.

City of Chatham not included.

биомь.	Anglican,	Presbyterian.	Methodist.	Roman Catholic.	Baptist,	Congregationalist.	Lutheran,	Evangelical Association.	Hebrew,	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	9	5	13	1	1				ļ .				29
Presbyterian	4	30	14		3						3		54
Methodist	5	10	76	1	4						2		98
Roman Catholic		2	1	39	1								43
Baptist	1	1	6	1	14								23
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations	1				1						2		4
Denomination not stated													
TOTAL GROOMS	20	48	110	49	.24						7		251

Licenses, 211.

Banns, 40.

Marriages by Ages in the County of Kent, 1918.

AGES	15	20	2.5	30	35	40	45	50	55	60	65	70 & over	Not stated	TOTAL
15	6	41	16	3										66
20	4	60	31	9	4	2								110
2.5		7	15	9	4	2	5							39
30			1	3	4	3	3	2						16
35				2	4									6
40						2	3		1					6
45								1						1
50						1	1		1					3
5 5										1				1
60												1		
6.5														
70 & ove	r											2		2
Age no stated														
TOTALS	. 10	108	63	26	16	10	9	- 3	2			3		251

Marriages by Denominations in the County of Lambton, 1918.

City of Sarnia not included.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist,	Congregationalist.	Lutheran.	Evangelical Association.	Hebiew,	Salvation Army.	Other Denomina- tions,	Denomination not stated.	TOTAL BRIDES.
Anglican	15	7	8		2					•••••			32
Presbyterian	3	33	12		2	1							50
Methodist	3	14	60		5						- 5		84
Roman Catholic				6									6
Baptist	1	5	4		ī								17
Congregationalist	1												1
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations		1	1										2
Denomination not stated													
TOTAL GROOMS	50	56	85	6	16	1					.5		152

Licenses, 185.

Banns. 7.

Marriages by Ages in the County of Lambton, 1918.

A ii.	1.5	20	2.5	30	3 5	40	4.5	50	5.5	60	6.5	70 . & over .s	Not tated	Тота
1.5	4	27	1.5	1	1	1								46
20	3	30	::0	7	. 4									66
2.5		á	15		:1		+							34
30			•)	7	7	-5	1				1			19
3.5				ú	5	5		1						10
40					1	3	.)	1	1	1		ļ,.		,
4.5							1		•5					3
50									1	1				:
5.5		·										1		1
60														
6.5											1	2		5
70 & over														
Age not state 1.			1											
TOTALS	7	62	- 51	?1	18	11	- 8	2	4	2		3		193

Marriages by Denominations in the County of Lanark, 1918.

Town of Smith's Falls not included.

									-				
G ROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist,	Congregationalist.	Lutheran,	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions,	Denomination not stated.	TOTAL BRIDES.
Anglican	30	1	4		-4								39
Presbyterian	10	26	11	1	3	-3							53
Methodist	5	5	18								1		29
Roman Catholic		1		26									27
Baptist	2	2	2		'?								8
Congregationalist		1	1										2
Lutheran							1						1
Evangelical Association													
Hebrew											· · · · · ·		
Salvation Army													
Other Denominations.			1						·		1		2
Denomination not stated													
TOTAL GROOMS	47	36	37	27	9	2	t				2		161

Licenses, 135.

Bauns, 26,

Marriages by Ages in the County of Lanark, 1918.

AGES.	1.5	20	25	30	3.5	40	45	50	5.5	60	6.5	70 & ove.	Not stated	TOTALS.
15	4	11	1	1	1									24
20	2	55	22	9	3									58
25		8	17	11	6	2	3	1						48
30				6	5	3								16
3.5			2		:	3	2							8
40				1		1								?
4.5							1	1			1			3
50										1				1
5.5										ı				t
60														
6.5														
70 & over	· · · · · · · · · · · · · · · · · · ·													
Age no														
TOTALS	. 6	44	48	28	17	7	6	2		2	1			161

Marriages by Denominations in the Counties of Leeds and Grenville, 1918.

Town of Brockville not included.

GRooms.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomin- ations.	Denomination not stated.	TOTAL BRIDES.
Anglican	19	8	17										44
Presbyterian	10	50	9	1									40
Methodist	13	65	75		4		1				1		116
Roman Catholic	4	1		21	1								27
Baptist			:;		1								4
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													,
Salvation Army													
Other Denominations											4		4
Denomination not stated						· · · · · ·							
TOTAL GROOMS	46	5 t	104	2.9	6		1				5		235

Licenses, 217.

Banns, 18.

Marriages by Ages in the Counties of Leeds and Grenville, 1918.

AGE.	15	20	2.5	30	3.5	40	45	50	5 5	60	6.5		Not stated	TOTAL.
15	10	36	r	1	1	1								56
20	5	44	25	16	7	5		5						101
2.5		4	19	8	5	1								37
30			4	9	2	3	2	1	1					22
3.5				1	1	1	1	5		1				7
40						t	2		1	1				5
45							1							1
50		:						2		1				3
5.5														
60												2		2
6.5											. 1			1
70 & over										1				
Age not stated.														
Totals.	15	84	55	35	16	9	6	7	2	3	1	2		235

Marriages by Denominations in the Counties of Lennox and Addington, 1918.

GROOMS.	Anglican,	Presbyterian,	Methodist.	Roman Catholic.	Baptist.	Congregationalist	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomin- ations.	Denomination not stated.	TOTAL BRIDES.
Anglican	11	4	8										23
Presbyterian	2	6	.2										10
Methodist	10	3	62								1		76
Roman Catholic				6									6
Baptist													
Congregationalist													
Lutheran													
Evangelical Association								1					1
Hebrew													
Salvation Army													
Other Denominations													
Denomination not stated													
TOTAL GROOMS	23	13	7.2	6				1		• • • • • • • • • • • • • • • • • • • •	1		116

Licenses, 112.

Banns, 4.

Marriages by Ages in the Counties of Lennox and Addington, 1918.

	AGE.	15	20	2.5	30	35	40	45	50	55	60	6.5	70 & over	Not stated	TOTAL
	15	2	19	9	2	1									33
	20	4	22	8	6	3									43
	25		3	9	5	3	2								22
	30			1	2	3			1						7
	35					1	1	1							3
SS	40				1		2			·					3
BRIDES.	45					1	1								5
BR	50														
	5 5									1					1
	60										1		1		2
	6.5														
	70 & over														
	Age not stated.														
	TOTALS	6	44	27	16	12	6	1	1	1	1		1		116

Marriages by Denominations in the County of Lincoln, 1918.

City of St. Catharines not included.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Oatholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	26	5	4	3									25
Presbyterian	6	23	5	5									36
Metho list	5	3	28	1	3						1		41
Roman Catholic	1		1	17							1		20
Baptist	1		1										-5
Congregationalist		1											1
Lutheran													
Evangelical Association								5					2
Hebrew													
Salvation Army													
Other Denominations		1			1						1		3
Denomination not stated												1	t
Total Grooms	31	30	39	23	4			3			3	1	141

Licenses, 132.

Banns, 9.

Marriages by Ages in the County of Lincoln, 1918.

AGE.	1.5	20	2.5	30	3 5	40	4.5	50	5.5	60	6.5	₹ 70 &over	Not stated	TOTAL
1.5	3	19	5	4										3 1
20	6	30	12	7	1									56
2.5		2	16	6	. 3	1								28
30			3	5	1	1	1	1						12
3.5					4	1		1	1	••••		1		8
40						1				••••				1
4.5	i					1								1
5.0								•••••	1			1		3
5.5									1					1
6.0										1				1
6.5										·				
70 & over									· · · · · ·					
Age no' stated.														
TOTALS.	9	51	36	22	9	5	1		3	1		2		141

Marriages by Denominations in the District of Manitoulin, 1918.

Grooms.	Anglican,	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	4				••••								1
Presbyterian	- 2	14	4	1					••••				21
Methodist	1		5										8
Roman Catholic	- 5			13									15
Baptist									,				
Congregationalist			,										
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations	1	1									-5		4
Denomination not stated													
Total Grooms	10	17	9	11							-3		53

Licenses, 43.

Banns

Marriages by Ages in the District of Manitoulin, 1918.

AGE.	15	20	2.5	30	3.5	40	4.5	50	5.5	60	6.5	& ov'r	Not stated	TOTAL.
15	2	12	6											50
20		11	3	3	. 3									19
25		1		1	i	1		• • • • • •						1
30				2		1	1							- 1
35					1		1				• • • • • •			-3
á 40											••••			
45														
50				·····				1						1
5.5						<u></u>								
60			<u></u>											
65	<u> </u>											1		1
70 & ove										1				1
Age no														
TOTAL	2	24	9	5	5	2	2	1		1		1		5:

Marriages by Denominations in the County of Middlesex, 1918.

City of London not included.

GROOMS.	Anglican.	Presbyterian,	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomin- ations.	Denomination not stated.	Total Brides.
Anglican	11	4	э		1	1					•••••		26
Presbyterian	9	52	12		4								77
Methodist	12	9	60		4			1		1			87
Roman Catholic				3									3
Baptist	t	2	- 2		4						•••••		9
Congregationalist													
Lutheran													
Evangelical Association .													
Hebrew													
Salvation Army										1			1
Other Denominations											2		2
Denomination not stated.													
TOTAL GROOMS	33	67	83	3	13	1		1		2	2		205

Licenses, 201.

Banns, 4.

Marriages by Ages in the County of Middlesex, 1918.

	AGE.	15	20	25	30	35	40	45	50	55	60	6.5	70 & over	Not stated	TOTAL
	15	2	9	8	3	3									25
	20		41	27	11	4	1								84
	25		7	25	15	4	2	1							54
	30			5	4	3	4	3	1		1	1			22
	35				4	1	3	1							9
ŝ	40				1	1			1	1	1				5
[2]	45							1	2						3
BRID	50									1					1
	5 5									1		1			2
	60														
	6.5														
	70 & over														
	Age not atated.														
ĺ	TOTALS	5	57	65	38	16	10	6	4	3	2	2			205

Marriages by Denominations in the District of Muskoka, 1918.

• G ROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist,	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denominations.	Denomination not stated.	TOTAL BRIDES.
Anglican	9	4	6				2				•••••		21
Presbyterian	7	21	8								1		37
Methodist	2	3	15	5									22
Roman Catholic	1		1	6									8
Baptist		t			5						1		7
Congregationalist													
Lutheran													
Evangelical Association										1			1
Hebrew													
Salvation Army													
Other Denominations		1											1
Denomination not stated													
Total Grooms	19	30	30	8	á		2			1	2		97

Licenses, 92.

Banns, 5.

Marriages by Ages in the District of Muskoka, 1918.

	AGE.	15	20	25	30	3 5	40	45	50	5 5	60	6.5	70 & ov'r	Not stated	Total.
	15		8	5	5	2									20
	20	1	18	11	7	5	1								43
	2.5		4	5	5	2	1		1						18
	30				1		3								3
	3 5				2	1				1					4
ES.	40						1	<u></u>	1	1			1		4
BRIDES	45									1					t
B	50								1						1
	5 5							1			1	1			3
	60														
	6.5							<u></u>							
	70 & over													•••••	
	Age not stated.														
	TOTALS.	1	30	21	20	10	ő	1	3	3	i	1	t		97

Marriages by Denominations in the District of Nipissing, 1918.

No. 20°

Town of North Bay not included.

Вирен.	Anglican.	Presbyterian.	Methodist.	an Catholic.	list.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	ther Denomina-	enomination not stated.	TOTAL BRIDES,
GROOMS.	Ang	Pres	Metl	Roman	Baptist.	Con	Lat	Eval	Heb	Salv	Othe	Dene	T _o
Anglican	. 2												2
Presbyterian		6											6
Methodist		. 1											1
Roman Catholic	. 1		2	99		1							103
Baptist													
Congregationalist													
Lutheran						•••••	1						1
Evangelical Association)												
Hebrew	• • • • • • • • • • • • • • • • • • • •						,						
Salvation Army													
Other Denominations.	• • • • • • • • • • • • • • • • • • • •												
Denomination not stated	1												
TOTAL GROOMS	. 3	:	9	99		1	1						113

Licenses, 38,

Banns, 75,

Marriages by Ages in the District of Nipissing, 1918.

				1		t	1	1	1	1	1		1	1	
	AGE.	15	20	25	30	35	40	45	50	5 5	60	6.5	70 & ov'r	Not stated	TOTAL.
	15	4	53	15	3	2									47
	20	5	13	11	9	5	1		1						45
	2.5	1	3		1	1			1						7
	30				1	3	1	1							6
	35		1		1	-5	2								6
	40						1								1
3	4 5									1					1
DALDES	50														
-	5.5														· · · · · · · ·
	60														
	6.5														
	70 & over														
	Age not stated.														
	TOTALS	10	10	36	15	13	5	1	2	1					113

Marriages by Denominations in the County of Norfolk, 1918.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	9	1	1	1	3								14
Presbyterian	1	10	4										18
Methodist	3	5	41		6		:2					• • • • • •	57
Roman Catholic			1	5								• • • • • • • • • • • • • • • • • • • •	- 6
Baptist	2	1	3	1	21	1							29
Congregationalist													
Lutheran			1				3						4
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations													
Denomination not stated													
TOTAL GROOMS	18	17	51	î	-59	1	5						128

Licenses, 119.

Banns, 9.

Marriages by Ages in the County of Norfolk, 1918.

AGE	15	20	25	30	35	40	45	50	5 5	60	6.5	70 & over	Not stated	TOTAL
15	7	24	5	3	1									40
20	3	24	15	6	1									49
2.5		3	6	3	5	1	1							16
30			3	2	5	3	1							10
35				1		1	1							3
40						1	1	1						3
45						1			1					.)
50							1							:)
5 5								i		1				-3
60														
6.5														
70 & ove	1													
Age n														
Тота	Ls 10	51	28	15	6	7		1	1	1				128

Marriages by Denominations in the Counties of Northumberland and Durham, 1918.

Includes Cobourg and Port Hope.

SHOUNS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist	Congregationalist	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomin- ations.	Denomination not stated.	TOTAL BRIDES.
Anglican	14	3	12	1	1								31
Presbyterian	5	-94	16								1		50
Methodist	11	30	131	4	3	1	2				1		183
Roman Catholic	1			18									19
Baptist	4	4	5										13
Congregationalist		-5	4										6
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations											- 2		2
Denomination not stated													
TOTAL GROOMS	35	67	168	23	4	1	2				4		304

Licenses, 292.

Banns, 12.

Marriages by Ages in the Counties of Northumberland and Durham, 1918.

Agr	. 15	20	25	30	35	40	45	50	5 5	60	6.5	70 & over	Not stated	TOTAL
1.5	8	25	19	2	1									5
20	4	56	19	13	3	3								12
2.5		8	32	12	8	2	1	1						6-
30			7	9	5	1	3	1						25
3.5				2	3	6	2	2	1					16
40		1				1	ſ	3						(
4.5							5							
50									1		1			2
5 5	5							1	1		1			
60)													
65	5													
7 (& ov	_ [
Age i														
Тота	La. 12	90	107	38	20	13	11	8	3		2			304

Marriages by Denominations in the County of Ontario, 1918.

Вялоке.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	ongregationalist.	Lutheran.	Vangelical Association.	ebrew.	Salvation Army.	er Denomin- ations.	Denomination not stated.	AL BRIDES.
Grooms.	A D	P.e.	Met Met	Roi	Bar	Cor	Lut	Eva	Hel	Sal	Other	Det	TOTAL
Anglican	8	5	6		<u></u>								19
Presbyterian	10	34	10								1		55
Methodist	3	6	64		. 3								75
Roman Catholic				7									7
Baptist		5	4		1								7
Congregationalist													
Lntheran													
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations						1				1			2
Denomination not stated													
TOTAL GROOMS	21	47	84	7	3	1				1	1		165

Licenses, 158.

Banns, 7.

Marriages by Ages in the County of Ontario, 1918.

AGE.	15	20	2.5	30	3 5	40	45	50	5 5	60	65	70 & over	Not stated	TOTAL
15	5	15	8	2	1									31
20	1	25	21	12	7	1	1	1						69
2.5		1	18	6	5	5	2							37
30				2	3	1	1				• • • • • •			7
3 5				2	2	2	4	1	1					15
40						1	1							
4 5								1				• • • • • • • • • • • • • • • • • • • •		1
50														
5 5									1		2			3
60											3			3
6.5														
70 & over														
Age not stated.														
TOTALS.	6	41	47	24	18	10	9	3	2		5			165

Marriages by Denominations in the County of Oxford, 1918.

City of Woodstock and Town of Ingersoll not included.

GROOMS.	Anglican,	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association,	Hebrew.	Salvation Army.	Other Denomina- · tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	5	1	4		1								11
Presbyterian		-2:3	9	1	- 1	1	-2						40
Methodist	4	15	37	1	5	1							63
Roman Catholic				.5									2
Baptist			14		16								30
Congregationalist													
Lutheran							5	1					6
Evangelical Association		1	1				1	1					4
Hebrew													
Salvation Army													
Other Denominations											9		9
Denomination not stated				,							l		
TOTAL GROOMS	9	40	65	1	36	2	8	-3			Э		165

Licenses, 154.

BRIDES.

Banns, 11.

Marriages by Ages in the County of Oxford, 1918.

AGE.	15	20	25	30	3 5	40	45	50	5 5	60	65	70 & over	Not stated	TOTAL
15	6	16	ī	3	2	1								85
20	3	34	19	9	6									71
25		1	15	12	5		1							34
30			1	3	3	1	5			1				1
3 5					5		1		1	1	1			
40								- 2						
4 5								1	1			•••••		
50														
5 5								. 1						
60									1			1		
65											1			
70 & over														
Age not stated.													<u></u>	
TOTALS	9	51	42	27	18	• •	4	4	3		2	1		16

Marriages by Denominations in the District of Parry Sound, 1918.

Town of Parry Sound not included.

GROOMS.	Anglican.	Presbyterian	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	8	3	5					1			1		18
Presbyterian	3	17	5										33
Methodist	-3	5	30		3		1						42
Roman Catholic			1	2.2									23
Baptist			1										1
Congregationalist													
Lutheran											• • • • • •		
Evangelical Association											• • • • • • •		
Hebrew													
Salvation Army													
Other Denominations			1										1
Denomination not stated													
TOTAL GROOMS	13	35	40	24	-5		1	1			1		107

Licenses, 88.

Banns, 19.

Marriages by Ages in the District of Parry Sound, 1918.

	AGE.	15	20	2.5	30	3.5	40	4.5	50	5.5	60	6.5	Not stated	TOTAL
	15	3	9	9	8	1	1	1				,	 	33
1	20	1	18	16	7	5	1	1					 	46
	2 5		3	3	6	4	2						 	17
	30			1	2	2	1	1				• • • • • • • • • • • • • • • • • • • •	 	7
	3 5						1						 	1
	40						1					1	 	- 5
- L	4.5						1						 	1
4	50										1		 • • • • • •	1
	5 5	• • • • • • • •											 	
	60												 •••••	
	6.5												 	
	70 & over												 	
	Age not stated.												 	
-	TOTALS	4	29	29	23	9	8	3			1	1	 	107

Marriages by Denominations in the County of Peel, 1918.

Валркя.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	tions.	Denomination not stated.	AL BRIDES.
Grooms.	Ang	Pres	Met	Коп	Bap	Con	Luti	Eval	Heb	Salv	Other	Den	TOTAL
Anglican	12	t	1										14
Presbyterian	4	14	4	1									23
Methodist	5	7	31		1		1				1		43
Roman Catholic				5									5
Baptist	5	1			5								8
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations													
Denomination not stated													
Total Grooms	20	53	36	6	6		1				1		93

Licenses, 87.

Banns, 6.

Marriages by Ages in the County of Peel, 1918.

	Age.	15	20	2.5	30	3.5	40	45	50	55	60	65	70 & over	Not stated	TOTAL.
	15	3	2	2	1										8
	20		12	13	7	2		1							35
	25		3	14	5	5									27
	30			2	2	5	2		1						12
	3 5					1			5						3
ró.	40				1	1		1		i	1				5
BRIDES.	45						1	1							2
вкі	50														
	5 5														
	60														
	6.5										1				1
	70 & over														
	Age not stated.														
	TOTALS.	3	17	31	16	14	3	3	3	1	2				93

Marriages by Denominations in the County of Perth, 1918.

City of Stratford not included.

GROOMS.	Anglican,	Presbyterian.	Methodist,	Roman Catholic,	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	6	5	7										18
Presbyterian	?	28	10				t	2			1		44
Methodist	3	t0	49		2		2				1		67
Roman Catholic				18			1						19
Baptist													
Oongregationalist													
Lutheran		1	3	1			12						17
Evangelical Association		1	1				1	7					10
Hebrew													
Salvation Army			1										1
Other Denominations			i								5		6
Denomination not stated													
TOTAL GROOMS	11	45	72	19	2		17	9			7		182

Licenses, 160.

Banns, ??.

Marriages by Ages in the County of Perth, 1918.

	Aoe.	15	20	25	30	3 5	40	45	50	5 5	60	65	70 &wver	Not stated	TOTAL.
	15	1	11	9		1		1							23
	20	1	33	35	8										77
	2.5		7	5.5	13	9	5								53
	30		1	2	4	3	2		1						13
	35					1	2	1							4
r,	40						3								2
BRIDES.	45					1			3						4
BRI	50						1		1		1				3
	5.5										- 2	1			3
	60														
	6.5														
	70 & over														
	Age not stated.														
	TOTALS.	2	52	68	25	15	9	2	5		3	1			182

Marriages by Denominations in the County of Peterborough, 1918.

City of Peterborough not included.

Grooms.	DIGINES	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina tions.	Denomination not stated.	Total Bridge.
Anglican		•3	3	5	t									8
Presbyterian			1	4		3								16
Methodist		3	5	19	1									58
Roman Catholic					16									16
Baptist		1		1		3								5
Congregationalist					i									
Lutheran														
Evangelical Associat	ion .													
Hebrew														
Salvation Army											1			. 1
Other Denominations	5													
Denominationnotsta	ted.								·					
Total Grooms		6	17	27	18	6					1			: 74

Licenses, 57.

Banns, 17.

Marriages by Ages in the County of Peterborough, 1918.

	Λαε.	1.5	20	2.5	3.0	3.5	40	4.5	50	5.5	6.0	6.5	70 & over	Not stated	Тотаз.
	15	1		:;	•)										11
	20		11	15	5										31
	2.5	• • • • • • • •	2	5	6	1	3								-20
	30		5	,	3	1	1								6
	3 5														
vi i	40							2		••••					2
BRIDES	4.5														
BRI	50							1							1
	5.5					·		····							
	60														
	6.5										·				····
,	70 & over											·····	.,	<u></u>	
	Age not stated.							·				.,			
1	TOTALS	1	53	26	15	2	4	3	• • • • • •						71

Marriages by Denominations in the Counties of Prescott and Russell, 1918.

ssaging B (Frooms.	Anglican.	Presbyterian.	Methodist.	Roman Catholie.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	Total Brides.
Anglican	ti			• • • • • • •									6
Presbyterian	1	16	4		5								23
Methodist	1												
Roman Catholic	1	,		236			1						235
Baptist	1	.5	1		5								
Congregationalist													
Lutheran													
Evangetical Association													
Hebrew													
Salvation Army													
Other Denominations													
Denomination not stated													
Total Grooms	10	- 20	11	236	. 7		1						285

Licenses, 153,

Banns, 132,

Marriages by Ages in the Counties of Prescott and Russell, 1918.

AGE.	15	20	25	30	3 5	40	45	50	5.5	60	6.5	70 Not & over state	
15	14	36	27	1	3								. 85
20	4	69	38	11									12:
2.5		4	21	10	7					1 ·			. 45
30		1	1	7	5	-3			• 1				. 17
3 5				1	3	4	3						7
40		1				1							
45							2	• >			•3		
50							1		1				. 9
5 5				,					1	1			
60											:2		
65											1	1	
70 & over													
Age not stated.													
TOTALS	18	109	87	30	16	7	5	2	3	-5	ő	1	285

Marriages by Denominations in the County of Prince Edward, 1918.

ема пи В С воомя.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denamin- ations.	Denomination not stated.	TOTAL BRIDES.
Anglican	8		6	1							1		16
Presbyterian	1	4	1										6
Methodist	7		49	1							3		63
Roman Catholic				1									1
Baptist			5										2
Congregationalist													
Lntheran													
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations		1	2		1						2		6
Denomination not stated													
TOTAL GROOMS	16	9	60	3	1						5		94

Licenses, 93.

Banns, 1.

Marriages by Ages in the County of Prince Edward, 1918.

Age.	15	20	25	30	3 5	40	45	50	5 5	60	6.5	70 & over	Not stated	TOTAL
15	8	13	10					1						3
20	1	30	8	6	1	5								3
2.5		1	1	3	5									
30				5	2									
3 5					5	1								3
40			1				1							2
45						1						1		2
50									1	1				2
5 5														
60										2	1			3
6.5												2		2
70 & over														
Age not stated.														
TOTALS.	9	34	20	10	7	4	1	1	1	3	1	3		94

Marriages by Denominations in the District of Rainy River, 1918.

BRIDES.	•	ian.	÷	atholic.		Congregationalist.		cal ation.		Army.	enomin-	ation not	BRIDES.
GROOMS.	Anglican	Presbyterian	Methodist.	Roman Catholic.	Baptist.	Congrega	Lutheran	Evangelical Association.	Hebrew.	Salvation	Other Denomin	Denomination stated.	TOTAL B
Anglican	1	1	3										4
l'resbyterian		10	2	2	1		2						17
Methodist	1	1	7	1			1						11
Roman Catholic	2	1		7									10
Baptist													
Congregationalist		1											1
Lutheran							10						10
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations				1							2		
Denomination not stated													
TOTAL GROOMS	4	14	11	11	1		13				2		56

Licenses, 48.

Banns, S.

Marriages by Ages in the District of Rainy River, 1918.

	AGE.	15	20	25	30	3 5	40	45	50	5 5	60	6.5	70 & over	Not stated	TOTAL.
	15	1	3	14	3			1							21
-	20		4	9	5	4	1								23
-	25				. 3	1			1						.5
	30						1	3							- 43
-	3 5			1		2									
	40														
	4.5								1						1
	50														
	5.5														
	60														
	6.5														
	70 k over														
	ge not stated.														
T	OTALS.	1	6	24	11	7	2	3	- 2						56

Marriages by Denominations in the County of Renfrew, 1918.

Town of Pembroke not included.

				-					-		-		
GROOMs.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	s :	4	2	3									17
Presbyterian	1	29	3				1						37
Methodist	3	î	14	1	1		1	1			1		29
Roman Catholic		3		70									73
Baptist	1	-2	1		3								î
Congregationalist													
Lutheran				1			22						23
Evangelical Association			2	1	1		2	7					13
Hebrew													
Salvation Army													
Other Denominations											2		2
Denomination not stat'd												1	1
TOTAL GROOMS	16	45	22	76	5		26	8			3	1	202

Licenses, 139.

Banns. 63.

Marriages by Ages in the County of Renfrew, 1918.

AGE.	15	20	2.5	30	3 5	40	45	50	5 5	60	6.5	70 & over	Not stated	TOTAL
15	5	20	19	3	1									48
20	1	36	31	10	6	1								85
25		5	16	15	7	1								44
30			3	3	7	2	1							16
3.5					3									3
40						2			1					3
4 5						• • • • • •	1	ı						2
50										1				1
5 5														
60	,													
6.5														
70 & over														
Age not stated.														
TOTALS	6	61	65	31	24	6	2	1	1	1				202

Marriages by Denominations in the County of Simcoe, 1918.

Towns of Barrie, Collingwood, Midland and Orillia not included.

GROOMS.	Anglican.	Presbyterian.	Methodist	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	20	11	6	1				• • • • • •	<u></u>				38
Presbyterian	17	40	13		1	1					3		75
Methodist	9	11	49	1	1						2		73
Roman Catholic	1	2	1	33									37
Baptist	1	2											3
Congregationalist			1										1
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army										1			1
Other Denominations			í		t						2		4
Denomination not stat'd													
TOTAL GROOMS	48	66	71	35	3	1				1	7		232

Licenses, 201.

Banns, 31,

Marriages by Ages in the County of Simcoe, 1918.

AGE.	15	20 .	2.5	30	3 5	40	45	50	5.5	60	6.5	70 & over	Not stated	TOTAL
15	4	19	19	3										45
20	3	31	35	12	6									87
2.5		7	28	5	8		1	1						50
30		1	5	9	7	2	1	1						26
3 5					4		2		1					7
40						2	2	2	2		1			9
45							2	1						3
50							1	1	1					3
5 5												1		1
60											1			1
6.5														
70 & over														
Age no stated.														
TOTALS	7	58	87	29	25	4	9	6	4		2	1		232

Marriages by Denominations in the Counties of Stormont, Dundas and Glengarry, 1918.

Town of Cornwall not included.

ев при В В Спости	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist,	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomin- ations.	Denomination not stated.	TOTAL BRIDES.
Anglican	6	4	6	1			5				1		20
Presbyterian	;;	55	18	1			3						80
Methodist	8	13	27				2						44
Roman Catholic	4	5		79									85
Baptist		1	3		2								6
Congregationalist													
Lutheran	1	3	3				4						11
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations	1	2									1		4
Denomination not stated													
Total Grooms	18	79	57	81	2		11				2		250

Licenses, 197.

Banns, 53.

Marriages by Ages in the Counties of Stormont, Dundas and Glengarry, 1918.

	AGE.	15	20	2.5	30	3 5	40	45	50	5.5	60	65	70 & over	TOTAL.
-	15	10	24	13	4	2								 53
-	20	2	42	42	12	5	4		·····					 107
-	2.5	1	3	19	12	8	2			1				 46
-	30			5	4	5	3	4	1	1				 23
-	3 5				1	5	1	1	1					 6
-	40						3	1	2	1				 7
E	4.5							1						 1
BRIDES	50									2		1		 3
Ŧ -	5 5									1	1			 2
-	60											1	1	 2
-	6.5													
	70 & over													
	Age not stated.													
,	TOTALS.	13	G9	79	33	22	13	7	4	Ĝ	1	2	1	 250

Marriages by Denominations in the District of Sudbury, 1918.

Town of Sudbury not included.

ед о 128 9 9 С ROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomin- ations.	Denomination not stated.	TOTAL BRIDKS.
Anglican	5	1		3									8
Presbyterian		6	1	1							1		9
Methodist	2		4										6
Roman Catholic	1		1	30							. 1		33
Baptist													
Congregationalist													
Lutheran							22						23
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations		1											1
Denomination not stated													
TOTAL GROOMS	8	9	6	33			22				2		

Licenses, 67.

Banns, 13,

Marriages by Ages in the District of Sudbury, 1918.

	Age.	15	20	25	30	3 5	40	45	50	55	60	65	70 & over	Not stated	TOTAL.
	15	4	11	12	1										31
	20		7	9	3	i		i							21
	25		4	5	4	5						1		·····	19
	30			1	2	2								<u></u>	
ES.	3 5								2			·····		·····	
BRID	40						ļ		<u></u>	<u></u>	<u></u>	<u></u>		·····	
B	45							1	<u></u>		<u></u>	·····		<u></u>	1
	50	• • • • • • • • • • • • • • • • • • • •					<u></u>	<u></u>	• • • • • •	<u></u>		·····		<u></u>	<u> </u>
	55			<u></u>	·····	<u></u>	<u></u>	<u></u>			<u></u>				
	60	••••••	•••••				<u></u>	<u></u>	<u></u>						
	65			<u></u>			<u> </u>	<u></u>				1			1
	70 & over										<u></u>				
	Age not stated.											<u></u>			
	TOTALS.	4 -	25	27	10	8		3	-5			2			80

Marriages by Denominations in the District of Thunder Bay, 1918.

Cities of Fort William and Port Arthur not included.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated,	TOTAL BRIDES.
Anglican	9		1										3
Presbyterian		5											5
Methodist			1										1
Roman Catholic			1	3									4
Baptist													
Congregationalist													
Lutheran							1						1
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations													
Denomination not stated													
TOTAL GROOMS	2	5	3	3			1						14

Licenses, 12,

Banns, 2.

Marriages by Ages in the District of Thunder Bay, 1918.

AGE.	15	20	25	30	3 5	40	45	50	5 5	60	65	70 & over	Not stated	TOTAL
15		2	1											
20	1	3	1			1								
2.5					1									
30		1												
3 5														
40														
4.5					1									
50											1			
5.5						1								
60									·					
6.5									ļ			_ :	<u></u>	
70 & over			ļ						İ					
Age no stated														
TOTAL	.s 1	6	2		. 2	3					1			1

Marriages by Denominations in the District of Timiskaming, 1918.

Town of Cobalt not included.

Segular R	Anglican.	Presbyterian,	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	50	3	3	1			1						24
Presbyterian	5	25	4	2			·····						33
Methodist	5	4	31	3	1								34
Roman Catholic	-3	-3		65			1						70
Baptist	1	3	2		5								11
Congregationalist													
Lutheran	1		1				28						30
Evangelical Association													
Hebrew													
Salvation Army		1	1										•)
Other Denominations											1		4
Denomination not stated													
TOTAL GROOMS	31	38	32	71	6		30				4		51.

Licenses, 178.

Banns, 31.

Marriages by Ages in the District of Timiskaming, 1918.

	Age.	15	20	25	30	3 5	40	45	50	5 5	60	6.5	70 & over	Not stated	TOTAL.
	15	7	26	18	5	3									59
	20	5	20	28	15	4	1	.5							7.3
	2.5		3	14	11	8	3	3							41
	30		í	4	6	5		1							17
	3.5			1		3	2	2	1						9
ś	40						1	5					1		1
BRIDES.	4.5						1		1						-0
BR	50							1	3	1					1
	5.5								1						1
	60														
	6.5														
	70 & over														
	Age not stated.														
	TOTALS	12	50	65	37	23	8	10	5	1			1		212

Marriages by Denominations in the County of Victoria, 1918.

Town of Lindsay not included.

GROOMS.	Anglican.	Presbyterian,	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	Total Bridge.
Anglican	6	-5	3		-3		····						13
Presbyterian	5	18	8		1								32
Methodist	4	11	43		1								59
Roman Catholic	1			5									6
Baptist		5			1								3
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations													
Denominationnot stated													
TOTAL GROOMS	16	33	54	5	5								113

Licenses, 106,

Banns, 7.

Marriages by Ages in the County of Victoria, 1918.

	AGE.	15	20	25	30	3 5	40	45	50	5 5	60	65	70 & over	Not stated	TOTAL.
	15	5	11	3	1										17
	20	1	\$5	16	7	1									50
	2.5			15	3	' 5	5								25
	30		•3	2	5	.5	1								12
	35					5		1							3
si l	40						1	1	1						3
BRIDES.	45									-5					2
BR	50									1					1
	5 5														
	60														
	6.5														
	70 & over														
	Age not stated.														
	TOTALS	3	38	36	16	10	4	2	1	3					113

Marriages by Denominations in the County of Waterloo, 1918.

Cities of Galt and Kitchener not included.

GROOMS.	Anglican,	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denominations.	Denomination net stated.	TOTAL BRIDES.
Anglican	10	4	1								1		16
Presbyterian	1	16	4				1				1		23
Methodist		8	13	2			3				1		27
Roman Catholic				33			5.						- 35
Baptist	1		8		6		1				1		1:2
Congregationalist													
Lutheran	1		5	2			37	- 3			2		19
Evangelical Association		1					3	11					14
Hebrew													
Salvation Army													
Other Denominations			3				1				38		42
Denomination not stated													
TOTAL GROOMS	13	30	29	37	6		47	13			44		218

Licenses, 154.

Banns, 64.

Marriages by Ages in the County of Waterloo, 1918.

	Aor.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	TOTAL
	15	5	21	7	2	2									37
	20	1	32	44	16	3									9(
	2.5		3	29	12	3		2							45
	30			5	5	7									17
	3 5			1		6	1	1	1						10
1	40				1	2	3	1				1			
	45														
=	50														
	5.5										1				
	60														
	65														
	70 & over														
	Age not														
	TOTALS	6	46	86	36	23	4	4	1		1	1			218

Marriages by Denominations in the County of Welland, 1918.

Cities of Niagara Falls and Welland not included.

G воомя.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomin- ations.	Denomination not stated.	TOTAL BRIDES.
Anglican	18	5					1				1		25
Presbyterian	5	9	3				1				4		22
Methodist	î	-3	.).)	1			-3	1	1		5		41
Roman Catholic	1	*****		15	1		1						21
Baptist	1		3	t	б						1		11
Congregationalist					1								1
Lutheran	2						8						10
Evangetical Association								1					1
Hebrew	1								·				1
Salvation Army										• • • • • • •			
Other Denominations	1	1									9		11
Denomination not stated													
TOTAL GROOMS	36	17	27	20	8		13	2	1		50		144

Licenses, 133.

Banns, t1.

Marriages by Ages in the County of Welland, 1918.

1	AGE.	15	20	2.5	30	35	40	45	50	5 5	60	6.5	70 & ov'r	Not stated	TOTAL
ĺ	1.5	7	19	4	1										31
	20	5	26	19	7										57
	2.5		á	8	3	3									19
	30			t	4	5	2		1			1			11
	3 5				1	2	1	2	1	1					11
	40				5	1	2		1						6
ž.	45						1	i	1						3
BRIDES.	50									2					
E	5 5														
	60											3			3
	6.5								1 -				•••••		1
	70 & over										.				
	Age not stated.														
	TOTALS	12	50	3.9	18	8	9	3	5	3		4			144

Marriages by Denominations in the County of Wellington, 1918.

City of Guelph not included,

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomin- ations.	Denomination not stated.	TOTAL BRIDES.
Anglican	9	7.	3	1	1			1					22
Presbyterian	. 2	45	10	1		1							60
Methodist	3	18	35	1	1	1					1		
Roman Catholic				15									15
Baptist		4	2		2								
Congregationalist			3										5
Lutheran													2
Evangelical Association													
Hebrew									1				1
Salvation Army													
Other Denominations		2									10		12
Denomination not stated													
Total Grooms	14	76	53	18	4	4	2	1	1		12		185

Licenses, 168.

Banns, 17.

Marriages by Ages in the County of Wellington, 1918.

	AGE.	15	20	25	30	3 5	40	45	50	5 5	60	65	70 & over	Not stated	TOTAL
	15	1	12	10	5	2									31
-	20	1	32	33	10	6									85
	25		4	15	13	5	4			1					45
	30			4	5	1					1				11
	35			1	2	1	4	2							10
-	40					1	1		2						4
	45							1							1
	50								2						2
	5.5										1				1
-	60										1				1
	6.5							1							1
8	70 c over														
	ge not tated.														
	TOTALS	2	48	63	35	16	9	4	4	1	3				185

Marriages by Denominations in the County of Wentworth, 1918.

City of Hamilton not included.

B B B B B B B B B	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	Total Bridge.
Anglican	17	5	1	8	્					l	1		32
Presbyterian	1	10	3		3								16
Methodist	3	1	18		5						1		61
Roman Catholic	1			9									10
Baptist	3				î								9
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew									1				1
Salvation Army													
Other Denominations			1										1
Denomination not stated:												1	1
TOTAL GROOMS	-51	1"	26	1:	16				1		-2	1	131

Licenses, 123.

Banns, 8.

Marriages by Ages in the County of Wentworth, 1918.

A	GE.	15	20	2.5	30	3 5	40	45	50	5 5	60	6.5		Not stated	TOTAL.
	15	6	7	6	2										21
	20	2	30	15	4	2	2								55
	25		3	11	10	3									26
	30		1		8	3	1	2							15
	3 5				1	1	2	1	1						6
5	40				1		2	1	1						5
	45										1				1
	50										1	•••••	1		2
	5 5												•••••	<u></u>	
	60														
	65		•••••							<u></u> .			•••••	<u></u>	
	70 over														<u></u>
	e not sted.														
To	DTALS		11	32	26	8	7	4	2		2		1		131

Marriages by Denominations in the County of York, 1918.

City of Toronto not included.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina-	Denomination not stated.	Total Bridge.
Anglican	15	1	11	:2	5						3		70
Presbyterian	10	10	16		1						1		€8
Methodist	9	16	109	5	1	1	1			1	.2		14%
Roman Catholic	1	1	5	5									9
Baptist	3	-5	.;		6								13
Congregationalist													
Lutheran		1					1						2
Evangelical Association													
Hebrew									1				. 1
Salvation Army													
Other Denominations	.;	1	4								17		24
Denomination not stated													
TOTAL GROOMS	70	65	144	9	13	1	-5		1	1	- 23		399

Licenses, 319.

Banns, 10.

Marriages by Ages in the County of York, 1918.

	Age.	15	20	25	30	3 5	40	45	50	5 5	60	6.5	70 & over	Not stated	TOTAL.
	15	8	24	14	3	3									51
	20	5	49	62	16	11	1				1				115
	25	1	7	20	20	9	3	1	2						60
	30		3	5	12	5	1		2			1			28
	3 5				2	7	1	4	-5						16
S.	40						1	1	. 2			- 3			+;
BRIDES	45					3	1	4	3	1	1	1			1 +
BR	50									1	1				•;
	5 5										1	1			4]
	60												1		1
	65														
	70 & over												1		1
	Age not stated.														
	TOTALS	14	82	101	53	37	8	10	11	-3	1	5	2		329

Marriages by Denominations in the Cities of Ontario, 1918.

GROOMS.	Anglican,	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist,	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions	Denomination not stated	Total Bridges.
Anglican	1,636	357	315	160	107	13	14	5	3	2	21		2,630
Presbyterian	359	1,180	299	87	98	21	16	-3	5	1	29		2,093
Methodist	338	365	1,384	90	105	11	5.5	5	2	1	21	5	2,349
Roman Catholic	163	83	83	1,365	36	1	7		1		14	1	1,754
Baptist	117	104	119	34	271	5	10			-5	9	1	667
Congregationalist	11	14	14	5	6	24	1	5			2		76
Lutheran		10	55	10	-6	1	176	1		1	3		236
Evangelical Association		1	6		5			11					23
Hebrew		3	- 3	1					308				314
Salvation Army	7	4	7				1			50	1		50
Other Denominations	18	21	17	10	12	5	2	3			201		286
Denomination not stated					i							4	5
Total Grooms	2,655	2,142	2,268	1,754	644	78	219	29	316	37	303	8	10,483

Licenses, 9,476.

Banns, 1,007.

Marriages by Ages in the Cities of Ontario, 1918.

AGE	. 15	20	2.5	30	3 5	40	45	50	5 5	60	65	70 & over	Not stated	TOTAL
1.5	3:21	1,037	407	81	30	9	8	3						1,899
20	138	1.758	1.418	471	150	50	15	3	1	ļ				4,044
2.5	5	556	923	517	333	110	39	12	6	2		2		2,174
30	- 2	32	155	309	290	135	49	18	9	1		1		1,001
3 5		. 2	5.5	7:0	214	141	22	47	21	9	2			625
40		. 1	8	17	57	88	79	37	22	11	10	2		332
45			5	3	6	29	67	41	21	17	6	3		195
5.0					5	3	12	27	28	19	5	4		99
5.5					1		2	10	24	15	13	4		65
60					1			1	5	12	1	5		25
6.5							1	1	1	1	4	6		14
7 0 & ove									1	1		4		6
Age n						l								
Тота	Ls 166	3.056	2,935	1,473	1,123	564	364	200	142	88	41	31	[]	10,483

Marriages by Denominations in the City of Belleville, 1918.

GROOMS.	Anglican,	Presbyterian,	Methodist,	Roman Catholic.	Baptist,	Congregationalist.	Lutheran,	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina-	Denomination not stated.	TOTAL BRIDES.
Anglican	19	3	6	3									31
Presbyterian	1	8	1									,	10
Methodist	7	4	41	3									58
Roman Catholic	2	1	3	11									17
Baptist			1	1	1								3
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew									1				1
Salvation Army													
Other Denominations													
Denomination not stated													
Total Grooms	29	16	55	18	1				1				120

Licenses, 107.

Banns. 13.

Marriages by Ages in the City of Belleville, 1918.

	Aor.	15	20	2.5	30	35	40	45	50	5 5	60	6.5	70 & over	Not stated	TOTAL
	15	5	13	3				1	1						19
	20	3	25	14	4	2	1								48
	2.5	1	1	5	4	3	2	1							17
	30		1	3	5	2		4							1:2
	3.5					4	3	2			1				10
ŝ	40				1	1	1								3
IDE	45					1	2								. 3
BRI	50								1	1					•;
	5.5									2		1			3
	60									1			1		3
	6.5												1		1
	70 & over														
	Age not stated.														
	TOTALS	5	40	25	11	13	9	8	1	4	1	1	5		100

Marriages by Denominations in the City of Brantford, 1918.

В кто сез	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	33	6	8	ŝ	4								53
Presby terian	6	21	5	1	1	1							35
Methodist	4	9	43		9	1					1		67
Roman Catholic	3	3	1	13	-0								50
Baptist	. 3	3	13	. 3	2.5	1							46
Congregationalist						1			į				3
Lutheran													
Evangelical Association													
Hebrew									- 3	·			2
Salvation Army										1			1
Other Denominations		1			1			ļ	ļ		4		6
Denomination not stated								·····	'				
TOTAL GROOMS	48	41	71	19	1.5	4			• :	1 -			233

Licenses, 220.

Banns, 13

Marriages by Ages in the City of Brantford, 1918:

AGE.	1.5	20	2.5	30	3.5	40	4.5	50	5.5	6.0	6.5	70 & over	Not stated	TOTAL
1.5	9	26	9	1			1							40
20	4	31	36	11	3	, 1								86
2.5		1	17	9	`	2	2	1	·:					43
30				6	, b	2								19
3 5			1	4	4	4	4		1					18
40			1			1	2	1						
4.5							3	4	2	1				10
50											1	·		1
5.5					1							1		2
6.0										· · · · ·	1			1
6.5								1			1			2
70 & over														· · · · · · ·
Age not stated.											ļ			
TOTALS	13	51	66	31	25	10	12	7	3	1	3	1		233

Marriages by Denominations in the City of Chatham, 1918.

. 93 от в 10	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	Total Brides.
Anglican	+;	-3	1		1								111
Presbyterian	• • • •	8	6	1	3								20
Methodist	3	ĩ	- 25	1	6								45
Roman Catholic	-)	1	1	3!	1								*214
Baptist	1	• ?	4	-2	5								1.1
Congregationalist					1								1
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations			1	1							3		5
Denomination not stated													
TOTAL GROOMS	14	20	11	56	17						3		121

Licenses, 104.

Banns, 17.

Marriages by Ages in the City of Chatham, 1918.

	AGE.	1.5	20	2.5	30	3 5	40	45	50	5.5	60	6.5	70 & over	Not stated	TOTAL
	15	4	15	8		3		1							3
	20	- 3	25	15	1	5	1			1					17
	2.5		.,	7	ĩ	5	1								17
	30				.5	5	1	1							
	35					1	1	1	1						
S.	40					3		- 3	1	1					
BRIDES	45							1	1						
BR	50								1						
	5 5									1	1	1			
	60														
	6.5														
	70 & over														
	Age not stated.														
	TOTALS	6	42	30	8.	16	1	G	4	3	1	1			1:2

Marriages by Denominations in the City of Fort William, 1918.

GROOMS.	Anglican.	Presbyterian,	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina-	Denomination not stated.	TOTAL BRIDES.
Anglican	13	5	1	3	1						2		25
Presbyterian	3	19	2				1						25
Methodist	.î	-5	8	3			1						16
Roman Catholic	-5			30							1.		33
Baptist	8		5		1								8
Congregationalist													
Lutheran					- 9		40						42
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations	,										2.		2
Denominationnotstated												••••	
TOTAL GROOMS	23	28	13.	36	4		42				5		151

Licenses, 141.

Banns, 10.

Marriages by Ages in the City of Fort William, 1918.

	AGE.	15	20	2.5	30	3.5	40	45	50	5.5	60	6.5	70 & over	Not stated	TOTAL
	15	1	13	12	3	. 1									30
	20	- 5	5.5	5.5	7	3									56
	2.5		4	13	8	3	1	1		1					31
	30			1	- 4	1	1		1						8
	35			1 ·	2	5	4			4			<u></u>		16
S	40					5	- 3	1	1				<u></u>		6
RBIDES	4 5					1	1		····				<u></u>	<u></u>	2
RE	50														
	5.5						·····			1		1 ·		<u></u>	2
	60								· · · · · ·			·····		<u></u>	
	6.5					<u></u>				• • • • •	•••••		·····		
	70 & over														
	Age not stated.														
	TOTALS	3	39	49	24	16	9	2	2	6		1			151

Marriages by Denominations in the City of Galt, 1918.

Greens.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES,
Anglican	20	7	5	1			1			í			32
Presbyterian	7	3.5	10		2		2						43
Methodist		-4	13		1		1		1				20
Roman Catholic			1	8	1								10
Baptist	1		1										2
Congregationalist													
Lutheran		-5	1	1			4						8
Evangelical Association								1	1			.,	1
Hebrew													
Salvation Army										1			1
Other Denominations											1		1
Denomination not stated													
TOTAL GROOMS	28	35	28	10	4		8	1	1	2	1		118

Licenses, 103.

Banns, 15.

Marriages by Ages in the City of Galt, 1918.

	Age.	15	20	25	30	35	40	45	50	5 5	60	6.5	70 & over	Not stated	TOTAL
	15	3	10	3	1										17
	20	3	51	10	4	2									43
	25		4	14	7	4	5								. 31
	30		2	2	б	5	3								14
	35					2		i							3
တ်	40					1	1	2	1						5
BRIDES	45									5				:	5
BR	50							1		1					5
	5 5														
	60												1		1
	65														
	70 & over														
	Age not stated.														
	TOTALS	6	40	29	18	11	5	1	1	3			1		118

Marriages by Denominations in the City of Guelph, 1918.

				olic.		nalist.		ď		Army.	nina-	n not	y.
GROOMs.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association	Hebrew.	Salvation Ar	Other Denomina tions.	Denomination stated.	Toral Bridges.
Anglican	15	1	-1	1	1								26
Presbyterian	1	.32	7										43
Methodist	,5	î	25	9	1	1							43
Roman Catholic	3		* • • • • • • • • • • • • • • • • • • •	14									19
Baptist				1	•)								3
Congregationalist			3			1	1					,	5
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army										1			1
Other Denominations				1		1	٠						ŝ
Denomination not stated													
TOTAL GROOM	39	43	39	19	4	3	1			1	.;		t42

Licenses, 134.

Banna, S.

Marriages by Ages in the City of Guelph, 1918.

1	AGE.	1.5	20	25	30	3 5	40	45	50	5 5	60	6.5		Not stated	TOTAL
	1.5	- 3	11	5	1	1									24
	20	:	24	18	6	• 2	3								54
	2 5		1	13	9	7	-2								34
-	30		1	1	5	5	5	1							15
-	3.5				1	3	.5				1				9
	40					1			1	t					3
	4.5								1						1
-	50														
	5.5								1	1			<u></u>		.;
Ţ	60														
(6.5														
1 -	70 & over														
	ige not stated.														
-	TOTALS	5	43	36	-5.5	19	8	::	3	2	1			1	112

Marriages by Denominations in the City of Hamilton, 1918.

GROOMS.	Anglican	l'resbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	Total Bridge.
Anglican	164	31	28	17	14	2	í				:;		260
Presbyterian	11	110	26	9	7	1	3				3		203
Methodist	45	34	108	8	13	3	-1				1		217
Roman Catholic	11	7	7	114	5		1						115
Baptist	13	11	13	5	24	1							67
Congregationalist	2	3			1	2					1		- 11
Lutheran	1	3	1	2	1	1	1						10
Evangelical Association					1			1					• 2
Hebrew			1						17				18
Salvation Army			1							- 4			5
Other Denominations	2	2	1	1							31		37
Denomination not stated													
TOTAL GROOMS,	282	201	217	156	66	10	10	1	17	4	39		1,003

Licenses, 903,

Banns, 100.

Marriages by Ages in the City of Hamilton, 1918.

AGE.	15	20	2.5	30	3.5	40	45	50	5.5	60	6.5		Not stated	TOTAL
15	37	123	53	5	3	2	1					.,		22
20	15	163	118	37	15	8	3	2						36
25		16	78	46	26	8	7		1					185
30		4	16	29	23	18	4		1					98
35		1	2	11	23'	16	13	3	2	1				75
40				2	8	10	5	3			1	1		30
45						3	6	3	3	3				18
50						2	2	4	2	2	1			15
5 5									3	1	1			
60					1					1	••••			
65														
70 & over												1		1
Age not stated.														
TOTALS	52	307	267	130	99	67	41	15	12	8	3	2		1,00

Marriages by Denominations in the City of Kingston, 1918.

. grooms.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions	Denomination not stated	TOTAL BRIDES.
Anglican	45	10	13	12									80
Presbyterian	8	56	10	1	4				1		2		52
Methodist	11	10	70	4	3	1				1			100
Roman Catholic	9	5	4	41									65
Baptist	1		1										2
Congregationalist		- 2	1			3							6
Lutheran							1						1
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations	1		1										5
Denomination not stated													
TOTAL GROOMS	77	53	100	61	7	4	1		1	1	2		307

Licenses, 284;

Banns, 23.

Marriages by Ages in the City of Kingston, 1918.

AGE.	15	20	25	30	3 5	40	45	50	5.5	60	6.5		Not stated	TOTAL
1.5	11	29	5	2	1									48
20	3	64	51	12	3	2								133
2.5		5	21	16	4	6	1					1		5
30			4	10	8	2		1						. 25
3.5				4	11	3		1	1					20
40					4	1	3	1	-3					11
4.5					1	1	2	1	1		1			7
50							1	2						
5.5										1				1
60									1			1		5
6.5							1							1
70 & over													.	
Age no stated	ot													
TOTAL	.9 14	98	81	44	32	15	8	6	5	1	1	2		307

Marriages by Denominations in the City of Kitchener, 1918.

ба В Споомь.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Latheran,	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	Total Bridge,
Anglican	6				1		4	1					13
Presbyterian		7	1			1	.3						11
Methodist		-3	10	1			4	5			:2		21
Roman Catholic	1	1	1	38			1						32
Baptist					4	1	5						10
Congregationalist		1						1					•)
Lutheran		5	5		1		35	1			1		45
Evangelical Association			4					5					9
Hebrew									3				3
Salvation Army													
Other Denominations		1		1			1	1			10		1.4
Denomination not stated												-	
TOTAL GROOMS	7	14	21	30	6	?	2.5	11	3		13		159

Licenses, 129.

Banns, 30.

Marriages by Ages in the City of Kitchener, 1918.

AGE.	15	20	25	30	3.5	40	45	50	5 5	60	6.5	70 & over	Not stated	TOTAL
15	4	17	4	3	1									20
20	2	40	17	11	1									71
2.5		5	17	4	4	2								35
30			4	4		3								11
3.5				1	2	1		1						5
40					2	1	2							5
45							1							1
50							1		1	1				3
5.5										1				1
60														
6.5											1			1
70 & over														
Age not stated.	}													
TOTALS	6	62	42	23	10	7	4	1	1	- 2	1			159

Marriages by Denominations in the City of London, 1918.

ей В В В В В В В В В В В В В В В В В В В	Anglican.	l'resbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions	Denomination not stated	Total Bridge.
Anglican	7.7	15	26	1	i	1							130
Presbyterian	15	45	19	1	8								88
Methodist	33	-3.4	105	.3			ti	-5			.5		185
Roman Catholic	•)	1	4	31	1								47
Baptist	15	11	13	13	30						1		76
Congregationalist	• • • • • • • • • • • • • • • • • • • •		1	1	I								5
Lutheran	1		.)	1									. 4
Evangelical Association													
Hebrew									1				1
Salvation Army	1									1			5
Other Denominations	1		1		1		1				13		17
Denominationnotstated													
TOTAL GROOMS	146	100	171	54	56	1	7	-3	1	1	16		555

Licenses, 530.

Banns, 25.

Marriages by Ages in the City of London, 1918.

	AGE.	15	20	25	30	35	40	45	50	55	60	65	70 & over	Not stated	TOTAL
	15	25	55	31	4	2						- 			117
	20	8	109	77	33	8	3	1							228
	2.5		12	43	22	28	5	2	3	1					109
	30		5	4	13	9	5	6	1	1					44
· ·	3 5				1	6	5	3	2	1					18
вктокѕ	40			1	1	1	3	4		1	1				12
BRÍ	45						2	3	- 5						7
	50							1	3	3	3		2		12
	5.5							1			2		1		4
	60										1		1		2
	6.5											1	1		2
	70 & over														
	Age not stated.														
	TOTALS	33	181	155	63	49	23	21	₹ 10	7	7	1	5		555

Marriages by Denominations in the City of Niagara Falls, 1918.

Section Sectin Section Section Section Section Section Section Section Section	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association,	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	30	3	8	1			1		1		1		48
Presbyterian	4	19	4	3	5		1	1			3		40
Methodist	4	7	33	5	.5		2					1 ·	53
Roman Catholic	в	.5	~	17	1								33
Baptist	1	t	2	1	6						:2		16
Congregationalist	1					1 .							2
Lutheran			1	t	1		4						7
Evangelical Association								t					1
Hebrew		1											1
Salvation Army													
Other Denominations	1	1	2	1	2						5		12
Denominationnotstated													
TOTAL GROOMS	50	34	56	32	17	1	8	2	1		t1	1	213

Licenses, 209,

Banns, 4.

Marriages by Ages in the City of Niagara Falls, 1918.

Age.	15	20	2.5	30	3 5	40	45	50	5 5	60	6.5	70 & over	Not stated	TOTAL
15	1 t	18	12	2										43
20	2	50	17	9	4	1								6:
25	1	6	16	8	5	3	2		2					4:
30			4	7	4	5	3		1					2-
35			1	6	7	3	5							19
40				1		4	1		1	2				
45				1			2	3			1			
50								2	1			1		-
5.5									1					
60														
6.5														
70 & over												t		1
Age not stated.														
TOTALS	14	53	50	34	20	16	10	5	6		1	- 2		213

Marriages by Denominations in the City of Ottawa, 1918.

SHOOMS.	Ang lican.	Presbyterian.	Methodist.	Roman Catholie,	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	105	27	13	2)	1	1				1			168
Presbyterian	25	94	31	8	7	1	?			1	5		174
Methodist	21	-24	55	1	1		1		1		1		105
Roman Catholic	-5-5	5.5	6	812	4		5				5	1	371
Baptist		5	4		ĩ		1						17
Congregationalist	1	1	1			4							7
Lutheran	3	1	-5	2			10						18
Evangelical Association													
Hebrew									10				10
Salvation Army	- 5	1								5			5
Other Denominations		-2	1		1						13		17
Denomination not stated										,			
TOTAL GROOMS	179	177	113	343	21	6	16		11	4	21	1	892

Licenses, 742.

Banns, 150.

Marriages by Ages in the City of Ottawa, 1918.

	Age.	15	20	25	30	35	40	45	50	55	60	65	70 & over	Not stated	TOTAL.
	15	56	89	31	7	5	2		_1						158
	20	13	161	136	48	9	6	3	1						367
	2.5		19	78	46	25	8	5	2	1	2				183
	30		5	13	2:	25	14	3	1	5			1		88
	35		1	1	4	11	10	2	3	4					36
	40					4	7	9	5	2					27
BRIDES	4.5			1	1		3	?	3	5	5				16
3 18 1	50									3	2	1			6
-	5.5								1	- 3	1	2			6
	60									1					1
	6.5										1	1	1		3
	70 & over												. 1		1
	Age not stated.												<u></u>		
	TOTALS	39	275	250	128	. 76	50	20	16	23	8	4	3		892

Marriages by Denominations in the City of Peterborough, 1918.

SB ROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	23	ő	5	1									37
Presbyterian	16	1.5	9	.ĵ	-3						1		4.2
Methodist	9	6	49	5	.3								71
Roman Catholic	1		1	23									25
Baptist		1 0	5		4								10
Congregationalist												• • • • •	
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army	1		1								1		3
Other Denominations		1	- 2								3		5
Denominationnotstated													
TOTAL GROOMS	50	95	73	34	8			•••••			1		193

Licenses, 173.

Banns, 20.

Marriages by Ages in the City of Peterborough, 1918.

	Age.	15	20	25	30	35	40	45	50	5.5	60	6.5	70 & over	Not stated	TOTAL
-	15	3	17	6	3	- 3									31
	20	3	32	17	12	4	5								70
ľ	2.5		7	16	8	4	2								37
ľ	30		1	3	6	ő	3		1						18
	3.5			1	5	3	3	2	1						15
	40				1	4	2		1	1	1				10
	45					1		2		1		1			5
1	50								3	1					-4
ľ	5 5								1			1	1		3
Ì	60										1				1
ľ	6.5									1					1
	70 & over												1		1
	Age not stated.														
	TOTALS	6	57	42	33	23	12	4	7	4	5	5	•3		198

Marriages by Denominations in the City of Port Arthur, 1918.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	Total Bridge.
Anglican	9	5	6	1	1		1	 -					23
Presbyterian	3	50	-3	2		1							28
Methodist		- 3	5	1									8
Roman Catholic	4	5	1	28									35
Baptist	1			1	2								4
Congregationalist													
Lntheran		1	1	1			32				1		36
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations											2		2
Denominationnofstated													
TOTAL GROOMS	17	30	15	34	3	1	33				3		136

Licenses, 121.

Banns. 15.

Marriages by Ages in the City of Port Arthur, 1918.

A	GE.	15	20	25	30	35	40	45	50	5.5	60	6.5	70 & over	Not stated	TOTAL
1	1.5	6	19	9	3		3								39
_ 3	2.0	· · · · · · ·	8	18	11	6		1							44
-	2.5		3	12	8	3									26
	30			3	4	6									19
	3 5				3	3	3	3							11
	40			1											1
	4 5						1	1		1					3
:	50														
	5 5	• • • • • • • • • • • • • • • • • • • •													
	60														
	65														
	70 over														
	e not														
То	TALS	6	30	42	29	17	6	5		t					136

Marriages by Denominations in the City of St. Catharines, 1918.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina-	Denomination not stated.	TOTAL BRIDKS.
Anglican	37	4	3	4	1	- ?	1						52
Presbyterian	3	20	4	5			1				1		34
Methodist	7	4	20	3							1		35
Roman Catholic	6	1	2	16									25
Baptist	2	3	2		3		1						11
Congregationalist					1								1
Lutheran			1				1						2
Evangelical Association													
Hebrew													
Salvation Army							:						
Other Denominations			1	1	1						2		5
Denomination not stated												1	1
TOTAL GROOMS	55	33	33	29	6	2	4				4	1	166

Licenses, 151.

Banns, 15.

Marriages by Ages in the City of St. Catharines, 1918.

AGE.	15	20	25	30	35	40	45	50	5 5	60	6.5	Not stated	TOTAL
15	5	18	9	1	2							 	3:
20	1	25	3.3	6	4	5						 	61
2.5		5	8	8	3			1	• • • • • • • • • • • • • • • • • • • •			 	31
30	1		1	4	7	3	1					 	17
3 5				5	2	1	2	5	·	1		 	10
40				1	3	1	1	1				 	7
45			1				1			1		 	3
50									ļ			 	
5.5										5		 	:
60								1				 	1
65												 	
70 & over												 	
Age no stated	-}											 	
TOTAL	5 7	48	41	9.9	27	7	5			4		 	166

Marriages by Denominations in the City of St. Thomas, 1918.

Grooms.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	18	2	4	2	- 3								28
Presbyterian	3	17	1		2	- 5					1		26
Methodist	6	15	21		4							í	44
Roman Catholic				9	1								10
Baptist	:3	.;	6		12							1	24
Congregationalist						1							1
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations	5	. 2						1			4		9
Denomination not stated													
Total Grooms	32	35	32	11	21	3		1			5	2	142

Licenses, 130.

Banns, 12.

Marriages by Ages in the City of St. Thomas, 1918.

AGE	15	20	2.5	30	3 5	40	45	50	5 5	60	6.5	70 & over	Not stated	Total
1.5	8	11	8											27
20	4	31	17	9	1	1								63
2.5		2	13	3	3			1						5.5
3 0			1	1	ā	2	1							10
3.5				1	1	i 2	1	3					,	8
40					1	2	1				1			5
4.5							1	1						2
50								1		1				2
5.5								1	5					3
60														
6.5	;													
7 (& ov														
Agen														
Тота	LS 12	44	39	14	11	7	4	7	2	1	1:			142

Marriages by Denominations in the City of Sarnia, 1918.

BRIDES.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Svangelical Association.	ebrew.	Salvation Army.	ther Denomina- tions.	Denomination not stated.	AL BRIDES.
G коомз.	Ang	Pree	Met	Ron	Вар	Con	Lut	Eva	Нер	Salv	Other	Den	TOTAL
Anglican	10	1	5		2								18
Presbyterian	3	13	4	1	5								2:3
Methodist	4	10	27	1	4								46
Roman Catholic	1	1		14									16
Baptist	1	1	1		5						2		10
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army			2							1			3
Other Denominations			1										1
Denomination not stated													
TOTAL GROOMS	19	26	40	16	13					1	2		117

Licenses, 105,

Banns, 12.

Marriages by Ages in the City of Sarnia, 1918

AGE.	15	20	2.5	30	3 5	40	45	50	5.5	60	65	70 & over	Not stated	TOTAL
15	1	19	5	2			1							28
20		18	17	6	3									4-
25		1	8	4	5	2								20
30			1	2	3		1							
3 5				1	4	1	1	2						
40						4	1		1					(
45							1	1						
50									1					
5.5											:			
. 60														
6.5														
70 & over														
Age no stated														
TOTAL	s 1	38	31	15	15	7	5	3	2					11

Marriages by Denominations in the City of Sault Ste. Marie, 1918.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association,	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	14	1	4	1								·····	20
Presbyterian	6	5.5	4	4	1						1		38
Methodist	3	5	19	1	1								29
Roman Catholic	4	1		48	3								55
Baptist		3			3								5
Congregationalist													
Lutheran				1			20						21
Evangelical Association													
Hebrew									1				1
Salvation Army													
Other Denominations											1		1
Denomination not stated													
TOTAL GROOMS	27	31	27	55	7		50		1		3		170

Licenses, 142,

Banns, 28.

Marriages by Ages in the City of Sault Ste. Marie, 1918.

	AGE.	15	20	2 5	30	3 5	40	4.5	50	5.5	60	6.5	70 & over	Not stated	TOTAL.
	1.5	4	26	14	5	1		t							51
	20	3	50	37	12	3	1								75
	2.5		3	ĩ	:	:	3								18
	30		1		4	6	1	-3							14
-	3.5			1		-5	1	•)							6
ė i	40						1		1						2
BKIDES.	45						:2		t						3
Í	50														
1	5.5														
1	60								ļ <u>.</u>						
1	6.5												1		1
	70 & over														
	Age not stated.														
İ	TOTALS	7	59	49	24	11	9	5	•}				1		170

Marriages by Denominations in the City of Stratford, 1918.

S S S S S S S S S S S S S S S S S S S	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Latheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	10	5	9		1		í						16
Presbyterian	3	17	3	1	1		1						26
Methodist	3	1	î		1		1						13,
Roman Cathoric	1		1	12			1						15
Baptist	5	3	1		2								5
Congregationalist	1		1										.3
Lutheran	5		3				4		·	1			, 9
Evangelical Association									,				3
Hebrew													
Salvation Army													
Other Denominations	1										1		2
Denomination not stated													
TOTAL GROOMS	23	28	17	13	5		8			1	1		93

Licenses, 85.

Banns, 5.

Marriages by Ages in the City of Stratford, 1918.

	AGE.	1.5	20	25	30	35	40	45	50	55	60	65	70 & over	Not	TOTAL
Ī	15	2	7	3											12
	20	3	15	14	8	-5	2								39
	25		1	12	7		5	· · · · · ·							- 5.5
1	30		1	.)	4	3			,						10
-	35					3	1	1							4
	40							2	1	1					4.
	45						1								1,
	50														
Ī	55									1					1
1	60														,
-	65						,								
-	70 & over														
	Age not stated										,				
	TOTALS	5	24	31	14	7	6	3	1	5					

Marriages by Denominations in the City of Toronto, 1918.

GROOMS.	Anglican,	Presbyterian,	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lntheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	Total Bridge.
Anglican	922	210	169	60	64	6	4	1	2		14		1,472
Presbyterian	191	618	137	42	47	14	2	1	1		11		1.064
Methodist	157	172	580	43	41	3	2				13		1,011
Roman Catholic	83	35	36	486	16	1	1		1		10		668
Baptist	61	52	44	8	122	1	3			2	4		297
Congregationalist	4	7	4		2	7		1			1		26
Lutheran		1	5				22						28
Evangelical Association		1	2		1			2					6
Hebrew		1	1	1					269				272
Salvation Army	1	1	3				1			18			> 24
Other Denominations	8	11	4	2	3	1					90		119
Denomination not stated					1							2	3
TOTAL GROOMS	1,446	1.109	985	662	297	33	35	5	273	20	143	2	4,990

Licenses, 4,543.

Banns, 447.

Marriages by Ages in the City of Toronto, 1918.

	Age.	15	20	25	30	35	40	45	50	5 5	60	6.5	70 & over	Not stated	TOTAL
-	1.5	139	429	152	31	- 8	3	1	2						765
-	20	56	815	720	224	103	14	7							1,939
1	2.5	3	117	489	262	179	- 55	19	4				1		1,129
1	30	1	9	84	170	152	65	20	11	1	i				514
-	35			11	29	111	75	43	27	11	5	2			314
.	40		1	5	7	19	41	38	18	11	7	6	1		157
i de la la la la la la la la la la la la la	45				1	1	11	37	19	6	10	3	3		91
	50					1		5	9	11	10	2	1		39
-	5 5							1	6	9	6	5	1		28
-	60									1	8		1		10
	6.5												2		2
	70 & over									1	í				2
	Age not stated.														
	TOTALS	199	1,371	1,461	724	574	267	171	96	51	48	18	10		4,990

Marriages by Denominations in the City of Windsor, 1918.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	Total Bridge.
Anglican	36	6	5		-3	1							50
Presbyterian	6	12	1	1	1	•••••	•••••				1		31
Methodist	10	9	55	6	6	1							87
Roman Catholic	2	1	5	52	5						1		63
Baptist	2	3	5	ı	11	1							93
Congregationalist				1		3							-1
Lutheran			1		1		2						1
Evangelical Association								1					1
Hebrew		1							4				5
Salvation Army	1	1								1			3
Other Denominations			1	1	1						12		15
Denomination not stated												1	1
TOTAL GROOMS	57	33	76	65	97	6	2	1	4	1	14	1	287

Licenses, 257.

Banns, 30.

Marriages by Ages in the City of Windsor, 1918.

AGE.	15	20	2.5	30	35	40	45	50	5.5	60	65	% over	Not stated	Тота
15	11	42	19	6			1							,
20	6	37	27	10	5	2	ı							
2.5		3	21	17	10	3		1						
30		2	7	4	6	4	1							
35			5		7	1	5	1						1
40				2	3	2	5	1			1			1
45						5	2	2						
50					1		1	1	1					
5 5									1					
50									1					
6.5														
70 & over														
Age not stated.														
TOTALS	17	84	79	39	32	14	12	6	3		1			- 25

Marriages by Denominations in the City of Woodstock, 1918.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangetical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	11	4	ئ	1	3								21
Presbyterian	1	to	5	1	5		1						20
Methodist	5	5	14		1	1		1					24
Roman Catholic				3									3
Baptist	4				1								5
Congregationalist			1			1							2
Lutheran													
Evangelicai Association													
Hebrew													
Salvation Army													
Other Denominations	1							1					2
Denomination not stated							,						
TOTAL GROOMS	19	19	5.5	5	7	:2	1	?					77

Licenses, 76.

Banns, i.

Marriages by Ages in the City of Woodstock, 1918.

	AGE.	15	20	2.5	30	3 5	40	45	50	5 5	60	65	70 & over	Not stated	TOTAL
	15	4	6	3		1									18
	20	2	15	10	. 2	4									38
	2.5			7	6	3		1							17
	30			1		1	1	2							5
	3 5			1		1	1								3
	40				1		í					1			3
	45							1							1
	50									1					1
	5 5											1			1
	60														
	6.5														
8	70 k over														
	ge not tated.														
T	OTALS	6	21	21	9	10	3	1		1		2			77

Marriages by Denominations in the Towns of Ontario, 1918.

GROOMS.	Anglican.	Presby terian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated,	TOTAL BRIDES.
Anglican	99	46	42	15	10	1	2				-2		217
Presbyterian	13	168	42	-10	9	1		1			1		274
Methodist	50	54	260	15	18	.5	:		1	1	3		495
Roman Catholic	15	15	12	266	1		1				1		308
Baptist	7	15	18	5	-39	1					1		76
Congregationalist													
Lutheran		.5		1			43						46
Evangelical Association							1	3					4
Hebrew									1				1
Salvation Army		2								5			ĩ
Other Denominations	1	5	1							1	17		5.5
Denomination not stated											1	- 3	3
TOTAL GROOMS	214	301	875	312	67	5	49	4	5	7	25	5	1,363

Licenses, 1,214.

Banns, 149.

Marriages by Ages in the Towns of Ontario, 1918.

Age.	15	20	25	30	35	40	4.5	50-	5 5	60	65	70 & over	Not stated	Total
15	44	173	75	13	17	1	5				1			33
20	17	249	186	70	33	11	4	2			1			57
2.5	1	40	80	52	36	9	7	1	2					9.0
30			17	34	25	5	12	4	2					91
3 5		1	3	9	20	16	7	1	1			1		- 59
40				5	2	13	12	2	2	1	1			85
45					2	1	3	6	3	5				20
50							1	3	2	1	2	1		9
5.5							1	1	4	1	1	2		10
60									1	1	1			3
6.5									1	1		1		3
70 & over							1							1
Age not stated.														
TOTALS	62	462	361	179	134	- 56	50	19	18	10				1,363

Marriages by Denominations in the Town of Barrie, 1918.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholie.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	Total Bridge.
Anglican	1	1	÷	1		1					1		7
Presbyterian	- 3	5			1								8
Methodist	1	:	12		1					1			18
Roman Catholic				1									1
Baptist		3	5		1								6
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army		1											1
Other Denominations													
Denomination oot stated												1	1
TOTAL GROOMS	4	13	16		3	1				t	1	1	4:

Licenses, 41.

Banns, 1.

Marriages by Ages in the Town of Barrie, 1918.

AGE.	15	20	2.5	30	35	40	45	50	5 5	60	6.5	70 & over	TOTAL
1.5	1	6	3										 1
20	1	9	5		1								 1
2.5			3		1	1	1						
30				1	5								
3.5					1		1						
40						1	1						
4.5													
50								1					
5.5												1	
60													
6.5													
70 & over							1						
Age not stated.													
TOTALS	2	15	11	1	5	-2	4	1				1	

Marriages by Denominations in the Town of Brockville, 1918.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions,	Denomination not stated.	TOTAL BRIDES,
Anglican	11	٤	3		3								25
Presbyterian	5	11	3	1							1		21
Methodist	10	5	34	3	5	1	1		1				57
Roman Catholic	2	1	1	10									14
Baptist		1			2	1							4
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations													
Denomination not stated													
Total Grooms	28	96	41	14	7	2	1		1		1		121

Licenses, 111.

Banns, 78.

Marriages by Ages In the Town of Brockville, 1918. GROOMS.

1	GE.	15	20	2.5	30	35	40	45	50	5.5	60	6.5	70 & over	Not stated	TOTAL
	15	2	13	3	2										20
	20	2	26	11	4	3	1								4
	25		6	9	3	2		2							5
	30			1	5	2	1	1							10
	35			1	2	5	2		2				1		10
	40				2		3	2							7
	45								1	1	1				
	50														
	55									1			1		2
	60														
	65														
	70 over														
	e not ited.														
To	TALS	4	45	25	18	9	7	5	3	- 0	1		2		121

Marriages by Denominations in the Town of Cobalt, 1918.

ен с В В В В В В В В В В В В В В В В В В В	Anglican.	Presbyterian.	Methodist,	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Benomina-	Denomination not stated.	TOTAL BRIDES.
Anglican	10	1 1		1	1								13
Presbyterian	1	6	1	1								· · · · · ·	. 9
Methodist	1		1	1									3
Roman Catholic	1	1		25			•••••				1		28
Baptist	1				2								3
Congregationalist													
Lutheran							10						10
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations											1		1
Denomination not stated													
TOTAL GROOMS	14	8	2	28	3		10						67

Licenses, 59.

Banns, 8.

Marriages by Ages in the Town of Cobalt, 1918.

AGE.	1.5	20	25	30	35	40	45	50	5.5	60	6.5	70 & over	Not stated	TOTAL
15	3	15	ā	1										24
20	1	8	8	5	4									23
25		1	3	4	3									11
30				- 4	-5									6
35					5			••••						2
40							1							1
45														
50											<u></u>			
5.5										<u></u>	<u> </u>			
60									<u></u>	<u></u>	<u> </u>	<u></u>		
65										<u></u>		<u> </u>		
70 & over										<u></u>				
Age not stated.											<u></u>			
TOTALS.	1	24	16	11	11		1							67

Marriages by Denominations in the Town of Collingwood, 1918.

G ROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES
Anglican	5		1										(
Presbyterian	5	20	1	1									27
Methodist	5	3	5	2			· · · · · ·				1		10
Roman Catholic		1		3		·							
Baptist		3											:
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations											3		
Denomination not stated													
TOTAL GROOMS	15	27	7	6							4		55

Licenses, 56,

Banns, 3.

Marriages by Ages in the Town of Collingwood, 1918.

AG	Е.	15	20	2.5	30	35	40	45	50	5.5	60	6.5	Not stated	TOTAL
1.5	-	1	6	1	1	1							 	10
20	_	1	4	13	8	2							 	- 28
2.5			1	6	1	4				,			 	15
30	-				1	1		1					 	1
3.5			1				1						 	2
40	,						1						 	1
45	-									1	1		 	:
50	,												 	
5.5	-												 	
60													 	
6.5											1		 	1
70 & o													 	
Age													 	
TOTA	LS.	2	12	20	11	8	2	1		1	2		 	• 59

Marriages by Denominations in the Town of Cornwall, 1918.

G ROOMS	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tion	Denomination not stated.	TOTAL BRIDES.
Anglican		5	1		1								15
Presbyterian		9			t								10
Methodist	3		4										7
Roman Catholic	1	t	1	50									32
Baptist					1								1
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army		1											1
Other Denominations													
Denomination not stated													
· TOTAL GROOMS	1.5	16	6	29	3								66

Licenses, 51.

Banns, 15.

Marriages by Ages in the Town of Cornwall, 1918.

	Age.	15	20	25	30	35	40	45	50	55	60	65	70 & over	Not stated	TOTAL
	15	1	î	3			1								1:
	20	5	13	6	3	5	t					1			81
	25	1	7	.;	1										11
	30				2	ı	t								-4
	35					2	- 3	1							5
	40							i							1
1	45								1						1
	50														
i	55														
	60														
	65												1		1
80	70 over														
	ge not tated.														
7	TOTALS.	7	27	11	6	5	5	2	1			1	1		66

Marriages by Denominations in the Town of Ingersoll, 1918.

BRIDES.	ab.	Presbyterian.	list.	Catholic.		Congregationalist.	an.	Evangelical Association.	ж.	on Army.	Denomina-	Denomination not stated.	BRIDES.
Grooms.	Anglican.	Presby	Methodist.	Roman	Baptist.	Congr	Lutheran	Evang Asso	Hebrew	Salvation	Other De	Denomi	Torst
Anglican	3		ą	-3	1								4
Presbyterian	1	5	1										15
Methodist		3	13										15
Roman Catholic				5									5
Baptist	1		5										*
Congregationalist													
Lutheran													•••••
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations													
Denomination not stated													
TOTAL GROOMS	4	8	20	7	3								1.9

Licenses, 37.

Banns, 5,

Marriages by Ages in the Town of Ingersoll, 1918.

	AGE.	15	20	25	30	35	40	45	50	5.5	60	65	70 &over	Not stated	Tores
	15		7					1							8
	20	1	6	7	1	1			1						17
	25		1	4	1		1			ļ		·			7
	30			1		1		1							3
	35				2	1		1							t
	40							5							-3
1	45														
	50														
	5 5									1					ì
	60												1		
	65														
	70 & over.													1	
	Age not stated.														
	TOTALS	1	14	12 - 12	4	3	1	5	1	1					4.3

Marriages by Denominations in the Town of Kenora, 1918.

вери В Висоомя.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	4	3		1			2						10
Presbyterian	1	3											4
Methodist	1		2										3
Roman Catholic		1		- 2									3
Baptist					3								
Congregationalist													
Lutheran							4						4
Evangelical Association													
Hebrew													••••
Salvation Army													
Other Denominations													
Denomination not stated													
Total Grooms	6	7	5	3	3		6						26

Licenses, 23.

Banns, 3.

Marriages by Ages in the Town of Kenora, 1918.

	Age.	15	20	2.5	30	3 5	40	45	50	5 5	60	6.5	70 &over	Not stated	TOTAL
	1.5		3	3											6
	20			6	3							·			9
1	2.5			1	2	5				1		<u></u>			6
	30				1	1				1					3
	3 5					1	1								2
· so	40													<u></u>	
BRIDES.	4.5														
BE	50														
	5.5														
	60														
ĺ	6.5								·						·····
	70 & over													<u></u>	
	Age not stated.														
	TOTALS		3	10	6	4	1			3					26

Marriages by Denominations in the Town of Lindsay, 1918.

од Од Одоомз.	Anglican.	Presby terian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army,	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDGE.
Anglican	11	8	6										25
Presbyterian	3	7	7	· · · · · · · · ·				1					18
Methodist	6	8	31		2								47
Roman Catholic	1	1		13									15
Baptist	1	4			1								б
Congregationalist													
Lutheran													
Evangelical Association											· · · · · ·		
Hebrew													
Salvation Army										1			1
Other Denominations	1												1
Denomination not stated													
Total Grooms	23	28	44	13	3			1		1			113

Licenses, 102.

Banns, 11.

Marriages by Ages in the Town of Lindsay, 1918.

	AGE.	15	20	25	30	3 5	40	45	50	5.5	60	65	70 & over	Not stated	TOTAL
	15	6	16	7		3									84
	20	1	28	10	6	1	2					• • • • • • •			48
	25		3	9	. 4	2		1							19
	30			1	3	4		1							9
	3 5							1							1
Š.	40									2					.,
BRIDES	45														
RE	50										1				1
	5 5									1					1
	60														
	6.5														
1	70 & over														
	Age not stated.														
	TOTALS	7	47	27	13	10	2	3		3	1				113

Marriages by Denominations in the Town of Midland, 1918.

GROOMS.	Anglican,	Presbyterian,	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association,	Hebrew.	Salvation Army.	Other Denomina- tions,	Denomination not stated.	TOTAL BRIDES.
Anglican	5	1	2	 									8
Presbyterian	5	5	3			1							11
Methodist	1		7										10
Roman Catholic		1	2	10	1								13
Baptist					1								1
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army										1			1
Other Denominations											·		
Denomination not stated													
TOTAL GROOMS	8	7	14	10	3	1				1			41

Licenses, 39,

Banns, 5.

Marriages by Ages in the Town of Midland, 1918.

GROOMS,

AGE.	15	20	25	30	35	40	45	50	55	60	65	70 &over	Not stated	TOTAL.
15		6	3		1		1		· · · · · ·					11
20		14	4	2	1									21
25		1		1	1									:
30			3		3									5
35				1										1
40						1		1						2
45														
50														
55										1				1
60														
65														
70 & over														
Age no stated	t													
TOTAL		21	10	1	5	1	1	, 1		1				41

Marriages by Denominations in the Town of North Bay, 1918.

GROOMS.	Anglican,	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist,	Lutheran.	Evangelical Association,	Hebrew.	Salvation Army.	Other Denominations.	Denomination not stated.	TOTAL BRIDGE.
Anglican	3	2	2	1									s
Presbyterian	4	5	2	1									1:2
Methodist		2	4										
Roman Catholic	1	1	2	24									25
Baptist					1								1
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations													
Denomination not stated													
TOTAL GROOMS	8	10	10	26	1						····.		35

Licenses, 40.

Banns, 15.

Marriages by Ages in the Town of North Bay, 1918.

AGE.	15	20	25	30	35	40	45	50	5 5	60	6.5	70 & over	Not stated	Tork
15	2	6	4											
20		10	10	2										
25		4	4	1	3				1					
30			1		t		1							
3 5					1									
40								1						
.45								1						
50									1					
5.5														
60														
65									1					
7 0 & ov														
Age n														
Тота	s. 2	20	19	3	5		1	2	3					

Marriages by Denominations in the Town of Orillia, 1918.

g Rooms.	Anglican.	Presbyterian.	Methodist.	Roman Oatholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDE.
Anglican	5	3	1		2					 .			11
Presbyterian	4	12	8	1									25
Methodist	5	3	26										34
Roman Catholic			1	5									6
Baptist			3										3
Congregationalist													
Lutheran													
Byangelical Association													
Hebrew													
Salvation Army										1			1
Other Denominations		1									1		2
Denomination not stated													
TOTAL GROOMS	14	19	39	6	3					1	1		82

Licenses, 78.

Banns, 4.

Marriages by Ages in the Town of Orillia, 1918.

	AGE	15	20	2.5	30	35	40	45	50	5 5	60	6.5	70 &over	Not stated	TOTAL
	15	4	10	3											17
	20		10	17	4	2	5								35
	2.5		5	3	5	2	2		••••						14
	30			3	4	1									8
	3 5				1		1								2
	40						1	1							2
BRIDES	45							1	1		1				3
318.1	50											1			1
	5 5														
	60														
	6.5														
	70 & over														
	Age not stated.														
	TOTALS	4	55	26	14	5	6	3	1		1	1			82

Marriages by Denominations in the Town of Oshawa, 1918.

е по по по по по по по по по по по по по	Anglican,	Presbyterian.	Methodist.	Roman Catholic,	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDGE.
Anglican	4	1	3	1	 						••••		9
Presbyterian	3	6	1							:			11)
Methodist	1	5	17	1									24
Roman Catholic				3									3
Baptist			1		1								•)
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations		1									6		7
Denomination not stated													
TOTAL GROOMS	8	13	5.5	5	1						6		55

Licenses, 53.

Banns, 2.

Marriages by Ages in the Town of Oshawa, 1918.

Age.	15	20	25	30	35	40	4.5	50	5 5	60	6.5	70 & over	Not stated	TOTAL
15	3	8	3		1									1.
20	1	12	4	4	1	1								9;
2.5		1	5	1										7
30				1			2,	1						
3 5				1	1									
40														1
45						1								-
50								1						1
5 5							1							1
60														
6.5														
70 & over														
Age no stated	t													
TOTAL	8 4	21	11	7	3	3	4	2						55

Marriages by Denominations in the Town of Owen Sound, 1918.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lulheran.	Evangelical Association.	llebrew.	Salvation Aimy.	Other Denomins- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	4	5	4										10
Presbyterian	1	30	1		3								37
Methodist	3	8	16		1						1		33
Roman Catholic		1		3									4
Bap1ist		3	3	3	5						1		12
Congregationalist													
Lutheran		1											1
Evangelical Association													
Hebrew									1				1
Salvation Army													
Other Denominations											1		1
Denomination not stated													
TOTAL GROOMS	8	45	- 27	6	8				1		3		315
	1	Į.	1		1	j	1	ì		ì	ŧ	1	1

Licenses, 94.

Banns 4.

Marriages by Ages in the Town of Owen Sound, 1918.

AGE.	1.5	20	25	30	3 5	40	45	50	5.5	60	65	70 &over	Not stated	Тота
15	3	16	4	1	4									
20	1	22	11	4	3									
2.5		3	5	0	3	5								
30			1	1	•,	1	3	1						
35			1		1									
40					1					1	1			
45					1					1				
50														
5.5											t			
60														
6.5														
70 & over														
Age not stated.														
TOTALS.	1	41	5.5	8	13	3	5	1		2	2			

Marriages by Denominations in the Town of Parry Sound, 1918.

Сиоомв. Виград	Anglican .	Presbytetian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical, Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	Toral Bribes.
Anglican	1	9	····	1	2								.9
Presbyterian	1	5	2										۲.
Methodist	1	1	18	3	3		1						26
Roman Catholic	2			11	1								11
Baptist			1	1	5								7
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations											1		1
Denomination not stated													
TOTAL GROOMS	8	5	21	16	10		1		•••••		1		65

Licenses, 59.

Banns, 6.

Marriages by Ages in the Town of Parry Sound, 1918.

AGE.	15	20	25	30	35	40	45	50	55	60	65	70 & over	Not stated	TOTAL.
15	2	7	9	1										19
20		10	15	2	3									30
25			1	4	1	1								7
30			1	1	1				1					4
35					1	1								
40					1		1							:
45														
50					1									
5.5					1	· · · · ·		1						1
60														
65														
70 & over														
Age no stated.	1													
TOTALS	. 2	17	26	8	7	3	1	1	1					65

Marriages by Denominations in the Town of Pembroke, 1918.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican	3	3	3			••••		.					9
Presbyterian		6	1	1									8
Methodist		1	4	1	5								8
Roman Catholic	1	1	1	34									37
Baptist	1												1
Congregationalist													
Lntheran		1		1			7						9
Evangelical Association							1	3					4
Hebrew													
Salvation Army													
Other Denominations													
Denomination not stated													
TOTAL GROOMS	5	12	9	37	2		8	3					76

Licenses, 62.

Banns, 14.

Marriages by Ages in the Town of Pembroke, 1918.

AGE.	15	20	2.5	30	35	40	45	50	5 5	60	65	70 & over	Not stated	TOTAL
1.5	2	11	5	1	2									21
20		8	12	5	3	3								31
2.5		1	5	4	1		2	1						14
30				1	2			1						4
3 5					1	3		1						4
40														
4.5														
50									1		1			2
5.5														
60														
6.5														
70 & over														
Age not stated.														
TOTALS.	2	20	55	11	9	5	2	3	1		1			76

Marriages by Denominations in the Town of Renfrew, 1918.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican		1	2										3
Presbyterian	1	10	1		1								13
Methodist	t	5	16	1									23
Roman Catholic		1	1	21									23
Baptist		1											1
Congregational													
Lutheran													
Evangetical Association													
Hebrew													
Sa:vation Army													
Other Denominations											1		1
Denomination not stated												1	1
Total Grooms	5	18	50	55	1						1	1	65

Licenses, 54.

Banns, 11.

Marriages by Ages in the Town of Renfrew, 1918.

	AGE.	15	20	2.5	30	35	40	45	50	5 5	60	6.5	70 & over	Not stated	TOTAL
	15	1	7	5	1										14
	20	1	11	9	6	1		2							30
	25		* 3	3	1	2	1								10
	30			1	1		1	1							4
	35						3								
2	40												•		
BKIDES	45														
BR	50												1		
	5.5						····								
	60											1			1
	6.5														
	70 & over														
	Age not stated														
	TOTALS	3	21	18	12	3	5	3				1			65

Marriages by Denominations in the Town of Smith's Falls, 1918.

Энсоомэ.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated	TOTAL BRIDES.
Anglican	3	2	8										8
Presbyterian	3	4	3	2	1								13
Methodist	5	3	4										12
Roman Catholic				9									9
Baptist	1		2		3								6
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations											1		2
Denominationnotstated										1			1
Total Grooms	12	9	13	11	4					1	1		51

Licenses, 43.

Banns, 8

Marriages by Ages in the Town of Smith's Falls, 1918.

Age.	15	20	25	30	3 5	40	45	50	5 5	60	65	70 & over	Not stated	TOTAL
15	3	4	. 2			!								
20		11	8	2	1			1				ļ		9
2.5		1	5	3	3									
30			. 1	1	2		1	1						
35					2	3								
40														
4 5														
50														
5 5														
60														
6.5														
70 & over														
Age not stated.							1							
TOTALS	9	16	13		8	.2	1		<u> </u>					5

Marriages by Denominations in the Town of Sudbury, 1918.

										-	-		
Groons Groons	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist,	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	Torot. Butnes.
Anglican	2	3		3									;
Presbyterian	.5	11		2	1								16
Methodist	1	1	1	1									1
Roman Catholic	4	1	1	33			1						10
Baptist	1				3								3
Congregationalist													
Lutheran							5.3						5.5
Evangelical Association													
Hebrew													
Salvation Army													
Other Denominations										1	1		-3
Denomination not stated													
TOTAL GROOMS	10	15		39	3		23			1	1		91

Licenses, 75.

Banns, 19.

Marriages by Ages in the Town of Sudbury, 1918.

AGE.	15	20	25	30	35	40	45	50	55	60	65	70 & over.	Not stated	Тотал
15	2	9	8	1	1						1			
20		11	18	8	3	1	1							1
25		3	8	3	5	1								:20
30			1	-3	1									
35					2									
40						1								1
45							1	1	1					
50														
55									1					1
60														
65														
70 & over														
Age not stated,														
TOTALS.	2	23	35	14	11	3		1	•)		1			91

Marriages by Denominations in the Town of Trenton, 1918.

GROOMS.	BRIDGS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDES.
Anglican		9	1	4	ą							1		16
Presbyterian		3	:3	3		1								10
Methodist		5	3	41	÷	-3								53
Roman Catholic		1		1	11			·						13
Baptist														
Congregationalist														
Lutheran														
Evangelical Associa	tion													
Hebrew														
Salvation Army											2			2
Other Denomination	ns													
Denomination notst	ated													
TOTAL GROOMS		17	7	49	15	3					5	1		94

Licenses, 92.

Banns, 2.

Marriages by Ages in the Town of Trenton, 1918.

	AGE.	15	20	25	30	35	40	45	50	55	60	65	70 & over	Not stated	TOTAL
	15	3	11	5	3	- 5		·							2
	20	2	26	10	4	1						<u>.</u>			4
	2.5		3	5	3	1									1
	30			2	3	1	1	,							
	35				1		1	1		1					
	40						3	1							
	45										1				
	50							1					1		
ı	55														
	60		·							1	1				
	65														
	70 & over.														
	Not stated.														
1	TOTALS.	5	39	19	13	5	5	3		- 2	- 2		1		9

Marriages by Denominations in the Town of Walkerville, 1918.

								-						
GROOMS.	Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Other Penominations,	Denomination not stated,	TOTAL BRIDGES.
Anglican		5		3	2									10
Presbyterian		1	5	1		1								5
Methodist				5		1	1							î
Roman Catholic		1		1	14									16
Baptist		1		1	1	3								15
Congregationalis	t													
Lutheran														
Evangelical Asso	ociation		,					ļ						
Hebrew														
Salvation Army.														
Other Denomina	ations											1		1
Denominationne	otstated													
TOTAL GROO	мѕ	8	5	11	17	5	1					1		48
		į.	l		,	1								

Licenses, 42.

Banns, 6.

Marriages by Ages in the Town of Walkerville, 1918.

	AGE,	15	20	25	30	35	40	45	50	55	60	65	Not stated	TOTAL.
	15	5	4	3		. 3							 	14
	20		10	2				1					 	13
	25			2	6			1					 	9
	30				5			1					 	2)
	35			1	1	5							 	4
· i	40						1	5					 	3
DE	45					1			1				 	• • • • • • • • • • • • • • • • • • • •
BRI	50												 	
_	55												 	
	60												 	
	65												 	
	70 & over.												 	
	Not stated.												 	
	TOTALS.	5	14	8	9	5	1						 	49

Marriages by Denominations in the Town of Welland, 1918.

GROOMS.	Anglican.	Presbyterian.	Methodist,	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association,	Hebrew.	Salvation Army.	Other Denomina- tions.	Denomination not stated.	TOTAL BRIDER.
Anglican	t0	4	2	! ;	1	 				 	1		18
Presbyterian	4	s	4	1									17
Methodist	3	1	15		1						1		21
Roman Catholic				23			1						24
Baptist		3	3		1								- 6
Congregationalist													
Lntheran				1									1
Evangelical Association								1					1
Hebrew				i									
Salvation Army													
Other Denominations	1		1	1	2						5		10
Denomination not stated													
TOTAL GROOMS	18	16	24	26	5			1			7		98
										1	(1	1

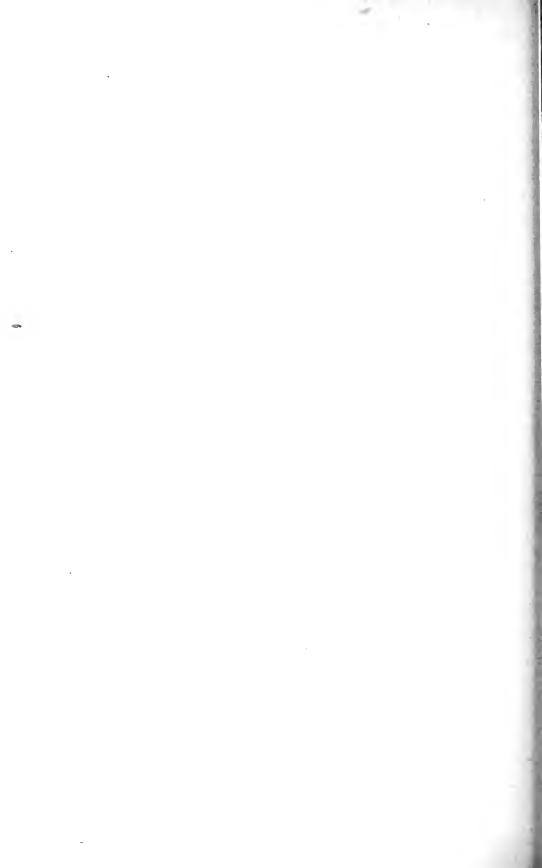
Licenses, 87.

Banns, 11.

Marriages by Ages in the Town of Welland, 1918.

Age	15	20	25	30	35	40	45	50	5.5	60	65	70 & over	Тота
15	2	21	4	4	2					· · · · · ·			 3
20	2	16	8	4	1	1							 3
2.5		2	7	7		1	1						 . 1
30					3	1		2					
35							2						
40							3						
45					1		1						
50									1				
5 5													
60										1			
6.5													
70 & over													
Age not stated.													
TOTALS.	4	39	19	15	7	3	7	2	1	1			 98





CAUSES OF DEATH IN THE DISTRICT OF ALGOMA, 1918.

1 R.G.

ALGOMA—Continued.

TIVE SYSTEM. TIVE SYSTEM. (Cancer excepted r. 2 years) Ars and over) or THE GENITO- ANNEXA.		: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :	:				12 12 21 21 32 32 32 4 - 21 21 - 21	E E S 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9			<u>z</u> <u>z</u> = :::	: : - -::0:: 0::::-:: :		01 01 01 01 02 02 02 02	ci ci re - :-ee : - ::ee : - ::ee : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :	1 : (- : - :	
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136. Other accidents of labor	22	:	:	:	:	:		٠	-		1		:	:]	- - :		
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142. Gangrene	1			 			-:	<u>-</u>	-:		-		-		- -:-:		-

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	lerema 16 16		12	UORD BY EXTERNAL	10 1 1 1	-2000			DISEASES.		lefined	20 30
	lerema 16 16		12	RODUORD BY EXTERNAL SES.	10 1 1 1	-2000			INED DISEASES.		lefined	20 30
	lerema 16 16		12	S PRODUCED BY EXTERNAL JAUGES.	10 1 1 1	-2000			DEFINED DISEASES.		lefined	20 30
	lerema 16 16		12	ONS PRODUCED BY EXTERNAL CAUGES.	10 1 1 1	-2000			L-DEFINED DISEASES.		lefined	20 30
	lerema 16 16	XIIOLD AGE.	12	CTIONS PRODUCED BY EXTERNAL CAUSES.	10 1 1 1	-2000			-ILL-DEFINED DISEASES.		lefined	20 30
	lerema 16 16		12	FFECTIONS PRODUCED BY EXTERNAL CAUSES.	10 1 1 1	-2000			V.—ILL-DEFINED DISEASES.		lefined	20 30
	lerema 16 16		12	-Affections Produced by External Cauges.	10 1 1 1	-2000			XIV.—ILL-DEFINED DISEASES.		lefined	20 30
	lerema 16 16		12	II.—Affections Produord by External Cauges.	10 1 1 1	-2000			XIV.—ILL-DEFINED DISEASES.		lefined	20 30
17	lerema 16 16	XII.—Old Age.	:	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUGES.	1 1	-2000			XIV.—ILL-DEFINED DISEASES.		lefined	20 30
	16 16		12	XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUGES.	10 1 1 1	- 21 21 21	: : : :	Railroad Street car Automobile Other crushing e cold stream of specified)	XIV.—ILL-DEFINED DISEASES.		: : : : : : : : : :	20 30
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CAUSES OF DEATH IN THE COUNTY OF CARLETON, 1918.

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VI.—Non-Venereal Diseases of the Genito- Urinary Svstem and Annexa. Group Total	### Group Total ###################################

CAUSES OF DEATH IN THE COUNTY OF ESSEX, 1918.

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(I.—Diseases of the Newous System and Of the Organs of Special Sense. Group Total 61. Meningitis 63. Other diseases of the spinal cord 64. Cerobral hemorrhage, apoplexy 66. Paralysis without specified cause 65. Other forms of mental alteration 71. Convulsions of infants 71. Other diseases of the nervous system 71. Other diseases of the nervous System 64. Group Total	78. Acute endocarditis 79. Organic diseases of the heart 80. Angina pectoris 81. Diseases of the arteries, atheroma, aneurysm, etc. 82. Embolism and thrombosis IV.—DISBASES OF THE RESPIRATORY SVSTEM. Group Total	87. Diseases of the larynx 89. Acute bronchitis 90. Chronic bronchitis 91. Broncho-pneumonia 92. Preumonia 93. Pleurisy 94. Aulmonary congestion, pulmonary apoplexy 96. All monary congestion, pulmonary apoplexy 97. — Diseases of the Diosente System.	Group Total On Diseases of the pharynx On Diseases of the stomatel (cancer excepted) Other diseases of the stomatel (cancer excepted) On Diseases of the stomatel (cancer excepted) On Diseases of the intestins of the intestines On Diseases of the intestines On Diseases of the intestines On Diseases of the liver To Aher diseases of the liver On Diseases of the speed Simple peritonitis (non-puerperal)	VI.—Non-Venereal Diseases of the Genito- Heinary Stytem and Annexa. Group Total 119. Acute nephribs 120. Bright's disease 122. Other diseases of the kidneys and annexa 124. Diseases of the bindder 126. Diseases of the under

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,	VIII.—DISEARES OF THE SKIN AND OF THE GELULAR TISSUR. Group Total		
142.	142. Gangrene		
	N.—Congenital Malformations.		
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	XI.—DISEASES OF EARLY INFANCY. Group Total		
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CAUSES OF DEATH IN THE COUNTY OF FRONTENAC, 1918.

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	III DISEASES OF THE CIRCULATORY Group Total	70. Organic diseases of the heart 80. Angina pectoris 81. Diseases of the arteries, atheroma, 42. Embolism and thrombosis.	IV.—Diseases of the Respiratory System	89. Acute bronchitis 90. Chronte bronchltis 92. Pneumonia 93. Pleurisy 96. Asthma	V	5	DOUBLA MOR X	VI.—NON-VENEREAL DISEASES OF THE URINARY SYSTEM AND ANNEXA. Group Total	8000 0000		9	138. Puerperal albuminuria and convulsion	VIII.—Diseases of the Skin and o Cellular Tissue. Group Total
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CAUSES OF DEATH IN THE COUNTY OF HALIBURTON, 1918.

	OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Number of Column.	Grand Total	Group Total	10. Influenza	Total deaths from tuberculosis	28. Tuberculosis of the lungs. 31. Abdominal tuberculosis 39. Cancer and other malignant tumors of the buceal cavity. 45. Cancer and other milignant tumors of other organs or of organs not specified. 50. Diabetes 51. Exophthalmic goitre	II.—Diseases of the Nervous System and of the Group Total Group Total 60. Encephalitis 61. Meningths 62. Locomotor ataxia 63. Locomotor ataxia 64. Cerebral hemorrhage, apoplexy 65. Paralysis without specified causo 73. Neuralgia and neuritis 76. Diseases of the ears	III.—Diseases of the Circulatory System. Group Total
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IV.—DISBASES OF THE RESPIRATORY SYSTEM. Group Total	10
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VDiseases of the Digestive System. Group Total	
103. Other diseases of the stomach (cancer excepted)	
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Group Total	
VIITHE PUERPERAL STATE. Group Total	
136. Other accidents of labor	
X.—Comgenital Malporations.	
150. Congenital malformations (still-births not included)	
Group Total	
Group Total	

XIII.—Affections Produced by External Causes.								191
Group Total	10			-	1		. 1 1	
165. Other acute poisonings 169. Accidental drowning 173. Traumatism in mines and quarries 186. Other external violence								
XIV ILL-DEFINED DISEASES.		-						
Group Total	::		:	-:			:	71
189. Cause of death not specified or ill-defined	_						1:	:
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Number of Column.	IX.—Diseases of the Bones and of the Ordans of Locomotion. Group Total X.—Comenital Malpormations (still-births not included) XI.—Diseases of Early Infancy. XI.—Diseases of Early Infancy. Group Total I51. Congenital debility, icterus, and sclerena I54. XII.—Old Age. Group Total XIII.—Affections Produced by Father Infancy. Group Total XIII.—Affections Produced by Early Infancy. Group Total XIII.—Affections Produced by Early Infancy. Group Total I57. Suicide by hanging or strangulation I68. Suicide by drowning I69. Accidental drowning (a) Street car (b) Street car (c) Antomobiling (d) Other crushing (d) Other crushing I16. Injuries by animals I16. Injuries by animals III.—Affertual (a) Arry Trans.	Group Total 189. Cause of death not specified or ill-defined STILL-BIRTHS.

CAÚSES OF DEATH IN THE COUNTY OF HASTINGS, 1918. (BELLEVILLE NOT INCLUDED.)

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Number of Column. 66. Paralysis without specified cause 67. General paralysis of the insane 68. Other forms of mental alienation 69. Ephilopsy 70. Convulsions (non-pnerperal) 71. Convulsions of infants 74. Other diseases of the nervous system III.—Diseases of The Circulatory System	Group Total 79. Organic diseases of the heart 8. Digenses of the arteries, atheroma, aneurysm. etc. 82. Embolism and thrombosis 83. Hemorrhage; other diseases of the circulatory system. IV.—Digases of the larynx Group Total 87. Diseases of the larynx 88. Acute bronchitis 90. Chronic bronchitis 91. Bronche-pineumonia 92. Premuonia 93. Premuonia 94. Asthma V.—Diseases of the lung W.—Diseases of the stomach (cancer excepted) 108. Other diseases of the stomach (cancer excepted) 109. Hernia, intestinal obstructions 100. Diseases of the intestines 111. Billary calculi 112. Simple perilentials (non-pureperal)	, : :: <u>ĕ</u> :

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61. Meningtis 63. Other diseases of the spinal cord 64. Gerebrah hemorrhage, apoplexy 65. Softening of the brain 66. Paralysis without specified cause 69. Epilepsy 70. Convulsions (non-puerperal) 71. Convulsions of infants 74. Other diseases of the nervous system 76. Diseases of the cars III.—DISEASES OF THE CIRCULATORY SYSTEM. Group Total.	79. Organic diseases of the heart. 80. Angina preferis 81. Diseases of the arteries, atterona, anourysm, etc. 82. Emblism and thrombosis. 85. Hæmorrhage; other diseases of the circulatory system. IV.—Diseases of the Respiratory System. Group Total.	88. Diseases of the thuroid body 89. Acute bronchitis 90. Chronic bronchitis 91. Broncho-prenuonia 92. Pneumonia 94. Pulmonary congestion. pulmonary apoplexy 96. Asthma V.—Diseases of the Didestive System. Group Total	102. Ulcar of the stomach	Group Total 119. Acute nephritis 120. Brights disease 126. Diseases of the prostate VII.—THE PUERPERAL STATE. Group Total 187. Puerperal septicininia

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	VIII.—DISEASES OF THE SKIN CRLUULAR TISSUE.	Ϋ́Ğ,			0			_		bd .			_	の 座O	_	.9
	ii;	142. Gangrene 144. Acute abscess			150. Congenital malformations (still-births cluded)			151. Congenital debility, icterus, and sci	154.	×		163. (165. (169. A 172. J	175. 1	177. S 181. E 186. C	Group Total	Not included in totals

CAUSES OF DEATH IN THE COUNTY OF LAMBTON, 1918. (SARNIA NOT INCLUDED).

	OFFICIAL ENGLISH TRANSLATION. DISRASES AND CAUSES OF DEATH. Total	Number of Column.	Grand Total	I.—General Diseases.	Group Total	1. Typhoid fever 8. Whooping cough 10. Influenza 18. Erysipelas 20. Purulent infection and septicæmia 24. Tetanus	Total deaths from tuberculosis	28. Tuberculosis of the lungs. 29. Acute military tuberculosis 30. Tuberculous meningitis 31. Abdominal tuberculosis 39. Cancer and other malignant tumors of the bucal cavity. 40. Cancer and other malignant tumors of the stomach liver and other malignant tumors of the breast other military tumors of the stomach liver and other military tumors of the breast other military tumors of the skin and other military tumors of the skin cancer and other military tumors of other skin other military tumors of other organs or of organs to organs of organs accepted) 48. Cancer and other military tumors of other organs or organs accepted) 48. Charlet tumors (tumors of the formal chemical charlet char
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Months.	June. July. August.	32 33 34 3	15		9 9 9		1:	7 7 7 7
	September, October, November, December,	35 36 37 38	8t ts 28		8 33 30		7	1

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Number of Column.	II.—Diseases of the Nervous System and of the Ordans of Special Sense. Group Total	61. Meningitis 63. Other diseases of the spinal cord 64. Cerebral hamorrhage, apoplexy 65. Softening of the brain 66. Paralysis without specified cause 68. Other forms of mental alienation 69. Epilepsy 74. Other diseases of the nervous system	III.—Diseases of the Circulatory System. Group Total	79. Organic diseases of the heart 10 80. Angina pectoris 10 Bisases of the arteries, atheroma, anentysm. 21 82. Embolism and thrombosis 11 Bisases 12 Bisases 13 Bisases 14 Bisases 15 Bisases 15 Bisases 16 Bisases 16 Bisases 16 Bisases 17 Bisases 17 Bisases 17 Bisases 17 Bisases 17 Bisases 18 Bisa	IV.—Diseases of the Respiratory System. Group Total	87. Diseases of the larynx 89. Acute bronchitis 91. Ghronic bronchitis 92. Preumonia 93. Pheumonia 94. Pulmonary congestion, pulmonary apoplexy 95. Asthma	V.—Diseases of the Didertive System. Group Total

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103. Other diseases of the stomach (cancer excepted). 104. Disrrhos and enteritis (under 2 years). 105. Disrrhos and enteritis (2 years and over). 106. Appendicitis and typhilitis 107. Hernia. intestinal obstructions. 113. Girrhosis of the liver. 115. Other diseases of the liver. 117. Simple peritonitis (non-puerperal).	CH.—NON-VENEREAL DISEASES OF THE GENITO-URINARY SYSTEM AND ANNEXA. Group Total 120. Bright's disease 122. Other disease of the kidneys and annexa 126. Diseases of the prostate VII.—The Puerperal State Group Total 138. Puerperal albuminuria and convulsions VIII.—Diseases of the Skin and of the Celidulae Tissue Group Total 142. Gangrene Group Total 151. Congenital debility, icterus, and scherena 153. Lack of care Group Total XII.—Old Age. Group Total XIII.—Affections Produced by External Group Total XIII.—Affections Produced Group Total Total Group Total	165. Other acute poisonings

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Number of Column. 169. Accidental drowning 170. Traunatism by fall 174. Traunatism by tall 175. Traunatism by other crushing 175. Traunatism by other crushing 176. Automobile 176. Automobile 176. Injuries by animals 186. Other external violence 186. Other external violence	Group Total 189. Cause of death not specified or ill-defined STILL-BIRTHS.

CAUSES OF DEATH IN THE COUNTY OF LANARK, 1918. (SMITH'S FALLS NOT INCLUDED.)

	OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH, Total. Number of Column.	Grand Total	I.—General Diseases. Group Total	1. Typhoid fever 2 10. Influenza 30 18. Erysipelas 1	Total deaths from tuberculosis	j j	5 6	42. Cancer and other muligrant tumors of the female genital organs. 43. Cancer and other malignant tumors of the breast cancer and other malignant tumors of the latter and other malignant tumors of the latter and other malignant tumors of the latter and other malignant tumors of the latter and other malignant tumors of the latter and other malignants.	skin Cancer and other malignant tumors of other organs or of organs not specified Diabetes Exoptitualmic goitre	54. Aneunia, chlorosis 55. Other general diseases II.—Diseases of the Nervous System and of the	Group Total
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CAUSES OF DEATH IN THE COUNTIES OF LEEDS AND GRENVILLE, 1918. (BROCKVILLE NOT INCLUDED.)

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CAUSES OF DEATH IN THE COUNTIES OF LENNOX AND ADDINGTON, 1918.

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CAUSES OF DEATH IN THE DISTRICT OF MUSICOKA, 1918.

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CAUSES OF DEATH IN THE DISTRICT OF NIPISSING, 1918 (NORTH BAY NOT INCLUDED).

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CAUSES OF DEATH IN THE COUNTY OF NORFOLK, 1918.

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68. Other forms of mental alienat 69. Epilopsy	III.—Diseases of the Ciroulatory Group Total	78. Acute endocarditis 79. Organic diseases of the heart 10. Angina pectoris 11. Diseases of the arteries, ather 12. Diseases of the arteries, ather 13. Hemorrhage; other diseases of 15. Femorrhage; other diseases of 15. System	IV.—Diseases of the Respiratory	Group Total O. Chronic bronchitis I. Broncho-pieumonia 2. Pneumonia 6. Asthma	V DISEASES OF THE DIGES	Group Total	20. Diseases of the pharynx 2. Uler of the stomach 33. Other diseases of the stomach 4. Diarrhea and entertifs (2 ye of Diarrhea and entertifs (2 ye of Diarrhea and enterties (2 ye of Diseases of the intestines 4. Billary eatenly 5. Other diseases of the liver 5. Other diseases of the liver 7. Simple peritonitis (non-puer)		Group Total	9. Acute nephritis 11. Chyluria 12. Other diseases of the kidneys 16. Diseases of the prostate	VII.—THE PUERPERAL Group Total
68. Other forms of mental alienation . 69. Epilopsy	III.—Diseases of the Circutator	78. Acute endocarditis 79. Organic diseases of the heart 80. Angina pectoris 81. Diseases of the arteries, atherom etc. 85. Hemorrhage; other diseases of the system	IV.—Diseases of the Respirat	Group Total 90. Chronic bronchitis 91. Bronchopneumonia 92. Presumonia 96. Asthma	VDISEASES OF THE DIGES	Group Total	100. Diseases of the pharynx 102. Uler of the stometh 103. Other diseases of the stometh 104. Diarrhea and entertifs (und 110. Diarrhea and entertifs (2 ye 110. Bilary calculi 114. Billary calculi 115. Other diseases of the liver 117. Simple peritonitis (non-puer)	VI.—NON-VENEREAL DISEASES URINARY SYSTEM AND	Group Total	119. Acute nephritis 120. Bright's disease 121. Chyluria 122. Other diseases of the kidneys 126. Diseases of the prostate	VII.—THE PUERPERAL STATE Group Total

PEEL-Concluded.

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VIII.—DISEANES OF THE SKIN AND OF THE CELLULAR TISSUE.	::				- :	:					- :	:		:		21			• •	,			:			:	:
142. Gangrene	**	:			:	:				: :	77			71		2,		-	?!	:	-	- -: 1	: 1	- 1	- i : i	:	:1
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XIII.—Affections Produced by External Causes.			1	1						-																	
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158. Suicide by drowning. 165. Other acute poisonings 167. Burns (confagration excepted) 169. Accidental drowning. 172. Traumatism by fall	- 21 - 57 -		:::::					::-::	:::	:::-::	:::::	: 51			::	:-::-		20			:-:-:	-::-::	-::::	:-:::	:::-:	:::::	:::::
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Not included in totals	<u>:</u>	_				-						-								-	1			_ 1			1

CAUSES OF DEATH IN THE COUNTY OF PERTH, 1918 (STRATFORD NOT INCLUDED).

	OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH. To	Number of Column.	Grand Total	Group Total	6. Measles 8. Whooping cough 10. Influenza	Total deaths from tuberculosis	28. Tuberculosis of the lungs 34. Tuberculosis of other organs 40. Cancer and other malignant tumors of the atomach liver malignant tumors of the peritonneum, intestines, rectum 42. Cancer and other malignant tumors of the female femilal organs. 43. Cancer and other malignant tumors of the breast of the malignant tumors of the breast of the malignant tumors of the organs or of organs not specified 47. Acute articular rheumatism and gout 50. Diabetes 51. Leuchemia. 54. Anemia, chlorosis 55. Other general diseases 55. Other general diseases 66. Other diseases of the spinal cord 67. Moningtis 68. Chebral hemorrhage, aponlexy 68. Cerebral hemorrhage, aponlexy 66. Paralysis without specified ceuse
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Number of Column.	69. Epilepsy (norpuerperal) 70. Convulsions (non-puerperal) 71. Convulsions of infants 74. Other diseases of the nervous system	III.—Diseases of the Circulatory System.	Group Total 79. Organic diseases of the heart 80. Angina perforts 81. Diseases of the arteries, atheroma, uncurysn. 82. Embolism and thrombosis	IV.—DISEASES OF THE RESPIRATORY SYSTEM. Group Total	88. Diseases of the thyroid body 89. Acute bronchitis 90. Chronic bronchitis 91. Broncho-pneumonia 92. Pneumonia 93. Pleurisy	VDISEASES OF THE DIGESTIVE SYSTEM.	Group Total	cer es	Group Total	120. Bright's disease 122. Other diseases of the kidneys and adnexa 123. Calculi of the urinary passages 124. Diseases of the bladder 126. Diseases of the prostate 129. Uterine tumor (non-cancerous) VIII—THE PUERPERAL STATE.	138. Puerperal albuminuria and convulsions

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IQ I	Group Total	igres	XI DISEASES OF EARLY INFA	Group Total	geni k o		Group Total	Ì	Group Total	Suicide by drowning Other suicides Other acute poisoining Accidental drowning Traumatism in mines and quarries	Traumatism by other crushing	(a) Railroad (b) Street car (c) Automobile (d) Other crushing Effectivity (lightning excepted) Fractures (cause not specified) Other external violence	×	Group Total	Sudden death		ded
VIII.—DISEASES OF THE SKIN AND CELLULAR TISSUE.	Ġ	Gar	×	Ċ	Con		Ü	XIII. — AFFECTIONS PRODUCED BY E. CAUSES.	ਲੌ	Suit Othe Othe Acc	Trai	Effe EFFe Frac			\mathbf{S}^{nd}		nelu
Σ		142. Gangrene			151. Congenital debility, icterus, and scl 153. Lack of care	154.		•		158. 163. 165. 169.	175.	(a) Railroad (b) Street car (c) Automobile (d) Other crushing 179. Effects of heat 181. Electricity (lightning excepted) 185. Fractures (cause not specifical) 186. Other external violence			188.		Not included in totals

CAUSES OF DEATH IN THE CITY OF PETERBOROUGH, 1918.

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Months.	2 January. 2 January. 3 February. 3 March. 32 March. 33 June. 34 June. 35 June. 36 June. 37 June. 38 June. 38 June. 39 June. 30 June. 30 June. 30 June. 31 June. 32 June. 33 June. 34 June. 35 June. 36 June. 36 June.	S1		EPORT OF		No. 20
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	Total.	717	57	-ng x u-		£1 e
	DISEASES AND CAUSES OF DEATH,	Grand Total	I.—General Diseases. Group Total	7. Scarlet fever 8. Whooping cough 10. Influenza 12. Dysentery 20. Purulent infection and septicemia Total deaths from tuberculosis 28. Tuberculosis of the lungs	41. Tubercalosis of other organs 40. Cancer and other malignant tumors of the stomach liver 41. Cancer and other malignant tumors of the peritoneum, intostines, rectum 42. Cancer and other malignant tumors of the female genital organs 43. Cancer and other malignant tumors of the organs or of organs not specified 48. Chronic rheumatism and gout 55. Diubetes 54. Anamia, chlorosis	II.—Diseases of the Nervous System and of the Ordans of Sproial Sense. Group Total 60. Encephalitis 63. Meningitis 63. Other diseases of the spinal cord 64. Cerebral hemorrhage, apoplexy 66. Paralysis without specified cause

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sion	III.—Diseases of the Circulatory Group Total	Acute endocarditis Organic diseases of the heart Diseases of the arteries, atheroms, aneurysm. Embolism and thrombosis	IVDISEASES OF THE RESPIRATORY S	Group Total	Discases of the thyroid body Acute Pronchitis Chronic broachitis Preumonia Prelumousty congestion, pulmonary apon Asthma	V DISEASES OF THE DIGESTIVE SY	Group Total	dise	Venereal Diseases of the Urinary System and Adnexa.	Group Total	Acute nephritis Bright's disease Other diseases of the kidneys and ad	VIITHE PUERPERAL STATE.	Group Total	Puerperal memorrhage Other accidents of labor Puerperal septicemia Puerperal albuminuria and convulsi	XI.—DISEASES OF EARLY INFANC.	Congenital debility, ictorus, and scle Other diseases peculiar to early infa
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69. Epilepsy 71. Convulsions of infants 74. Other diseases of the nervous system	H	78. Acute endocarditis	Η		88. Diseases of the thyroid body 99. Chronic bronchitis 92. Preumonia 94. Pulmonary congestion, pulmonary apo	-		102. Ulcer of the stomach 103. Other diseases of the stomach (cancer 104. Diarrhos and entertis (under 2 years 103. Appendicitis and typhilis 117. Simple peritonitis (non-puerperal) .	VI.—Non-Venereal Diseases of the Urinary System and Adnexa.		60%			135. I 136. (137. J 138.		151.
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PETERBOROUGH-Concluded.

Number of Column.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	6 37 38
XII.—Old Agr.	22	-
XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.	1 1 2	: :: :
168. Conflagration		:: :
(a) Street car (b) Street car (c) Automobile (d) Other crushing 178. Excessive coll 180. Lightning 186. Practures (cause not specified)		REPORT 0
STILL-BIRTHS.	22 22 23 23 23 23 23 23 23 23 23 23 23 2	?₹

CAUSES OF DEATH IN THE COUNTIES OF PRESCOTT AND RUSSELL, 1918.

	OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH. Total.	Number of Column.	Grand Total	Group Total 418	Typhoid fever Whooping cough Whooping cough Influenza Influenza Bysentery Bysteples Other epidemic discuses.	Total deaths from tuberculosis	Tuberculosis of the lungs Acute miliary tuberculosis Tuberculous meningitis Potfs disease Potfs disease Canera and other malignant tumors of the bureal cavity Canera and other malignant tumors of the periformeum, nuestines, rectum Periformeum, nuestines, rectum Canera and other malignant tumors of the periformeum, nuestines, rectum Canera and other malignant tumors of the breast other malignant tumors of the canera and other malignant tumors of the breast of the malignant tumors of the skin caner and other malignant tumors of other skin concer and other malignant tumors of other canera and other malignant tumors of other concer and other malignant tumors of other concer and other malignant tumors of other concer and other malignant tumors of other concer and other malignant tumors of other concer and other malignant tumors of other concer and other malignant tumors of other concer and other malignant tumors of other concer and other malignant tumors of other concer and other malignant tumors of other concer and other malignant tumors of other concer and other malignant tumors of other concer and other malignant tumors of other concer and other malignant tumors of other concer and other malignant tumors of other concer and other malignant tumors of other concer and other malignant tumors of other concer and other malignant tumors of other concer and other malignant tumors of other concernations and other malignant tumors of other concernations and other malignant tumors of other concernations and other malignant tumors of other concernations and other malignant tumors of other concernations and other malignant tumors of other concernations and other malignant tumors of other concernations and other malignant tumors of other concernations and other malignant tumors of other concernations and other malignant tumors of other concernations and other malignant tumors of other concernations and other malignant tumors of other concernations and other malignant tumors of other concernations and other malignant
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-	40-49, 50-59, 60-69, 70-79, 80 and over, Not stated,	12 13 14 15 16 17	S1 99	91 30 16 7 5	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6 3 1	
Sex.	Male, Female,	18 19	744	191 227	0.0 ti 0.	3.5 41	
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Months	April. May. June. July.	30 31 32 33 3	69 15 tt 19	9 8 91 81	7	9 9 + 5	9
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PRESCOTT AND RUSSELL—Continued.

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Number of Column.	II.—Diseases of the Nervous System and of the Organs of Special Sense. Group Total	61. Meningitis 63. Other diseases of the spinal cord 64. Cerebral hemorrlage, apoptexy 65. Paralysis without specified cause 69. Epilepsy 71. Convulsions of infants 74. Other diseases of the nervous system	Group Total Group Potal 79. Organic diseases of the heart. 80. Angina perforis	Embolism and thrombosis. Diseases of the veins (varies, phebitis, etc.) Embolitis, etc.) Embolitis, etc.)	IV.—DISEASES OF THE RESPIRATORY SYSTEM. Group Total	89. Acute bronchitis 90. Chronic bronchitis 91. Broncho-pneumonia 92. Pneumonia 93. Pletrisy 94. Pulmonary congestion, pulmonury apoplexy 96. Asthma 98. Other diseases of the respiratory system (tuber culosis excepted)	V.—Diseases of the Digestive System. Group Total	99. Diseases of the mouth and annexa in 103. Other diseases of the stomach (cancer excepted) 104. Diarrhea and entertits (under 2 years) 105. Diarrhea and entertits (2 years and over) 109. Hernia, intestinal obstructions 110. Bleases of the intestines 113. Girrhosis of the liver 113. Girrhosis of the liver 115. Other diseases of the liver 117. Simple pertionitis (non-puerperal)

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VI.—Non-Venereal Urinary E Group Total	126. Bright's disease		G	134. Accidents of pregnancy	VIII.—DISEASES OF THE SKIN AND O CELLULAR TISSUE.	Ģ	144. Acute abscess	IX.—Diseases of the Bones and of the of the officeres.	Ç	146. Diseases of the bones (tuberculosis e		ភ្ជ	150. Congenital malformations (still-birth cluded)	, 1	G,	151. Congenital debility, icterus, and selere		Ğ	хии	G,	159. Suicide by firearms 160. Suicide by cutting or piercing instruments. 167. Burns (conflagration excepted) 169. Accidental drowning
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Number of Column.	170. Traumatism by firearms 172. Traumatism by full 175. Traumatism by other crushing.	(a) Railroad (b) Street car (c) Automobile (d) Other crushing 179, Effects of heat 186. Other external violence	XIV.—ILL-DEFINED DISEASES. Group Total	189. Cause of death not specified or ill-defined STILL-BIRTHS.

CAUSES OF DEATH IN THE COUNTY OF PRINCE EDWARD, 1918.

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Number of Column.	Group Total 79, Organic diseases of the heart 80. Angina pectoris 81. Diseases of the arteries, atheroma, aneurysunete.	IV.—DISEASES OF THE RESPIRATORY SYSTEM. Group Total. 89. Acute bronchitis 90. Chronic bronchitis 91. Bronchopneumonia 92. Premochia	V.—DISEASES OF THE DIGESTIVE SYSTEM. Group Total	102. Ulcer of the stomach	VI.—Non-Venereal, Diseases of the Genito- Urinary System and Adnexa. Group Total	120. Bright's disease 122. Other diseases of the kidneys and annexa 126. Diseases of the prostate VIII.—DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE.	Group Total

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CAUSES OF DEATH IN THE DISTRICT OF RAINY RIVER, 1918.

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W.—Diseases of the Digestive System. Group Total	Group Total 136. Other accidents of labor 138. Puerperal albuminuria and convulsions XI.—Diseases of Early Infancy. Group Total XII.—Old Age. Group Total XIII.—Appertions Produced by Expended by freatures 159. Suicide by freature 159. Accidental drowning 175. Traumatism by other crushing (a) Railroad (b) Street car (c) Automobile (c) Automobile (d) Other crushing (d) Other crushing (e) Automobile (f) Automobile (f) Automobile (g) Automobile	MIV.—TilDefined Diseases. Group Total 189. Cause of death not specified or ill defined SridBurths.

CAUSES OF DEATH IN THE COUNTY OF RENFREW, 1918 (PEMBROKE NOT INCLUDED).

	OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DRATH,	Number of Column,	Grand Total	Group Total	1. Typhoid fever 7. Scarlet fever 8. Whooping cough 9. Diphtheria and evonp 10. Influenza 14. Dysentery 18. Eryspelas		Tuberculosis of the lungs Tuberculous meningitis Cancer and other malignant tumors of the	mors of t	41. Cancar and other malignant tumors of the peritonaum, intestines, rectum	Cancer and other malignant tumors of the female genital organs. Cancer and other malignant tumore of the	ors of oth	Acute articular rheumatism Chronic rheumatism and gout	51. Exophtalmic goitre 54. Autemia, ehloresis	II.—DISEASES OF THE NERVOUS SYSTEM AND OF THE	Group Total	61. Meningritis 63. Other diseases of the spinal cord
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64. Cerebral humorrhage, apoplexy 66. Paralysis without specified cause 69. Epilepsy 71. Convulsions of infants III.—Diseases of the Oroulatory System. 4. Group Total	78. Acute endocarditis 19. Organic diseases of the leart 19. Organic diseases of the leart 19. Organic diseases of the arteries, atheroma, aneurysm. 10. Etc. 10. Etc. 11. — Diseases of The RESPIRATORY SYSTEM. 11. — Diseases of The RESPIRATORY SYSTEM. 12. Group Total 13. Preumonia 14. — Diseases of the stomach (cancer excepted) 15. Preumonia 16. Other diseases of the stomach (cancer excepted) 16. Diseases of the stomach (cancer excepted) 17. Diseases of the stomach (cancer excepted) 18. Diseases of the stomach (cancer excepted) 19. Diseases of the stomach (cancer excepted) 10. Diseases of the stomach (cancer excepted) 10. Diseases of the stomach (cancer excepted) 10. Diseases of the stomach (cancer excepted) 10. Diseases of the stomach (cancer excepted) 10. Diseases of the stomach (cancer excepted) 10. Diseases of the liver 11. Simple peritonitis (non-puerperal)	

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STORMONT, DUNDAS AND GLENGARRY—Continued.

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STORMONT, DUNDAS AND GLENGARRY—Concluded.

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CAUSES OF DEATH IN THE DISTRICT OF SUDBURY, 1918 (TOWN OF SUDBURY NOT INCLUDED).

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CAUSES OF DEATH IN THE CITY OF BELLEVILLE, 1918.

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CAUSES OF DEATH IN THE CITY OF CHATHAM, 1918.

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CAUSES OF DEATH IN THE CITY OF FORT WILLIAM, 1918.

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CAUSES OF DEATH IN THE CITY OF GUELPH, 1918.

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CAUSES OF DEATH IN THE CITY OF KITCHENER, 1918.

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64. Cerebral hæmorrhage, apoplexy 66. Paralysis without specified cause 70. Convulsions (non-puerperal) 71. Convulsions of infants 74. Other diseases of the nervous system	Group Total Rauke endocarditis theret 79. Organic diseases of the heart 81. Diseases of the arteries, atheroma, aneurysm. etc.	IVDISEASES OF THE RESPIRATORY SYSTEM. Group Total	87. Diseases of the larynx 89. Acute bronchitis 91. Broncho-pneumonia 92. Pneumonia 94. Pulmonny congestion, pulmonary apoplexy 98. Other diseases of the respiratory system (tuberculosis excepted)	VDISKASES OF THE DIOESTIVE SYSTEM.	Group Total	104. Diarrhœa and enteritis (under 2 years) 108. Appendicits and typhilitis 109. Hernia, intestinal obstructions 111. Acute yellow atrophy of the liver 113. Girrhosis of the liver 114. Biliary calculi 115. Other discusses of the liver 117. Simple peritonitis (non-puerperal)	VI.—NON-VENERREAL DISEASES OF THE GENITO- URINARY SYSTEM AND ANNEXA.	Group Total 120. Bright's disease 130. Other diseases of the uterus	VIII.—DISEASES OF THE SKIN AND OF THE CELULAR TISSUE.	Group Total

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CAUSES OF DEATH IN THE CITY OF LONDON, 1918.

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CAUSES OF DEATH IN THE CITY OF ST. CATHARINES, 1918.

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ST. THOMAS—Continued.

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CAUSES OF DEATH IN THE CITY OF SARNIA, 1918.

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CAUSES OF DEATH IN THE CITY OF SAULT STE. MARIE, 1918.

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130. Other diseases of the uterus	Group Total	134. Accidents of pregnancy 135. Puerperal hemorrhage 136. Other accidents of labor 137. Puerperal septicamia 138. Puerperal albuminuria and convulsious	X.—CONGENITAL MALFORMATIONS.	Group Total	150. Congenital malformations (still-births not included)	XI.—DISEASES OF EARLY INFANCY.	Group Total	151. Congenital debility, icterus, and selerema	154. XIIOLD AGE.	Group Total	XIII.—Appections Produced by External Causes.	Group Total	155. Suicide by poison excepted) 167. Burns (confligration excepted) 168. Absorption of deleterious gases (conflagration excepted) 169. Accidental drowning 170. Truumatism by firearms	175. Tranmatism by other crushing	(a) Railroad (b) Street car (c) Automobile (d) Other crushing excepted) 181. Fleetrieity (lightning excepted) 185. Fractures (cause not specified)	XIV —Ill-Defined Diseases.	Group Total	189. Cause of death not specified or ill-defined STILL-BIRTHS. Not included in totals

### CAUSES OF DEATH IN THE CITY OF WOODSTOCK, 1918.

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Group Total  Group Total  Organic diseases of the heart  80. Angina pecfors  81. Diseases of the arteries, alteromate.	IV.—Diseases of the Respiratory  Group Total	91. Broncho-pneumonia 92. Pneumonia 94. Pulmonary congestion, pulmonary a	VDISEASES OF THE DIGESTIVE Group Total	103. Other diseases of the stomach (cancer e. 104. Diarrhea and enteritis (under 2 years) 108. Appendicits and typlilits. 110. Diseases of the intestines. 114. Biliary calculi. 117. Simple peritonitis (non-puerperal)	VI.—Non-Venereal Diseases of the Urinary System and Adnera	Group Total	VIII.—DISEASES OF THE SKIN AND CELLULAR TISSUE.	Group Total	X.—Congenital Malformations.  Group Total

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Number of Column.	AI.—Diseases of Barly Infancy.  Group Total  151. Congenital debility, icterus, and sclerema  Aroup Total  XII.—Old Age.  Group Total  XIII.—Affections Produced by External.  Group Total  165. Other acute poisonings  (a) Railroad (b) Street car (c) Automobile (c) Automobile (d) Other external violence (d) Other external violence (d) Other external violence (e) Street car (f) Automobile (g) Other external violence (h) Street car (g) Other external violence

CAUSES OF DEATH IN THE TOWN OF BARRIE, 1918.

		Ages.		Sex.	ž	Nativity.		Social Con.	30n.		Months.	
OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH,	Total.	20-29; 40-49; 30-39; 40-49; 50-30; 50-30; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50-40; 50	60-69, 70-79, 80 and over, Not stated.	Male, Female. Not stated.	Canada.	Foreign.	Not stated.	Married.	Not stated.	January. February. March. April.	Mey. June. July. August.	September.
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I.—General Diseases.		-										İ
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10. Influenza 20. Purulent infection and septicemia	=-	9	::	- :	= :			'				- :
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28. Tuberculous of the bungs 30. Tuberculous meningitis 40. Cancer and other malignant tumors of the stomach, liver	10 - 01-			77-				"	1			
51. Exophitalnic goitre 53. Leuchæmia 54. Anæmia, chlorosis	:		· · · · · · · · · · · · · · · · · · ·		7		<u>:</u> :::::	:2/				
II.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORDANS OF SPECIAL SENSE.	3	-										
62. Locomofor ataxia	-		:   :  -  -  -  -	`  `   -	=   :	<del>-</del>			: :	-   : -   : :   :	: : : : : : : : : : : : : : : : : : : :	:   :
63. Other diseases of the spinal cord 64. Cerebral hæmorrhage, apoplexy 69. Epilepsy 74. Other diseases of the nervous system	-3		- 12	:	-::					::::!	:7::!	
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79. Organic diseases of the heart 81. Diseases of the arteries atheroma, ancurysn, etc. 85. Humorrhuge; other diseases of the circulatory system .	(-n -		- ?? ??	- 71	··	-::		97 : -		:- :		;; - ;; -

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IV, DISEASES OF THE RESPIRATORY SYSTEM.	01		9		(3)	_	9		-	2,   2,
91. Broncho-pneumonia 92. Pneumonia 93. Pleurisy 94. Fulmonary congestion, pulmonary apollexy 96. Asthma			-:::   -:::-:   :	- 7:	- :: - : - : - : - : - : - : - : - : -	-7' ::-		:::::	: : - : :   : : : : : :   - : : : : :	:-:-
V.—Diseases of the Digestive System.  Group Total	7			::			:	:	?' ? :  -	2,
104. Diarrhea and enteritis (under 2 years) 108. Appendictis and typhiltis 110. Diseases of the intestines	7,71 50		-;'-  :-:  :::  :::	- :71	21 27 22	r — r			: : :	:-:
VI.—NON-VENEREAL DISEASES OF THE GENITO- URINARY SYSTEM AND ADNEXA.  Group Total	:		::	:				25   -   :	:	:1
119 Acute nephritis 120. Bright's disease 132. Salphights and other diseases of the female genual organs						- : : !	: : :	:: :, :: :  :: -  :  :: :		::::!
XI.—Diseases of Early Infancy.  Group Total	9 9		-    -   :     :	:	:		:	:	:	: [
151. Congenital debility, icterus, and selerema	0 0				9	3		::	:	
154. XII.—0ld Age. Group Total	+1	7'	1:		-		:	27	-1	?!   
XIII,—Affections Produced by External Causes.			::	:	:    -  -	<u> </u>	:	-¦ -: <u>!</u> : <u>!</u>	:1	- : <u> </u> : <u> </u> : <u> </u>
185, Fractures (cause not specified)			-					=	: :: :: :: :: :: :: :: :: :: :: :: :: :	:
STILL-BURTHS.  Not included in totals	12   12   12   13   14   15   15   15   15   15   15   15	-	:	5.2	21	<u>:</u>		::	:	

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#### CAUSES OF DEATH IN THE TOWN OF COBALT, 1918.

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CAUSES OF DEATH IN THE TOWN OF COLLINGWOOD, 1918.

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CAUSES OF DEATH IN THE TOWN OF CORNWALL, 1918.

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## CAUSES OF DEATH IN THE TOWN OF INGERSOLL, 1918.

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	DIE	5	J	1. Typhoid fever 8. Whooping cough 10. Influenza 18. Erysholas 20. Purulent infection and septicemia	Total deaths from tuberculosis	40. Cancer and other malignant tum	Ç	45. Cancer and other malignant tumo organs or of organs not specified 50. Diabetes	54. Anæmia, chlorosisII.—DISEASES OF THE NERVOUS SYSTEM	-	61. Meningitis 63. Other diseases of the spinal cord 64. Cerebral hæmorhage, apoplexy 65. Paralysis without specified cause 74. Other diseases of the nervous syster	III.—DISEASES OF THE CIRCULATORY Group Total	78. Acute eudocarditis 79. Organic diseases of the heart 85. Hæmorrhage; other diseases of the system
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Group Total Acute bronchiús Broncho-pneumonia Pneumona Pleurisy Pulmonary congestion, pulmonary apoplexy	Group Total  Other diseases of the stomach Corpbed  Orange and entertis (under 2)	06. Diarrhou and enteritis (2 years and 108. Appendictis and typhilis	Group Total	VII.—The Pcerperal State.  Group Total	VIII.—DISEASES OF THE SKIN AND GELULAR TISSUE.  Group Total	XI.—Diseases or Group Total
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89. 91. 92. 93.	103.	106. Diarrhoa and entertits (2 years and over 108. Appendix and typhilits 110. Diseased to the intestines	Group Total	VII.—The Purreral State.  Group Total	VIII.—Dis.  Group 142. Gangrene	XI.—Diseases of Early Infan Group Total

INGERSOLL—Concluded.

Number of Column.	8 0 4 5 6 7 8 9 10 11 12 12 14 15 16 17 18 19 50 51 55 51 51 51 51 51 51 51 51 51 51 51
154. XII.—Old Age. Group Total	:
XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.	
Group Total	:
186. Other external violence	
XIV.—ILL. DEFINED DISEASES.	
Group Total	
189. Cause of death not specified or ill-defined	:
STILL-BIRTHS.	
Not included in totals	23 25 27 27 27 27 27 27 27 27 27 27 27 27 27

CAUSES OF DEATH IN THE TOWN OF KENORA, 1918.

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103. Other diseases of the stomach (cancer excepted) 104. Diarrhoa and enteritis (under 2 years)	2, 2, 3,		: :
VI.—Non-Venereal Diseases of the Genito- Urinary System and Annexa.  Group Total	-		: i ' : i -
126. Discases of the prostate	-		:   :
XI.—DISEASES OF EARLY INFANCY.			:
Group Total	7		-
151. Congenital debility, icterus, and selerema	1 2		-   -
154. XII.—OLD AGE.			1
Group Total	0		-
XIII.—Affections Produced by External Causes.			:
Group Total	62	00	×
167. Burns (conflagration excepted)	2		:
excepted) 169. Accidental drowning 170. Traumatism by firearms 172. Traumatism by fall	*****		= :::
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(a) Railroad (b) Street car			- - : : : :
(c) Automobile (d) Other crushing			:::::::::::::::::::::::::::::::::::::::
XIV.—ILL-DEFINED DISEASES	-		: :
Group Total	-		1
189. Cause of death not specified or ill-defined	-		: :
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CAUSES OF DEATH IN THE TOWN OF LINDSAY, 1918.

1	OFFICIAL ENGLISH TRANSLATION. DISEASES AND GAUSES OF DEATH. To	Number of Column.	Grand Total	Group Total	1. Typhoid fever 9. Diphtheria and eroup 10. Inducera 20. Purulent infection and septiremia	Fotal deaths from tuberculosis	28. Tuberculosis of the lungs 31. Abdominal tuberculosis 39. Cancer and other malignant tumors of the bucal cavity and other malignant tumors of the stomach. Here malignant tumors of the peritonach, luver malignant tumors of the peritonach. Intestines, rectum 43. Cancer and other malignant tumors of the breast and other malignant tumors of the breast and other malignant tumors of the breast and other malignant tumors of the breast and other malignant tumors of the breast and other malignant tumors of other skin and other malignant tumors of other organs or of organs not specified 55. Cancer and other malignant tumors of other organs or of organs not specified 56. Librophthalmic goire 57. Exophthalmic goire 58. Ansemin, chlorosis 69. Locomotor ataxia 61. Meningitis 62. Locomotor ataxia 63. Softening of the brain 64. Cerebral hamorrhuge, apoptexy 65. Softening of the brain 66. Paralysis without specified cause 66. Paralysis without specified cause 67. Other diseases of the nervous system
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LINDSAY-Concluded.

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XI.—Diseases of Early Infancy.  Group Total	154. XII.—Old Age.  Group Total	Group Total	167. Burns (conflagration excepted) 169. Accidental drowning 172. Traumatism by fall	175. Traumatism by other crushing.	(a) Railroad (b) Street car (c) Automobile (d) Other crushing (d) Other crushing (sause not specified)	XIV,-ILL-DEFINED DISEASES.	Group Total	189, Cause of death not specified or ill-defined .	STILL-BIRTHS.	Not included in totals

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	OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH,	Number of Column.	Grand Total	I.—General Diseases.	Group Total	8. Whooping cough 9. Diptiliers 10. Influence 10. Purulent infection and septicemia	otal deaths from tuberculosis	28. Tuberculosis of the lungs  40. Cancer and other malignant tumors of the stonach, liver  41. Cancer and other malignant tumors of the peritonaum, intestines, rectum  43. Cancer and other malignant tumors of other organs or of organs not specified  50. Diabetes  51. Exophthalmic goifte	I.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE.  Group Total	62. Locomotor ataxia 64. Cerebral homorrhage, apoplexy 66. Paralysis without specified cause (69. Equipsy 71. Convulsions of infants 74. Other diseases of the nervous system	III.—DISEASES OF THE CIRCULATORY SYSTEM.	79. Organic diseases of the heart
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108. Appendicitis and typhilitis 117. Simple peritonitis (non-puerperal)  VI.—NON-VEREBEAL DISEASES OF THE GENITO- URINARY SYSTEM AND ANNEXA.  Group Total  120. Bright's disease 122. Other diseases of the kidneys and annexa.  VIII.—DISEASES OF THE SKIN AND OF THE Group Total	A.C. Congenital Malformations.  Group Total  150. Congenital malformations (still-births not included)  XI.—Diseases of Early Infancy.  Group Total  151. Congenital debility, icterus, and scherena  XII.—Old Age.  Group Total	XIII.—AFFECTIONS PRODUCED BY EXTERNAL.  Group Total  165. Other acute poisonings 169. Accidental drowning 185. Practures (cause not specified) 186. Other external violence STHIL-BIRTHS.  Not included in totals

CAUSES OF DEATH IN THE TOWN OF NORTH BAX, 1918.

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	OFFICIAL UNGLISH TRANSLATIO DISBASES AND CAUSES OF DEA		:			Typhoid fever Scarlet fever Irithenza Erysipelas	:	Tuberculosis of the lungs Röckets Cancer and other malignant tum buccal cavity Cancer and other malignant tum stomach, liver Cancer and other malignant tum organs or of organs not specified Acute articular rheumatism Diabetes Anemia, chlorosis Altendian (acute or chronic)	
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90. Chronic branchitis 91. Broards-preumonia 92. Paeumonia 98. Other diseases of the respiratory system (tuber eulosis excepted)		
V.—DISBASES OF THE DEGESTIVE System. Group Total		::
104. Diarrhoa and enteritis (under 2 years) 105. Diarrhoa and enteritis (2 years and over) 106. Hernia, intestinal obstructions 115. Other diseases of the liver 116. Diseases of the spleen 117. Simple peritonitis (non-puerperal)		::-:::::::::::::::::::::::::::::::::::
VI,—Non-Venbreal Diseases of the Genito- Urinary System and Annexa.  Group Total		
120. Bright's disease		:::
VIII,—DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE GROUP TOTAL		: 1
141. Acute abscess		
XI.—Diseases of Early Invancy.		-
151, Congenital debility, icterus and scherema	13 13 13 13 13 13 13 13 13 13 13 13 13 1	
154. XII.—Old Agr. Group Total		: 1
XIII.—Affections Produced by External Causes Group Total		:1
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CAUSES OF DEATH IN THE TOWN OF OSHAWA, 1918.

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Number of	III.—DISEASES OF Group Total	79. Organic diseases of the heart 81. Diseases of the arteries, atheroma, etc. 83. Diseases of the veins (varies, has phebitis, etc.)	IV.—DISEASES OF THE RESPIRATORY Group Total	91. Broncho-pneumonia 92. Pneumonia 94. Pulmonary congestion, pulmonary ap 96. Asthma	V.—DISEASES OF THE DIGESTIVE SY	4roup 10tal  104. Diarrhoa and enteritis (under 2 years)  105. Diarrhoa and enteritis (2 years and 109. Hernia, intestinal obstructions	VINon-Venereal Diseases of the Urinary System and Annexa.	Group Total	VII	Group 1	134. Aecidents of pregnancy	ж.—С	Group T	150. Congenital malformations (still-birth cluded)	XIDIS

# CAUSES OF DEATH IN THE TOWN OF OWEN SOUND, 1918.

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81. Diseases of the arteries, atheroma, aneurysm, etc. 85. Hæmorrhage; other diseases of the circulatory system  IV.—Diseases of the Respiratory System.  Group Total	87. Discusses of the larynx 89. Acute bronchitis 90. Uhronic bronchitis 92. Pneumonia V.—Diseases of the Digestive Sv: Group Total	102. Ulcer of the stomach cancer 30. Other desease of the stomach (cancer 101. Directions and experied ander 2 years 108. Anonadicitis and typhilitis 114. Billiary calculi relations of the inversion of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store of the store o	Group Total	Group Total  136. Other accidents of labor  VIII.—DISEASES OF THE SKIN AND O CELLUTAR TISSUE.  Group Total	X.—CONGENITAL MALFORMATIONS Group Total	Group Total
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# CAUSES OF DEATH IN THE TOWN OF PARRY SOUND, 1918.

	OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH, Total.	Number of Column.	Grand Total	I.—General Diseases.  Group Total	1. Typhoid fever 30 10. Influenza 18. Erysipelas	Total deaths from tubereulesis	28. Tuberculosis of the lungs  12. Potts disease  41. Curcer and other malignant tumors of the peritoneum, intestines, rectum  42. Caneer and other malignant tumors of the female genital organs  45. Caneer and other malignant tumors of other of concern and other malignant tumors of other of concerns and other malignant tumors of other of concerns of other of concerns of other of concerns of other of concerns of other of concerns of other of concerns of other of concerns of other of concerns of other of concerns of other of concerns of other of concerns of other of concerns of other of concerns of other of concerns of other other of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of concerns of co	50. Dinpetes 51 of Organs not produce 52. Leuchremia chlorosis 55. Antennia, chlorosis 55. Alcoholism (acute or chronic) 56. Alcoholism (acute or chronic) 2	II.—DISRASES OF THE NERVOUS SYSTEM AND OF THE. ORGANS OF SPECIAL SENSE. Group Total	61. Meningitis 63. Other diseases of the spinal cord 64. Cerebral hæmerrlage, apoplexy 69. Epilepsy	Group Total
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Number of Column.  IV. OPSESSES OF THE RESPIRATORY SYSTEM.  Group Total		104. Diarrhea and enteritis (under 2 years) 105. Diarrhea and enteritis (2 years and over) 108. Appendicitis and typillitis 117. Simple peritonitis (non-puerperal) VI.—Nox-Venemeal. Diseases of the Gentro-Urianes System and Annexa. Group Total	119. Acuto nephritis	Group Total  151. Congenital debility, icterus and sclerema.  XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES.  Group Total	167. Burns (conflugration excepted) 173. Traumatism in mines and quarries 175. Traumatism by other crushing. (a) Railroad (b) Street car (c) Automobile (d) Other crushing 178. Excessive cold 185. Firstures (cause not specified) 186. Other external violence NIV.—ILL-DEFINED DISEASES.  Group Total	189. Cause of death not specified or ill-defined STILL-BIRTHS.  Not included in totals

CAUSES OF DEATH IN THE TOWN OF PEMBROKE, 1918.

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CAUSES OF DEATH IN THE TOWN OF RENFREW, 1918.

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CAUSES OF DEATH IN THE TOWN OF SUDBURY, 1918.

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CAUSES OF DEATH IN THE TOWN OF TRENTON, 1918.

CADS	OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH. T	Number of Column.	Grand Total	Group Total	6. Measles 7. Searlet fever 8. Whooling Cough	Total deaths from tuberculosis	28. Tuberculosis of the lungs 40. Cancer and other malignant tumors of the stomach liver malignant tumors of the peritonaeum, intestines, receum 43. Cancer and other malignant tumors of the becast and other malignant tumors of the breast 50. Diabetes 54. Anæmia, chlorosis 55. Other general diseases	AND OF T	64. Cerebral homorrhage, apoplexy III.—Disrass of the Circulatory System	
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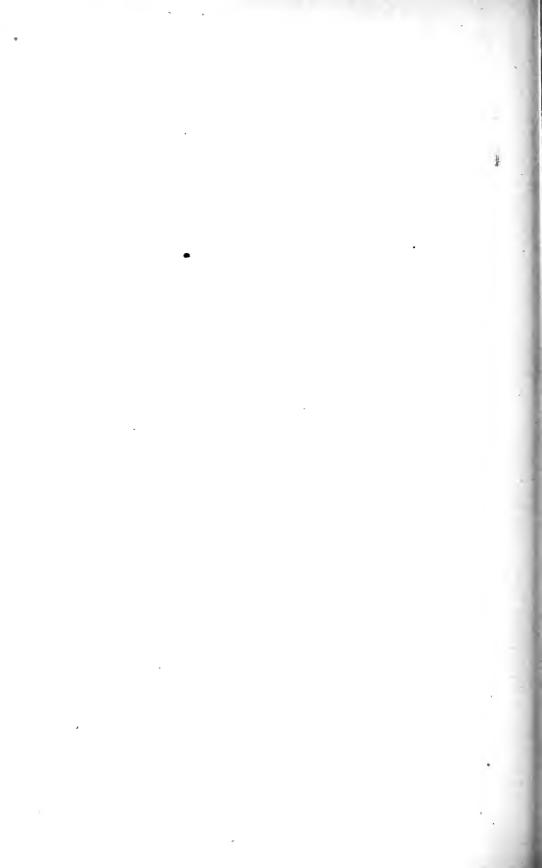
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	IV	89. Acute bronchitis 91. Broncho-pneumonia 92. Pneumonia	VI.—Nog-Venbereal Diseases of the Urinary System and Annex Group Total			134. Accidents of pregnancy		150. Congenital malformations (still-births cluded)		Group Total		Not included in totals
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# Thirty-Seventh Annual Report

OF THE

# Provincial Board of Health

OF

Ontario, Canada

FOR THE YEAR

1918

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO



### TORONTO:

Printed and Published by A. T. WILGRESS, Printer to the King's Most Excellent Majesty
1919

Printed by THE RYERSON PRESS

To His Honour SIR JOHN STRATHEARN HENDRIE, K.C.M.G., C.R.V.O., etc., etc., etc.,

Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

I herewith beg to present for your consideration the Thirty-Seventh Annual Report of the Provincial Board of Health for the year 1918.

Respectfully submitted,

WM. DAVID McPHERSON,

Provincial Secretary.

Toronto, April 2nd, 1919.

To the Honourable W. D. McPherson, K.C., M.P.P., Provincial Secretary of Ontario.

S_{IR},—I have the honour to submit for your approval the Thirty-Seventh Report of the Provincial Board of Health, made in conformity with and under the provisions of the Public Health Act, for the year 1918.

I have the honour to be, Sir,

Your obedient servant,

JOHN W. S. McCullough,

Chief Officer of Health.

Toronto, April 2nd, 1919.

# PROVINCIAL BOARD OF HEALTH OF ONTARIO, 1918

### The Board:

ADAM H. WRIGHT, M.D., M.R.C.S., Eng., Chairman	Toronto.
HENRY R. CASGRAIN, M.D	Windsor.
Thomas E. Kaiser, M.D	Oshawa.
WILLIAM H. HOWLEY, M.D	Sudbury.
ARTHUR S. McElroy, M.D	Ottawa.
James Roberts, M.D., M.O.H.	Hamilton.

### Executive Officers:

JOHN W. S. McCullough, M.D., D.P.H. (Tor.), Secretary and Chief Officer of Health. R. W. Bell, M.D., Provincial Medical Inspector. ALEX. R. WHITE, Sanitary Inspector, North Bay.

# Laboratory Service:

JOHN A. AMYOT, M.B., C.M.G., Provincial Bacteriologist, Professor of Hygiene, University of Toronto.

H. M. LANCASTER, B.A.Sc., Provincial Chemist, Professor of Chemistry, Dental College, University of Toronto.

R. W. NAYLOR, M.B., Assistant Bacteriologist

A. R. BONHAM, B.A.Sc., Assistant Chemist. W. T. CONNELL, M.D., Branch Laboratory, Kingston.

H. W. HILL, M.D., D.P.H., (Tor.), Branch Laboratory, London.

## Engineering Service:

- F. A. DALLYN, C.E. (Tor.), A.M. Can. Soc. C.E., Provincial Sanitary Engineer.
- A. V. DELAPORTE, B.A.Sc., Chemist in Charge of Experimental Station.

### Child Welfare Bureau:

MISS MARY POWER, B.A. Miss B. Knox. Nurse.

# District Officers of Health:

### District.

No. 1.—Vacant by the death of Major D. B. Bentley, M.D., Sarnia,

No. 2.—Thomas J. McNally, M.D., London.

No. 3.—Daniel A. McClenahan, M.D., Hamilton.

No. 4.—George Clinton, M.D., Belleville.

No. 5.—Paul J. Moloney, M.D., Cornwall.

No. 6.-W. EGERTON GEORGE, M.D., North Bay.

No. 7.—Robert E. Wodehouse, M.D., Fort William.

Telephone No. Main 5800.



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# ANNUAL REPORT

OF THE

# Provincial Board of Health for the Province of Ontario

For the Year Ending 31st December, 1918

# RESUME OF THE TRANSACTIONS OF THE BOARD BY THE CHIEF OFFICER OF HEALTH

This is the 37th Annual Report of the Provincial Board of Health for Ontario for the year ending 31st December, 1918.

During the year five meetings were held by the Board. These meetings were attended by all the members with the exception of Dr. H. R. Casgrain who remains on duty overseas. At the end of the previous year the place of Dr. A. A. Weagant, of Ottawa, who resigned upon taking up his residence in Winnipeg. Manitoba. was filled by the appointment of Dr. Arthur Stevenson McElroy. of Ottawa.

# Legislation.

At the 1918 Session of the Legislature the following amendments to the Public Health Act were passed, viz:—

# AMENDMENTS TO THE PUBLIC HEALTH ACT

(BILL No. 139, 1918)

His Majesty, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

- 1. This Act may be cited as The Public Health Amendment Act, short title. 1918.
- 2. Every district officer of health shall be paid such salary as may Salaries, be fixed by the Lieutenant-Governor in Council, and his actual and district necessary travelling and other expenses incurred in the discharge of officers his duties, and such salary and expenses shall be payable out of such sums as may be appropriated by the Legislature for that purpose.
- **3.** Subsection 2 of section 25 of *The Public Health Act* is amended Rev. Stat. by striking out the words "five per centum" in the seventh line thereof, 25 (2), and by substituting therefor the words "at a rate not exceeding six per amended. centum."
- **4.** Section 29 of *The Public Health Act* is amended by striking out nev. Stat., the words "cleansing and" and the words "cleanse and" in the sixth amended. line, and by adding thereto the following subsection:

Disinfecting, etc., of premises. (2) The disinfecting, renovating and cleansing of houses and premises shall be carried on in accordance with the regulations.

Rev. Stat. c. 218, s. 32a, amended. 7 Geo. V, c. 51. 5. (1) Section 32a of The Public Health Act, as enacted by the Act passed in the 7th year of His Majesty's reign, chapter 51, is amended by adding after the word "public," at the end of the third line, the words "and separate."

Commencement of section.

(2) The amendment made by subsection 1 shall have effect and be deemed to have been in force as from the 12th day of April, 1917.

Rev. Stat. c. 218, s. 41, amended. **6.** Section 41 of *The Public Health Act* is amended by adding thereto the following as subsection 2:

Temporary absence of M.O.H. (2) When the Medical Officer of Health is absent from the province for a protracted period the council may, with the written approval of the Provincial Board, appoint a legally qualified medical practitioner to be Acting Medical Officer of Health during such absence, and such Acting Medical Officer of Health shall have, during the absence of the Medical Officer of Health. all the powers, and perform all the duties of the Medical Officer of Health.

Rev. Stat. c. 218, amended. 7. The Public Health Act is amended by adding thereto the following section:

Disputes as to remuneration of M.O.H. Application to county judge. 52a.—(1) Where a medical officer of health claims that the salary paid to him by a municipal corporation or the remuneration provided for under section 52 is not fair and reasonable, and gives notice of such claim in writing, signed by him, to the clerk of the municipal corporation, and the council of the corporation neglects to comply with such demand, or directs the serving upon the medical officer of health of a notice disputing such a claim, the medical officer of health, after the expiration of ten days from the receipt of such claim by the clerk of such corporation, may apply in a summary manner to the judge of the county or district court of the county or district within which the municipality lies, for an order allowing his claim and fixing the amount payable to him as salary under section 39 or as remuneration under section 52, and upon such application the judge shall hear the parties and their witnesses and shall make such order as he may deem just, and in and by such order shall settle and determine the salary properly payable to such medical officer of health, and a fair and reasonable remuneration under section 52.

Time for making application.

(2) If such application is not made by the medical officer of health within thirty days after receiving notice from the corporation disputing his claim, he shall be deemed to have abandoned the same.

- (3) The judge, upon the application, shall take into consideration Powers of all the circumstances of the case, and amongst other matters the physical extent, population and assessment of the municipality.
- (4) The Judges' Orders Enforcement Act shall apply to every of Rev. Stat., c. 79.
  Rev. Stat., c. 79.
  Rev. Stat., c. 79.
  Rev. Stat., c. 79.
  amended.
- **8.** Section 54 of *The Public Health Act* is amended by adding after communicthe word "from" at the end of the second line the words "or exposed able disto," and by adding thereto the following subsections:
  - (2) Every person in a house when a communicable disease exists who to be therein, and every person who during the period of quaran-deemed time enters such house, shall be deemed to be exposed to to disease.
  - (3) It shall be the duty of every physician, medical officer of Duty as to health, superintendent of a hospital, nurse, midwife, and of newborn everyone in charge of a maternity hospital, every house-diseases. holder, and everyone in charge of a child, to see that such requirements as may be prescribed by this Act or by the regulations are duly complied with in respect of ophthalmia neonatorum, trachoma, inflammation of the eyes of the newborn, or other communicable diseases of the eyes.
- **9.** Section 92 of *The Public Health Act* is amended by striking out they stat., the word "and" at the beginning of the second line thereof and by amended. adding after the word "corporation" in the second line the words "rom and any person" and by striking out the words "or officer" in the owners of waterworks, tenth line and substituting therefor the words "officer or other person." etc.
- **10.** Section 94 of *The Public Health Act* as amended by section 47 Rev. Stat., of *The Statute Law Amendment Act*, 1914, is furthur amended by amended. adding thereto the following subsections:
  - (9) The Provincial Board may withdraw, amend or vary any Orders of approval given by it under this section or any order or Provincial Board as to certificate made by it, and may approve of a different or sewage or other system of sewerage, sewage disposal or sewage disposal disposal plant, or a different or other location of the same.
  - (10) Before acting under the provisions of subsection 9 the Board Hearing shall notify the clerk of the town-hip municipality in which to municipality the system of sewerage is located or into or through which affected. it is continued or in which it is proposed to locate the system of sewerage, or into or through which it is proposed to continue the same, or in which it is proposed to locate a sewage disposal plant, and the Board shall hear and consider any objections which the council of the township or any resident therein may make to the erection of the said work or any part thereof.

Application to Railway and Municipal Board. (11) Where the Provincial Board has made an order or report under the provisions of subsections 7 to 10, the corporation of the urban municipality before proceeding with the work, shall apply to the Ontario Railway and Municipal Board, for an order prescribing the manner in which such work may be carried on, and notice of such application shall be given to the township municipality and to any resident therein whose property is, or may be, affected by the proposed works.

Powers of Railway and Municipal Board.

- (12) Upon such application the Ontario Railway and Municipal Board may make an order;
  - (a) Stopping up and closing any highway, road or road allowance, temporarily or permanently, for the purpose of allowing the proposed work to be carried on; and vesting the same in the urban corporation, and providing for the opening of other roads, highways and road allowances for the use and convenience of the residents of the township municipality in lieu of the roads, highways and road allowances so stopped up and closed, and the provisions of section 86 of The Registry Act shall not apply:
  - (b) imposing such terms and conditions upon the urban municipality with respect to the construction and operation of the proposed work as the Board may deem just;
  - (c) ordering that any buildings, restrictions, covenants running with the land or any limitations placed upon the estate or interest of any person or corporation, in any lands in or through which it is proposed that a sewage disposal system may be constructed or continued, or where the site of the sewage disposal plant is proposed to be located, shall be terminated and shall be no longer operative or binding upon or against any person or persons, and direct that any such order be registered under the provisions of The Registry Act;
  - (d) fixing the compensation to be paid for lands taken or injured in the construction of such works.

Registration of order. (13) The registration of any order under clause c of subsection 12, shall be a bar to any action or proceeding taken by any person or corporation claiming any right or benefits under or by reason of any such restrictions, covenants, interests, estate or title in the lands described in the order.

Jurisdiction of Board as to claims for damages. (14) The Ontario Railway and Municipal Board shall have jurisdiction to enquire into, and hear and determine any application by or on behalf of any person or corporation interested complaining that any urban municipality constructing, maintaining or operating any sewage disposal system, or plant, or having the control thereof:

- (a) has failed to do any act, matter or thing required to be done by an Act or regulation, order or direction, or by any agreement entered into by the corporation; or
- (b) has done or is doing any act or is failing to do any act and that such act or failure is causing depreciation, loss, injury or damage to any property of any owner, and the said Board may make any order, award or finding in respect of any claim of damage or injury, as it may deem just.
- (15) The jurisdiction of The Ontario Railway and Municipal All claims Board under this section shall be conclusive and all claims mined by for injury, or damages or other matter arising under the provisions of this section relating to the construction by an urban municipality of a sewage disposal plant in a township municipality, shall be heard and determined by the Board and The Ontario Railway and Municipal Board Act, so far as it is practicable, shall apply to every application and order made to or by the Ontario Railway and Municipal Board under this section.
- 11. Subsection 2 of section 110 of the said Act is amended by Rev. Stat., striking out the figures "\$20" in the eighth line thereof, and sub-(2) amended stituting therefor the figures "\$500."

## REGULATIONS

The following Regulations were passed by the Board approved by Order-in-Council and published in the Ontario Gazette, viz:—

PROVINCIAL BOARD OF HEALTH, ONTARIO.

REGULATIONS FOR THE CONTROL OF BABIES' SORE EYES.

# Regulation 1.

Every physician in attendance upon a lying-in woman shall, immediately following the birth, instil into the eyes of the newly-born child a sufficient quantity of one per cent. solution of nitrate of silver (supplied free by the Provincial Board of Health) or of a 40 per cent. solution of Argyrol.

# Regulation 2.

If within two weeks after the birth of a child, one or both eyes shall become reddened, inflamed, swollen or show any discharge, every physician, midwife, nurse or person in charge of a maternity or other hospital where such child is, and every person in charge of a child, shall forthwith report in writing to the Medical Officer of Health, the name, age and address of such child together with the circumstances of the case.

# Regulation 3.

The Medical Officer of Health shall, upon receipt of such report and if the child is not under the care of a legally qualified physician. direct the parents or whoever has charge of the child to immediately place it in charge of a legally qualified physician or if the parents or persons in charge are unable to pay the cost of such attendance, the Medical Officer of Health shall provide the necessary treatment at the cost and charge of the municipality.

# $Regulation\ 4.$

The Medical Officer of Health shall send a weekly report of all such cases to the Secretary of the Local Board for transmission to the Provincial Board as required by Section 24 of the Public Health Act.

# VENEREAL DISEASES

An important step in the control of Venereal Diseases was made by the enactment of the Venereal Diseases Prevention Act, and the approval of the following regulations made thereunder, viz:—

,
(a) FORMS.
The following are forms prescribed under the Venereal Diseases Prevention Act:
(a)—Form I V.D.
NOTICE TO PERSONS SUSPECTED TO BE INFECTED OR EXPOSED TO INFECTION WITH VENEREAL DISEASE.
To
You are hereby notified under authority of the Venereal Diseases Prevention Act to present yourself before a legally qualified medical practitioner for examination within twenty-four hours after the receipt of this notice. You are further notified to procure and produce to me, the undersigned, within twenty-four hours following examination, a report or certificate of the aforesaid medical practitioner as to whether you are or are not suffering from venereal disease, and if so in what form.
(Signed)
${ m M.O.H.}$
Penalty for Non-compliance, a fine of not less than \$25.00 nor more than \$100.00, or in default, imprisonment for three months.
(a)—Form II V.D.
NOTICE TO MEDICAL PRACTITIONER TO EXAMINE AND REPORT UPON A PERSON SUSPECTED TO BE INFECTED WITH VENEREAL DISEASE.
To
You are hereby authorized and required under the Venereal Diseases Prevention Act to examine
and report to me as to whether or not.
is suffering from Venereal Disease, and if so in what form.
$(\mathbf{S}igned)$
М.О.Н.
Date

(a)—Form III V.D.
REPORT OR CERTIFICATE OF A LEGALLY QUALIFIED MEDICAL PRACTITIONER.
I, the undersigned, a legally qualified medical practitioner, hereby certify that on the
and foundsuffering from Venereal Disease in the
form of
(Signed)
Date
(a)—FORM IV V.D.
NOTICE RESPECTING THE COURSE OF CONDUCT OF A PERSON INFECTED WITH VENEREAL DISEASE.
Under the provisions of the Venereal Diseases Prevention Act, you are hereby notified and required to present yourself to
a legally qualified medical practitioner, for treatment. While under treatment and until non-infective you are required to obey Regulation (c) of the Provincial Board of Health.
(Signed)
м.о.н.
Date
Penalty for NON-COMPLIANCE, fine of \$25.00 to \$100.00, or 3 months' imprisonment.
(a)—FORM V V.D.
AUTHORITY TO ENTER INTO A HOUSE OR UPON PREMISES.
Under the authority of the Venereal Diseases Prevention Act, I, the undersigned, Medical Officer of Health for
nereby authorize you to enter the house or premises at
n the daytime for the purpose of examining

### (a)—FORM VI V.D.

### REPORT OF VENEREAL DISEASE.

Name	of	D	isea	ase	:					 						 				 							
Serial	N	un	ibe:	r :							 			 			S	e.			 						
Marri	ed	or	Sin	ngl	e :								 								 					. ,	
Munic	eipa	ılit	y :			٠,	 	 													 						
Date:	•		•				 						 								 					. ,	

(Signed)

Medical Practitioner, Supt..
or Head of Institution.

## (b) METHODS OF TREATMENT.

The following shall be deemed to be lawful and proper methods and remedies for the treatment, alleviation and cure of venereal disease, viz.:

(1) Gonorrhea:

- (a) The treatment of Gonorrhea should be essentially local in character.
- (b) The treatment of the complications of Gonorrhea should be both local and systemic.
- (c) The following remedies are approved, viz.: Silver, lodine, Mercury, Potassium, Zinc Lead, and other mild astringents in their various forms.
  - (d) Essential oils, alkalies, balsams and hexamethylenetetramine.*
  - (e) Suggested methods of treatment are set forth in Appendix 1.

# (2) Syphilis:

Early stage.

Diagnosis.—Any suspicious sore upon the genitals or elsewhere should be diagnosed as early as possible and assumed to be syphilitic until this is disproved. It is said on expert authority that fifty per cent. of cases of primary syphilis may be aborted if undertaken before the Wassermann is positive.

The successful treatment of syphilis depends upon the early and vigorous treatment of the disease.

- 1. The following remedies are approved, viz.:
- (a) Mercury in its various forms administered orally, intramuseularly and by inunction.
  - (b) The arseno-benzol derivatives administered intravenously.
  - (c) The Iodides—administered orally.
  - (d) Suggested methods of treatment are set forth in Appendix I.

### (3) Chancroid:

- (1) Carbolie acid and alcohol.
- (2) Silver salts.
- (3) Antiseptic dressings.

^{*}Caution.—Some persons cannot tolerate this drug, even small doses causing painful micturition and hæmaturia.

² B.H.

None of these remedies, nor any other remedy, form of treatment, instrument or medicine, patent, proprietary, or otherwise, shall be sold, offered for sale, recommended, suggested, advertised, or promoted by anyone as a treatment for venereal, special, private or genito-urinary disease, unless such remedy, medicine, treatment, or instrument is prescribed by a legally qualified practitioner.

# (c) COURSE OF CONDUCT OF A PERSON INFECTED WITH VENEREAL DISEASE.

(1) Every person infected with venereal disease shall forthwith place himself under the care and treatment of a legally qualified medical practitioner. If unable to secure medical attendance he must apply to the Medical Officer of Health of the municipality who will direct his course as to treatment. During the course of the disease he shall attend and carry on his treatment as required by the medical practitioner under whose eare he is.

Penalty for non-compliance with this regulation, a fine of not less than \$25.00

nor more than \$100.00.

(2) He shall abstain from marriage, sexual intercourse, or any conduct likely to infect another. He shall continue treatment until pronounced non-infective, and in default of which he shall be reported to the Medical Officer of Health.

Penalty for non-compliance with this regulation, a fine of not less than \$100.00 nor more than \$500.00, or 12 months' imprisonment.

# (d) DISTRIBUTION OF INFORMATION.

The Board shall distribute to every medical practitioner and every hospital requiring the same such information respecting venereal disease as may be determined upon by the Board, and every medical practitioner and every hospital receiving such information shall distribute the same to such persons suffering from venereal disease as may come under the care of the medical practitioner or hospital.

# (e) REGULATING TREATMENT.

Persons in hospitals, places of detention and other institutions who are infected with venereal disease shall obey such rules as may be laid down by the physician or superintendent in charge.

# (f) PREVENTING INFECTION.

Every medical practitioner, every hospital superintendent, the head of every bospital for the insane, for epileptics, for the feeble-minded, the head of every jail, reformatory, or other place of detention, and of every institution, private, public or otherwise, and every person infected with venereal disease shall take and maintain every precaution against the spread of these diseases as is now or may be from time to time prescribed by the Provincial Beard.

# (g) REPORTING.

Every medical practitioner, every hospital superintendent, the head of every hospital for the insane, for epileptics, for the feeble-minded, the head of every jail, reformatory, or other place of detention, and of every institution, private,

public or otherwise, shall report daily to the Medical Officer of Health by a serial number, in accordance with Form VI, every case of venereal disease coming under his treatment or care for the first time. If the patient has been under treatment by another physician or institution, notice thereof shall be sent forthwith to the Medical Officer of Health, but without giving the name of the patient.

The aggregate of all cases of each form of venereal disease shall be reported weekly by the Medical Officer of Health directly to the Board.

### (h) NOTICES.

When required by the Board every local Board shall procure and provide for the putting up, in public urinals, conveniences, and similar places, of notices and placards dealing with venereal disease, its cause, manifestation, treatment and cure, but no notice or placard of this character may be so used unless such is approved by the Board.

# (i) PUBLICATION OF INFORMATION AS TO TREATMENT.

When required by the Board every local Board shall provide for public advertising and placarding of such information relative to the treatment and cure of venereal disease, and the places where proper treatment may be procured, as the Board may deem advisable, and which may be approved by the Board.

# (j) PENALTIES.

Every person violating any Regulation of the Board shall incur a penalty of not less than \$25, nor more than \$100, and in default of immediate payment shall be imprisoned for a period not exceeding three months.

# (k) FEES.

Every medical practitioner making an examination and report as required under Sections 3 and 4 of this Act or as prescribed by the Regulations shall bepaid by the municipality wherein the patient lives, the sum of five dollars, except in the case of public institutions other than gaols and prisons, receiving Government, aid or which are maintained by the Government.

# (1) PROCEDURE ON APPEALS.

In case of an appeal from any action or decision of the Medical Officer of Health under this Act, an application for appeal shall be made in writing to the Board, who shall thereupon set a date for the hearing within one week from the receipt of the application. Notice shall be given by the Board in writing by registered post, of the date and place of hearing to all parties concerned. The hearing shall be *in camera*.

(m) The administration of the Regulations shall not interfere with the course of justice in case of persons under arrest or in custody previous to trial for any offence committed against the provisions of the Venereal Diseases Prevention Act or anything therein authorized or under any other Statute or the Criminal Code.

## (n) METHODS OF EXAMINATION.

The examination of any person with a view to ascertaining whether or not such person is infected with venereal disease shall be as follows:

- (a) In the case of suspected gonorrhea, the examination shall include a physical examination of the person with a miscroscopical examination of the urethral, and prostatic discharges in the male, and of the urethral, bartholinic, vaginal and uterine discharges in the female.
- (b) In the case of suspected syphilis, the examination shall include a physical examination of the person and an examination of the blood, by means of what is known as the Bordet-Wassermann test, and a complete spinal fluid examination if such is deemed advisable by the Medical Officer of Health.
- (c) In the case of chancre or chancroid, the examination shall correspond to that detailed under (b), with the addition of the dark-field microscopical examination, india ink preparation, or one of the recognized stains for spirochæte pallida. In all cases the report of the examination shall include full details of the methods of examination carried out.

# (o) HOSPITALS.

Every hospital in Ontario receiving public aid shall make provision for the reception and treatment of persons suffering from venereal disease.

### APPENDIX I.

### TREATMENT OF VENEREAL DISEASES.

The following line of treatment is sugge-ted for venereal diseases. Treatment should begin immediately following diagnosis.

### Prophylactic Treatment.

Should a patient be seen within twenty-four hours after a suspicious intercourse, prophylaxis may be used with great assurance of success. If within eight hours, success is almost certain. The earlier the better.

The patient should, as soon after intercourse as possible, wash the genitals with soap and water, urinate and apply calomel ointment (30%) freely over the glands, foreskin and body of the penis. In the female, the same treatment should be applied to the vulva. In the male, argyrol, 30 to 40 drops of a 20% solution, freshly prepared, should be injected into the urethra and retained for ten minutes, or a bougie of argyrol (10%) retained for ten minutes. In the female, a vaginal irrigation of two quarts of hot soap and water solution should be used, and this followed by:—

- (1) A vaginal suppository of 10% argyrol applied high in the vagina and retained; or
- (2) The application of 5% silver nitrate solution to the vaginal walls.
- (3) The urethra should be treated with an argyrol bougie (10%) retained for ten minutes.

# TREATMENT OF GONORRHOEA IN THE MALE

By injection. How should an injection be used?

The patient should first urinate in order to clear the urethra of discharge and should then inject 3iii to 3iv of the solution.

The following solutions are recommended:-

(1) Argyrol, 5% to 10% retained for ten minutes.

(2) Silver iodide, 1/5% to 1% retained for ten minutes.

The injections should, in the early stage, be made four times a day and continued until the discharge changes from mucopurulent to serous. Then a mildly astringent injection should be used in the same manner, excepting that it should not be retained. The following remedies are recommended:—

(a) Zine Sulphate, 1 to 2 gr. to the oz.

(b) Potas, Permang, 1 in 5,000, or

(c) Zinc Sulphate and Plumbi Acet. aa. 1 gr. to the oz.

The physician should instruct the patient to thoroughly wash his hands with soap and water after handling the genitals, because of the danger of careless habits, leading to infection of the eyes, etc.

On visits subsequent to the first, the patient should be instructed to come with a full bladder. The urine should be passed in glasses as follows, viz.:

Two ounces in the first, the middle portion in the second, and the terminal portion in the third,

If the urine in the first glass is turbid, and that in the second and third elear, it indicates anterior urethritis.

If all three are turbid, it indicates anterior and posterior urethritis and bladder involvement.

If the first glass is turbid and the second clear, and the third turbid or contains flakes or shreds, the patient has both anterior and posterior urethritis. This is, assuming that the urine is acid.

If the urine is alkaline, the turbidity may be due to a deposit of phosphates which will clear up on the addition of a little acetic acid.

The patient should be warned of the harmful effect of "stripping" the penis to reveal the morning drop. He should also be warned of sexual stimulation in any form.

Under the most satisfactory conditions, the physician would be well advised not to hope for a cure short of a period of six to ten weeks.

# By irrigation.

The irrigation treatment of gonorrhea is recommended by certain authorities. If such treatment is undertaken it should be done only by the physician, who should follow closely the details of treatment laid down in standard text-books and in the current literature.

# By systemic treatment.

The use of internal remedies with the idea of the cure of gonorrhea has a not proven satisfactory, but for the purpose of combating pain and other symptoms arising in the course of the disease these remedies have their value.

Attention should be paid to proper diet, copious drinking of water, total abstinence from stimulating drinks or foods, over-exercise and excessive use of tobacco. Rest and fresh air are important adjuncts in the treatment.

The treatment of prolonged cases with complications should be carried out in accordance with the rules laid down in standard texts and the literature.

In any cases of doubtful diagnosis a Wassermann test should be made in order to rule out the possibility of concealed syphilis.

### CHANCROID.

The utmost care should be taken in the diagnosis of all sores so as to distinguish the herpetic, the chancroid and the chancre. Clinically these sores frequently resemble one another. Differentiation is often very difficult. Therefore the use of the laboratory is indispensable in diagnosis. In all cases syphilis should be excluded.

Chancroid should be treated as follows:-

- (1) By the careful application to the sore of pure carbolic acid followed by alcohol, or
- (2) Silver nitrate, grs. 40 to the oz. most carefully applied.

These to be followed by a simple moist dressing such as boracic acid. Herpetic sores should readily heal under a simple boracic dressing.

### Syphilis.

In the treatment of *Chancre* the application of antiseptics before a positive diagnosis will render the discovery of the spirochæte difficult, if not impossible.

To secure the best material for making the smear, the sore should be grasped between the gloved finger and thumb and wiped until clear serum exudes. This should be placed on a slide for the microscope. The diagnosis being made, systemic treatment should be vigorously carried out.

### MERCURY AND IODIDE.

Mixed and tonic treatment should also be vigorously carried out at the same time and the patient kept under observation for a period of two years, the Wassermann test being taken at intervals. Good food and life in the fresh air are essential to successful treatment.

The treatment of the later stages of syphilis and of the many complications arising in the course of the disease should be carried out as laid down in standard text-books.

### Intravenous Treatment.

One should not stop short of five successive weekly intravenous injections of one of the arseno-benzol compounds, beginning with a half dose and increasing to the maximum. The effect of each dose should be carefully watched. A week after the final treatment, a Wassermann should be taken. If positive the treatment should be continued, using maximum doses.

In all forms of venereal disease the use of tonics, good food and life in the fresh air are essential to successful treatment.

# Free Distribution of Biological Products.

The net cost of the biological products purchased, and supplied free to the public, was \$35,024.60.

In addition, the Board's Laboratory prepared and supplied T.A.B. vaccine,

influenza vaccine and treatment for babies' sore eyes, in large quantities. T.A.B. vaccine and influenza vaccine were freely supplied to the troops.

The District Officers of Health.

The vacancy in District No. 1, on account of the lack of qualified men, most of whom are engaged in A.M.C. work overseas, has not yet been filled. It is hoped that, now the war is over, the experience of Ontario physicians in army sanitation will make the selection of an officer for this important district an easy one. Lt.-Col. R. E. Wodehouse, D.O.H. for No. 7 District, still continues as O.C. of the Convalescent Home at Bearwood, Berks. It is hoped he will be able to return at an early date to resume his duties. These two vacancies have



THE LATE GEORGE E. YOUNG Sanitary Inspector.

entailed an enormous amount of additional work upon Drs. T. J. McNally and W. Egerton George, which they have carried on with commendable spirit.

The Board desires to express its high appreciation of the services of all the District Officers of Health. It is with sincere regret that the Board has to announce the death at Chatham of the Sanitary Inspector, Mr. Geo. E. Young. Mr. Young had faithfully served the Board over a long period of years. He was the sincere friend of the labouring man whether in lumber camp, mine or on railroad construction, and by his diligence had secured many improvements in camp conditions in the newer and unorganized regions of Ontario. He had been in failing health for a number of years but although urged to rest persisted in carrying on when his own interest demanded a holiday. He died at Chatham, his former home.

The position occupied by Mr. Young has been filled by the appointment of Mr. Alex. R. White, whose experience as Sanitary Inspector of North Bay for years gives assurance that he will be able to give good service.

Water Supplies and Sewerage.

In October, the Provincial Sanitary Engineer, Mr. F. A. Dallyn, C.E., joined the C.E.F. despatched to Siberia as Hydrological officer. His place has been temporarily filled in the person of Mr. W. R. Worthington, B.A.Se., kindly loaned by the City of Toronto. The details of the work carried out during the year are given elsewhere in this volume.

# The Experimental Plant.

The chemist in charge of the plant, Mr. A. V. DeLaporte, B.A.Sc., went overseas early in the year, joining the Royal Engineers, in which unit he secured a commission. His absence, with that of the Engineer, necessitated the closing of the plant about the month of October. On their return the experimental work, details of which are given elsewhere, will be resumed.

DEATHS IN ONTARIO FROM TUBERCULOSIS BY AGES, 1908-1918.

	Total.	100,000	U	nder	5 ;	year	s.										over.	stated.	death: n all ses.
Year.	Totali	tio per	0-1	1	2	3	4	6-9	10-14	15-19	20-59	30-39	40-49	50-59	69-09	1 70-79	80 &	Not st	Total d from eause
	23,904	Rat	571	370	224	139	132	468	586	1,871	6,695	4,895	3,098	2,217	1,497	688	138	315	327,014
1908				46	20	13	13	43	67	216		479	315		136			30	
1909 1910	-,			27 35	25 19	9 15	15 6	54 36	54 55	179 184		487 463	290 293		163 160		15 18	$\frac{40}{24}$	31,332
1911 1912	2,353	93	63	30 30	15 19	10	18 15	48 46	$\frac{64}{42}$	$\frac{181}{154}$	618 631	476 500			156 134		_	34 42	31,878 $32,150$
1913	2,294	85	<b>5</b> 3	36	20	10	18	32	41	188	632	479	313	204	156	56	10	47	34,317
1914 1915				41 39	$\frac{20}{25}$	16 19	11 16	56 55		181 168	688 676				116 176			34 20	32,440 33,294
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This Table was Compiled by the Registrar General's Department.

*DEATHS IN ONTARIO FROM CERTAIN COMMUNICABLE DISEASES, 1908-1918

Year	Population	Small- pox	Scarlet Fever	Diphtheria	Measles	Whooping Cough	Typhoid	Tuber- culosis Lungs
1918	2,711,620	2	84	335	95	305	208	2,129
1917	2,769,850	1	59	396	58	228	232	2,014
1916	2,776,886	5	49	461	411	341	335	2,148
1915	2,767,350	2	42	341	145	193	298	2,088
1914	2.749.840	1	111	443	61	196	358	1,982
1913	2,677,600	4	137	339	166	272	446	1,955
1912	2,582,500	2	152	371	111	419	483	1,921
1911	2,523,274	3	290	427	169	169	637	2,035
1910	2, 239, 621	2	237	435	304	186	706	2,013
1909	2.233.264	3	200	430	167	262	669	2,017
1908	2.226.860	2	163	450	38	246	662	2,129

^{*}Compiled from the Registrar General's returns.

†Two weeks.

CASES AND DEATHS FROM COMMUNICABLE DISEASES FOR THE YEAR 1918

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Smallpox.	Deaths		- rc
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Months.			

* The monthly returns melude only deaths from pulmonary talerenlosis or consumption, and not other tulerenlar diseases.

D-Double dose.

S—Single dose.

STATEMENT OF BIOLOGICAL PRODUCTS

DISTRIBUTED FREE OF CHARGE BY THE PROVINCIAL BOARD OF HEALTH, ONTARIO

October 1st, 1917, to September 31st, 1918

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Typhoid and Paratyphoid vaccine	Military D.	6,450	. 21,750	21,050	47,100	14,070	11,000	23,000	35,475	31,790	18,750	20,250	:	···	250,685		
typhoid	Military S.	10,775	25,000	23,250	33,750	11,140	10,500	38,750	49,300	64,915	27,500	30,500	49,500ce	11,000ec	329,880	60,500ec	
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турнога а	Civie S.	525	756	156	262	844	552	405	427	2,611	384	6,652	38, 166ec	} 546ce	13,571	38,712ee	
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		October	November	December	January	February	March	April	May	June	July	August	September	October			

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REV	Pasteur Pre, Tr. for rabies	90.09	90.00		30.00	30.00		30.00	15.00	60.00	15.00	75.00		30.00	135.00
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	sirehtheria foxin artitoxin				12.50	26.25		•		2.50					41.25
	Diphtheria antitoxin syninges	217.60	268.80	239.00	304.00	217.40	197.80	73.00	77.60	87.20	169.20	103.60	192.80	183.00	2331.00
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	Smallрох Уассіпе	102.40	384.80	197.80	249.20	327.80	332.00	185,60	157.40	209.80	100.60	122.40	131.40	70.20	\$2571.40
		October	November	December	January	February	March	April	May	June	July	August	September	October	

...... \$35,816 20 Net Cost.....

# THE DISTRICT OFFICERS OF HEALTH PROVINCE OF ONTARIO

### DISTRICT No. 1.

Comprising the Counties of Lambton, Middlesex, Oxford, Elgin, Kent-and Essex. Taken over temporarily.

## DISTRICT No. 2.

Comprising the Counties of Grey. Bruce, Huron, Perth, Waterloo, Wellington and Dufferin.

### T. J. McNally, M.D.,

District Officer of Health, London, Ont.

I have the honour to submit to the Provincial Board of Health the following report for the year 1918 for the above Districts.

This year, as during the past two years owing to war conditions and the large area under supervision our attention and efforts have been largely occupied attending to and giving assistance when and where requested by Local Boards of Health so that systematic inspection of each municipality has not been possible.

Notwithstanding the conditions as mentioned above I have visited each city in the Districts several times, most of the towns once or oftener and many of the rural municipalities as well.

I have especially emphasized upon local authorities when visiting them the importance of constant supervision of their water supply, and the disposal of sewage and garbage in a sanitary manner.

It is pleasing to note the ever increasing interest manifested by the public in protecting themselves against contracting disease through these channels of communication though all too often systematic supervision is only taken by the local authorities when an epidemic has shaken them from their ignorant, careless or indifferent attitude towards protecting their community.

That this may not be a reproach to us as guardians of the Public Health and to correct this condition I respectfully urge the Provincial Board to require from each Local Board where there is a municipal water supply a bi-weekly examination of the water by one of the Provincial Laboratories or some authority approved by the Chief Officer of Health, and where such examination shows a suspicious condition that the District Officer be notified at once to investigate the cause and report to the Provincial Board the result of his inspection and the measures taken to correct the condition.

The necessity of some such regulation was painfully impressed upon me by the most serious epidemic from water infection that I have had to deal with since I have been acting as your District Officer, and which occurred this year at Chatham.

I called upon the local authorities in the early part of the season and directed attention to the necessity of frequent examination of the water supply. An examination was made in June which was reported upon, showing colon bacilli in 25cc, but it was not examined again for about a month when it was found to be seriously contaminated, and in the interval the damage was dene.

The first case was reported on July 23rd, and the epidemic of typhoid raged for a couple of months with the last secondary cases reported in November; in all 162 cases in the city with 16 deaths, and 62 cases from outside municipalities treated in Chatham hospitals with 8 deaths besides many cases treated in surrounding municipalities, traceable to the same source of infection.

It appears to me a reasonable inference that had there been a bi-weekly or more frequent examination of the water supply and the first suspicious result of examination sent to the District Officer some of this fatal epidemic might have been avoided.

Once the epidemic was recognized every effort was made by the local authorities, assisted by the Provincial Board to eliminate the cause and curtail the ravages of the disease.

In addition to the old measure inoculation of the public with antitoxin was generally adopted as a preventative measure and I have reason to believe with excellent results, judging from the fact that notwithstanding the severe mental and physical strain to which the nurses in both hospitals were subjected and the fact that they cared for over two hundred cases, many of very severe type not one of them came down with the disease, they having all been ineculated.

The board of health had a medical man appointed to give inoculation free to all who wished it: 1,400 were treated by him with free antitoxin supplied by the Provincial Board, besides a much larger number treated by their family physician.

The water supply of the city is now under the personal supervision of Dr. Mustard who makes a daily examination and supervises the treatment and chlorination most efficiently.

There was a small outbreak of typhoid at Owen Sound due to contamination of one of their sources of supply; this was checked up early and the spring cut off and it will not be used again until the supply from it is filtered.

Our rural municipalities are supplying altogether too many cases of this disease though the cases are mostly isolated.

### NUISANCES.

Among the larger and more serious conditions complained of and corrected during the year are the following:

Lucknow.—The G.T.R. cattle vards.

Sarnia.—The city garbage dump, situated in the Township of Sarnia while not yet out of existence is carefully handled under Inspector Crosby, and the city is proceeding satisfactorily towards providing incineration.

Kitchener.—The city garbage dump situated in the Township of Waterloo. This appears to me the most glaring infraction, without cause, of the Health Act that has come under my observation, as the City owns and heretofore operated an incinerator and was drawing the garbage past it to the dump.

Abatement of the condition was only obtained when the township authorities sought relief through process of law.

Arthur.—The village drain has at present been removed from the list of nuisances after considerable effort on our part.

Here I am afraid it is necessary for me to record some failures (for the present at least).

 $London.\mbox{--}\mbox{\sc Nuisance}$  caused by the effluent of Hyman's Tannery.

Tillsonburg—Contamination of the stream from the Creamery.

Norwich.—Contamination of the stream by the Creamery. Nor has there been any attempt on the part of the offending parties so far as known to me to correct conditions complained of, though in all cases promise of abatement has been given.

## MEAT AND MILK SUPPLIES.

I regret to notice that in some municipalities visited the local authorities have eased up in their supervision of Slaughter Houses and meat since I have been unable to make regular tours of inspection. This is especially noticeable where the business has passed into new hands and the regulations have not been brought directly to their notice.

The milk supply of all cities, most of the towns and some of the villages in the Districts under my supervision are now being inspected under local by-law so that there is a decided improvement in the cleanliness and quality of this food.

### RURAL SCHOOLS.

The continued inspection of the rural schools by the Local Health Officer is gradually bringing about a betterment of sanitary conditions, especially where action is taken in conjunction with the school inspector who has power to withold grants until the improvements recommended by the Health Officer are effected.

### COMMUNICABLE DISEASES.

Smallpox.—This disease made its appearance in several municipalities during the year but in mild form, and was taken care of by the Local Board except in a couple of instances where I was called in to give some assistance.

Scarlet Fever.—During the year, scarlet fever was reported from several points but did not assume the form of a general epidemic, being confined to a moderate limit by the Local Officer in every instance.

Tuberculosis.—This disease is still claiming too many victims though an advance in its early recognition by the general practitioner is gradually taking place and early treatment being adopted is leading. I believe, to a larger per cent. of recoveries than formerly though we are yet weefully short of local institutions to properly care for those affected.

Diphtheria.—The general incidence of this disease is being materially lessened by the use of antitoxin as a prophylaxis and its early use in full dosage where

the disease has developed.

The more general search for carriers and their quarantine and treatment has been markedly successful in controlling and stamping out the disease as demonstrated in Kitchener. Owen Sound, Walkerville, Windsor and their neighbouring municipalities.

Measles.—This disease appeared in several municipalities in mild form during the year, but has not gained any widespread epidemic form as in 1916.

Mumps and Whooping Cough.—These so-called youthful maladies have made frequent appearance but I have not been called upon to give the Local Officer assistance as they have usually been confined to a few cases by him.

Influenza and Pneumonia.—In our endeavour to control the ravages of these diseases during the months of October, November and December we are forced to admit a real reverse to preventative medicine and Public Health work.

Their incidence was general and their type the most severe ever known, claiming victims not alone from the weak and aged but for the most part from the strongest and best of our people.

In District No. 1 the victims numbered nine hundred and seventy-three, and in District No. 2 there were nine hundred and seventy-one fatalities.

In view of the recurrence of these diseases in epidemic form isolation of all cases, especially early ones, seems advisable.

### DISTRICT NO. 3.

Comprising the following Counties: Norfolk, Haldimand, Welland, Lincoln, Wentworth, Brant, Halton, Peel and York.

### D. A. MCCLENAHAN, M.D.

# District Officer of Health, Hamilton.

The year 1918 was one of increased activity along public health lines—I think we are beginning to get results following the gradual education of the public. We make progress only as fast as we have public opinion behind us. In my meetings with Boards of Health and Township Councils, also Women's Institutes. I have tried to point out to them that the old theories of public health that were in vogue twenty to twenty-five years ago will not do for to-day. It will not do for instance, to say that we have a case of typhoid fever in a house because there are decaying vegetables in the cellar or that we have a case of diphtheria because there is a pin point hole in the plumbing in the bath-room. The public must be taught that cases of infectious diseases come from previous cases and that they must be reasonably fresh cases. This explodes the old idea that dirt produces disease, because so far as we know there is no such thing as spontaneous generation of disease germs. The public must be made to realize that while infection may spread by water, food, milk and flies that a more important route is by contact. People are very prone to look for the cause of infection in the obscure route because it appeals more to their ideas of the bizarre, when the real cause or route of the infection is close at hand and simple.

I have tried at these meetings to tell the people something about bacteria—how they live and are disseminated and to show them that we do not get, say, scarlet fever by the scales being sent in a letter by a patient who had scarlet fever months before. Our Sanitary Inspectors must be taught that the garbage pail at the back door is only a menace to health when we consider it as a possible breeding ground for flies, that the public health workers should not be considered as street cleaners and that there are vastly more important things in the prevention of disease than in cleaning of streets and collection of garbage—these are necessary though from an aesthetic point of view. At the same time at these

meetings I have pointed out to the people the real need there is for a proper control of the milk supply, close supervision of communicable diseases including tuberculosis and venereal diseases—prevention of breeding of flies, and the furtherance of child welfare.

Throughout my District in 1918 there were a large number of farmerette camps located at different points. I made an inspection of the camp and its surroundings in each case and also had samples of water taken and warnings issued to the girls where the water was found to be polluted. Camps were located at Burlington, Vineland, Niagara-on-the-Lake, Winona, Beamsville, Clarkson, and a number of other points, the girls were advised to be inoculated against typhoid and were in a number of instances inoculated free of charge.

In May, 1918, a complaint came to me from Fort Erie about the milk supplied to the citizens of that village, I took a sample of the milk and on examination for butter fat it showed a percentage of 2.2. This could only mean that the milk An information was not laid in this case but the milk was being watered suddenly improved in quality; later I was informed that the same milkman had lost a cow from his herd through death from tuberculosis. I went to see him about the matter and he was quite willing to have the balance of the herd tested by tuberculin and get rid of any tubercular cattle. I had word subsequently from the veterinary surgeon who had charge of the herd that everything was now satisfactory and there were no tubercular cattle in the herd. There seems to be a weakness in the Federal and Provincial laws in that there is no authority to go upon a farmer's land and order him to have his cattle examined for tubercalosis if it is suspected in the herd. In the above case I pointed out to the owner that it was in his interest to have his herd above reproach as no one would buy the milk if suspicious of the health of the cattle. He was willing to co-operate.

During 1918 I was very much interested in the municipality of Crystal Beach. Crystal Beach is a police village and is very anxious to have sewers and a sewage disposal plant as well as a waterworks system. They have established a system of outdoor closets with buckets and have a garbage and night soil collection system. The system is a failure because of want of supervision—the Sanitary Inspector appointed by the Township Council has been ill and there was no one appointed to attend to his duties and that left the man who did the collecting of the nightsoil practically an autocrat and if any one complained then he would not collect for them at all. I saw the Township Council and a number of the residents of Crystal Beach at a meeting in Ridgeway and they agreed to appoint a Sanitary Inspector at once and see that the collecting was done regularly. Another difficulty in Crystal Beach was that the residents had nowhere to dispose of the waste water and surface water. Mr. Dallyn, Engineer of the Provincial Board of Health, visited Crystal Beach with me and looked over the situation and gave the citizens an idea as to what the proposed improvements would cost them, I do not know what action has been taken since in the matter but have had no more complaints. A large number of complaints were investigated in different municipalities.

In the month of June I visited along with Dr. Maw. of Caledonia, all the schools in the Township of Oneida. Dr. Maw is the M.O.H. for the township.

We visited the schools and besides inspecting the school building and surroundings we gave talks to the children and tried to interest them in public health work.

In July I was called to investigate complaints in Port Colborne, Georgetown

The year 1918 will be remembered as the year of the great scourge, namely, the so-called Spanish influenza. This disease is passed from one to another by contact, very often by droplet infection. Public opinion in a good many cases forced the M.O.H.'s and Boards of Health to close schools, churches, theatres, etc. this procedure is of doubtful value—the disease seemed to begin—the number of cases increase up to a certain peak and then there was a decline. If the schooland churches, etc., were closed at the peak of the epidemic then every one was sure that it was a very valuable proceeding, but if the schools, etc., were closed at the beginning then the results were not so good as the epidemic kept spreading up to a certain point and then declined. During the recude-cence of the disease the same thing occurred. The spread of the disease seemed to be staved only when the most of those not immune had contracted the disease. In the cities and towns the great need was for some place to put those who were ill and had no one to look after them. There was also great need for volunteer nurses and a great many with a self-sacrificing spirit beyond praise came forward and rendered very valuable help. The medical men were greatly overworked and a number of them lost their lives through their devotion to duty. The best results from treatment were observed where the patients went to bed at the onset of the symptoms of the disease. Serums seemed to have no prophylactic or curative value.

### DISTRICT NO. 4.

Comprising the Counties of Prince Edward, Hastings, Northumberland and Durham, Peterborough, Haliburton, Ontario, Victoria, Simcoe and Muskoka,

# GEO. CLINTON, M.D. District Officer of Health, Belleville.

I have the honour to herewith submit for your consideration a condensed report for 1918.

Early in January at the request of the Provincial Secretary, Hon, W. D. McPherson, and Chief Officer Lt.-Col. J. W. S. McCullough, M.D., D. P.H. I started on a tour of inspection to assist the work of Mr. Dunlop, Chief Inspector of Prisons, etc.

I first visited Kingston and inspected the following:—

Kingston.—General Hospital, Hotel Dieu, St. Mary's on the Lake Orphanage. House of Refuge, House of Industry, Home for Friendless Women and Children. Protestant Orphanage.

Belleville.—General Hospital, Children's Shelter, House of Refuge for Hastings County, Gaol, Home for Friendless for City.

Peterborough—Nicholls Hospital, St. Joseph Hospital, St. Vincent Orphanage, St. Joseph House of Providence. Protestant Home. Isolation Hospital.

Lakefield.—County House of Refuge for Peterborough County.

Cobourg.—Hospital, House of Refuge, Asylum for returned soldiers, Gaol.

Port Hope.—Hospital.

Bowmanville.—Hospital. Oshawa.—Hospital.

Whitby.—Gaol, Whitby Hospital for Soldiers.

Lindsay.—Hospital, Gaol, House of Refuge.

Full reports of these were sent to Mr. Dunlop in parts of January and February, 1918,

I endeavoured to make a general sanitary survey when at above-named places. In March I made a general survey of the factories in Peterborough. Detailed reports have been given. The general conditions in the city were unchanged.

April 30th I visited Madoe Village and Hungerford Township-found some

improvement.

May 8th, I was at the British Chemical Company, Trenton. The main boarding house, office and club all have septic tanks and sewerage well cared for. Water supply was taken from river, but a good mechanical filter. Several shacks outside of the company's ground were in a dirty, bad condition and crowded. Some typhoid. I drew the attention of the M.O.H., and Sanitary Inspector of the conditions and they promised to give it attention.

May 9, Mohawk, Royal Flying Corps were stationed. This camp had been put out of bounds as there had been smallpox in Belleville. I assured them all danger was over. At that time large sums were being spent to make it a perfect, per-

manent, sanitary camp.

May 8th, at Trenton. No special changes. Not as good as it should be.

May 15th, at Wellington settling dispute between baker and butcher, which I did.

May 22nd, at Oshawa. M.O.H. Dr. McKay told me no changes since my

last visit except a new shifting sand filter working well.

July 10th, Hallowell Township, Prince Edward County. Found two slaughter houses in a filthy condition—had to prosecute one. The M.O.H., Dr. Cahoon, and Warden of County accompanied me. These two butchers had retail shops in Picton.

August. At Hastings Village I found a retail butcher shop and slaughter house out of the village so filthy and numerous flies, that I forbade selling another pound of meat or slaughter of any more animals until he fulfilled the regulations to the satisfaction of the local board of health. The local board of health informed me he did so at once. These were the only special cases that gave trouble.

July 3rd. I visited Peterborough Lakes with Dr. Adam Wright, viz., all summer resorts on Clear Lake, Stoney Lake, Burleigh Falls, Buckhorn and Oak

Orchard.

July and August. Algonquin Park.

Dr. Bell and I left Toronto for Lake of Bays, hence to Huntsville, Peninsular Lake, Fairy Lake and Mary Lake, visiting every summer resort on all these.

From Huntsville to Algonquin Park, at all the resorts at Minnissing the sewerage was bad and closed the following week. Nomingan much better. The Highland Inn was satisfactory. Two others, Algonquin Hotel on Joe Lake very good: Mowat Lodge on Canoe Lake requires much repairs.

Then from the Park to Rose Point near Parry Sound, hence to Pointe au

Baril—two very good hotels, viz., Ojibway Hotel and Skarrava.

Then from Pointe au Baril to Bala on Muskoka Lake Joseph and Rosseau. There were very little changes on these lakes in the past year. The Royal Muskoka had repaired the sewage filter beds and installed a modern incinerator.

Early in April we had a small outbreak of smallpox in Belleville brought here by a soldier from down east. Dr. Yeomans had it well in hand when I was called. Only three families, all mild cases.

There were no other severe epidemics until influenza came in the autumn. I

have been unable to get the number of eases. Later on it spread to the country districts. Many eases were fatal.

All canning factories were inspected and found much improved.

There has been no marked epidemic in my district until the influenza came. Altogether it has been a satisfactory year's work.

All of which is respectfully submitted.

### DISTRICT NO. 5.

Comprising the Counties of Lennox and Addington, Frontenac, Leeds and Grenville, Dundas, Stormont and Glengarry, Prescott and Russell, Carleton, Lanark and Renfrew, and the City of Kingston.

LT.-COL. PAUL J. MOLONEY, M.D., C.M.

District Officer of Health, Cornwall.

Dr. J. W. S. McCullough, Chief Officer of Health, Toronto, Ont.

SIR,—I have the honour herewith to submit my annual report, for the year 1918, of my work in District No. 5, comprising the Counties of Lennox and Addington. Frontenac, Leeds and Grenville, Dundas, Stormont and Glengarry, Prescott and Russell, Carleton, Lanark, Renfrew and the City of Kingston.

The district had a population by the last census of 326,958 people.

Outside of the urban population the residents are almost entirely engaged in mixed farming.

In the towns and cities a fairly large percentage are employed in the various manufacturing concerns, principally in the cotton and paper mills and the iron working establishments and in smaller numbers in lumber mills, furniture factories, woollen mills, etc., etc.

While in the northern parts of this district we have large settlements of residents of German and Polish extraction, and those of the County of Prescott and parts of the adjoining counties are largely French-Canadians, the bulk of the people are of British and U.E.L. stock.

One result of the war in this district has been a very marked improvement in the financial position of farmers and their desire and ability to instal modern sanitary conveniences in their homes. It is a depressing fact that notwithstanding the natural advantages for the promotion of health to be found in the open country, there is more sickness prevalent, and the people in the aggregate live shorter lives than in the towns and eities.

This is due largely to the want of proper sanitary conveniences in the homes and dearth of knowledge of the laws of public health. In the towns and cities the municipal authorities are compelled by public opinion and by the law to supply the inhabitants with pure water and proper sewage disposal works and knowledge of the laws of health especially as regards the benefit of sunlight in the homes and proper ventilation is more general.

Almost all the villages, towns and cities are situated on some large or small river with which this part of the Province is abundantly supplied, but in the great majority of cases their municipal water supply is more or less contaminated by sewage pollutions from other urban centres further up stream. Most of the towns had installed sewerage systems before the Provincial Board had decided to prohibit the installation of sewerage systems without proper disposal works being

included as part of the plant. These conditions have been allowed to continue owing to the war and the resulting financial conditions.

For many years at Public Health Conventions, it has been a contentious point as to whether for the purpose of supplying a pure water supply the first move should be the elimination of the contamination of our rivers and lakes or the immediate purification of the water supply by filtration and chlorination. The former is no doubt the proper object to be ultimately aimed at, but it is likely to be attained only in the distant future. Immediate treatment by filtration and chlorination is now generally observed. An up-to-date system has been recently installed in Hawkesbury and another is under contract for the Town of Rockland.

In connection with water purification plants municipal councils should not only instal up-to-date systems but also be most careful in the selection of those who are to be charged with their operation. In all cases conscientious, well paid employees only should be engaged, as no matter how excellent the modern plant may be it is only by constant, careful supervision that the proper results can be obtained at all times.

During certain periods the results obtained at Kingston, Renfrew and Smith's Falls were far from satisfactory.

Apart from extensions of the present systems no new municipal sewage systems have been installed in this district or additional works constructed to purify the effluent.

The inspection of milk, meat and other food products in the district was fairly satisfactory, but no regular system of inspection has been carried out—most municipal councils objecting to this on account of the expense involved,

Slaughter house conditions are improved but still far from satisfactory, many out of the way and most unsanitary places being used for occasional slaughtering. At the same time quite a few up-to-date plants have been installed.

### SUMMER RESORTS.

This district is unusually favoured with many widely known summer resorts, the more notable being those on the St. Lawrence, including the Thousand Islands—the Rideau Lakes and the Charleston Lake. Excepting with regard to those on the St. Lawrence the law against contamination of the waters by the cottagers has been fairly well enforced. Where there are in the aggregate several thousand summer homes scattered over a very wide area some delinquents are overlooked, but prompt reference to the courts of detected cases has tended to keep the waters of our summer resorts unequalled for purity by any others equally populated in the country.

Action in the case of the St. Lawrence resorts has been stayed until the report of the International Waterways Commission has been issued, as it is likely an international understanding between United States and Canada will be arrived at so that there will be a uniform enforcement of sanitary regulations.

#### COMMUNICABLE DISEASES.

During the year the district had a bad epidemic of Spanish influenza. Small-pox, also, was very prevalent in the early months of the year. Special reference will be made of these in a separate paragraph. Apart from the above the district was unusually free from communicable diseases.

Sporadic cases and small outbreaks of infantile paralysis, searlet fever, diphtheria, measles, and whooping cough occurred in various localities but they were easily controlled.

The public health besides the ordinary routine work of a district officer has been promoted during the year by a series of public lectures and the distribution of pamphlets and other literature dealing with health problems.

A detailed report of the work performed has been sent to the Chief Officer of Health from time to time.

During the year a sanitary inspection was made of two insane asylums, twelve hospitals, seven houses of refuge, six orphanages and children's shelters, and seven gaols.

Faults in construction, lack of equipment and any unsanitary conditions were brought to the notice of the proper authorities and the necessary changes ordered.

A routine sanitary inspection has been made of all the principal towns and villages and also of others when special conditions called for it.

This office has been used more extensively than in past years by the local medical officers, boards of health, municipal councils and individuals as a source of information regarding interpretation of the Health Act, advice on general sanitary matters and as to control of communicable diseases. All communications have been attended to as promptly as possible, some delays being inevitable owing to absence from my office.

Besides the regular routine work special visits have been made in some cases as many as ten times in connection with sanitary matters to Calabogie, Arnprior, Renfrew, Clarence Creek, Bourget, Cumberland, Rockland, St. Eugene, Vankleek Hill, Hawkesbury, Napanee, Portland, Sydenham, Cardinal, Gananoque, Mountain, Smith's Falls, Perth, Alexandria, Cambden, Kingston, Carleton Place, Shabot Lake, Almonte, Maxville, Morrisburg, Westboro, Ottawa, Carp, East View, Finch, Winchester, Brockville, Pembroke, Petawawa, Lancaster, L'Orignal, (Pembroke), Elgin, Athens, Prescott and Iroquois.

The smallpox epidemic in the first months of the year and that of Spanish influenza in the latter months of the year require special mention.

### SMALLPOX,

In the latter months of 1917 and during January and February smallpox was epidemic in Hawkesbury, Vankleek Hill and the surrounding country.

Except for a few exceptions the disease was of a mild form and resulted in no deaths except in children prematurely born. Two of the latter died in Hawkesbury badly covered with the smallpox rash.

In Hawkesbury 248 cases were reported and in this district there were at least five hundred cases.

Vaccination especially in the towns was well observed, the Provincial Board of Health supplying 6,000 vacc. points free.

Minor epidemics occurred in Alexandria and Renfrew, and the thorough and prompt measures taken in these outbreaks by the local authorities and Health Officers Drs. Hope and McCann had excellent results, and in marked contrast to the results achieved in other municipalities.

Many school boards in the district now make the presentation of a certificate of successful vaccination against smallpox a condition for the reception of pupils to their schools. If this practice was general those recurring epidemics of smallpox in this district would eventually cease.

### SPANISH INFLUENZA.

Reports in press of the ravages of this disease and warnings by the Provincial Board and local officers of health had very little effect in causing the different municipalities to prepare effectually for its onset.

Although the most urgent demand during the height of the disease was for doctors, experience showed that what was most needed was nurses, trained and untrained, the latter often proving in cases where the whole or greater part of the family went down of greater practical usefulness than the former as they took the part not only of a nurse to the best of their ability but as housekeepers as well.

So many divergent views are expressed by eminent authorities as to the causation and spreading of this disease that the medical profession and general public are at a loss as to what steps to take to guard against its onset and dissemination.

From a study of the epidemic in this district I venture to make the following

The greatest danger is from panic. Places which had thoroughly prepared for the disease by organizing the medical, nursing and hospital arrangements and then waited in confidence for the outbreak have had a very low case and death rate.

Crowding together of people where they come in close or actual contact spreads the disease.

The wearing of masks, although theoretically a great preventative is not practical.

Putting the patient to bed in the early stages of the attack and keeping him there until well over the disease with the best nurse available gives the best results. The confidence inspired by the physicians visits also helps.

As authorities tell us we should expect another outbreak next year Health

Boards should organize their resources well in advance.

A body of voluntary, practical nurses, preferably with at least a short period of training, under capable leaders with a central headquarters supplied with the needed medical and other supplies and with adequate means of transportation should be organized in every municipality. This would be in addition to the regular professional nurses who are, of course, always available as far as their numbers will permit.

Every effort was made by this office to supply doctors and nurses to the affected sections, and most valuable aid was received from Dr. McCullough, Chief Officer of Health, especially in the early stages of the outbreak. For example, we were able to send fifteen nurses to Renfrew within two days from the call for help-later all the sources of supply were exhausted and little could be done to aid affected localities. A few doctors and a number of final year medical students from Montreal and elsewhere gave most valuable assistance.

The mortality varied greatly from Morrisburg where they had no deaths to some small villages where 10 per cent. of the inhabitants died. Cornwall, Renfrew and several other towns had a death rate of one per cent.

Here as elsewhere the majority of the deaths were among strong, healthy adults.

NORTH BAY, ONT., Jan. 1st, 1919.

### DISTRICT NO. 6.

Comprising the Districts of Nipissing, Parry Sound, Sudbury and Temiskaming.

### DISTRICT NO. 7.

Comprising the Districts of Kenora, Rainy River. Thunder Bay, Algoma, Manitoulin and Patricia.

Major Robert E. Wodehouse, M.D., Port Arthur (now on active service C.E.F.). District taken over temporarily by Dr. George.

W. EGERTON GEORGE, M.D.

# District Officer of Health, North Bay.

Although the expense incurred shows a decided increase it would have been materially greater had not one of the trips to the west been made at the expense of the Department of Prisons and Charities. The trip was in fact in the interest of public institutions, but it was also used to further our observations and assist Public Health measures. The total expense for the year to the Department of Public Health was \$1,073.00 which was divided in the following proportions, \$312.43 in District 7, \$760.57 in District 6. The general rise in hotel rates and transportation is responsible for the increase over last year. A much needed advance in my accountable warrant from \$200.00 to \$300.00 was made toward the end of the year and had the effect of preventing the use of private funds for public expense. The long western trips which keep me away for several weeks at a time made such an advance imperative. During the year I travelled 27,100 miles.

This vast area of Northern Ontario through which three Transcontinental Railways run more or less parallel for over 1,000 miles, separated about 300 miles at their widest point, constitutes Health Districts 6 and 7. Three or four railways run north and south dividing the country into more or less rectangular areas. These large open spaces are receiving increasingly greater attention from large corporations representing paper, minerals and lumber. Good farming land reasonably accessible to the railways is rapidly being taken up. Towns of considerable importance spring into existence within a short time after one of these industries are located. As much of the operations of these concerns is in unorganized territory, the Health Regulations are largely under the supervision of your officials. So much of the time of your District Officer is taken up with these matters, in company with the Provincial Sanitary Inspector, that it becomes increasingly necessary that additions be made to the staff in order to protect those employed in unorganized territory; the health of whom is often hazarded negligently, carelessly and inadvisedly by these corporations. The conditions found on the premises of the few concerns that have received some attention have revealed such an alarming state of affairs that your officials surmise that many dangerous conditions exist which only await the inevitable results to have them brought to our attention. The responsibility for these results must be assumed. It is also clear that they cannot be prevented by the limited staff now devoting their time to this work, since if it were possible to see a new work every day for

the whole year not over half would be seen. Second, third and fourth visits are continually required to effect the necessary changes, and hundreds of miles must be travelled to reach them. Indeed, new industries are being established almost, if not quite, as fast as can be supervised.

### COMMUNICABLE DISEASES.

The total returns for communicable diseases were as follows:—

	Distr	ict 6.	Distri	ict 7.
	Cases.	Deaths.	Cases.	D:aths.
Smallpox	21	1	. 10	0
Scarlet fever	20	1	327	6
Diphtheria	55	9	62	8
Measles	126	5	732	2
Robella	0	0	24	0
Whooping Cough	9	1	188	6
Typhoid	50	4	22	3
Tuberculosis	7	11	20	24
Infantile paralysis	0	0	8	1
Cerebro-spinal meningitis	0	$\underline{2}$	3	1
Influenza	268	22	1,869	£ 9
Chickenpox	2	0	103	0
Mumps	37	0	54	0

Scarlet Fever.—Fort William and Port Arthur were responsible for almost 90 per cent, of the scarlet fever, but not much more than 50 per cent, of the deaths. The disease has existed in these cities for over a year. Investigation shows the disease to be of very mild form: not more than 50 per cent, developing the rash. Those without the rash are not being reported; so that possibly half of the cases are running at large thus keeping the epidemic going. The missed cases or carriers. I have just described are not included in the returns, and therefore the number of cases are not represented by the figures given above. Influenza during the latter part of the year seemed to increase the proportion of those showing rash. This resulted in a great increase in the number of reported cases since rash was the cardinal symptom upon which reporting depended. The mildness of this outbreak presented such great difficulties in the way of control, as evidenced by the length of time the disease has been prevalent, that I discussed the matter with a number of prominent Public Health men both at Hamilton Conference and the Chicago meeting. The best information I could obtain ascribed the perpetuation of the epidemic to the missed case. In order to give them the benefit of this conclusion I decided to proceed to Fort William at an early date.

Diphtheria.—Diphtheria never became a serious problem within either district. First cases were frequently fatal: but as soon as energetic measures were taken the disease was easily eliminated. The mortality varies very noticeably in different sections. Dr. Mason, the efficient Health Officer for Parry Sound, reports a mortality of close to 50 per cent, in that municipality. Fortunately, however, the town has been comparatively free from diphtheria during the year.

Measles.—In District 6, the most serious outbreak occurred in Copper Cliff. Seventy-seven cases and three deaths were reported. I regret that I was not able to visit the town during the epidemic.

In District 7. Sault Ste. Marie and vicinity (Korah Twp.) contributed some 548 of the cases reported: while official notification of smaller epidemics was received from Schreiber, Eagle River and Rainy River. The small number of

deaths reported on the weekly cards does not accurately, nor even approximately, represent the number of deaths from the disease. Two deaths only were reported on the weekly return eards from the Soo, while I distinctly recollect that there were at least nine deaths. I would strongly advise that during epidemics the Department check up the deaths reported on the weekly return cards with those reported on the death cards. A reasonable approximation should be possible which the present facts do not show. One observation made at this place was indeed interesting. A number of school children (20 to 30) claimed to have had measles four times while at least twice that number claimed to have had it three times. Undoubtedly a large proportion of these were cases of Robella; but I was convinced that second attacks were hardly to be considered rare. Below is a list of the measures found most useful.

First. Teachers were informed that cough was sufficient reason to suspect measles and that they must on the authority of the Health Officer send all coughing children home. These were reported to the M. O. H. who kept them under observation for a week. Nurses visited the schools to check up the teachers.

Second. Sunday schools and picture shows were closed to children under lifteen years. Prosecutions were required and resorted to, to get strict compliance with these orders. Admitting the difficulty of reaching a conclusion as to the effectiveness of measures adopted in measles, I was convinced that our efforts were important factors in the rapid decline in the number of cases which immediately followed.

Whooping Cough.—The only important epidemic of this disease was in Fort William where over 100 cases were reported with three deaths. It is unfortunate that we have no records at this office to assist us in arriving at the ages which were most frequently responsible for deaths, both for whooping cough and for measles.

Typhoid.—It is gratifying to note the returns for typhoid fever in both districts. There were seventy-two cases and seven deaths reported; not more than three per hundred thousand. The old chronic contributors, such as Parry Sound, Haileybury and Sudbury, were still in evidence with their quota of seven, five and six, respectively.

Tuberculosis.—Tubercular returns are anything but satisfactory. More deaths than cases were reported from both districts. No doubt your officials share in the responsibility for this lack of compliance with the regulations, but the weakness is so general that it will require the combined and thoughtful efforts of all, in order to obtain a reasonably accurate idea of the prevalence of tuberculosis in Northern Ontario.

Influenza.—This was by far the most serious scourge that has visited Northern Ontario during my tenure. The outbreak began in September and was still active at the end of the year. Only a very few municipalities reported their influenza cases, yet there was a total of 2.137 cases and 111 deaths. The outlying unorganized territory suffered greatly from lack of medical aid and nursing attention. Indeed, during each visit to outlying localities your officer was required to spend considerably more time than his official duties demanded in attending the sick. This was unfortunate since his presence was in urgent demand in so many places.

Closing of schools, isolation, reporting and placarding have not proved efficient measures in handling influenza. Vaccination, masks, elimination of crowding and the use of common towels and drinking cups have been more effective and have

received general recommendation and approval. In connection with the danger of the further spread of "flu" in the next year or two I took up the matter of common towels and drinking cups with the Temiskaming and Northern Ontario Commission, who referred the question to the Canadian War Board along with the argument for their elimination. The Railway War Board was so impressed that they ordered the use of these to be discontinued on all the railways in Canada including stations and bunk houses. The Commission of the T. & N. O. kindly sent me a copy of the order complimenting your officer on the success of his efforts. Such approbation will commend itself to the Board, I am sure, since primarily it is their efforts that are producing results.

One important matter was overlooked by Health Officers in a number of municipalities. I refer to the admission of "flu" patients to the general public wards of hospitals where patients were recovering from operations. The explosive nature of the outbreak was largely responsible for this omission, but if lives were sacrificed a severe censure is due both to the Health Officers and also to the

institutional management.

### WATER SUPPLIES AND SEWAGE DISPOSAL.

The question of the purity of the natural waters of Northern Ontario is closely associated with the question of sewage disposal. For this reason I have decided to couple these two subjects under the one head.

In District 7 the water supplies for Fort Frances, Rainy River, and Kenora have been viewed as potential causes of typhoid since sewage empties into them with little or no treatment. Chlorination is being carried out in each pumping station, but filtration and sewage treatment will also be required in order to remove all the menace to these supplies. The efforts of the citizens of Fort Frances to establish a summer resort at the mouth of the river above the town must be considered another danger added to the previous difficulties. Rainy River, having received permission, intend to remove their intake to a point, not more dangerous, but nearer the town, so as to be used by the new pumping plant.

At Sault Ste. Marie an automatic chlorine plant was found on the ground but not in operation. I strongly recommend that it be installed in the old pumping station and transferred when the new station is ready. The man element is usually not reliable enough to be entrusted with hand mixing for a city of that

size, especially when the water is known to be seriously polluted.

In District 6. Parry Sound, Sudbury. Haileybury and Smooth Rock Falls obtain their water supply from polluted waters without the proper safeguards. All are using chlorination systems, but sewage treatment is urgently required at Parry Sound and Haileybury. Recommendation for a safe and sufficient water supply for Parry Sound is in the hands of the Engineers. Chipman and Powers. The work was done over a year ago but no report has been brought down. One cannot help but suspect that the Council do not intend to take action or the report would have been demanded before this. Haileybury has a septic tank which is far from giving satisfaction; in fact, it has been more or less out of repair for some time. For this reason a greater efficiency is required of their filters than can be expected, especially when the wind carries the effluent from the septic tank in the direction of the mouth of the intake pipe. Sudbury and Smooth Rock Falls have chlorination systems too small to handle the quantity of water being pumped. This matter has been brought to the attention of responsible parties in each case, but I fear without results.

The British American Nickel Company have installed an automatic chlorination plant at their works at the old Murray mine outside of Sudbury. A small filter also adds a degree of security to their water supply.

The Canadian Copper Company have agreed to follow the suggestions of our Sanitary Engineer and endeavour to obtain sufficient well water for their roast yards. At Turbine after the menace of their water supply was pointed out their intake was carried above their construction works in order to guard against pollution.

I regret to have to report that the Engineers for one of the northern towns ignored the Board in the matter of getting approval for their plans and specification before work was commenced. The matter was brought to their attention but the work was carried to completion without that approval. They have provided a sewer outlet into a river which is used for a water supply further down. I am strongly of the opinion that a serious menace is added to the dangers already existing in this water.

When the financial conditions resulting from the war reach a state of equilibrium a number of towns in these two districts should be forced to complete disposal works.

### PRIVIES.

The method of collection of night soil needs urgent reformation in many northern towns such as Timmins. South Porcupine. Schumacher. Haileybury, New Liskeard and Dryden. In some places where the can system has been established, the cans are removed and no attempt made at collection during the winter months. Unnecessary dangers are thus created by the spring sun.

At Dryden certain thickets in the neighbourhood of the paper plant were in a very filthy condition because of faecal matter deposited there by the employees of the company. A new road which was put through cleaned up part of it and the company promised to remove the rest of the undergrowth.

At Haileybury the nuisance ground became very offensive because of the accumulation of dead carcases. The municipal authorities were advised to take measures to have them burned.

### Unorganized Territory.

The time which has been devoted to camp work in unorganized territory, in support of our capable Sanitary Inspector, has not been inconsiderable. One or two visits were made to the camps of the Mattagami Pulp and Paper Company, along the Mattagami River above Smooth Rock Falls. The camps of a number of other companies were visited along this same river above Timmins. A number of other visits were made into the mining camps in the Kirkland Lake and Boston Creek districts. Two interesting conclusions were made as a result of these visits regarding camps and their sanitary supervision. These were:—

First. The one regulation which permits of no infraction, without which all else is wrong, is that which relates to the location of a camp. It is the cardinal offence.

Second. The reason the physicians do not report on, or look after the sanitary conditions about their camps is to be found in the lack of specific remuneration for this work. They agree to do the sanitary work for nothing in order to get medical contracts for the supervision of the men. But since the company pays nothing for this work and discourages energetic measures, only the medical atten-

dance of the men receives attention. Since the men pay for this they demand reasonable compensation. I would strongly recommend that companies be asked to make provision in their contracts to meet the reasonable expense of sanitary supervision of their camps.

### DAIRIES.

In the production of milk the standards of both quality and cleanliness have suffered greatly by the war, since competent help was not available to dairymen. Now the war is over this difficulty has been removed; and it remains for Boards of Health generally to see that they do not make this an excuse for further delay in order to make capital out of their past labour embarrassments. The standards of cleanliness must be raised to a point compatible with safety to infants; and the butter fat to a point of reasonable richness. That the milkmen take advantage of these excuses is demonstrated by the large amount of milk sold during the war below three per cent, of fat which is the standard of the Ontario Milk Act. Special attention was given to dairies at Kenora, Fort William, Port Arthur and Fort Frances. The standards maintained at Kenora were easily the highest. At Fort William I saw four poorly constructed and equipped dairies in the Slate River district. At Port Arthur they had a number of prosecutions for low fat until they began to publish the weekly records. Dairies at Fort Frances show marked degeneration. At the time of my last visit no dairy could be said to be reasonably good.

### Conclusion.

For the past five years I have provided an office in a prominent business block which was close to my suite of living-rooms. I have decided to move into a house in the residential section and feel that I should not be expected to supply such an office further. The central location and accessibility has made this office important to visitors from out of town. Your officials at this point strongly advise that a general office be provided. Two Sanitary Inspectors are required to meet the obligations of the Provincial Board of Health set out in the early part of this report. Field work has frequently prevented prompt replies to correspondence and this has been a matter of outside complaint to the Department. The increase in staff, the urgency and the increase in quantity of correspondence, the number of business visitors from out of town, make the necessity for an office and stenographer almost imperative. Let me commend this necessity to your careful consideration.

# REPORT OF THE BUREAU OF CHILD WELFARE

for the Year 1918

The Chief Officer of Health, Provincial Board of Health, Toronto.

SIR,—I beg to submit herewith the report of the Bureau of Child Welfare for the year ending December 31st, 1918.

### EXHIBITS.

During the year's work emphasis has been placed upon the educational aspect, our chief endeavour being confined to the tour of the Exhibit throughout the Province. Owing to the fact that we have but one nurse, we have been unable to send the Exhibit to the following centres from which we received requests: Mount Albert, North Bay, Strathroy, Ayr, Burlington and Caledonia.

The Exhibit was shown in connection with the following events:

(1) London Child Welfare Week, in February.

- (2) Toronto Household Exhibition, which was held in the Arena Gardens in April.
- (3) Fifth Annual Baby Week in Hamilton, during the meeting of the medical associations in June.
- (4) Ottawa Baby Week, in June.
- (5) Brampton Baby Week, in June.
- (6) Exhibitions and Fall Fairs:

Canadian National Exhibition, Toronto.

Central Canada Exhibition, Ottawa.

Vankleek Hill Fair.

Barrie Fair.

Patriotic Fair, Napanee.

- (7) Tours:
  - (a) Following London Child Welfare Week in February, the Exhibit visited the following points: Windsor, Tillsonburg, Welland, Niagara Falls, and St. Catharines.
  - (b) In May a short tour included Whitby. Oshawa and Port Hope.
  - (c) In July an itinerary was undertaken as follows: Sault Ste. Marie. Fort William, Port Arthur, and Espanola.

Owing to the influenza epidemic, the Exhibit was not shown during the last three months of the year.

A detailed report written by Miss Knox, nurse in charge of the Exhibit, and covering this portion of the work, is appended herewith.

#### LECTURES.

During the year the Bureau, upon request, sent a speaker to the following meetings:

London Child Welfare Week,

Ottawa Baby Week,

Annual meeting of the National Council of Women,

Annual meeting of the Women's Institutes of North Brant District.

Mount Forest Women's Institute,

Annual meeting of the W.C.T.U. at Stouffville.



Canadian National Exhibition, 1918,

### Conventions.

The Bureau was granted affiliated membership in the American Association for the Study and Prevention of Infant Mortality, and was represented at the annual meeting in Chicago during the first week of December, by Miss Knox and the Director, who attended also the annual meeting of the American Public Health Association which followed. Representatives of the Bureau were also present at the Medical Congress in Hamilton in June, when joint meetings of the following organizations were held:

- (1) Ontario Health Officers,
- (2) Ontario Medical Association,
- (3) Canadian Public Health Association.
- (4) Canadian Medical Association,
- (5) Canadian Association for Prevention of Tuberculosis.

### CHILD WELFARE WORK.

Manitoba Province.—In July a week was spent with the Provincial Board of Health of Manitoba, when your representative was given an opportunity to inspect the work which is being done by the Provincial Public Health Nurses. A rural school section north of Dauphin was visited, also Dauphin town.

Three days were spent in the city of Brandon, where the Provincial Board of Health has established a splendidly equipped Child Welfare Station in the Court House; the Board had also recently organized medical inspection of school children of the city. The Child Welfare Exhibit at the Brandon (Provincial) Fair was very complete and attractive, one building being given entirely to public health and child welfare.

At the time of writing the Provincial Board of Health employs eighteen public health nurses for infant welfare and school nursing, all of which work throughout the Province, with the exception of Winnipeg city, is supervised by the Board.

Winnipeg.—The Child Welfare Station and Dispensary maintained by the city of Winnipeg was visited. The institution has modern equipment and is filling a great need. Formulæ for the city's practising physicians are made up and sent to distributing centres where the mothers call.

Chicago.—Advantage was taken of the conventions in Chicago to see the work which is being done by municipal and private agencies in that city along the line of maternal and child care, medical inspection of school children, "Little Mothers' Leagues," etc.

#### CLIPPING BUREAU SERVICE.

The Bureau now subscribes to a Clipping Service covering Canada and the United States, which enables us to keep in touch with the various developments of the work.

### INFLUENZA EPIDEMIC.

Following a public meeting held in the Parliament Buildings on October 16th. for the purpose of organizing voluntary workers for service during the epidemie of influenza, the registration of the helpers who were known as "Sisters of Service" was undertaken in the office of the Bureau. Approximately 375 volunteers were listed and in 481 cases assistance was supplied.

### SUMMARY

As stated in the report of the Bureau last year, our work is concerned chiefly with the stimulation of local interest in Child Welfare work and giving to the municipalities all assistance possible in connection with the organization of the service on a permanent basis, whether under the supervision of the civic department of health or a private agency.

It is gratifying to be able to report that during the year many new centres have organized for the work, making the present total ten (10) as compared with four (4) a year ago.

### ONTARIO MUNICIPALITIES HAVING CHILD WELFARE CLINICS.

1917	1918	Supervision	Clinies
Hamilton	Hamilton	Local Board of Health	5 per week.
	London	Local Board of Health London Child Welfare Association Social Service League Victorian Order of Nurses Medical Officer of Health Medical Officer of Health Victorian Order of Nurses	3 per week. 1 per week. 1 every two weeks. 1 per week. 1 every two weeks.

All of which is respectfully submitted.

MARY POWER,

Director, Bureau of Child Welfare.

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## REPORT OF NURSE IN CHARGE.

In presenting a report upon the work of the Child Welfare Exhibit during 1918, I may say that the Exhibit was on tour from the first week of February until the outbreak of influenza in October, and was shown on 22 occasions, varying in length of stay from one day to two weeks.

Feeling that the mothers and children derive more benefit if a clinic or conference can be held, this year we requested each centre to make provision for this service in connection with the Child Welfare Exhibit. The table given below shows the number of defects found among the children attending the clinics for which records were available.

The clinic, sometimes called child welfare conference or consultations for mothers, consists of:

- (1) Weighing and measuring of the child by a nurse.
- (2) Examination by a physician.
- (A sample of eard now in use is shown herewith.)

No treatment whatever is given, all cases requiring medical care being referred to the family physician. It does, however, give the mother an opportunity to dis-



Canadian National Exhibition, 1918.

the a we

cuss with the doctor matters pertaining to the baby's health. That the service is appreciated is shown by the fact that in every centre without exception mothers have expressed their thanks, and, where the work was not being carried on permanently, a wish that they might have the advice and help always available.

If permanent work is to follow the Exhibit clinic, it will be done by the local medical profession. Our usual procedure is, therefore, to have the committee request the local Medical Society to appoint the medical attendants for the Exhibit clinics. In this connection, I wish to express our appreciation of the splendid co-operation on the part of the physicians throughout the Province, who have given so generously their time and services to the mothers and babies of their respective centres.

(Name of Municipality)	
Name:	Ondersia .
Measurements— Height:ins. Abdomen:ins Feeding—	s. Head:ins. Chest:ins.
Mixed: Yes No fromtoNo.	Mos. Specify. Specify. Specify.
Defects—  1. Eyes 2. Ears 3. Nose 4. Throat 5. Teeth	
6. Skin	Doctor's Signature

(Clinic Card, Bureau of Child Welfare, Provincial Board of Health, Ontario.)

### London.

For their first Baby Weck, held in Februray, 1918, London's Child Welfare Committee secured the organized assistance of the press, the city's hospitals, physicians and nurses; co-operating with the Bureau of Child Welfare they arranged clinics and exhibits; lectures and entertainments were provided which aroused the interest of the whole community.

The exhibit and clinics held in the Y.M.C.A. Building were well attended. Five hundred babies were weighed, measured and examined by the doctors and nurses during the week. Interest in the work never flagged, the last day having as large an attendance as the first.

The Exhibit was displayed in a large, bright room where it showed to the best advantage. We were much gratified with the interest manifested in the various posters, models and infant's layette.

Various local institutions and committees gave practical demonstrations in the care of the sick. The Victoria Hospital exhibited a contrast in obstetrical rooms. On one side of the partition an aseptic room, efficient, but quite within the means of the average home: on the other side, an example of the too common kind—dark, untidy, unsanitary and dangerous, a breeding-ground for disease.

The dictitian from Victoria Hospital, assisted by the nurses, prepared infant feedings and the proper dicts for children from twelve months to six years. Xutritious school lunches were also temptingly displayed. The demonstrators were kept busy answering questions regarding the preparation of the different dicts.

St. Joseph's Hospital showed how a mother could use the ordinary articles

in her own home to prepare an efficient emergency croup tent.

During the afternoon, in the auditorium, moving pictures provided by the Provincial Board of Health educated the school children along health lines. Musical drills by the children, singing and addresses added to the enjoyment of the entertainment.

Every evening a very interesting programme, including addresses by prominent doctors and music by local talent, was given to enthusiastic audiences.

It was a big week, full of hard work on the part of directors, doctors and nurses, but the result fully justified all the expenditure of time and energy and money.

London now has a permanent Child Welfare Association employing a full-time nurse, and is doing splendid work.

### St. Thomas.

At St. Thomas the coal shortage made immediate work impossible, but a committee was organized and plans drawn up for the holding of a Baby Week at a later date.

### Спатнам.

Chatham had previously sent a request for the Exhibit, but on our arrival there the Medical Officer of Health had to cancel all arrangements on account of the general smallpox quarantine.

### Windsor.

Windsor Baby Week was held at the request of the Medical Officer of Health. The Essex County Association of Nurses, the Local Medical Society, and the Women's Auxiliary of the Hotel Dieu combined to make the event very successful. The mothers who attended the clinic urged that the service should be made permanent. A splendid programme was given each evening.

### TILLSONBURG.

The Exhibit visited Tillsonburg at the request of the Medical Officer of Health, but owing to severe weather only fourteen babies attended the clinic. Moving pictures, telling the story of various phases of Health work, were shown in the evenings and were thoroughly enjoyed by large audiences.

### NIAGARA FALLS.

The Medical Officer of Health in Niagara Falls assisted in every way possible, and although the number of children attending the clinic was small, many interested mothers came to receive advice in regard to the care of their children.

The schools released their pupils during the afternoon to attend the special session held for them each day.



Canadian National Exhibition, 1918.

### WELLAND.

The Exhibit and moving pictures were shown in the Town Hall. A clinic was held, but the attendance was small, owing probably to the severe weather. Several companies in Welland are employing industrial nurses for nursing work among the employees and their families, and we hope some permanent child welfare work may be established in the town.

### ST. CATHARINES.

The Exhibit was held in the gymnasium of the Collegiate Institute, one of the interesting features being an exhibition of the work of the students in the manual training, art and domestic science classes. The city engineer's department supplied an instructive exhibit illustrative of proper installation of plumbing, sewer connections, etc., while discs used in a recent "dirt test" of the local milk supply attracted a great deal of attention. No, clinic was held in connection with the Exhibit. Capt. D. A. McClenahan, District Officer of Health, gave an address in the evening, which was followed by the moving pictures.

### WHITBY.

Whitby was visited early in May under the auspices of the Committee of the Victorian Order of Nurses. With the aid of voluntary helpers and Dr. Burns of the Military Hospital, assisted by Dr. McGillivray, very interesting clinics were held on two successive afternoons. The school children exhibited many specimens of their work in art, manual training, etc. Prizes were given for poster work.

Moving pictures were shown to the school children in the afternoons, and the evening programmes were very instructive,

A permanent Well Baby Clinic has been established in Whithy under the Victorian Order of Nurses as a result of this endeavour.

#### OSHAWA.

Under the auspices of the Children's Aid Society the Exhibit was shown in the Town Hall. A very interesting programme was given on the evening of the first day, when the short play "Prejudice" was staged for the first time in Canada.

The Local Committee discussed the possibility of permanent Child Welfare Work in Oshawa, the Superintendent of the Hospital expressing the desire that a clinic be established in connection with that institution.

#### PORT HOPE.

The Exhibit was sent to Port Hope for two days in May. Following our preliminary visit, when a committee meeting was held to discuss plans, the Women's Auxiliary of the General Hospital procured lists of children under six years from the Town Clerk and the church eradle rolls. The town was later canvassed and a personal invitation extended to the mothers to attend the clinics. That the results justified the time and energy spent was shown by the attendance at the clinic.

The Exhibit was shown in the Town Hall, where clinics were possible on both afternoons, owing to the co-operation of the local medical men, all of whom helped in the work. The Superintendent of the Hospital, an enthusiastic supporter of the work, generously supplied the nurses for the clinics.



Espanola Baby Clinic.





Port Hope Baby Clinic.

The week following this Exhibit a permanent Baby Welfare Clinic was established in connection with the hospital, the visiting staff of six attending the weekly clinics in rotation.

#### BRAMPTON.

One of the most attractive exhibits of 1918 was held in Brampton in June. The Agricultural Representative, Mr. Stark, and his assistant, Miss K. McIntosh, were responsible for the success of the campaign. The Exhibit was held on two days, the town and surrounding country being divided into east and west districts, and each allotted its particular day. As a result of the complete organization practically every mother of small children in Brampton and vicinity attended the clinics which were conducted by the local doctors. A splendid programme was given the first evening, including addresses by Col. J. W. S. McCullough. Chief Officer of Health, and Miss Chapman, while the children gave musical drills which showed long and careful preparation.

Small tags as shown below were given to the school children, who wore them upon their coats during the preceding week.



SAULT STE, MARIE.

We arrived in Sault Ste. Marie on July 4th and stayed a week. During that time 96 children attended the clinics, were weighed, measured and examined, and advice regarding their condition given to the mothers. A model obstetrical room and nursery were exhibited by the school nurses. Following the moving pictures provided by the Provincial Board of Health, addresses were given each evening on various health subjects.

### ESPANOLA,

On July 5th the first Baby Clinic was held in Espanola. The situation there is rather unique. The Spanish River Pulp and Paper Mills Company own the town and employ a doctor who is the Medical Health Officer as well. In some instances, where it was impossible for the mother to attend the clinic, the service was extended to the homes, seventy-five children being inspected in this way. This was Ontario's first experience in motor clinics. The physician examined the babies, while the nurse weighed and measured them in the home, the equipment being transported in a motor car upon which were displayed attractive posters on Infant Care. In this connection the work of Mrs. Hussey is worthy of mention, because without her assistance it is doubtful whether the preliminary or the permanent work could have been carried on so successfully in view of the fact that there was neither a hospital nor a practising nurse in the town.

The result of this was that a permanent clinic has been established in Espanola, with 200 babies on the roll. The doctor informed us later that the fame of the clinics had become so widespread that mothers bring their babies twenty-five miles on the train to attend the clinics.

### FORT WILLIAM.

Previous to the summer of 1918 Fort William employed a Child Welfare nurse, who did splendid work, but was, unfortunately, employed only for the summer months. However, she proved the extreme need of such assistance in Fort William and is now a permanent employee of the local Board of Health. During our visit 62 babies attended the Exhibit clinic. McKellar Hospital was very kind in sending nurses each afternoon to assist in weighing and measuring the babies. Lectures were given on various health subjects every evening by local doctors. Music by local talent and the Board of Health films made the evening sessions interesting and instructive.

#### PORT ARTHUR.

The clinic was held in the Technical High School, which is situated in the residential section of the city. It was found that the foreign mothers were rather backward in availing themselves of the opportunity to have their little ones examined, on account of the distance between their homes and the Technical School, and a supplementary clinic was opened in a settlement house in the coal dock area. The result was very gratifying, and showed that the people were ready and willing to learn the best methods in regard to caring for their children. The doctors who assisted at the clinic took great interest in the work, and expressed the hope that a local clinic would soon be established.

### BLIND RIVER.

Our stay in the next few places visited was necessarily short on account of the approach of the Canadian National Exhibition. We aimed merely to investigate conditions, and while opportunity presented itself to make a plea for Child Welfare Work.

At Blind River we attended a meeting of the Red Cross Society and explained the work of the Bureau. Such work, we were told, is sorely needed in the town and surrounding district.

There is a small but very efficient private hospital in the town, but outside the hospital trained nurses are not obtainable.

#### SUDBURY.

In the absence of the Medical Officer of Health, the Sanitary Inspector very kindly arranged for us to make at least a superficial survey of the local situation. One institution of special interest was the General Hospital, which is an excellent building and has splendid equipment, including provision for the care of sick children.

The Superintendent gave us assurance of the hearty co-operation of the hospital in the event of the town authorities undertaking a scheme of Child Welfare Work.

### PARRY SOUND.

While in Parry Sound we visited the office of the local Board of Health and had an interview with the Medical Officer of Health. We were also able to see the two hospitals. The town authorities are interested in Child Welfare Work, and at that time were contemplating employing a school nurse, and requested that the Child Welfare Exhibit be sent to Parry Sound.

### CANADIAN NATIONAL EXHIBITION.

The accompanying photographs will convey some idea of the scope of the Child Welfare Section of the Public Health Exhibit at the Canadian National Exhibition this year. Owing to the fact that the anthorities allotted us additional space it was possible to provide for the following:

- (a) Medical clinic for infants and children under six years.
- (b) Medical clinic for children six to sixteen years.
- (c) Dental clinic for children up to sixteen years.
- (d) Rest room for mothers with infants.

In addition to the above, portions of the exhibit were devoted to various branches of infant and child care, while demonstrations of proper methods of bathing, clothing and preparation of artificial food for babies were given each afternoon.

For supervision and service in connection with the work of the clinics our best thanks are due to the splendid co-operation of the Department of Public Health of the City of Toronto, whose physicians, dentists and nurses, by their gratuitous help, made the service possible, two physicians and a dentist being in attendance every day of the Exhibition.

The total number of children handled in the Exhibit was approximately one thousand, five hundred and eleven of which were examined in the clinics.

We were fortunate in securing the services of Miss K. E. Osborne, R.N., to assist us in the work at the Canadian National Exhibition, who also accompanied the Exhibit to several of the Fairs immediately following.

### OTTAWA EXHIBITION.

Following the Canadian National Exhibition, the Exhibit went to the Ottawa Exhibition. In this connection we are very much indebted to Daly's, Limited, for their very kind assistance in lending furniture and toys to us, without which we could not have shown a model nursery and play yard.

An attractive display of diets for children from twelve months to six years

was arranged by the General Hospital.

Demonstrations in clothing, bathing and preparation of food were given by our nurse every afternoon. There was no clinic in connection with this Exhibition, but a Baby Show was conducted under the auspices of the Victorian Order of Nurses.

### VANKLEEK HILL.

From Ottawa the Exhibit went to Vankleek Hill fall fair. Owing to weather conditions it was found impossible to conduct a clinic. Demonstrations were given in the nursing care of children by our nurse.

#### BARRIE.

Under the auspices of the Simcoe Medical Society the Child Welfare Exhibit was sent to the Barrie fall fair. In addition to the usual nursing demonstrations, a scientific Baby Show was held, members of the County Medical Society examining and judging the babies.

Boys 1 to 6 months. Boys over 6 months and under 12 months. Boys over 12 months and under 18 months. Girls 1 to 6 months. Girls over 6 months and under 12 months. Girls over 12 months and under 18 months.

\$60.00 was donated for prizes, \$20.00 of which was contributed by the Simcoe Medical Society. For each section prizes of \$5.00, \$3.00 and \$2.00 were awarded.

The Superintendent of the hospital sent nurses, and trained nurses off duty very kindly volunteered to help in the weighing and measuring. Twenty-eight babies were entered.

### NAPANEE.

At the request of the Women's Committee of the Patriotic Fair, a small exhibit was sent to Napanee in October. The local doctors gave their services in connection with the clinics, which were very well attended. The local committee, assisted by the agent of the Children's Aid Society, did splendid work before the Exhibit by advertising, canvassing, etc., and also supplied trained nurses to assist in the work of the clinics.

No exhibits were held after the first week of October owing to the epidemic of influenza.

The statement given below is a summary of defects found upon examination among children attending clinics in connection with the Child Welfare Exhibit for which records were available.

1918.

Table showing defects found among children under six years who attended clinics in connection with Child Welfare Exhibit, Provincial Board of Health of Ontario.

Town	Diseased Tonsils	Decayed Teeth	Adenoids	Enlarged Thyroid	Total No. Defects	Attend- ance
Windsor Tillsonburg					8	76 14
Niagara Falls						9
Welland			1		. 1	6
Whitby	2	1		1	4	15
Oshawa						7
Port Hope	1	1	4	3	9	4.5
Brampton	35	9	11		55	157
Sault Ste. Marie	19	10	17	1	47	96
Fort William	4	3	7	1	15	62
Port Arthur	7		1		8	45
Espanola	7	3			10	163
Toronto only)	1	2	1		4	86
Napanee	11	$\bar{6}$	1		18	31
Total	91	35	47	6	179	812

All of which is respectfully submitted.

B. Knox,

Nurse in Charge.

# Report of the Provincial Medical Inspector DR. R. W. BELL

### REPORT re PROPOSED OAKLAWN CEMETERY.

To Dr. J. W. S. McCullough, Chief Health Officer, Ontario.

As requested by you I yesterday (October 14th) visited the site of the proposed Oaklawn Cemetery, a short distance beyond Willowdale, on Yonge St., in Township of York, about seven miles north of Bloor St. The site is as yet only farm land and in use as such, and is as described in the description and shown on the plans furnished by the company through the local Board of Health, and is on the east side of Yonge St., with Finch Avenue as a northern boundary. From a sanitary point of view I can see no objection to its establishment, the drainage being provided for to a distant point several hundred yards away from any residence to the east. As to residences, the only ones anyway near-by are one adjoining the south-west corner, two across Yonge St. from this corner and three or four across Yonge St. and Finch Avenue from the north-west corner; none for a long distance north-east or south.

There is now a small cemetery adjoining a church a few yards south on the east side of Youge St. As to the necessity of another cemetery near Toronto, or its effect on the value of property. I have no means of knowing. A large number of the objecting petitioners live from a half to a mile or more away from the site.

### REPORT re 510 YONGE ST., TORONTO.

To Dr. J. W. S. McCullough, Chief Health Officer, Ontario.

Sir.—As instructed by you, I visited the premises 510 Youge St. to-day, where was said to be carried on the manufacture of some medicine by one John McDonald, an applicant to the License Commissioners for a permit to purchase fifty (50) gallons of alcohol. I beg to report that there is no place there which can be characterized as a manufactory. It is simply a dwelling house, where Mr. McDonald, an aged man (71) lives with his daughter and her busband, and any medicine prepared is done in the kitchen and cellar. He states that he prepares a "Rheumatism Cure" from roots and herbs, which he gathers on the south shore of Georgian Bay, where he was a lumberman for many years and learned of their good properties. These he boils in the kitchen and makes an infusion, then adds one quart of alcohol to each gallon, and sells in small bottles to be used only as a liniment. His whole output last year was less than five gallons, and is only sold to those who apply for it. He has no stock of bottles nor labels on hand and no money to buy them.

In the cellar, the full size of the house, I found in one corner two 5-gal., one 2-gal., and half a dozen 1-gal. jars and coal-oil cans, in which was a small quantity of his remedy, an extremely bitter mixture, which I tasted, and is certainly not palatable for a beverage, although he states it was harmless if taken inwardly, but only intended for external use.

The cellar contained nothing else except a dirty chest with a few tools, a few stove-pipes and a broken chair. The place was dirty and unsanitary with a heavy odour, and his jars covered with dust and dirt, an accumulation of many months. He says he is endeavouring "to form a company" to provide means to manufacture his remedy on a larger scale, and should be succeed be might require the quantity of alcohol asked for in his permit. The premises are quite unsuited from a sanitary point of view for the proposed object, and even for the present limited output they require cleaning up, especially the containers.

Herewith is attached an advertising circular which he issues, which indicates

the nature of his manufacture.

All of which is respectfully submitted.

### REPORT re 106 FRONT ST., TORONTO.

To Dr. J. W. S. McCullough, Chief Health Officer, Ontario.

Sir.—As instructed by you I visited yesterday the premises of "The Turner Company," 106 Front St. East, Toronto, which were reported to be in an unsanitary condition. I find one Harry Goodman is now the proprietor and using the name of the Turner Company which he bought out some four months ago. The business consists of the manufacture and bottling of wines, essences, liniments, etc., and is conducted on the ground floor and basement. The latter, about 50 x 20 feet, is used for storage and casks of native wine, empty barrels, boxes, etc. The ground floor, about 120 x 20 feet, is the workroom, with small office, used for bottling and packing. I found all floors very wet and dirty, the stairs particularly so. I do not think the stairs or basement have been cleaned out for years. All floors are of cement. The proprietor says he has the ground floor washed every couple of weeks as a rule, but not done lately, because water would freeze on the floor and make it slippery. The whole place at present is very untidy, damp and unsanitary, and quite unfit for the work carried on. The proprietor promised to have all cleaned up within the next two days. If he does so and keeps the place clean, I should not then say, from a sanitary point of view, that the premises were unfit for the work carried on therein.

### REPORT re INFLUENZA, ETC., AT BURWASH PRISON FARM.

To Dr. J. W. S. McCullough, Chief Health Officer, Ontario.

As instructed by you I visited the Burwash Prison Farm on Saturday, 9th instant, particularly with reference to the present epidemic of Influenza and the provision made for the care and treatment of those affected.

I find there are five camps on the farm, two of which (Nos. 3 and 4) are not just now in use. No. 5, a logging camp, 312 miles by winter road from No. 2, the principal camp, is the smallest in use, with 34 inmates, and having no cases of Influenza, was not visited. The site is well isolated and difficult of access. No. 2 camp, the largest and principal camp, one mile east of the C.N.R., has a total of 173 inmates, well provided for in dormitories.

There have been about 100 cases of Influenza here, with 20 deaths, mostly from pneumonia and one complicated with scarlet fever. At present there are 15 cases in the hospital ward, 8 with pneumonic symptoms. This ward is about 75 x 20 x 13, with accommodation for 25 patients. The ward is well lighted, ventilated and clean. Several convalescent patients had been returned to the regular dormitory. In the regular dormitory there are three tiers of bunks, too many to be satisfactory, but a large addition is in course of erection, when there will be accommodation for 200 in two tiers and the third will not be used except in case of emergency. Better hospital accommodation will be provided in this new wing. The sanitary surroundings of this camp are satisfactory, excellent spring water provided and good sewage disposal by tanks and subsoil drainage. 134 miles of farm tile being used for distribution under the sewage bed.

No. 1 camp, 5 miles east of No. 2, close to C.P.R. line, has 86 inmates. Here there have been about 50 patients, with 4 deaths. At present 5 in hospital ward about 25 x 15 x 13, and well lighted and ventilated. One of these patients has pneumonia; the other 4 convalescent. There has been here 4 cases of mumps in a separate ward, but all now are convalescent. The sanitary surroundings here are also satisfactory, with splendid spring water and good sewage disposal.

The epidemic is evidently abating, as there has only been one new case in past three days. Of the 24 deaths (all within 2½ weeks) I find only 4 were over 30 years of age, 10 were between 20 and 30, and 10 more under 20 years. This corresponds to the reported experience all over the country. The medical care of the patients at No. 2 camp was in the hands of a resident physician, Dr. Butler (just himself recovering from influenza), and two senior students, with a sufficient staff of nurses, two additional nurses arriving on the same train with me. Dr. Hodder is in charge at No. 1 camp, but I missed seeing him, as he had driven over to No. 2, arriving just before I left to go to No. 1, and I was not aware he was there. I have to thank Mr. Neelands, the superintendent of the camp, for courtesies extended and every effort to give me all information required.

### REPORT re NUISANCE IN TOWNSHIP OF WATERLOO.

To Dr. J. W. S. McCullough, Chief Health Officer, Ontario.

As directed by you I visited Kitchener and Township of Waterloo, adjoining that city, on Thursday, 26th instant, to investigate a nuisance complained of by the township local Board of Health. Accompanied by the members of the local Board and their Sanitary Inspector I viewed the complained of nuisance, located in a woods belonging to Mr. A. B. Campbell, close to the city boundary. This Mr. Campbell has a three years' contract for the removal and disposal of the garbage of the city of Kitchener beginning in April last. Since that date he has been depositing all the city garbage along a roadway and for several yards on each side of it through this bush for a distance of a couple of hundred yards commencing at the entrance from one of the main travelled roads leading into the city. dump consists of almost every imaginable kind of refuse collectable in the city. such as ashes, cast-off clothing, filthy dirty paper, wire, tin, sheet-iron and enamelled ware, decomposing animal and vegetable matter, such as found in empty fish, meat, fruit and vegetable tins, meat bones, vegetables, fruit from kitchens, waste, etc. Rooting through this were over thirty hogs, old and young, which with their added filth made the worst mess and dump I have ever seen in fourteen years experience with the Provincial Board of Health. Nothing was covered, burned or buried, and apparently no effort made whatever to prevent causing a nuisance which is becoming daily a greater menace to the health of the community. were, in places, sickening from the horrible mess.

Referring to the report of Dr. T. J. McNally on this same nuisance made on 20th July last, I can say that I can corroborate every word of it, excepting that at the time of my visit there were few flies, the weather being unfavourable, but in other respects the conditions were, if possible, very much worse. I saw Mr. Campbell on the premises, and in reply to my expressed surprise at his method of disposing of the city garbage, he contended that he was justified in so disposing of it so his hogs could fatten on what they could root out of it. He also contended that there were other nuisances as great as his, indicating a nearby slaughter-house just inside the city limit. This I also visited, and found some blood and washings running from it through a sewer pipe into a rivulet which discharged into a small creek running swiftly through Campbell's woods and which also gets the soakage from his garbage dump.

I called later on the City Medical Officer of Health and also the Mayor and drew their attention to the necessity of having the slaughter-house discharge remedied. The latter disavows all responsibility of the city for the nuisances from Campbell's dump, as he thinks their contract with him places all on him. Itowever, the nuisance is such that it should be abated without any delay.

All of which is respectfully submitted.

### REPORT re NUISANCE IN TOWNSHIP WATERLOO (2ND).

To Dr. J. W. S. McCullough, Chief Health Officer, Ontario.

As instructed by you I visited the Township of Waterloo, adjoining the city of Kitchener, on Tuesday, November 5th inst., to investigate a nursance caused by disposal of garbage from the city. This same nuisance I examined on September 26th last, and reported on it the following day.

I beg now to report that on my visit vesterday I found the nuisance still-existing just as it was in September, with the additional deposits of a largely increased quantity of garbage, similar in nature to that before described, a few yards nearer the city boundary, and much more exposed on the bank of and into the creek which empties a few hundred yards farther down into the Grand River, then flowing through Galt, Brantford, etc. At the more recent deposit a meagre attempt had been made to cover a small section of it with a few shovelfuls of earth, but the hogs were rooting it up so that the covering was scarcely observable. The soakage from the whole dump naturally reaches the creek. If this continues a terribly unsanitary condition will exist next spring, when melting snow carries the filth into the stream, and the following warm weather causes further decomposition. The whole situation is a nuisance, which should be abated at once.

# REPORT re ALLEGED NUISANCE FROM TURNIP FACTORY AT NEW TORONTO.

To Dr. J. W. S. McCullough, Chief Health Officer, Ontario.

A complaint having been received re a nuisance existing in New Toronto I visited that municipality yesterday. November 1st, and found the cause to arise principally from a turnip factory located close to the north side of the Grand Trunk Railway line and situated in Etobicoke Township.

The factory is working on a Government war contract. The water supply is furnished from the New Toronto civic system. The turnips are washed and peeled by machinery, the effluent being discharged into an open tank in rear, where the grosser material is held by a screen and the liquid discharged through a few feet of tile into a small stream which flows underneath the railway track and across a corner of New Toronto, thence through the asylum grounds to the lake. There are a few residents at no great distance, say from fifty to three or four hundred yards, from the stream, which is a mere rivulet, and who complain of the odour arising therefrom. There is certainly a very disagreeable odour in the neighbourhood of the tank and where discharged into the stream. Farther down and where I crossed the stream I did not detect any odour nor was there any complaint of it at the asylum except when wind from direction of the factory.

The waste settlings in the tank are removed, I was fold, once a week. As the industry is furnishing food for the troops it would be a hardship to shut off the

water supply and stop the whole work. I would suggest that the nuisance might be remedied by putting in a finer secondary screen to catch more of the solids, and then running the effluent through a charcoal filter bed before discharging it into the creek.

The cost of the screen and filter bed, the town engineer informs me, would only be in the neighbourhood of fifty dollars.

I may here add that adjoining the turnip factory there is a cider mill, and beside it only a few feet from the turnip tank is a large dump of apple refuse from which emanates a very unpleasant odour. This should be removed and not allowed to decompose where it is liable to become or add to the nuisance.

The Board of Health of Etobicoke Township should be notified, as the cause of the nuisance arises in that municipality.

### REPORT re NUISANCE AT OAKVILLE.

To Dr. J. W. S. McCullough, Chief Health Officer, Ontario.

Complaint having been received concerning various unsanitary conditions existing in Oakville, as instructed by you, I visited that town on Tuesday, 25th instant, and with the Medical Officer of Health and the Sanitary Inspector looked over the premises at the G.T.R. Station, the Basket Factory, along a lane in rear of the Post Office, yards adjoining the "Star" office and the Rubber Factory. At all except the last foul unsanitary pit closets were found. At the rubber factory a tile pipe carried the overflow from a cement cesspool into an open drain which passed close to several private residences, thence into a creek and to the lake. I strongly recommend that the Municipal Council pass a by-law forbidding the installation of any more pit closets within the municipality and the abolition within a reasonable time of those already in existence, and wherever any property abuts on a street having a sewer, connection therewith be required. Where no sewer connection is available that the dry earth and bucket system be compulsory. As the latter can be installed at an expense of only a dollar or two or even less there is no reason for permitting the foul pit system which is so offensive to both eye and nostrils as well as a menace to health. In one yard (west side of "Star" office) a large dump, apparently the accumulation of years, was seen with human excreta on it and wet with slop water. This should be removed. The rubber factory connection with the open drain should be abolished, and I also here advise sewer connection.

# Report of the Provincial Sanitary Engineer

F. A. DALLYN, C.E.

To the Chairman and Members, Provincial Board of Health, Ontario.

Gentlemen,—I have the honour to submit the following report upon the work of your engineering department for the year 1918. The following applications were received and approved of:—

Waterworks extensions	52	certificates	\$526,968.38
New supplies and equipment	10	"	353,050.00
Water Purification	3	"	100,000.00
Sewer extensions	75	"	569,892.86
New sewerage systems	3	"	7,259.30
Sewage disposal works		"	33,512.85
			<del></del>
Re sewerage	81	"	\$610,643.01
Re water	65	"	980,015.38
1	46	\$	31,590,658.39

The total as above shows a further decline in municipal improvements being the result of the war-time tension. It would be interesting for you to note that the work now undertaken by the Board has reached considerable magnitude as is shown by the following summary for the years 1915 to 1918.

1915—Total	applicat	ions	286;	Total	estimated	cost	• • • • •	\$4,679,496.94
1916—	""		190;	"	"			2,010,070.42
1917—	"		186;	"	"			2,880,534.72
1918	"		146;	"	"			1,590,658.39

The work which has been carried on since organization of the engineering-department in respect to purification and improvement of water supplies is now beginning to show very satisfactory results, and while there has been a general decline in typhoid rates in the United States as well, for the same period, this also is to be attributed to the improvement of water supplies, installation of filters and in general a more thorough supervision of the quality of waters.

The figures for Ontario are very well shown in the following table:

Table No. 1.—Annual Death Rate from Typhoid Fever per 100,000 of Population. Period 1908-1918.

Rate for	1918	1917	1916	1915	1914	1913	1912	1911	1910	1909	1908
County	5.09	6.58	8.1	9.45	10.0	13.3	10.9	16.1	22.0	25.1	20.5
City	9.6	7.5	12.1	9.43	12.4	17.3	27.7	35.8	51.5	34.3	37.8
Towns	17.2	31.4	52.2	38.0	47.4	46.0	47.0	62.3	56.4	67.7	107.1
Average for Prov	7.52	8.4	12.5	10.7	13.5	16. 7	18.7	25.3	31.5	29.9	29.7

In Table No. 2 the individual rates for the cities are set out in detail. Table No. 1 showing general rates for the Province for rural and urban municipalities directs one's attention especially to the continuance of a high typhoid rate for the towns.

. 1908-1918 ONTARIO CITIES.

TABLE NO. 2.—DEATH RATE PER 100,000 OF POPULATION FROM TYPHOID FEVER.

City.	1918	1917	1916	1915	1914	1913	1912	1911	1910	1909	1908	Remarks.
Belleville	0	26	81	63	17	18	37	19	50	40	71	
Chatham	183	21	46	8	16	58	11	30	39	68	49	Filters and
Fort William	0	0	9	22	21	30	33	35	83	106	111	Chlorination
Galt	0	0	25	0	17	27	19	31	42	11	43	Springs.
Guelph	6	6	0	12	12	6	6	13	27	69	21	01 7 1
Hamilton	5	4	4	6	7	14	8	24	15	$16^{-1}$	19	Ok. Lake Ontario.
Kitchener	10	5	0	5	11	6	19	7	43	15	15	Springs.
Kingston	22	9	5	28	43	25	32	26	78	31	31	
London	2	5	2	0	9	3	10	17	4	6	12	Springs.
Niagara Falls	8	8	27	9	34	85	44	90	60	26	84	
Ottawa	6	5	18	24	17	19	108	101	28	24	31	
Peterborough	8	0	14	14	25	10	10	17	29	6	18	
Port Arthur	0	20	21	5	50	146	163	121	178	164	138	
Sarnia	41	62	60	34	26	45	139	148	101	82	110	
St. Catharines	10	6	22	0	6	27	22	71	24	24	0	
St. Thomas	35	31	29	29	0	50	19	19	20	34	49	Filters.
Sault St. Marie	26	46	31	24	84	127	85	280	154	90	68	
Stratford	0	0	12	17	6	6	20	13	34	34	14	Wells.
Foronto	3	1	7	2	9	13	14	24	46	25	21	
Welland	68	172	-3	¥.	82	128	39	58	85	0	0	Chlorination
Windsor	18	38	29	35	27	10	38	34	49	56	63	badly supervised
Woodstock	10	10	28	10	0	10	30	42	21	21	32	Springs.
Cities Ontario	9.6	7.5	12.1	9.43	12.4	17.3	27.7	35.8	51.5	34.3	37.8	
Towns Ontario	17.2	31.4	52.2	38.0	47.4	46.0	47.0	62.3	56.4	67.7	107.1	
Rural counties.	5.09	6.58	8.1	9.45	10.	13.3	10.9	16.1	22.0	25.1	20.5	
Ontario Prov	7.52	8.4	12.05	10.7	13.5	16.7	18.7	25.3	31.5	29.9	29.7	
United States	*	13.4	13.3	12.4	15.4	17.9	16.5	21.0	23.5	21.1	24.3	
Quebec Prov	• • • • •	29.15	24.2	21.4	19.9	19.0	24.3		,			

Note.—Heavy line indicates year in which Bacteriologic control took effect. * Returns not available.

The activities of the Board for the past seven years have almost entirely been directed towards the removal and control of the main sources of typhoid transmission, which heretofore appear to have been the city water supplies. The smaller towns for many reasons have not been brought up to a standard which is at all satisfactory in this respect. The principle reason has been the difficulty of interesting the municipalities in water purification programmes involving considerable expenditure. It would appear that the smaller municipalities are not prepared on their own initiative to undertake such work and, I fear, it will be necessary in the near future for the Board to proceed under some of its mandatory powers and require the work to be done in the interests of Public Health. Such municipalities as Carleton Place, Smith's Falls, Oakville, Gananoque, Hanover, Picton, Sturgeon Falls, should not be permitted to continue to supply water for drinking purposes from the present sources without adequate purification and in some cases without re-locating the source of supply entirely.

It is possible that a considerable portion of the difficulty in dealing with the small municipalities might be overcome should the Government embark upon a policy of guaranteeing debentures with respect to water purification and sewerage and sewage disposal. The small municipalities, unfortunately, are rarely able to dispose of their debentures at a much better rate than 6½ per cent. whereas with the backing of the Ontario Government they would probably be able to obtain their money for between 5 and 5½ per cent. If the Government could handle the loan directly for them on a 5 per cent. basis it might be even a more satisfactory arrangement. This would mean an annual saving on each \$100,000 expended, of \$1,000; or possibly a trifle more. As many of the undertakings for the small municipality do not reach more than from \$60,000 to \$150,000 the saving would be of considerable interest to them and might make all the difference in their behaviour towards an improvement.

The requirements of the Housing Commission with reference to the Government loan has directed the attention of many of the smaller municipalities to the need of sewers, and this in turn has shown to the Board the great need for an extensive survey of the Province to determine to what extent municipal sewers are being taken advantage of and in what way portions of the municipalities can be improved by such services. It would appear that the smaller municipalities and housing generally cannot be better served than by the Board assisting them very directly by engineering services and in the consideration of their drainage and water supply problems.

This also appears to be a question. It is the question of plumbing. There is a very decided need for a general regulation respecting plumbing for the whole Province, subject to amendment by the municipalities now having regulations in force, such as the City of Toronto. The rural areas and many of the smaller towns are being very much exploited by unscrupulous supply houses and the character of the work is so inferior that its replacement is only a matter of a few years. A Provincial regulation would overcome a great many of the difficulties now experienced and would insure a satisfactory type of equipment and fittings for the rural as well as the whole organized urban municipalities. Plumbing has until very recently, been considered one of the paramount health problems. Lately there appears to be a tendency to relegate it to other departments of municipal affairs than that of the department of health. It is rather interesting to note that the plumbers are not in sympathy with this movement and that there seems to be a tendency to request the health bodies to again take over supervision of this matter.

During the year the water purification plants at Amherstburg, Oshawa, Rockland, Hawkesbury, Dundas and Weston and New Toronto have been completed. This is a decided gain, the plants at Amherstburg, Oshawa, Rockland and Hawkesbury being of strategic value in controlling typhoid in their respective areas. In every one of these instances the initiative has been taken by the Board, in some instances the mandatory powers of the Board were exercised but in no instance appears any feeling on the part of the municipality but one of gratitude, that their situation has at least been handled in a thoroughly satisfactory manner and that they need no longer be responsible for the spread of water-borne diseases in their counties and throughout the Province.

During the year visits made at the request of the municipal authorities, to Copper Cliff, Hawkesbury, Vineland, Amherstburg, Chatham and Bracebridge. Mr. DeLaporte's absence and the writer's absence on military duty during the latter portion of the year interfered somewhat with the outside service of the Board. The work of the department, fortunately, was not allowed to suffer greatly owing to the services which Mr. Worthington volunteered during your Engineer's absence.

The work of the Experimental Station especially suffered for lack of laboratory assistants. Some work was attempted to determine the relative fertilizer value of the nitrogen of activated sludge and plot experiments were undertaken with very satisfactory results. It is our intention to hold these results for another year and then bring our Experimental Station reports up to date by a substantial Bulletin.

F. A. Dallyn.

# APPROVALS ISSUED FOR SEWER EXTENSIONS, SEWAGE DISPOSAL WORKS AND NEW SEWERAGE SCHEMES IN 1918.

		Estimated Co	st of	
Municipality.	No. of Certificates.	Éxtensions.	Sewage Disposal.	New.
Bonfield	1			\$1,512 85
Burlington	$\frac{-}{2}$	\$31,512 20		42,022 00
Collingwood (Hospital) (Dis.)	1	, , , , , , , ,		
Cornwall	1	630 00		
Crescent Beach (Disposal)	1			
Ford City	2	68,802 23		
Fort Frances	1	7,041 90		
Galt	1	1,175 60		
Goderich	1	4,051 16		
Guelph	1	1,215 00		
Hamilton	5	13,398 75		
Hawkesbury	1			32,000 00
Ignace (new)	1			
Kingston	1	7,247 40		
Kitchener	1	1,441 88		
Lindsay	2	2,783 50		
London	3	20,540 22		
New Toronto	1	1,083 05		
Niagara Falls	2	12,588 44		
North Bay	2	2,306 16		
Oshawa	2	5,093 00		
Ottawa	9	47,677 47		
Owen Sound	1	908 38		
Parry Sound	1	6,590 00		
Pembroke	4	22,582 57		
Perth	2	7,908 54		
Peterborough	1	17,669 24		
Preston	1	477 26		
Renfrew	2	7,913 67		
St. Catharines	2	3,663 22	\$7,259 30	
Sandwich	<b>2</b>	28,761 80		
Sarnia	2	12,099 80		
Sault Ste. Marie	1	20,165 00		
Smith's Falls	4	1,345 00		
Stratford	1	401 00		
Sudbury	1	220 40		
Thorold		3,783 00		
Toronto	2	124,643 92		
Walkerville	3	18,054 32		
Waterloo	2	1,404 67		
Wiarton	1	2,870 00		
Windsor	3	51,561 81		
	81	\$569,870 86	\$7,259 30	\$33,512 85
Summary.			•	
Extensions	75	\$569,870 86		
Sewage Disposal	3	7,259 30		
New	3	33,512 85		
	-	55,512 85		
	81	\$610,643 01		

### CERTIFICATES ISSUED RE WATER MAINS, PURIFICATION, ETC, 1918.

		Estimated	Cost of	
Municipality.	No. of Certificates.	Extensions.	Purification.	New.
Brantford (sale of land)	1			
Burlington	1	\$17,338 31		
Creemore	1	1,600 00		
Crowland Township	1			\$40,000 00
Dundas	3	21,000 00	27,000 00	
Fort Frances	1	5,618 00		
Fort William	1	10,348 83		
Guelph	1	21,903 00		
Hamilton	6	15,556 77		
Hawkesbury	2		50,000 00	27,000 00
Kingston	3	1,870 00		30,000 0
Leamington	1			40,000 0
Lindsay	1	7,694 12		
Matheson	1			43,000 0
Mattagami Pulp & Paper	1			
New Toronto	3	35,000 00		
Norwich	1	20,000 00		
Pembroke	2	14,537 00		
Picton	2	14,928 30		
Port Stanley	1	1,943 15		
Renfrew	1			11,000 0
St. Catharines	2	26,446 90		
St. Mary's (new)	1 .			
Sandwich East	1	3,459 10		
Sarnia (new source)	1			55,900 0
Sault Ste. Marie	2	11,410 68		86,000 0
Smith's Falls	1			12,900 0
Stratford	2			
Sudbury	1	165 28		
Cavistosk	1	2,200 00		
Chorold	2	750 00		7,250 0
Cimmins	1	6,398 00		
Coronto	4	14,963 74		
Weston	2		23,000 00	
Windsor	1	40,000 00		
fork Township	6	231,834 20		
	63	\$526,965 38	\$100,000 00	\$353,050 00
Summary.				
Extensions	0E96 06E 00			
Extensions	\$526,965 38			
Purification	100,000 00	•		
New supplies and equipment	353,050 00			
	\$980,015 38			

### INGERSOLL WATER SUPPLY.

APRIL 18th, 1918.

Sir,—Following your inquiry, as to what had been done at Ingersoll to improve the condition of the water supply, I went to Ingersoll on Friday, April 12th, and in company with Dr. Canfield, the local Medical Officer of Health. Mr. Gafer, the Chairman, Mr. Muir, a member, and Mr. Hall, the Engineer of the Ingersoll Water, Light and Power Commission, I visited the Head Spring, the Rice drain and the farm at Robinson's to determine the extent of the improvement undertaken.

The only change made by the Commission since Mr. DeLaporte visited the supply in 1916, was the ordering of a chlorinating apparatus. This, I was assured, had been continuously operated since its installation. That protection, much needed as it was, has not, however, eliminated all danger, and our laboratory reports continue to show the frequent occurrence of high B. Coli numbers in the tap water.

The town, since taking over the water supply from a private company, and for which they paid \$125,000.00, have made no major improvements whatsoever in connection with sources of water, except the chlorination referred to. In this the town has been criminally negligent and has assumed responsibility for conditions, which, if generally known to the town's folk, would occasion very considerable censure of the officials responsible.

The report of the Board, August 14th, 1916, called the Commission's attention to a condition with which they were already familiar, that is, the presence of cattle in and about the Head Springs. This has not been corrected and at the time of my visit last Friday, the supply from what is known as the Head Springs was of a yellowish colour, due wholly to the extraordinary amount of faecal matter from cattle, which had accumulated on the soggy ground and which was being carried forward with the flow of the springs, directly to the town supply. There can be no excuse offered for a continuance of this condition.

The area adjacent to the Head Springs can be very easily expropriated by the municipalities, by virtue of existing powers expressed in the Muincipal Act, and fences can be maintained so as to prevent cattle breaking through from adjacent fields. The other points shown to be sources of pollution in Mr. DeLaporte's report, are also quite unprotected and one is amazed that more trouble has not been experienced from the unprecedented conditions, in which surface drainage from pastures and barnyards has been so freely admitted to the water supply.

I would urge your attention to the advisability of ordering the town to immediately expropriate and fence off ten or fifteen acres adjacent to and including the Head Springs. I also think it advisable to have this soggy area ploughed up, so as to mix the manure there present with the soil, in order the more readily to accomplish its destruction.

I would also recommend that the dosage of chlorine be very considerably increased and such a quantity used as will maintain the B. Coli content absent in 25cc., this dosage to continue until another source can be obtained, or until filters be added to the existing measures now attempting to cope with pollution.

The Commissioners directed my attention to the fact that they had been recommended to make some investigation of the possibilities of a deep well supply. It seems advisable, and I so recommend that such an investigation be immediately proceeded with. If funds are not available for such work, it seems proper to charge the investigation to engineering services in connection with the necessary improvements, and provide for the expenditure in the same debenture issue.

# RE CANADIAN COPPER COMPANY, WATER SUPPLY TO THE ROAST YARDS.

Dr. George, District Officer of Health, visited this property on April 1st and reported that some six to eight hundred employees were dependent upon two wells and a creek for water supply; one of the wells being exposed to pollution he ordered closed. He requested that the Board's Engineer should investigate the matter further and determine the advisability of requiring the Company to obtain a water supply at Vermillion River.

On June 2nd I went to Copper Cliff, met Dr. McAulay and Mr. Jones, Chief Engineer of the Company. I visited Creighton and the Roast Yard in company with the latter and examined the situation complained of and also visited the point on the

Vermillion River where it is suggested to locate an intake

I am rather against the proposed supply from the Vermillion River, which will be very expensive, probably costing as much as \$40,000.00 and the water itself will, in my opinion, require filtration as a further protection.

I have suggested that the Company explore the ground water supply immediately adjacent to the existing pump house and sink a casing and learn what quantity of water is available at that point. Such a supply will be much cooler and of a better quality than the water from Vermillion River.

The Company have agreed to filter this water in addition, provided that an adequate supply can be obtained. This will not cost them more than a few thousand dollars and they seem very satisfied that the Board should meet them in this matter.

I think it advisable that water mains be extended more generally about the Roast Yards and taps left near the shacks. The well at the creek near the railway tracks should be closed as it is receiving drainage from the dump near by and the top has been badly damaged by the frost.

Another matter to which my attention was directed was the absence of incinerators about the camps. I think it would be advisable for them to introduce the use of much the same type of incinerator as those now being used in the military camps—those manufactured by A. H. Reid, 69 Rowanwood Ave., Toronto. These would serve for their requirements very well and their use would do away with the unsanitary dumps and a fly nuisanee which exists adjacent to the camp. This matter was called to the attention of the Managing Director and he agreed with us and promised to have the condition improved.

F. A. Daliyn.

# Report of Sanitary Inspector

North Bay, Ont., March 31st, 1919.

From Alex. R. White, Provincial Sanitary Inspector, North Bay, to the Provincial Board of Health for Ontario.

I have the honour to submit for your consideration my second annual report,

covering the year 1918.

While this appointment devolves upon me all the duties of a Provincial Sanitary Inspector, which necessitates my visiting and spending a considerable portion of my time in organized municipalities, sometimes by request of Local Boards of Health, I am nevertheless trying, when time will permit, to make a specialty of carrying out the Public Health Act and the regulations as affecting the unorganized territory. This I am finding increasingly difficult, for two reasons. Firstly, the tremendous territory to be covered, with the resultant waste of time going to and from the work to be visited, and secondly, the enormous duties to be performed which we have knowledge of as requiring attention. This work covers the inspection of lumbering, mining and construction work, and, of course, embrace's the inspection of a large number of small towns and villages, which, owing to their hasty formation, oftentimes occasioned by some boom, perhaps the result of a gold discovery, or the construction of a power plant, or paper mill, require frequent and careful attention from your officials, if such diseases as typhoid fever are to be prevented. I have, therefore, knowing that it was impossible to cover the whole district, been devoting much of my time to certain localities which are known to us as danger spots and where outbreaks of diseases might be expected if careful inspection and supervision were not provided.

### MILEAGE TRAVELLED WITH EXPENSE TO THE BOARD.

During the year I have travelled 17,507 miles, principally in Districts Nos. 6 and 7, at a total expense to the Department, including railroad fares where no passes are provided, of \$890.64.

### LUMBERING STATISTICS.

Returns made to the Department by the various Crown Timber Agents throughout the Province, show that we have 135 companies operating during the 1918-19 season, and it should here be noted these figures and statistics cover a period from October 1st, 1918, to March 31st, 1919, known as the lumbering season, and all other matters dealt with in this report, however, cover the year 1918 only.

These 135 companies I find on inquiry, and by reference to the reports of contracting physicians, give us a total of 490 camps; add to this the various concerns who are lumbering on patented lands and so on where no timber dues are paid, and of which we have no reports from these agents, we may possibly have 600, employing roughly 19,000 men. Of this number of companies said to be operating, 117 have supplied the Board with information and have contracted with a qualified physician for the sanitary supervision of the camps, works, etc., in compliance with the regulations governing this class of work, and while the

information received is anything but satisfactory, and necessitates a huge amount of correspondence before acceptance, it still shows a marked improvement over

the year 1917.

Under the regulations the contracting physician in unorganized territory is required to make a monthly report to the Board, setting forth conditions at these camps after inspection. Our records show that we have 57 physicians engaged in this work, and from whom we have received 146 reports, but as this total is very largely made up by some 10 physicians who report fairly regularly, it will be seen that there are many who, aside from the short report sent at the commencement of the season, seem to neglect this very important matter for the rest of the year at the Board's expense.

### CAMP STATISTICS.

The number of camp inspections made by me during 1918 were 84, as compared with 113 during the previous year. This discrepancy is due to the fact that very few companies were able to start work until late in the year, due, I believe, to the very wet fall, as well as to the prevalence of influenza and the acute labour shortage. Most of my inspections were made, therefore, during the early part of 1918.

Camps visited and inspected were situated at such places as Jacksonboro, Smooth Rock Falls, along the Mattagami River from Timmins, Parry Sound, French River, Osaquon, Coughlan, Bushnell, Mileage 44, T. & N. O. Ry., McLaren's Bay, Osborne, Connaught, Capreol, and Daventry. Mining camps were also visited

at Nickleton and Kirkland Lake.

CAMPS OF THE MATTAGAMI PULP & PAPER CO., SMOOTH ROCK FALLS.

I beg to offer, with regard to this company, some further information re the transactions of the Board with respect to this company's camps, as a continuation

of my 1917 report.

Inspection of this company's camps during the first week in January showed small improvement over the previous season, and in reporting the findings to the Board at Toronto, it was considered advisable by Dr. McCullough, to request the presence of the President, Mr. D. M. Chisholm, at the Board's offices. The meeting took place on or about January 15th when, after the Board's attitude had been explained, an ultimatum was issued providing that all camps which were being operated contrary to the provisions of the regulations, or were in a position where the waters of the streams were being polluted, were to be at once closed, and were not to be re-opened until the said regulations were fully met. This action being designed to protect the men in the camps, as well as the users of river water down stream at Jacksonboro and Smooth Rock Falls, at which latter place several cases of typhoid had broken out the previous year.

This action resulted in eight camps being closed and five larger buildings constructed in very much better locations to complete the season's work; later, however, I found these condemned camps were being used as conveniences by the men passing up and down the river, necessitating the tearing down and burning of the structures. These were practically the only changes effected before the breakup. The company promised, however, that in putting in new camps in the fall an earnest attempt would be made to comply with the Board's requirements.

My next inspection was made during the first week in November, beginning at Timmins and working my way down stream to Sturgeon Falls, a distance of thirty-five miles. Twenty-one camps were visited, and while they were mostly located at a distance of 125 feet from the water, there was generally a gully or ravine behind, or to one side of the camps, which might act as a drain carrying to the river any polluting matter which might be placed upon the ground surface during the run-off.

However, in the construction of the buildings a revolution has taken place, and whereas last year's camps with their pole floors, poor light, no ventilation, and where eating, sleeping, and cooking were carried on in the one building, we now have large well-lighted and ventilated camps built to house forty or fifty, and in some cases seventy-five men. At each of these reasonable closets, properly located, have been built, and deep holes provided for the reception of garbage,

which last season was thrown upon the ground.

This reform, while yet incomplete, is highly gratifying, and is, I think, due to two causes. First, to the giving of these bush contracts to a much higher type of contractor than heretofore, and secondly, to the co-operation of the company, coupled with the hard work of a very painstaking and energetic contracting physician, Dr. Wright, one of the very few officials who sends a monthly report covering all camps under his charge.

I, therefore, confidently expect that during the next year there will be very little fault to find with these camps, always provided, of course, matters are

carried forward as per statement given.

This operation consists of fifty-seven camps and gives employment to about 1,000 men in the woods.

# CONCLUSIONS re INSPECTION OF LUMBER CAMPS AND TERRITORY WITHOUT MUNICIPAL ORGANIZATION.

It may be readily noted that there is a decided falling off in the inspections made this year as against 1917. This is partly explained under the head of Camp Inspections, and also to my services being urgently required elsewhere adjusting complaints which come to us from time to time, as well as supervising outbreaks of communicable diseases which, of course, must have first call upon my time, therefore, certain conclusions which I had arrived at last year have become even

more apparent at the time of my writing.

Knowing as I do the huge amount of work to be performed and the little I am able to do, comparatively speaking, these long trips through the woods, oftentimes travelling forty or fifty miles, perhaps examining many camps, coupled with the fighting which oftentimes requires to be done in order to make an impression on some of these large corporations who appear to have little time or inclination for public health matters, is very hard work, and sometimes after this has been done and conditions brought to light which in applying a remedy no delay can be permitted necessitating court proceedings, but which cannot be undertaken for lack of corroborative evidence, such a case as I have cited has happened, and must happen, with the result sooner or later, outbreaks of typhoid fever will occur which can only be prevented by systematic inspection requiring a much larger staff of inspectors than we now have. This year, therefore, should see the appointment of two additional men.

### THE CONTRACTING PHYSICIAN.

This official, for he is an official, in an unorganized territory, has a very important duty to perform, his work being of a similar nature to that of his brother the Medical Officer of Health, but without the backing or the fixity of tenure of the latter; therefore, to put the ease of this official in a "nutshell," so to speak, regarding the sanitary supervision of the camps, works, etc., under his charge, the clause in his contract which makes him supervisor might as well be left out in 85 per cent. of these contracts, for if he criticizes the operation, or the condition of the same too much, or if his recommendations are likely to cost his employers money, he will perhaps be told to take care or someone else will be hired to replace him who will not be quite so exacting. This being the case, if the contract is a fairly lucrative one, he is likely to travel along the line of least resistance and say little, with the result that he does not even get a monthly report, as the receipt of this would bring one of the Board's officials to see what the trouble was, which is not at all desired.

The contracting physician, then, should not be at the mercy of these companies, if we expect results, but should be placed in a position where his removal can only take place with the approval of the Board. He should then be forced to carry out the provisions of his contract and of the regulations; failing this the Board should require his employers to contract with another physician who will.

The circulars sent out by the Board at the commencement of the season have been successful. The early reporting by a large number of concerns I consider due to this cause.

#### COMMUNICABLE DISEASES.

Outbreaks of communicable diseases occurred at the following places and required my personal attention.

#### Smallpox:

	Cases.
Townships of Hanmer and Capreol	35
Pickerel River	1
Byng Inlet	. 6
Foleyet	2
Sturgeon Falls	8
Warren	Unknown
Verner, Township of McPherson	2
	54
Diphtheria:	
Township of Capreol	3
Scarlet Fever:	
Kirkland Lake	5
Typhoid Fever:	
Georgian Bay Lumber Camps, Township of Blythe	11
Total	73

None of these outbreaks were of a serious nature, or assumed large proportions except smallpox at Hanner and Capreol, where we had 35 cases with no deaths. The disease for the most part was of a mild character and had been prevalent in these villages for at least two months previous to my visit, having been mistaken for chickenpox. This was especially true in the village of Capreol where evidence

was not wanting to establish this fact. In Hanmer (organized) I found it advisable to take the matter out of the hands of the local officials, who showed little inclination to cope with the outbreak. I obtained the services of a sanitary constable to take charge and results were very good.

The eleven cases of typhoid occurring at the Georgian Bay camps, we believe, were due to the faulty location of the principal well, which was in a position to receive the drainage from two large sleep camps. The closing up of these, coupled with a liberal use of typhoid-vaccine by the contracting physician Dr. McKee,

quickly brought results.

During the year I was compelled to take police court proceedings against four lumber companies, the charge being neglect to provide the Board with information required under the regulations and to contract with a qualified physician for the sanitary supervision of the camps. The companies were:—

	Fine.
Reemsbottom & Edwards	\$20 00
Porcupine Pulp & Lumber Co	20 00
Jas. Horrigan & Co	20 00
St. Maurice Lumber Co	5 00
•	
Total	\$65 00

### In addition I visited the following places:

का शका	Visits 3	Vis	sits
Smooth Rock Falis		Cochrane	2
	1	Point Au Baril	1
Parry Sound		MacTier	1
	2	Cobalt	2
	1	Nickelton	2
Capreol		Raymore	1
		O'Donnell	1
	1	Sault Ste. Marie	1
		-	
	•	Total	32

I also visited once the principal towns and lumbering centres in western end of the Province, but was unable to devote much time owing to the pressure of business at this end.

All of which is respectfully submitted.

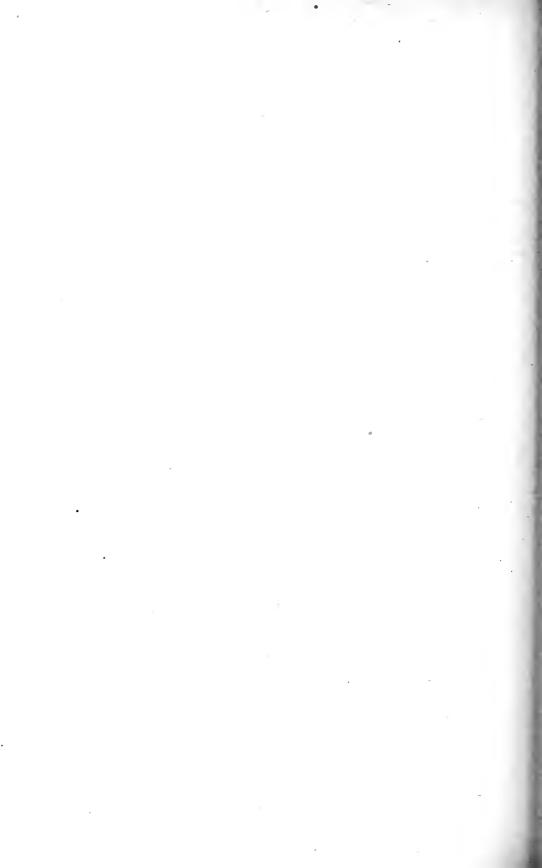
ALEX. R. WHITE, Provincial Sanitary Inspector.

# Laboratory Reports for the Year 1918

Laboratories of the Provincial Board of Health, Toronto

Branch Laboratories at Kingston

Branch Laboratories at London (Institute of Public Health)



# REPORT OF THE LABORATORIES OF THE PROVINCIAL BOARD OF HEALTH, TORONTO

To the Chairman and Members of the Provincial Board of Health.

I have the honour to submit herewith a tabulated statement of the work performed in these laboratories during the year 1918. The total number of specimens examined was 13,458. The following table showing a comparison of the number of specimens examined in the years 1911, 1917, 1918, indicates the growth of this department.

		1911			1917			1918	
Diphtheria (Swabs)	1	1	1 068			3 961			2.758
Release from Quarantine	, i i i i	173							
Positive					, ,		352	510	
	91 .			1,028					
Negative		905						1.788	
				405				1,100	
Positive						• • • • • •			
Negative								• • • • • •	0.063
Tuberculosis (Sputum)			1,650		2,159				2,09
Positive	402			385					
Negative	1.248			1,774			1,660		
Typhoid (Blood)			749			835			820
Positive	70			214			178		
Negative									
Syphilis—	010			0-1					
Colloidal Gold Reaction						5			29
									_
Wasserman Reaction				110					
Very Strongly Positive				148			1		
Strongly Positive				7					
Positive				22					
Negative				392					
Treponema Pallida						3			3
Positive							8		
Negative				3			. 31		
Gonorrhea						111			62
Positive							0.15		
Negative							0==		
						79			
Rabies (Brains of Animals)									, ,
Negri bodies present									
Negri bodies absent									
Milk						5-			7
Water						2.757			
Bacteriological	1,668			-2.732			-2,200		
Chemical	50			25			13		
Liquor (for License Department)							5		59
Miscellaneous Specimens (includ-					1				1
ing Coal for Public Institutions)			86			327			33
2.1.5 Coar for 1 doing institutions)			00						
		5,750			11.758		Ì	13,458	3
		0,100			11,100	1		19,700	,

Tabulated statement of Vaccines and Pasteur Treatments is appended. The total number of doses of Typhoid and Paratyphoid Vaccine was 534,629. Of this the Canadian Militia received 518,021 doses.

The Influenza Vaccine distributed for civilian use amounted to 153,217 doses. The Militia received 95,390 doses.

The increase in the volume of work has taxed the capacity of the present laboratories to the utmost. New and larger quarters are greatly needed.

H. M. LANCASTER,
Acting Director of Laboratories.

### REPORT FROM LABORATORIES OF THE PROVINCIAL BOARD OF HEALTH

	Dip	hther	itic Sv	vabs.	Tubercu-			phoid			s	yphili	9		
	Rel	lease	Diag	nosis		outa		oods.				nn Re	action	Trep Pal	onema lida.
Municipalities					÷	_		_	Colloidal Gold Reaction	Very Strongly Positive	Strongly Positive	+	_	+	
Addington— Wilton Algoma	1	<b>7</b> 2													
Blind River Bruce Mines Chapleau Crean Hill Creighton Mine				1	1 1 1	4	1	_		i			3	• • • • •	••••
Espanola						2	1	2					3		
Kapuskasing Levack Little Current Massey					3		1	3					••••	• • • • • • • • • • • • • • • • • • • •	••••
Nickelton Sault Ste Marie Schumacher Spragge				8 ₂		20 1		1		• • • •	• • • •	••••	1	• • • •	
Steelton West Thessalon Timmins Webbwood Wiarton	1		2 1 3	1		$\begin{array}{c} 2 \\ \dots \\ 1 \\ 7 \\ 2 \end{array}$	1 1 1	1 3		 1	i	1 1		• • • •	1
Worthington Brant—			••••	1		42	 1 1			4	1 1	2	1 24	1	3
Paris				3 1		9 2				2	• • • •	••••	i		••••
Chesley Elmwood Hepworth Kincardine			5 1 3	 4	 1 2	8 7 1						• • • •			• • • • • • • • • • • • • • • • • • • •
Lucknow Mildmay Paisley Pakesley	• • • •					1	i	1		••••					••••
Port ElginRipley Southampton TraTeeswater	$\frac{\dots}{2}$	 9	2	16	1	$\frac{\cdots}{2}$		····· ₂							• • • • • • • • • • • • • • • • • • • •
Tiverton	• • • •		1		1 1 1	 1 3 7	1 1 1	2 1							• • • • • • • • • • • • • • • • • • • •
Ashton	1	1	1	2	1 2	2		1			:::				
Metcalfe North Gower					3 2	2		4							• • • • •

### OF ONTARIO AT TORONTO FOR THE YEAR 1918.—SPECIMENS EXAMINED

Rabics Diagnosis   Food   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Page   Pa		_	1														1		1	,		
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# REPORT FROM LABORATORIES OF THE PROVINCIAL BOARD OF HEALTH OF

	Dip	hther	itic S	vabs.		Tubercu-		hoid	Syphilis								
	Rel	ease	Diag	nosis	lo Sp	us uta	Blo	ods.		Wassermann Reaction Pallida.							
Municipalities	÷-					_	<del>-</del>		Colloidal Gold Reaction	Very Strongly Positive	Strongly Positive	-1-4	_	+	_		
Carleton—Continued Stittsville						2	1										
Westboro																	
Dufferin— Grand Valley					1												
Orangeville Rosemont		ā	2	6	1	7	1			• • • •				• • • •	• • • •		
Shelbarne																	
Dundas— Morrisburg	. 10	6	3	1	1	9	1	3							1		
Durham—	. 10		1 "												1		
Bethany				1		3	3	8									
Bowmanville				5	2		1	_				1					
Enniskillen Millbrook		1		1 0	2	6		$\begin{vmatrix} 1 \\ 6 \end{vmatrix}$									
Newcastle	. 7	3	1														
Orono		3	1		1 4		$\frac{1}{2}$	6					3				
Pontypool		2				4		2									
Elgin— Aylmer						1											
Baynham																	
Corinth		1											• • • •		• • • •		
Rodney						2											
St. Thomas Straffordville						i		1									
Essex—						_											
Amherstburg Belle River					1 1	5											
Comber		• • • • •			;	2		;							• • • :		
Essex		1			1	19		$\frac{1}{3}$									
Ford				3	1	1		3							• • • •		
Ojibway Leamington				16	1		2	· · · · i					····i				
Sandwich								1					1		• • •		
Tecumseh Walkerville							····i	$\frac{2}{2}$					$\frac{1}{7}$				
Windsor	•   • • • •			134	12	45	3	15		27	2	10	67		•••		
Frontenac— Kingston																	
Glengarry-					1												
Alexandria	•   • • • •			2	3		3										
Dalhousie Mills					3	3	1	2									
Dunvegan Martintown							· · · i										
Maxville																	
Grenville-																	
Cardinal	.			1		2											
Kemptville Prescott	:			$  \dots  $		4	1	8									
Spencerville	.	1	1	1	3	î											

### ONTARIO AT TORONTO FOR THE YEAR 1918.—SPECIMENS EXAMINED.—Con.

Gonorrhea	Be	bies I	)ia ono	nuis					Wa	tore		ens							
Gono	"	inies 1	nagno	rata	Fo		- A.J.		Bact	eriolog	rical				wa	819	ense	pecim	
		Ne Boo	gri lies	suc	Con	tent	Preserv- atives		ercle ac	Pus	Cells		18	ples			or Lic	s snoa	Year
+	Animal	+	-	Animal Inoculations	Fats	Total Solids	+-	+	_	+	_	Count	Extraneous Matter	Number of Milk Samples	Chemical	Bacterial	Liquors for License Department	Miscellaneous Specimens	Total for Year
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# REPORT FROM LABORATORIES OF THE PROVINCIAL BOARD OF HEALTH OF

	Dip	htheri	tic Sw	abs.	Tubercu-		Tvo	hoid	Syphilis								
	Rel	ease	Diag	nosis	lo Sp	us uta	Blo	ods.		Wassermann Reaction				Treponema Pallida.			
Municipalities	+	_	+	_	+	_	+	_	Colloidal Gold Reaction	Very Strongly Positive	Strongly Positive	+	_	+	_		
Grey—			1														
Annan						2											
Clarksburg						3											
Chatsworth	26	20	2	2	1												
Desboro						1							• • • •				
Dornoch				1	1	1				• • • •							
Dromore						1			• • • •	• • • •			• • • •				
Dundalk		• • • •		1	2	4		1					• • • •		• • • •		
Durham		• • • •	• • • •	2			• • • •	1	• • • •	• • • •			• • • •	• • • •	• • • •		
Feversham		• • • •					• • • •	• • • •	• • • •	• • • •		• • • •	• • • •	• • • •			
Flesherton	• • • •	• • • •	• • • •	2	1	6		3	• • • •	• • • •		• • • •		• • • •	• • • •		
Hanover	• • • •	• • • •	••••	• • • •		1	• • • •						• • • •		• • • •		
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Rocklyn						1							١				
Thornbury						3		1									
Haldimand—		1															
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Caledonia				1		2	• • • •		: • • •						• • • •		
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Dunnville					3	1		1									
Fisherville					1	1		î				1					
Hagersville				1		3				3			6				
Jarvis								3					1				
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Harcourt					• • • •			• • • •			• • • •	• • • •			1		
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Freeman							• • • •						• • • •	• • • •			
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Frankford					-												
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### ONTARIO AT TORONTO FOR THE YEAR 1918.—SPECIMENS EXAMINED.—Con.

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			Boo	gri lies	suo	Con	tent	Pre	ati	Tub	ercle	Pus	Cells		ns	of			for L	snoa	Year
+		Animal	+	_	Animal Inoculations	Fats	Total Solids	+	_	+	_	+	-	Count	Extraneous Matter	Number of Milk Samples	Chemical	Bacterial	Liquors for License Department	Miscellaneous Specimens	Total for Year
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# REPORT FROM LABORATORIES OF THE PROVINCIAL BOARD OF HEALTH OF

Release   Diagnosis   Signa   Bloods   Wassermann Reaction   Trepone Pallida		Dip	htheri	tic Sv	vabs.			Тур	hoid	Syphilis								
Huron		Rel	ease	Diag	nosis		-   -   -					ann I	Reacti	on.	Trep Pal	onema lida.		
Auburn	Municipalities	-†-		-1-		+-	_		_	Colloidal Gold Reaction	Very Strongly Positive	Strongly Positive		-	+			
Blyth	Huron-								,									
Brussels							2											
Brussels						1	1.1											
Clinton		• • • •	• • • •		• • • •	• • • •					• • • •					• • • •		
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Fordwich						1												
Goderich	Fordwich				1		2		1					1				
Seaforth	Goderich				1			1	2				1	1				
Wingham			• • • •				2.											
Kenora—	Seaforth			• • • • •				2	1	• • • •	1	• • • •		1				
Dryden		1	2	1	13	• • • •	1	• • • •	• • • •	• • • •	• • • •	• • • •		• • • •	• • • •	• • • •		
Keewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin   Seewatin				1			1											
Kent	Keewatin	• • • •	• • • • •			• • • •		• • • •	• • • •				• • • •					
Chatham         1         2         6         19         4         10         2         3         19           Dresden         4         8         4         8         4         8         4         8         4         8         4         8         4         8         4         8         4         8         4         8         4         8         4         8         4         8         4         8         4         8         4         8         4         1         2         1         2         1         1         2         1         1         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1							9					• • • •			••••			
Chatham         1         2         6         19         4         10         2         3         19           Dresden         4         8         4         8         4         8         4         8         4         8         4         8         4         8         4         8         4         8         4         8         4         8         4         8         4         8         4         8         4         8         4         8         4         1         2         1         2         1         1         2         1         1         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	Blenheim		• • • •			2	2		3									
Merlin         1         4         1         2         1         3         1         1         2         1         3         8         1         1         1         2         1         1         2         1         1         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         2         1         1         1         1         2         3         1         1         1         3         1         1         1         3         1         1         1         2         1         1         3         1         1         1         3         1         1         1         3         1         1         1         1         1         1         1         1         1         1         1 <td>Chatham</td> <td></td> <td></td> <td>1</td> <td>2</td> <td>6</td> <td>19</td> <td>4</td> <td>10</td> <td></td> <td>2</td> <td>3</td> <td>3</td> <td>19</td> <td></td> <td></td>	Chatham			1	2	6	19	4	10		2	3	3	19				
Thamesville	Dresden																	
Tilbury	Merlin	• • • •	1		4				• • • •			1	3					
Wallaceburg       3       6       1       1       1       1         Alvinston       1       2	Thamesville			• • • •	• • • •	1						• • • •	• • • •		• • • •	• • • •		
Lambton—       Alvinston       1         Forest.       3       5       2       2         Inwood       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       5       1       1       1       1       1       1       1       1       1       1       1        1       1       1       1       1       1       1       1       1       1       1       1       1       1       1        1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1	Welleschung			• • • •	1	• • • •						• • • •		1 -	• • • •	• • • •		
Alvinston		• • • •	• • • •	• • • •	• • • •	5	0	• • • • •	1	• • • •	1	• • • •	1	1	• • • •	• • • •		
Forest.		1					2	j										
Inwood		_	· · · · · · · · · · · · · · · · · · ·		$\overset{\cdots}{2}$		2											
Port Lambton	Inwood																	
Port Lambton	Petrolia					1	1											
Sombia	Port Lambton							1										
Thedford Watford Wyoming 1		• • • •		• • • •				• • • •	• • • •	• • • •		1		1	• • • •	• • • •		
Watford       1       1       2         Wyoming       1       1       2         Lanark       1       3       1         Almonte       1       1       3       1         Carleton Place       1       1       1       1       1         Lanark       3       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1	Sombia	• • • •	• • • •	• • • •	1	• • • •	-	• • • •	• • • •	• • • • •	• • • •	• • • •	• • • •	3	• • • •	• • • •		
Wyoming	Watford		• • • • •	• • • •	• • • •	• • • •	- 1	• • • •	• • • •	• • • •	• • • •	• • • •		••••	••••	• • • •		
Lanark—       Almonte       1       1       3       1       7	Wyoming		• • • • •	• • • • •	• • • • •			- 1		••••	••••	• • • •	• • • •	• • • • •	••••	• • • •		
Carleton Place       1       3       1         Lanark       3       1         Maberley       3       1         Middleville       1       1       1         Pakenham       5       1       5       1       1         Perth       6       1       1       1       1       1         Smith's Falls       1       4       7       6       1       5       5       6       1       5       6       1       5       6       1       5       6       1       5       6       1       5       6       1       5       6       1       5       6       1       5       6       1       5       6       1       5       6       1       5       6       1       5       6       1       5       6       1       5       6       1       5       6       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1	Lanark-			• • • •	••••		1	••••	-				• • • •			••••		
Lanark	Almonte	1	1		3	1	7											
Maberley       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1<		'				1												
Middleville       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>3</td><td>1</td><td></td><td></td><td>  </td><td></td><td></td><td></td><td>• • • •</td></td<>								3	1							• • • •		
Pakenham       5       1       5       1       2       1         1	Maberley				• • • •				• • • • •	• • • •	• • • •	• • • •			• • • •	• • • •		
Perth       6         Smith's Falls       6         Leeds—       8         Brockville       4       6       1       5         Gananoque       2       1       1       1         Lyn       2       1       1       1       1         Mallorytown       1       1       1       1       1         Lincoln—       Beamsville       1       3       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       <	Middleville		• • • •	• • • •	• • • •	-	1	• • • •	1	• • • •	• • • •	• • • •	• • • •		• • • •	• • • •		
Smith's Falls   Leeds   Brockville   4 6 1																		
Leeds—       Brockville       4       6       1       5          Gananoque       Lyn       2	Smith's Falls																	
Brockville       4       6       1       5          Gananoque															••••			
Lyn	Brockville	4	6	1		4	7		6		1			5				
Mallorytown       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <td< td=""><td>Gananoque</td><td> !</td><td></td><td></td><td></td><td>  </td><td></td><td></td><td></td><td></td><td></td><td>  </td><td></td><td></td><td></td><td></td></td<>	Gananoque	!																
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$																		
Beamsville       1       3       3       1	Mallory town		• • • •	• • • •	• • • •	• • • •	1	• • • •	1	• • • •	• • • •	• • • •	• • • •	• • • •	• • • •	• • • •		
Grimsby	Lincoln-												1	- 1				
Grimsby       2       3       8       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       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 </td <td>Beamsville</td> <td></td> <td></td> <td>  </td> <td>1</td> <td>3</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Beamsville				1	3	3											
Jordan	Grimsby				2		3		8		ايو		ایس		ا	• • • •		
Jorgan,,, 2 1, 3	Hamilton	••••			••••	1		• • • •	• • • •	••••	10	2	1	16	• • • •	• • • •		
Merritton 1 1 2	Jordan	• • • • '	• • • •	2	1		3	• • • •	••••	••••	• • • •	• • • •	• • • •	• • • •	••••	• • • •		

#### ONTARIO AT TORONTO FOR THE YEAR 1918.—SPECIMENS EXAMINED.—Con.

Gonorrhea	Ra	bies I	Diagno	osis						Mil	k					Wa	ters		mens	
Gon					Fo	od	Preserv-	res		Bact	eriolo	gical						cense	Specin	
		No Boo	gri dies	suo	Con	tent	Pres	atives	Tub	ercle ac	Pas	Cells		13	ples			i Li	sons;	Year
+ -	Animal	+	_	Animal Inoculations	Fats	Total Solids	+	_	+	_	+	_	Count	Extraneous Matter	Number of Milk Samples	Chemical	Bacterial	Liquors for License Department	Miscellaneous Specimens	Total for Year
						••••				••••						• • • •	1			
		• • • •						•••							• • • •	• • • •		1		
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2								• •									$\frac{5}{28}$			
								••												
								•••									8			
••••								• •									36			
	1dog		i														1			
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	Dip	htheri	itic Sv	vabs.		ercu-	Tvr	hoid			s	yphil	is		
	Rel	ease	Diag	nosis		ous outa		ods.		Was	serma	nn R	eaction	Trer Pa	onema Ilida.
Municipalities		_	-:-			_ _	+		Colloidal Gold Reaction	Very Strongly Positive	Strongly Positive	+	-	+	-
Lincoln—Continued Niagara-on-the-Lake.		1				10	1	2		1	1	1	2		
Smithville St. Catharines	4			$\frac{2}{10}$		$\frac{\dots}{62}$	• • • • •					1,		;	···;
St. David's	*			10	24	02	1	12	• • • •	8		4			1
Wellandport	'					1									
Vineland						!									
Middlesex— Ailsa Craig		1	2	9		9						i			
Ailsa Craig Lobo	• • • •		ے	9	. 2	2		••••	••••	• • • •				• • • •	
London		1		.1		1									
Mt. Brydges		2		2		2							1		
Newbury	• • • •	• • • •	• • • •	• • • •	• • • •	••••				• • • •	• • • •	• • • •	• • • •		• • • •
Muskoka—						U	• • • •	ے		• • • •		• • • •			• • • • •
Bala								2							
Bracebridge Port Carling	• • • • ,	• • • •	• • • •	2	1	11		1	• • • •		1	1	3		• • • •
Gravenhurst	• • • •	• • • •	· · · · i	····i	1		····i	1	• • • •			• • • •	ii	• • • •	• • • •
Gravenhurst Huntsville Severn Bridge			1	3	7			-					1		
Severn Bridge		2	1	4											
Nipissing—															
Bonfield						1		1							-
Burwash					1	6							4		
Capreol	!			2		1									
Coniston Garson	• • • •	• • • •	• • • •	1	1	3	• • • •	2		1	• • • •		1	• • • •	
Gowganda				2		· · · · i									
Gowganda Haileybury	!			3	2	4		3		1					2
Iroquois Falls	• • • •		• • • •		• • • •			'						• • • •	• • • •
Kirkland Lake Mattawa	• • • •	• • • • •	1	• • • •			• • • •	1	• • • •	• • • •	• • • •	• • • •		• • • •	• • • •
New Liskeard	3.	$\ddot{2}$		4	4	5									
New Liskeard North Bay North Cobalt	3	3		3	2	11,	3	3	;	3		1	19		
Smooth Rock Falls	• • • •	• • • •	• • • •	• • • •	• • • •	• • • •		• • • • •	• • • • • •	• • • •	• • • •	• • • •	• • • • •	• • • •	• • • •
Sturgeon Falls	• • • •		3	$\ddot{2}$	4	6	• • • • •		• • • • ′	• • • • •		• • • •	• • • •		
Whitney	1							4							
Verner	• • • •			1			• • • •		• • • •						
Delhi	1	4	3	9	4	0		10		1			9		
Port Dover		4		1	2		• • • •								• • • •
Port Rowan		2			3.	2	;						3		
Simcoe	1	5	6	8	3	11	1		• • • •					• • • •	
Waterford		• • • • •		$\frac{\cdots}{2}$	3	3	···i						1		• • • •
Northumberland—			-	-	9		- 11	1		••••		• • • •	1		
Brighton					3	7									
Campbellford	• • • •	• • • •	• • • •	• • • •	····i	1									• • • •
Cobourg				3	3		• • • •				2		···. 24		
Colborne			1	2	1	3,		3			;				
Grafton	• • • •	• • • •	• • • •	ارِ		5									• • • •
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#### ONTARIO AT TORONTO FOR THE YEAR 1918.—SPECIMENS EXAMINED.—Con.

	norraea	Re	abies l	Diagne	osis					1	Mi	lk					Wa	ters	9.	imens	
	3				,		ood	Preserv-	atives			eriolo	gical				İ		icens	Spec	ы
			Bo	egri dies_	ons		tent	P. P.			ercle ac	·Pus	Cells		sne	of			for I	cons	r Yea
+	_	Animal	+	_	Animal Inoculations	Fats	Total Solids	+	_	+	_	+	_	Count	Extraneous Matter	Number of Milk Samples	Chemical	Bacterial	Liquors for License Department	Miscellaneous Specimens	Total for Year
	• •							••	••				• • • •	• • •	• • • •			$\frac{7}{3}$	1		• • • •
• •	••	2d'gs			• • • •													$\frac{3}{22}$		1	
															• • • •					2	
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5	• •	••••	• • • •		• • • •	• • • •	• • • •		•••			• • • •	• • • •	• • •	• • • •	• • • •	• • • •	14	• • • •	• • • •	• • • •
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5	5							•••	•••			• • • •		• • •			• • • •		6		• • • •
3		·									<b> </b>							2 5			
3			• • • •																6		
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	١			]																1	
• •									• •							• • • •				1	
																		2			
4	i																	2	6	1	
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	Dir	htheri	tic Sw	abs.		ercu-	Тур	hoid		_	Sy	phili:	3		
	Rei	lease	Diag	nosis		uta	Blo	ods.		Wass	ermanı	n Rea	ction	Trel	onema lida.
Municipalities			+	_	+	с —	<del>-</del> †-	_	Colloidal Gold Reaction	Very Strongly Positive	Strongly Positive	+	_	+	-
Intario— Beaverton			1	1		1		9							
Brechin															
Cannington															
Claremont				_											
Glazebrook															
Longfield Mills															
Oshawa				6						2	i	i	9		
Pickering								1			_			١	
Port Perry							2				'		1	1	
Speedwell															
Sunderland					1									1	
Uxbridge						6	1	4			'				
Whitby						5		3		2	2			· · · ·	
Ottawa—														1	
Ottawa			• • • •		1			2		72	16	23	212		
Oxford—	ì														
Drumbo						1		1							
East Oxford							• • • •				• • • • '	• • • •			
Embro		· · · · <u>·</u>				1	1	••••	• • • •		• • • • •	• • • •	• • • •		
Ingersoll	4	1 2				14	3	14			• • • •				
Mount Elgin		1	• • • •	1	• • • •	1	• • • •				• • • •	• • • •			
Norwich		• • • •				5 8	• • • •	2		1	• • • •	• • • •			
Otterville					-	-	• • • •	1		9		• • • • •	4		
Tavistock						2	····i	1	• • • •						
Thamesford						2	1	1	• • • •						
Tillsonburg						2	1			3					
Woodstock					6							1	ii		
Parry Sound—	1						_			•		1			
Burk's Falls		3	3	. 4		5		8					3		
Byng Inlet						_			1						1
Callander	1						1	1							
Depot Harbor								1					1		l
Kearney				1		1		2							
Magnetawan															
Nobel							1	1							
Novar			• • • •							• • • •	• • • •				
Otter Lake			• • • •	· · · · <u>·</u>											
Parry Sound			3				3	6		5	2	• • • •	19		1
Port Sydney								• • • •	• • • •			• • • •			
Powassan		• • • •				5		1	• • • •			• • • •	• • • •		
Sundridge		• • • •				3				• • • •	• • • •	• • • •			
Peel—			• • • •	1		4		4			• • • •				
Alton			1			6									
Rolton	1							9		1	1		1	1	1
Brampton	5	2	1	1				۔ ا		1			1	1	
Burnhamthorpe					1	2									
Caledon				2	i	4		2						l	
ClarkSon															
Cooksville														1	
Inglewood	1				1						1		1	1	
Mono Mills	1				1	1		l						١	
Palgrave	ļ	2	1	6		3		1				ļ			
Port Credit	. 1				1	2		1	1		1	1	1	1	
Streetsville	1	,				_		1	1	1	2		1	1	1

#### ONTARIO AT TORONTO FOR THE YEAR 1918 - SPECIMENS EXAMINED. - Con.

Gonorrhea	l Ite	thes !	Diagno	nais.					Mil	k					Wat	era		iens	
Gono		ibica i	/III in		Fo	od	PTV-		Bact	eriolog	gical				***		ense	pecin	
		No Boo	egri dies	ons	Con	tent	Preserv-	Tub	ercle ac	Pus	Cells		sn	of			or Li	sons 8	Year
+	Animal	+	_	Animal Inoculations	Fats	Total Solids	+-	+	-	+	_	Count	Extraneous Matter	Number of Milk Samples	Chemical	Bacterial	Liquors for License Department	Miscellaneous Specimens	Total for Year
															• • • • •	1 1 1 1 2	• • • • •		
5 2																1 19 1 4 		8	
																13 		21	
. 1															1 1	5	1		
																10 3 2 9 2		2	
																4 4 2			
10	1			• • • • • • • • • • • • • • • • • • • •												1 3 14 1	1		
i i														20		2 1 5 1			
																2 7	1		

	Dip	htheri	tic Sv	vabs.		ercu-	Тур	hoid			s	yphili	s		
	Rel	ease	Diag	nosis		us uta	Blo	ods.		Was	serma	nn Re	action	Trepo Pall	
Municipalities	-1-		+	_	+	-	+-	_	Colloidal Gold Reaction	Very Strongly Positive	Strongly Positive	+	_	+	
Perth—								-					1		
Atwood				1											
Dublin		• • • •	• • • •											• • • •	• • •
Fullarton										• • • •	4				• • •
Mitchell		1		1	• • • •			• • • •					• • • •	• • • •	
Sebringville										1					
St. Mary's					1	. 2			· · · · ·						
Stratford	2	1											3		
Peterboro—												1			
				1				2							
Ennismore															
Hastings			1	1	_		• • • •								
Havelock						• • • •							• • • •	• • • •	• • •
Keene	: • • •						1	$\frac{1}{2}$						• • • •	• • •
Norwood				-			1	-				• • • •	• • • •	• • • •	
Peterboro	7	16	4	15	9	27	7	11				1	24		
Prescott—	Ť		i				- 1					•	-1		
Alfred					1	2	!								
Fournier						'	1	1							
Hawkesbury						_	3						1		
L'Orignal														• • • •	• • •
Riceville														• • • •	• • •
St. Engene Prince Edward—	1		• • • •	• • • •	• • • •	,	• • • • .			• • • •	• • • •	• • • •	• • • •	• • • •	• • •
Bloomfield															
Consecon						3									
Picton		1	1												
Wellington								1							
Rainy River—						i I									
Dryden															
Fort Frances								• • • •				• • • • •	• • • •	• • • •	
North Pines Renfrew—	• • • •	• • • •	• • • •	• • • •	• • • •	1,	• • • •	• • • •		• • • •	• • • •	1	1	• • • •	• • •
Arnprior						1				1		1	1		
Beachburg		• • • •		• • • •		1				• • • •	• • • •	1	1	• • • • •	• • •
Eganville					8										
Pembroke			$\frac{\cdot\cdot\cdot}{2}$	_	-	2	1						$\frac{2}{2}$		
Renfrew				3	5	5		1							
Westmeath								1							
Russell—	0.4														
Bourget	39	45	8	20	1	Э		3	• • • •	• • • •	• • • •	• • • •	3	• • • •	• • •
Russell	• • • •	• • • •	• • • • •	1	1		1	1.		• • • •	• • • •	• • • •	• • • •	• • • •	• • •
Timago															
Aurora				1		1									
Aurora		3		7	3	$1\overline{2}$	1	8		2			1		
Belle Ewart													]		
Bond Head				3		1	• • • • ,	'							
Bradford			1	3			1	'						• • • •	• • •
Bond Head Bradford Churchill Cookstown	9	3	1			2		1				• • • •		• • • •	• • •
Coldwater	• • • •	• • • •	• • • •	• • • •	• • • •		• • • • •	• • • •	• • • •	• • • •	• • • •	• • • •	• • • • •	• • • •	• • •
Coldwater				'										1	
Collingwood Creemore Edgar		• • • •	2	4	1	1	7	· · · · · A		-	1	Э	1		• • •
73.3					1	.4		- 7					1		

#### ONTARIO AT TORONTO FOR THE YEAR 1918.—SPECIMENS EXAMINED.—Con.

_	Gonorrhea	R	abies	Diagn	osis						Mi	lk					Wa	ters	2	mens	
	Gor					F	ood	Berr-	atives		Bact	teriolo	gical						cense	Speci	
			No Bo	egri dies_	ons	Cor	tent	Pre	ati		ercle Bac	Pus	Cells		ns	of			or Li	eous	Усаг
+	_	Animal	+	_	Animal Inoculations	Fats	Total Solids	+		+	-	+	_	Count	Extraneous Matter	Number of Milk Samples	Chemical	Bacterial	Liquors for License Department	Miscellaneous Specimens	Total for Year
• •									• •				• • • •				,	1			
• •	::							••	••									3 2	1		• • • •
• •	• •	idog	1	• • • •	• • • •	• • • •	• • • •	••	٠.		• • • •	• • • •	• • • •	• • •	• • • •	• • • •	• • • •	15			• • • •
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• • •																		1			
••		2						••	• •										• • • •		
••		3d'gs	2	1	• • • •		• • • •	•	• •	• • • • •	• • • •			• • •	• • • • •	• • • •		6	• • • •	2	• • • •
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i	$\frac{1}{2}$								• •					• • •		• • • •		$\frac{\cdots}{2}$			• • • •
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																		2			
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1	1							• •	٠.									1		4	
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٠.	• •								• •			• • • •	• • • •					4			
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7																					
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		ldog		1																	
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	Dip	hther	itic S	wabs.		ercu-	Тур	họid			ç	yphil	is		
	Rel	lease	Diag	znosis		outa	Blo	ods.		1		nn R	eaction	Trep Pal	onema lida.
Municipalities	+-		+	_	+		+	_	Colloidal Gold Reaction	Very Strongly Positive	Strongly Positive	+	_	+	_
Simcoe—Continued															
Elinvale		í		1 .	2 2 2 5	7		• • • • •							
Hillsdale		$\frac{1}{2}$			2	15	1			• • • •				• • • •	
Midland Orillia	26		1		5	$\frac{15}{26}$	$\frac{1}{18}$	20	• • • •	• • • •	• • • •			• • • •	• • • • •
Penetang		91	1	1 -			10	$\frac{20}{1}$	• • • •			• • • •			
Phelpston				_		4	1								
Port McNicoll				2		î									
Stayner			1					3							
Thornton						3									
Victoria Harbor				2		1							1	• • • •	
Waubaushene	• • • •	• • • •			1	2	• • • •	• • • •	• • • •	• • • •		• • • •		• • • •	• • • •
Stormont— Aultsville						1									
Avonmore								• • • • •	• • • •	• • • •				• • • •	• • • • •
Cornwall		1			1	4	2	,	• • • •	1			i		
Crysler		$\hat{2}$			î		ĩ	3							
Mille Roches					$\overline{2}$	2		1							
Osuabruck Centre						3		1							
Wales															
Sudbury—										_					
Copper Cliff					• • • •	1	2		• • • •	. 1		• • • • •	6		••••
Sudbury	• • • •	• • • •	3	3	8	35	• • • •	1	• • • •	14	3	3	20	2	2
Temiskaming— Cobalt			4	8	4	21		4		11	8	2	10		
Cochrane			2		1	6	3						10	• • • •	• • • •
Englehart					- 1		- 1								
Gowganda						1		1							
Haileybury					2	7	1	3				1	1		
Hearst						• • • •									
Iroquois Falls				• • • •	• • • •					• • • •	• • • •	• • • •		• • • •	• • • •
Kapuskasing			• • • •		• • • •				• • • •	• • • •	• • • •	• • • •		• • • •	• • • •
Kirkland Lake New Liskeard	• • • • ,	••••						• • • •	1	• • • •	• • • •	• • • •	1	••••	• • • •
Schumacher						1	ì	• • • •			• • • •	• • • •	• • • •		• • • •
South Porcupine															
Smooth Rock Falls							1								
Swastika				1		1			- 1						
Thunder Bay—						i						أ۔			
Fort William			• • • •	• • • •		• • • •	1			8	1	8	22	• • • •	• • • •
Nipigon					• • • •		• • • • •		• • • •		• • • •	• • • • •	••••	• • • •	• • • •
Port Arthur	•		• • • •	• • • •	• • • •	8	• • • •	5	• • • •	2	• • • •	• • • •	4	• • • •	• • • •
Schreiber				• • • • •	• • • • •					• • • •		• • • •		••••	• • • •
Victoria—															
Bobcaygeon		2		4		1.		1.							
Coboconk	1	10	3	4											
73 1 73 11														• • • •	• • • •
Fenelon Falls	1			1	• • • •	2.	• • • •	• • • • •	• • • •	• • • •	• • • •		• • • •		• • • •
Kinmount.		1	- 0	- 0											
Kinmount.	1	1	2	1 3								1		1	• • • •
Kinmount	3	1	2 1	5 1	Э							1	1	1	• • • •
Kinmount	3	1	2 1	5 1	Э							1	1	1	• • • •
Kinmount Kirkfield Lindsay Little Britain Oakwood Omennee	$\begin{array}{c} 1 \\ 3 \\ \cdots \\ 2 \end{array}$	1	2 1 	1		$\frac{28}{1}$		$\frac{12}{2}$				1	1		• • • • • • • • • • • • • • • • • • • •
Kinmount.	$\begin{array}{c} 1\\3\\\ldots\\2\\\ldots\end{array}$	1	1 	1 	2	28 1  13		12 2 4 1				1	1		

# ONTARIO AT TORONTO FOR THE YEAR 1918.—SPECIMENS EXAMINED.—Con.

11111111	orrnes	Ita	tbies l	Diagno	rize						Mil	lk					Wa	ters		nens	
-	do E					Fo	ood	Perv-	atives		Bact	eriolo;	gical						cense	Specii	
			No Bo	egri dies	ons		tent	Pres	ati	Tub	ercie ac	Pus	Cells		sn	of			or Li	eons ;	Year
+		Animal	+	_	Animal Inoculations	Fats	Total Solids	+	-	+	_	+	_	Count	Extraneous Matter	Number of Milk Samples	Chemical	Bacterial	Liquors for License Department	Miscellaneous Specimens	Total for Year
• •																		····i			
																		2			
• •	• •							• •				::::						375	$\begin{array}{c c} 14 \\ 2 \end{array}$	47	
• •	• •	• • • •			• • • •			• •		• • • •							• • • •	• • • •			
٠.	• •			• • • •														• • • •			
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	2																				
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2	8	• • • •	• • • •			• • • •	• • • •	• •	• •			• • • •						19			
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٠.	• •	• • • •			• • • •					• • • •							• • • •	5			
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٠.	• •								• •									3			
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	Dip	hther	itic Sv	vabs.		rcu-	Тур	hoid			s	yphili	5		
	Rel	lease	Diag	nosis	lo Sp	us uta	Blo	ods.		Was	serma	nn Re	action	Trepo Pall	nema ida.
Municipalities								_	Colloidal Gold Reaction	Very Strongly Positive	Strongly Positive	<del>-i-</del>	_	+	
Waterloo-						i									
Ayr		1				9	2	6		• • • •	• • • •	• • • •	1	• • • •	
Breslau Elmira	• • • • •	• • • •	• • • •	i		1		••••	• • • •					• • • •	• • • •
Galt	. 7	16	9		2	14	1	4		1	1	2	8	1	
Hespeler					2	1				1		1			
Linwood			• • • •	8	1 5	1	• • • •	• • • • • • • • • • • • • • • • • • • •	• • • •		• • • •	• • • •	16	• • • •	
Kitchener New Dundee		59	• • • •	0		33 2	• • • •		• • • •		• • • •	• • • •	10	• • • •	
New Hamburg				4				4			1		3		1
New Germany					1										
Prescott					1	1	$\frac{\cdots}{2}$	• • • • • • • • • • • • • • • • • • • •	• • • •	• • • •	• • • •	• • • •	• • • •	• • • •	• • • •
Preston Waterloo					3			3					i		
Wellesley					1			1							
West Montrose										• • • •	• • • •				
Winter bourne Welland—		• • • •	• • • •		• • • •	• • • •	• • • •	• • • •		• • • •	• • • •	• • • •	• • • •	• • • •	• • • •
Bridgeburg			1	1	2	1	1	- 3							
Chippawa					$\frac{2}{2}$	3	î								
Fenwick													·		
Fonthill		• • • •	• • • •		• • • •			1		• • • •	• • • •	• • • •	• • • •	• • • •	
Fort Erie Humberstone		• • • •	••••			1		• • • •	• • • •				• • • •	• • • •	• • • •
Marshville				1				1							
Niagara Falls				1	2							1	6		
Port Colborne			• • • •	• • • •	2	10	2		• • • •		• • • •	• • • •	1	• • • •	
Port Robinson Ridgeway						3					• • • •	• • • •		• • • •	
Stevensville															
Thorold															
Welland	. 3	3	3		• • • •	6	• • • •	2		]	• • • •		5		
Wellington— Alma					1	5		1							
Arthur						$\frac{3}{2}$									
Drayton				11	. 1	6		6							
Elora		• • • •	• • • •		• • • • •	$\frac{3}{2}$	• • • •		• • • •	• • • •	• • • •	• • • •			
Erin Fergus				$\frac{1}{3}$		18	i	1 1			• • • •	1	3		
Glen Allan						4									
Guelph	. 24	74		54		6	4	10	_				29		
Harriston Hillsburg				····i	1	$\frac{2}{3}$	1		• • • •					• • • •	
Moorefield						1		_							• • • •
Morriston				1	. 1		1	1							
Mount Forest				:		8		1							
Palmerston Rockwood	. 2	3		, [	• • • •	3	• • • •		• • • •	• • • •	• • • •	• • • •	1	• • • •	
Wentworth—															1
Bartonville										,					
Din hugol:								2		1					
Dundas	. 4	1	1	5 6		14	1	3		1	2		ő	• • • •	
Hamilton		1	1			$\frac{2}{2}$		1		72	7	13	205		
Dundas Freelton Hamilton Lynden Stony Creek					1	$\bar{3}$									
Stony Creek											• • • •				
Waterdown		• • • •												1	

# ONTARIO AT TORONTO FOR THE YEAR 1918.—SPECIMENS EXAMINED.—Con.

	roes	l'a	. laine	Diagno	nel e			_			Mil	lk.					Wa	ters		nens	_
1000	CLOTTO I	10	ines	magn	1819	F.	ood	-44-0	 63		Bact	e <b>r</b> iolo	gical						cense	pecin	
			Ne Bo	egri dies	oms	Cor	tent	Preserv-	atives	Tub	ercle ac	Pus	Cells		sa	of			for Li	eons ;	Year
+	-	Animal	+	-	Animal Inoculations	Fats	Total Solids	+		-+-	-	+	-	Count	Extraneous Matter	Number of Milk Samples	Chemical	Bacterial	Liquors for License Department	Miscellaneous Specimens	Total for Year
	-		! 			<u>.</u> [	' [					[	1	1							
																		2 3			
	2				• • • • •			••	• •	• • • • •	• • • •							3 8	2		
	1																	4	2		
7	• •							• •	• •	• • • •								$\frac{1}{25}$	 45	1	
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• •	••	• • • •						•••	• •	• • • •			• • • •					2	2		
																		6			• • • •
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• •	٠.	1dog	• • • •	1	• • • •			• •	• •	• • • •	1		• • • •			• • • •	• • • •	18	1		
											]										• • • •
• •	• •							• •	• •			1					• • • •		• • • •	• • • •	• • • •
									• •									····i	• • • • •		
		1dog		1					• •										;		• • • •
3	4	1dog		1				• •	• •						1:			19 5	1		
		1dog		ĺ										,						• • • •	• • • •
• • •	• •	• • • •	••••	• • • •				• •	•	• • • •								• • • •			
		1dog		1														6	2		
1	1	• • • •			• • • •	• • • •	• • • •		• •	• • • •							• • • • •	8	19	)	• • • •
							·											1			
• •	• •	• • • •		• • • •	• • • •		• • • •	• •	• •					• • •							• • • •
																		2			
• •	• •		• • • •	• • • •					• •	• • • •	• • • •			• • •				8	• • • •	• • • •	
																		ī			
	1				• • • •				٠.								2	8	15	21	
	• •								• •									5			
	• •																				
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* *	• •	• • • •	• • • •	• • • •	• • • •		• • • •	• •	٠.		• • • •		• • • •	• • •	••••	• • • •	••••	• • • •	••••	••••	
- 1																					
i		1dog																1			
												;	]					1			
																		8	- 1	5	
••	٠.					l												2			
• •	٠.	• • • •		j • • • •	• • • •	• • • •	• • • •	•••	• •		• • • •		٠٠٠٠,			• • • •		6	• • • • !	• • • • • •	• • • •

	Dip	htheri	tic Sv	rabs.		ercu-	Tvn	hoid			S	yphili	8		
	Rel	ease	Diag	nosis		us uta	Blo	ods.		Was	serma	nn Re	action	Trep Pal	onema
Municipalities		-	+		÷		-}-	_	Colloidal Gold Reaction	Very Strongly Positive	Strongly Positive				_
York— Agincourt Aurora Downsville Humber Bay Islington Keswick King Kleinburg Lambton Leaside Long Branch Markham Milliken Mimico Mount Albert Mount Dennis Mount Joy Newmarket New Toronto Pine Grove Richmond Hill Scarboro Jct Schomberg Stouffville Sutton West Swansea	11	11	1155 	1 1 1 1 1 1 1 1 389 1 1 1 2 2		2	1	11 13 3	1	2 10	3	1 1 3	4  17		22
Todmorden	4	6	1	3					• • • •		• • • •			• • • •	• • • •
Toronto	22	44	f	_	6	27	6	24	24	289	60	118	1557	3	14
Unionville	20	26	30		1 2		1 	7		2			37	• • • • • • • • • • • • • • • • • • • •	
Totals	352	618	399	1389	431	1660	178	642	29	653	140	237	2816	8	31

#### ONTARIO AT TORONTO FOR THE YEAR 1918.—SPECIMENS EXAMINED.—Con.

Gonorrhea	Rab	oies D	iagno	osis					1	М	ilk	•			(	Wa	ters	as	imens	
G ₀					F	ood ntent	Preserv-	res		Bact	eriolo	gical						cens	Spec	
		Ne Boo	gri lies	ns	Cor	ntent	Pre	ati	Tub	ercle ac	Pus	Cells		s	f			or Li	sons	Year
+	Animal	+		Animal Inoculations	Fats	Total	+		+	_	+	-	Count	Extraneous Matter	Number of Milk Samples	Chemical	Bacterial	Liquors for License Department	Miscellaneous Specimens	Total for Year
1	1 dog 2 cows 1 dog 6 dogs 1 cat		1 1 5 1 1 1														1 2 2 2 2 2 10 6 4 6 75 1 188 2 2 2 2 2 2 2 1 1 3 3 1 4 5 6 4 6 6 7 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	28 2 2	11	
347 277							-						76			13	2200	594	333	

Total number of specimens examined during the year 1918, 13,458.

			Ot	ıtfits s	ent o	ut			Doses of Typhoid- paratyphoid Vac- cine supplied	ongh	te for of	Paster	ar pre- tive
Municipalities	lis nann)	lis da)	rhea		ıeria		jid		of Ty typhoi suppli	Whooping Congh Vaccine	nitra ention halmi	treat	No. of
	Syphilis (Wassermann)	Syphilis (Treponema Pallida)	Gonorrhea	Water	Diphtheria	T.B.	Typhoid	Total	Doses para cine	Whool Vace	Silver nitrate for prevention of Ophthalmia	ven treat	Injec- tions
	15	14.5			- 1							-	
Algoma— Blind River					12							i !	
Bruce Mines	. 6	i											
Chanleau	9		6		6	5	'						
Copper Cliff				12		25	12						
Creighton Mine			0				19	• • • • •	9	• • • • •			
Espanola		3	9	17	6		12		199	90	10		
Foleyet	1	3	3	18	ŋ	5	0		133				
Hornepayne Jellicoe	,	)		1									• • • • • •
Kapuskasing				4	19	10							
Levack				12							15		
Massey					12							1	
Sault Ste. Marie					-108	55	'			420	15		
Schumacher					24								
So. Porcupine					12				450				
Spragge											30		
Timmins			. 13	36	18	10	18		120	308	10		
Webbwood			3		6	9	6	• • • • •					
Worthington		8		12	• • • • •			• • • • •					
Brant—	,		28	9.1	75		18		457	726	196		
Brantford	; 9.	4	20	24	75	1979	10		18		100		
Kalvin			1						18				
Kelvin Onondaga								• • • • •	10				
Paris		3								190		)	
St. George		1											
D				1		ł							
Cargill			1			15							
Chesley						1			18	20			
Elmwood		$6 \ldots$	12	1		,	12				18	5	
Hepworth						10							
Kincardine					6						1		
Lion's Head	$\cdot   \cdot \cdot \cdot$				θ	9		• • • • •		42			
Lion's Head Paisley Port Elgin Ripley Tara Teeswater	•   • • •	•	• • • • •	b	• • • • •				15				
Port Eigin			• • • • •		• • • • •	20			- 40		9:	5	
Ripley Tara Teeswater		1	iliii	6	36	5	6		q	10			
Teeswater	•	6		3	6	5	6		9	24		5 2	4
Tiverton	11			1 4		5			ğ				
Walkerton			1 1	1	(	5 5	6				1		
Carleton-										j			
Ashton						. 20							
North Gower													
Ottawa	. 50	$00 \dots$				· · · · ·							
Dufferin—											1	1	
Grand Valley					1			• • • •					
Orangeville	•	1	1 1		18	3	) ()						
Dundas— Morrisburg			1	16	2-	35	1 1 9		. i				
Durham				10	24	9.	, 12						
Bowmanville	. 1	2	2 (	j	13	2 10	19		. <b></b>	as	3	1	J
Enniskillen						`				28		0	
Millbrook				10	13	2	12		24				
Orono		6	. 12		1							$0, \ldots$	
Pontypool												1	
TOUGH POOL													

Outfits, Vaccines and Treatments supplied by Laboratory at Toronto during the year 1918.—Continued.

			0	utfits	sent o	out			phoid- d Vac- ed	Cough	te for of	vei	ur pre- ntive tment
Municipalities	Syphilis (Wassermann)	Syphilis (Treponema Pallida)	Gonorrhea	Water	Diphtheria	T.B.	Typhoid	Total	Doses of Typhoic paratyphoid Va cine supplied	Whooping C Vacciner	Silver nitrate prevention of Ophthalmia		No. of Injections
Elgin-	1					1							
Bayham St. Thomas Essex—													
Amherstburg Belle River				• • • • •					81 72		1 1		
Essex Ford City						75			90	42			
Harrow				3		!	'		18				
Kingsville				;		10							
Leamington	3		3	1 15	12	5	b		309				
Pelee Island		'							27	212	15		
South Woodslee				6	18		• • • • •			82		• • • • •	• • • • •
Stony Point Walkerville			• • • •	• • • • •	1 372	25	• • • • •	• • • • •		82			
Windsor	170	6	8		3,482	85			1.160				
Frontenae-									1.0		_		
Cataraqui Kingston						• • • • •	• • • •	• • • • •	$\begin{array}{c} 12 \\ 5.220 \end{array}$		1	•••••	
Mountain Grove													
Sharbot Lake									18				
Glengarry— Alexandria					6	15			9				
Apple Hill				5					18				
Maxville					12		• • • •						
Grenville— Cardinal				3								! !	
Kemptville									18		20		
Merrickville									36				
North Augusta Prescott			• • • •		12						100		
Spencerville	1	i 1	1	1	6	5							
Grey— Chatsworth					48				12	112	10		
Dromore					40	10			12				
Durham	1			3		10	12		18				
Flesherton	1	1	1	• • • •	6	5 10				• • • • •			
Markdale	1			4	6	-						,	1
Meaford				12									
Owen Sound Thornbury		5 7			192				36				
Haldimand		1			"	9	\ '						
Caledonia		;			6								
Canfield Cayuga	. 1	. 1	1	• • • • •	6	5	6		6				
Dunnville						35	30		45				
Fisherville	9/		• • • •	· · · · ·	10				. 30 . 30				
Hagersville Jarvis	20	3 3		3	12						. ē ;,		
Halton-								1	_				
Acton		2				60							
Zuring Wil	42		• • • •	•)(		1 00	1						

N.B.—Walkerville, Jan. 19: 360 Culture Media, to Dr. Allison. " Jan. 17: 250 Culture Tubes, to Dr. Allison.

			Oı	atfits		out			yphoid- bid Vac- lied	Cough	ate for n of nia	Paste ven trea	ur pre- tive tment
Municipalities	Syphilis (Wasserman)	Syphilis (Treponema Pallida)	Gonorrhea	Watr	Diphtheria	T.B.	Typhoid	Total	Doses of Typhoid paratyphoid Vaccine supplied	Whooping Vaccine	Silver nitr preventio Ophthalm	cases	No. of Injections
Halton—Con. Freeman Georgetown Milton Oakville	37	7	3 7		66	10	6		58		30		
Hastings— Baneroft Belleville Deseronto Eldorado Madoc Marmora Maynooth Spring brook Sterling Trenton Tweed	1 1 4 	1 2	1 10 6	38 2	18 12 6 24 6 12	10 5 10 5 5 5	12 6  6 12 6		15	28  70  28	20		
Huron— Crediton. Ethel Goderich Seaforth Varna. Zurich.	3				19		24		9	30			•••••
Kent— Blenheim Chatham Dresden Merlin Ridgetown Thamesville Tilbury Wallaceburg	132	2	12	124 31 3	12	60 35 20 5	84  12		258 6,475 378 150 180	84	240 20		•••••
Lambton— Alvinston. Camlaehie Inwood Oil Springs. Petrolia Sarnia Thedford Watford. Wyoming	3	5	4	2	12	30 20	6		9	42 14	10 30		
Lanark— Almonte		6 6	6	12 18		30	1		162				• • • • • •

			0	utfits	sent o	ut.			rphoid- d Vac- ed	hgno	te for of a		ur pre-
Municipalities	Syphilis (Wassermann)	Syphilis (Treponema Pallida)	Gonorrhea	Water	Diphtheria	T.B.	Typhoid	Total	Doses of Typhoid- paratyphoid Vac- cine supplied	Whooping C Vaccine	Silver nitrate for prevention of Ophthalmia	cases	No. of Injections
				1		ſ						ſ	1
Leeds— Bellamy Brockville	18	3			• • • • •	 45			12 36				
Elgin	6	3	6	3	6	5	6		9		5		
Lansdowne Mallorytown							50	• • • •			25		
Westport					12								
Lennox— Napanee				26							10		
Newburg										38			
Odessa										24			
Tamworth	6	• • • • •	• • • •	• • • • • •	12			• • • • •		56	15	• • • • •	• • • • •
Beamsville Grimsby	6		6	6		10			12				
Grimsby	1		1	1						30	5		• • • • • •
Niagara-on-the- Lake	5			6		30				56			
Port Dalhousie				3							15		
St. Catharines	77	1	7	36 6	36	135	18	: • • • •	293				48
Middlesex—			- 1		• • • • •	• • • • •	[						
Ailsa Craig					12	30							
Lambeth	8		<u>R</u>	• • • • •	24	$\frac{\cdots}{20}$	24	<b></b> .		20	5 10	• • • • •	• • • • •
Ilderton Lambeth London	200			160	482				33,100	84	100		
Parkhill				2			!			84	10		• • • • • •
Strathroy Muskoka—			i			20	1	• • • • •	108	• • • • •		• • • • •	• • • • • •
				8					18	336			
Bala	+	• • • • •	• • • •			10	12	• • • • •		• • • • •	• • • • • •	• • • •	• • • • • •
Gravenhurst	12			16	144				3		30		
Huntsville				6		20							
Port Carling	• • • •	• • • • • •	• • • •	1	6	• • • • •	• • • •	• • • • •	• • • • • •	• • • • •	• • • • • •	• • • • •	• • • • • •
Severn Bridge					24	20							
Gravenhurst Huntsville Port Carling Port Sydney Severn Bridge Windermere Nipissing—	• • • •	• • • • •	• • • •	•••••	• • • • •	• • • • •		• • • • •		28			• • • • • •
Bonfield						10							
Burwash	24		24										
Cobalt	36 36	3	2	$\frac{12}{102}$	$\frac{6}{24}$	30 9	6			14			
Cochrane				8						84			
Coniston	8		20	36	• • • • •			• • • • •			:		
Elk Lake Englehart				• • • • •	• • • •			• • • • •	24			: : : :	
· Garson Mine													
Gowganda	1	1	$\frac{7}{22}$	6	6	10			1	• • • • •	1		
Iroquois Falls				36 6	18	15			4,500				· • • • · ·
Kirkwood Lake		- 1					6						
Matheson New Liskeard	• • • •	• • • •	• • • •	• • • • •	6				6	62			
North Bay	24		24	54					591				
North Cobalt	]			. 4			1					[	

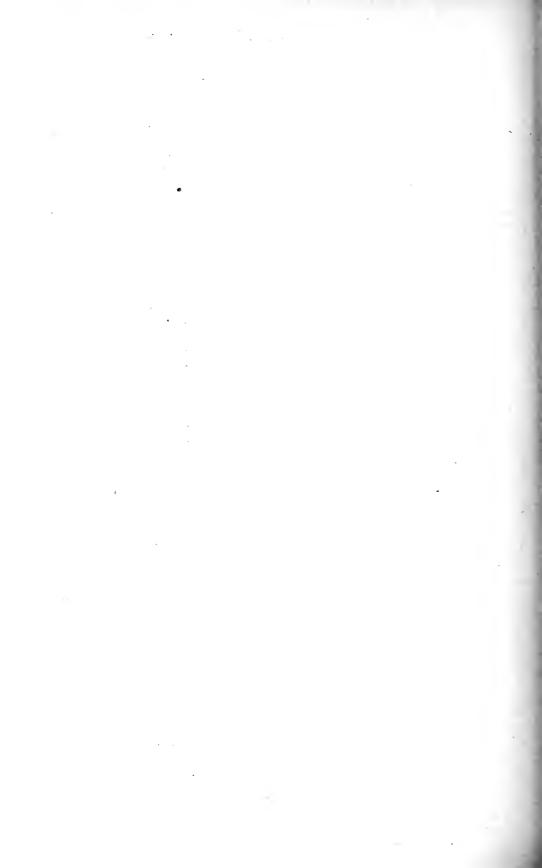
			01	ıtfits s	sent o	ut			yphoid- id Vac- ied	Cough	te for of a	Paste ven	ur pre- itive tment
Municipalities	Syphilis (Wassermann)	Syphilis (Treponema Pallida)	Gonorrhea	Water	Diphtheria	T.B.	Typhoid	Total	Doses of Typh paratyphoid V cine supplied	Whooping C Vaccine	Silver nitrate prevention of Ophthalmia	cases	No. of Injections
Nipissing—Con. Smooth Rock Falls Sturgeon Falls Sudbury Swastika Whitney	 55	5	i	 96 12	 12	60	12		335 60	42 28			
Norfolk— Delhi Langton Port Dover Port Rowau Simcoe Waterford	12  36		3	2	24	40			54	328 168			
Northumberland— Brighton Campbellford Castleton. Cobourg Colborne Grafton. South Monaghan Warkworth	90 	1	 3 6			10 10  25 5 5	24 6 6		9 85	52  358 34	30	1	24
Ontario— Beaverton Cannington Oshawa Pickering Port Perry Uxbridge Whitby	61		12	24	••••	 5	42	•••••	27		••••		
Oxford— Drumbo Embro Ingersoll Mount Elgin Norwich Otterville Tavistock Tillsonburg Woodstock	12	6	24	 27 6	24 6	10 45 10 25	12		59 200 18 9 78	50 200 182	25		
Parry Sound— Burk's Falls. Depot Harbour Kearney. Mowat Sta Nobel Pakesley Parry Sound Sprucedale Sundridge. Trout Creek	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 · · · · · · · · · · · · · · · · · · ·	14	6 6 39	6		6		9	28 28 38	1ā		

			0	utfits	sent o	ut	; -		rphoid- id Vac- ied	Cough	ute for of	Pasteur pre- ventive
Municipalities	nn)	e -	ea		Ţi.				Typlop	0 0	itra	-
, au la respectation	ilis	ilis nem lida	rrh	1	the		loid		s of	cine	r n	No. of
	Syphilis (Wassermann)	Syphilis (Treponema Pallida)	Gonorrhea	Water	Diphtheria	T.B.	Typhoid	Total	Doses of Typh paratyphoid V cine supplied	Whooping (Vaccine	Silver nitrate prevention of Ophthalmia	ventive treatment  No. of Injections
D. '									1			
Peel— Bolton	10				19					30	,	
Brampton	1		1		6							
Caledon										56		
Caledon East		• • • • •		1	• • • • •	• • • • •	• • • •			• • • • •		
Cooks ville				1								
Palgrave										60	30	
Port Cred it Streetsville					12	ΤΩ	• • • •					1 91
Perth-												
Atwood Listowel												• • • • • • • • • • • • • • • • • • • •
Mitchell									28			
St. Mary's		·				10			24		5	
Stratford Peterboro—	2		• • • •	12	30	45	84	• • • • •				• • • • • • • • • • • • • • • • • • • •
Bailieboro				3						56		
Hastings					6	5	6					
Keene Lakefield			····i			····· 5				14		
Peterboro	72			18	6	5 5				448		5 102
Prescott—												
Fournier Hawkesbury	6		12	10	12	$\frac{20}{20}$				100	315	
St. Eugene												
Prince Edward—	6	e.	e								.,-	
Bloomfield Rainy River—		6		• • • • •	1		- 1			• • • • •	20	
Dryden			• • • •		]							
Ft. Frances Kenora										110		
North Pines												
Rainy River												
Renfrew— Arnprior	1								36			
Beachburg												
Eganville												• • • • • • • • • • • • • • • • • • • •
Jewellville Pembroke	7		1	72	6	5			42	····42		
Renfrew					72	65						
Westmeath Russell—			• • • •		6	5	6	• • • • •	6	39	35	• • • • • • • • • • • • • • • • • • • •
Bourget	1			5	144	10	12		30			
Russell						10			1	14	25	
Simcoe— Barrie					36	95	19		20:			
Bond Head	i	i	30		6	35 5	6					
Corley						10						
Churchill Coldwater		• • • • •		6	6	5	• • • •			28	10	• • • • • • • • • • • • • • • • • • • •
Collingwood	12			20	12	10			1		10	
Cookstown	6				6				3			
Edgar Elmvale							• • • • •		24	28		
Hillsdale	·			1					18			
Midland	14	7	1		30	45						

YEARLY REPORT.

			uu.					· · · · · · · · · · · · · · · · · · ·					
		1 1	0	utfits	sent o	ut			Doses of Typhoid- paratyphoid Vac- cine supplied	Cough	ate for n of ia	ven	ur pre- tive ment
Municipalities	lis mann	lis ema da)	rhea		heria		pid		of T typhe supp	ping ine	nitr ention halm		No. of
	Syphilis (Wøssermann)	Syphilis (Treponema Pallida)	Gonorrhea	Water	Diphtheria	T.B.	Typhoid	Total	Doses para cine	Whooping Vaccine	Silver nitrate prevention of Ophthalmia	cases	No. of Injec- tions
Simcoe—Con.													
Orillia			13		132	55							
Penetang						15	• • • •						• • • • •
Phelpston					• • • • •	10	• • • •		• • • • •	48			• • • • • •
Shanty Bay Stayner Victoria Harbor Wanbanshene				2	19	• • • • •	••••		••••	• • • • •			• • • • • •
Victorio Harbar	2	1	1	9	12	Э	0	••••	18				
Wanbanchana				ے ا			• • • •		10	106			
Stormont—		i							• • • • • • • • • • • • • • • • • • • •	100		••••	
Cornwall	6	6	6	24	12	20	12						
Crysler	3		2		18	5	6						
Osnabruck Centre.				4.		5							
Thunder Bay—													
Fort William Port Arthur Schreiber	143	1	1		6		- 6		48	1.220	90		
Port Arthur	1	1	1		42	30	42		48	908	150		• • • • • •
Victoria—			• • • •	4	• • • • •	• • • • •		• • • • •	• • • • • • •	98	• • • • • •	• • • • •	• • • • • • •
Doboorgoon						1		-		28			
Coboconk	1 1	1	1		30	5	- 6		-				
										28			
Kinmount Lindsay Little Britain			12	37	12	10	60						
Little Britain									18				
Waterloo—		1	1	}	1			1					
Ayr		5		8	12	15	6			10			
Elmira			· · · · <u>·</u>	8	6	5	6				· · · · · <u>·</u>		• • • • • •
Galt	19	7	1	• • • • •	48	б	18		6	43	Э		• • • • • •
Hespeler	06	26	79	3.00	500	40	· · · · · · · · · · · · · · · · · · ·				50		• • • • • •
Kitchener. New Hamburg Preston. St. Jacobs Waterloo.	30	1	1 5	30	200	10	U		27		15		
Preston				2					18		10		
St. Jacobs											5		
Waterloo	4				6	5	6						
wellesley						19							
West Montrose							6		6				
Welland— Bridgeburg Chinnawa						10	7						10
Chinneyro		• • • • •		10	6	10 25	0.				20	4	48
Bridgeburg Chippawa Fenwick	6	6	6	10	0	20	U		30	• • • • •	30		
Fort Erie		1	1	1	1	10		1			1.		
Humberstone					1				90				
Niagara Falls	11	1	1	33	6	5	18		30		205		
Niagara Falls Port Colborne Port Robinson	4				12	10	12		108				
Port Robinson			1	1	1 15	5)	- b	1					• • • • •
Kidgeway								,	72	• • • • •			
Stevensville	• • • •				6			• • • • •		10		• • • • •	• • • • • •
Thorold								• • • • •			110		
Wellington-	18	'	1	12	6	0	U	• • • • •	93	112	110	• • • • •	• • • • • •
Arthur	6		l		12	10	12		6				
Drayton													
Elora										20	734		
Erin				12		10							
Fergus		1	1	12  45	6	25	6					,	
Guelph	61	1	1	45	18		6		18				
Harriston				_ <del>1</del>									
Hillsburg Mount Forest									ь				
Mount Polest				· +		19				190		!	• • • • • •

		-	0	utfits	sent o	ut	-		yphoid- id Vac- ied	Cough	ite for n of ia	ven	ur pre- tive tment
Municipalities	Syphilis (Wassermanu)	Syphilis (Treponema Pallida)	Gonorrhea	Water	Diphtheria	T.B.	Typhoid	Tota]	Doses of Typh paratyphoid Cine supplied	Whooping (	Silver nitrate for prevention of Ophthalmia	cases	No. of Injections
Wellington-Con.	_	1	1		10	15	10				15		
Palmerston	5	_	6	4	18	15							• • • • •
Rockwood			6	, <del>"</del>									
Wallenstein					6	5							
Wentworth-													
Binbrook										28			
Dundas	6		• • • •	6	18	10	12						
Hamilton			• • • •		····i2	10	• • • • •		342	2,364	105	• • • • •	
Lynden													
Stony Creek				2									
York-				_									
Aurora										38			
Downsview				1									
· Fairbank				2									
Humber Bay King			••••	1	6								
Kleinburg					,								
Lambton Mills													
Locust Hill				1		l							
Long Branch	6	6		19					6				
Maple									6				
Markham													
Mimico		• • • • •	• • • •	2	528		18		840				
Mount Albert Newmarket	64				6	5	6		 				
Pine Grove	04		1										
Queensville									14				
Richmond Hill	6		31	,	36	10					35		
Roche's Point				1									
Scarboro'				1									
Stouffville	6		• • • •	12	19								
Sutton West Thornhill		,		12							15		
Todmorden				6	12					3,10	10		
Toronto	1254	27	315	31	90	25			116360		180	1 8	19.
Unionville					6					25	20		
Weston	72			16			18		24				
Woodbridge	• • • •	• • • • •		1									
Wychwood The Provinces—	• • • •		• • • •	1	• • • • •								
Montreal, Que										48			
Quebec, Que							1		5,500				
St. John, N.B									8,610				
St. John's, Nfld									5,590			1	
Saskatoon, Sask									10.500	140			
Victoria, B.C				• • • • •		• • • • •			16,500				
Winnipeg, Man	• • • •		• • • •	••••	•••••	• • • • •			46,475	• • • • •			
	\						<u></u>						-
M 4 1	635	207	1,039	2,659	9,875	3,155	1,845		334,629	35,596	6,554	23	582
Totals	کټ ا	N 1	-	9	) on	_	∞		9 9	1 10	100		100



# REPORT OF THE BRANCH LABORATORY OF THE BOARD AT LONDON (INSTITUTE OF HEALTH)

The number of examinations made by the Branch Laboratory of the Provincial Board of Health at London (Institute of Public Health) in 1918 were as per table:

EXAMINATIONS.	
Diphtheria:—	
Swabs for Release	897
Positive	
Negative 607	
Swabs for Diagnosis	2,340
Positive 305	-,
Negative	
Sputums for Tubercle Bacilli	1.045
Positive	-,
Negative 930	
Blood for Typhoid Reaction	267
Positive	
Negative 190	
Colloidal Gold Reaction	83
Syphilis—Wassermann Reaction	1.200
Very Strongly Positive	1,200
Strongly Positive	
Positive 68	
Negative 790	
Treponema Pallida	4
Positive 2	•
Negative	
Gonorrhea	103
Positive 29	100
Negative 74	
Rabies Diagnosis	5
Food Content	287
Preservatives Negative	14
Milk for Examinations	131
Extraneous Matter	2
Water for Bacteriological Analyses	729
Miscellaneous Specimens	411
	411
Total	7,527

	Dip	hther	itic Sv	vabs.		ercu-	Typ	hoid			s	Syphil	is		
	Rel	ease	Diag	nosis		us uta	Blo	ods.			nann	React	ion	Trepo Pai	nema lida.
Municipalities	+		+	_	+		+		Colloidal Gold Reaction	Very Strongly Positive	Strongly Positive	-+-	_	+	_
Algoma—		1													
Hornepayne Brant—					• • • •	• • • •				1	• • • •	• • • •	1	• • • •	
Brantford	• • • •				3	$\frac{3}{7}$		1			1		2		
Paris Bruce—	• • • •		• • • •	1	• • • • •	'	• • • •	1		• • • •			• • • •		• • • •
Elmwood			,												
Kincardine Lucknow					1		· · · · i	• • • • • • • • • • • • • • • • • • • •		• • • •		• • • •		• • • •	• • • •
Mildmay			1		1	5			1						
Paisley											1				
Port Elgin Southampton						• • • •				• • • •					
Teeswater				1		i									
Elgin—															
Aylmer Dutton	• • • • • • • • • • • • • • • • • • • •	• • • •	$\frac{1}{2}$			1 2		• • • •		• • • •	• • • • •	• • • •		• • • •	
Lawrence			ī												
St. Thomas			1	6	1		1			11		3	26	1	• • • •
Union			1	• • • •	• • • •		• • • •	• • • •	• • • •	• • • •	2	• • • •	• • • • •	••••	• • • •
West Lorne				4											
Essex—		1				,									
Amherstburg Comber			• • • •	• • • •		1 1	3			• • • •	• • • • •			• • • •	
Essex															
Ford City	• • • •	1		11	1		1	3	• • • •		• • • •	• • • •			• • • •
Belle River Harrow					3		• • • •				1		1		• • • •
Kingsville	1				2	2									
Sandwich South Woodslee						• • • •	• • • •			• • • •	• • • •	• • • •		• • • •	
Walkerville		3		119		3	• • • •	$\frac{1}{2}$	• • • •			1	3	• • • •	• • • •
Wheatley						1	2	4							
Windsor	8	48	• • • •	78	1	1	• • • •	6	• • • •	1	1	3	5	• • • •	• • • •
Burlington					1			!							
Haldimand-															
Dunnville		• • • •	• • • •	1	1	3	• • • •	4	• • • •	• • • •	• • • •	• • • •	• • • •	• • • •	• • • •
Marmora															
Huron—				١,											
Blyth					• • • •	1	• • • •	3	• • • •		• • • •	• • • •			
Crediton				1						١			1		
Exeter		• • • • •		1			• • • •		• • • •		• • • •		• • • • •	••••	• • • •
Exeter			1	2		1		2		4					
Kirkton				1		]	1		• • • •				• • • •		• • • •
SeaforthWingham															
Zurich															
Kent—														- 1	
Blenheim Chatham	• • • •	• • • •	• • • •	3	6 1	18 10	2 4	15		O.	3	····5	12		$\frac{\cdots}{2}$
Dresden						1		15 							
Duart	!				. 3	6	!	اا	• • • •	••••		• • • •	1		• • • •

#### ONTARIO AT LONDON FOR THE YEAR 1918. -SPECIMENS EXAMINED.-Con.

Gonorrhea	R	abies I	Diagno	sis						Mill	k		-			Wa	ters	3	imens	-
ő						od	108	atives		Bacte	riolog	ical						cens	Spec	
		Bo	egri dies	ons	Con	tent	Pre	ati	Tub Ba	erele	Pus	Cells		sn	of			or Li	eous	Year
+	Animal	-+-	_	Animal Inocu'ations	Fats	Total Solids			+		-+		Count	Extraneous Matter	Number of Milk Samples	Chemical	Bacterial	Liquors for License Department	Miscellaneous Specimens	Total for Year
1.																	ļ			
							• •		• • • •				• • •	••••						2
						••••			••••				• • •	• • • •						11 9
																			1	1 2 4
	i											• • • •	• • •						1	10 1
								•••												1 1 2
								• • • • • • • • • • • • • • • • • • • •								2			• • • •	5 12 2
										• • • •									1	5 12 2 53 2 2 5
				• • • •												3	3			1 4 7 17
					8	3		7					8							1 28 28 2 181
																			1	
	2																			15-
1																				10
• •	1	•	•	• ••••			•								•			•••	• • • •	1
				•			:										5			8
	3		:		i	.  3	: :	5	5				i	3		: :	3	3	3	6
																			2	
••	•- •••			· ····	•   • • •	• • • • •	•	.		• •	• • • • •			• • • •		• • • •	•			
1	3					: :::		: ::								. 18	1 17: 1 1:	2		423

	Di	phther	ritic S	wab-		ercu-	Typ	hoid			,	- Syphil	i×.		
	Re	lease	Dia	gnosis	s ₁	outa.	Die	ious		Was	serma	n Rea	ction	Trep Pa	onema Hida
Municipalities,				-		_			Colloidal Gold Reaction	Very Strongly Positive	Strongly Positive	DO: 1	_		-
Kent—Continued Merlin			1							1	1	1	6		,
Ridgetown	· · · · · · · · · · · · · · · · · · ·	3				1	2	6 2			1		2		
Lambtou— Arkona		1						1			1				
Camlachie	1	5	1	5		4									
Courtright	• • • •	• • • •	• • • •	$\frac{1}{2}$	1	2	• • • •		• • • •	• • • •	• • • •		• • • •		
FlorenceInwood				$\frac{2}{6}$		1 9			• • • •		1				
Oil Springs				$\tilde{2}$			••••								
Petrolia	• • • •		• • • •	• • • •	3		····i	3	• • • •	• • • •	• • • •	• • • •	• • • •	• • • •	
Sarnia				$\frac{\cdots}{2}$	4	···· 5					2		1	• • • •	
Sombra							2	• • • •							
Watford	• • • •		····i	2 1	• • • •	4	$\frac{\cdots}{2}$	4	• • • •	• • • •	• • • •		• • • •	• • • •	
Lincoln—		1	'	1	• • • •		_	*		• • • •	• • • •		••••	• • • •	
Beamsville								• • • •				1			
St. Catharines Middlesex—	• • • •		• • • •	••••	• • • •		• • • •	• • • •	• • • •	• • • •	• • • •	1	1	• • • •	• • • •
Ailsa Craig						1									
Byron	• • • •			4	7	40		7		2			10		
DorchesterGlencoe	• • • •	• • • •	• • • •	5	• • • •	$\frac{1}{2}$	• • • •	• • • • .	• • • •	2	1		2	• • • •	• • • •
Granton	· · · ·			2		4									
Hyde Park						2								• • • •	
Ilderton Komoka	• • • •	1	2	4	• • • •	1	1	• • • •	• • • •	• • • •	• • • •	• • • •	!	• • • •	• • • •
Lambeth						4		1							
Lobo				1											
London	264	539	245	1695	$\frac{62}{1}$	529 1	$\frac{24}{1}$	64	82	213	48	46	625	• • • •	• • • •
Mt. Brydges						1		1	i		····i		1		
Newbury				4		2					• • • •		,		• • • •
Parkhill Poplar Hill	····i			$\frac{\cdots}{2}$	2	3	• • • •	1	• • • •	• • • •	• • • •	• • • •	• • • •	• • • •	• • • •
Strathroy					3	10		5					!		
Thorndale		• • • •		[]			• • • •	1			• • • •	• • • • •	• • • • •	• • • •	
Belmont	• • • •		• • • •	• • • •	···i	3	• • • •	• • • •	• • • •	• • • •	• • • •		• • • • •	• • • •	• • • •
Norfolk—					- 1								••••		••••
Lakeville Simcoe			• • • •	1	• • • •				• • • •	• • • •	• • • •	• • • •		• • • •	
N'thumberland & Dur-	• • • • •	• • • •	• • • •	• • • • •	• • • • •		• • • •	2	• • • •	• • • •			• • • •	• • • •	• • • •
ham—							i				1				
Millbrook			• • • •		• • • •	5	• • • •	• • • •	• • • •	• • • •	• • • •	• • • •		• • • •	• • • •
Ontario— Lake Couchiching						1									
Oxford—	- 1	-			]		-					Ì	-		
Embro	• • • •	• • • •	• • • •		1	1	1	1	• • • •	• • • • •	• • • •	• • • •		• • • •	
Ingersoll	• • • •		1	2	1	14	4	9	• • • •	l l			2		
Mount Elgin				1		1									
Lakeside	٠ا	!	1	1	••••		!	• • • • !	٠١	• • • • !	• • • • • •		!	!	• • • •

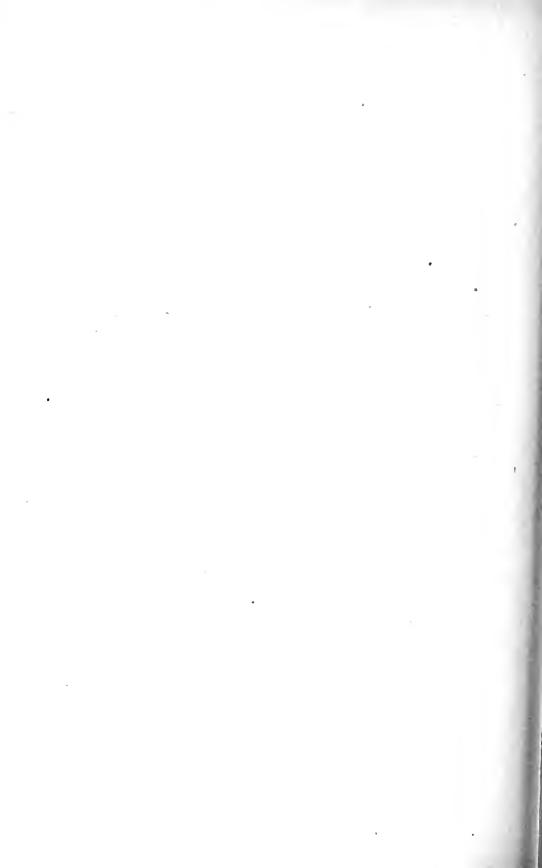
# ONTARIO AT LONDON FOR THE YEAR 1918—SPECIMENS EXAMINED.—Con.

	Thea.	Ra	bies	Diagr	iosis.					Mi	lk.					Wa	ters.	-		i O
-	- Gouorihea.		B-	egri odies	thations		ood ntent.	Preserv	a- 9	Bacte		cal.			=	1		cense Det	Specimen	
		Animal	1-		Animal Inoculations	Fat	Total Selids		-   T	Bac.	Pus	s Cells	Count	Extrancous Matter	Number of Milk Samples	Chemical	Bacterial	Liquors for License Dept.	Miscellaneous Specimens	Total for Year
	1						· · · · · ·			•••••	· · · · · · · · · · · · · · · · · · ·					1			1 5	12 32 23
1 1	1															1	1			3 16 5 3 17 4 7 2 14 2 10
1	••																••••			9 2 2
21	1					208			1				106	2					362	1 91 111 55 66 2 9 12 5 3 3 11 6 9 9 3 3 600 1 1 3 1 1 1 2 2
			••••																5	10
						• • • •			-				ĺ							1
1			• • • •		• • • •						• • • •			• • • •		ii	21			9 92 2 24 3

	Dip	hther	itic Sw	abs	Tube		Typl	noid			Sy	philis			
Waster Date	Rele	ease	Diagr	osis	Spu		Typi Blo	ods		Wasse	rmanı	n Read	ction	Trepor Pall	nem ida
Municipalities	+		+	_	-			_	Coloidal Gold Reaction	Very Strongly Positive	Strongly Positive			+	_
Oxford—Continued. Thamesford Tillsonburg Woodstock Peel— Brampton			····	 2	····· ₂	1	2 1 1	 2 3		1		2	 2		•••
Perth— Listowel Mitchell St. Mary's Stratford Prescott—			1	2 2 3	 3 1	 3 7	4	 6 1	• • • •	1 1	2		6		• • •
Hawkesbury			1	• • • • •			••••			3			1 i	1	•••
Smooth Rock Thunder Bay— Fort William Waterloo—										1			2		
Baden				5		1 	···· ··· 11	11		1	 5		36		
New Dundee						i 1								•	
Wellington— Clifford Drayton Guelph				1 5		180	 i					 1	26		• •
Harriston										1			…i 2		
York— Mimico Stouffville Toronto				2									$\begin{array}{c} \dots \\ 1 \\ 2 \end{array}$		
Grand Total	290	607	205	2025	124	930	77	190	8	3 270	72	68	790	$-\frac{1}{2}$	-

# ONTARIO AT LONDON FOR THE YEAR 1918.—SPECIMENS EXAMINED.—Con.

	hea	Ra	bies I	Diagno	sis		•				Mi	lk					Wa	ters	ot.	<u> </u>	
	Gonorrhea		Ne Bo	gri dies	utions	Fo	ood itent	ser	re- va- ves	1	Bacteri	ologic	cal			<u>ن</u> د			ense Der	Specime	
_					nocal		lids			Tub	ercle ac.	Pus	Cells		s n	of Mil		_	or Lie	eous	Year
4	-	Animal	+	_	Animal Inoculations	Fats	Total Solids	+		-1-		-+-		Count	Extraneous Matter	Number of Milk Samples	Chemical	Bacterial	Liquors for License Dept.	Miscellaneous Specimens	Total for Year
1	1 1	•										• • • •			• • • •	• • • •		• • • •	• • • •	· · · · i	3 6 16
••	•••		• • • • •					• •	•••		• • • •					• • • •	• • • •		• • • •	• • • •	1
	4				••••											• • • • •	 3	3		$\begin{array}{c} 1 \\ \dots \\ 2 \end{array}$	8 1 24 33
		ļ																			1
	:-																				1
٠.																				2	7
	• •																				2
••	2 2 2 									••••	• • • •			•••						2	3 2 82 1 1
• •	•••		• • • •									• • • •					3	3	• • • •		6
••							• • • •		•••						• • • •					$\frac{2}{2}$	2 3 227
• •		• • • •						• • •				• • • •					1	4			9
				• • • •																	3
• • •	•••		• • • •				• • • •														$\frac{2}{1}$
	74	5				230	57	<u></u>	 14					131	$\frac{\cdots}{2}$		344	385		411	7527



# REPORT OF THE BRANCH LABORATORY OF THE BOARD AT KINGSTON

The Chairman and members of the Provincial Board of Health:

Gentlemen.—I have the honour to submit the report of the work done in the Local Laboratory of the Provincial Board of Health during the year 1918. In this year 4.700 specimens were examined as per appended table.

Swabs for Release from Quarantine		365
Positive	137	000
Negative	228	
		0.40
Swabs for Diagnosis		868
Positive	120	
Negative	748	
Sputums for Tubercle Bacilli		932
Positive	146	
Negative	786	
Blood for Typhoid Reaction		650
Positive	168	
Negative	482	
Syphilis-Wassermann Reaction		658
Positive	312	000
Negative	346	
Treponema Pallida		4
Positive		*
	2 2	
		0.55
Gonorrhea		375
Positive	72	
Negative	303	
Water for Bacteriological Analyses		564
Miscellaneous Samples		284

No. 21

	Dip	htheri	tic Sw	abs.		rcu-	Тур	hoid			8	yphili	s		
	Rel	ease	Diag	nosis	Spi		Blo	ods.	W	assern	nann l	Reacti	on	Trepo Pal	nem lida.
Municipalities									ıction	ngly					
,				_	-,-	-	-†	_	Colloidal Gold Reaction	Very Strongly Positive	Strongly Positive	+)-		-:	_
									ပို့ဘ	P.0	5.5				
						-						1	!	1	
Algoma— Richard's Landing				3		1									
Brant—		1													
Mohawk Bruce—		1	• • • •			• • • •	• • • •			• • • •	• • • •				
Paisley				1				4					:		
Carleton—															
GalettaKinburn	• • • •											• • • •	• • • •	• • • •	
Manotick															
Ottawa											8		12		
Richmond							• • • •	1					• • • •		• • •
Metcalfe Dundas—	• • • •		• • • •	Э	• • • •	1	• • • •	• • • •		· • • •	• • • •	• • • •	• • • •	• • • •	• • • •
T .					1										
Chesterville															
Winchester Essex—	• • • •		• • • •	• • • •	2	7	• • • •	3	• • • •		• • • •	• • • •		• • • •	• • •
Essex						1									
Frontenae—															
Barriefield						_				31	21	22	1	1	
Inverary					• • • •		1					• • • •		1	• • •
Kingston		201		616		523				51	101	44			
Portsmouth							5			4			6	• • • •	• • •
Sydenham				2											
Verona			1			2	2	6							
Wolfe Island			• • • •					3							
Glengarry— Alexandria						-			)	1					
Dalkeith						3									:::
Dalhousie Mills						1									
Lancaster													• • • •		
Maxville							• • • •						1	3	
Grenville—	İ														
Algonquin															
Cardinal															• • •
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# OF ONTARIO AT KINGSTON FOR THE YEAR 1918.—SPECIMENS EXAMINED.

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# OF ONTARIO AT KINGSTON FOR THE YEAR 1918.—SPECIMENS EXAMINED.—Con.

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# OF ONTARIO AT KINGSTON FOR THE YEAR 1918.—SPECIMENS EXAMINED.—Con.

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# THE SANITATION OF ISOLATED RESIDENCES AND INSTITUTIONS.

PETER GILLESPIE, M.E.I.C.

(Read before Canadian Public Health Association, Toronto, May, 1919.)

Community health can be preserved only when sources and modes of infection are well understood, for only then can preventative and remedial measures be intelligently planned. The danger in an impure water, for example, lies in the presence therein of germs possessing well-known characteristics. To remove filth and to admit sunlight is to banish those germ carriers that do not thrive in dry, clean and sunlit environments. Present-day methods of combating typhoid and Asiatic cholera are based on the knowledge that these diseases are contracted through food and drink and in no other way. While the habit of committing decaying organic matter to the earth is almost an instinct with human kind, it is not always realized that the capacity of soils to mineralize such matter is limited. Less frequently is it understood that only as the bacterial life in the surface layers is promoted can mineralization proceed. To remove and destroy organic waste, then, in addition to being an act normally suggested by sentiment, is to eliminate a cause of soil and water pollution sometimes unsuspected and little understood. As such it becomes a duty enjoined by the great law of self-preservation.

Of 400 farm homes in the Province of Ontario included in a rural survey conducted by the Commission of Conservation, Canada, and reported by it in 1915, only 2.5 per cent. were provided with a complete sanitary service including running water, water closets and bathrooms of the kind usually found in urban residences. These conveniences are unfortunately too rare in our rural communities. No single reform would mean more in the alleviation of the housewife's drudgery or would contribute more to her comfort than their general introduction. Then, I suspect, we should hear less of the decline of rural population, the rural church and the rural school. One might wish that that gallantry which inspired a great gathering of toilers convened, according to Mr. Kipling, at the instance of a gifted monarch, now fallen and disgraced, might afford light and leading to Canadian men on whom the responsibility rests:

"They passed one resolution: Your sub-committee believe
You can lighten the curse of Adam when you've lightened the curse of Eve,
But till we are built like angels—with hammer and chisel and pen,
We will work for ourself and a woman, forever and ever, Amen."

The object of this paper is to describe briefly a few methods of sewage treatment for isolated residences or institutions, adapted to somewhat varying conditions. They may be installed at moderate cost and when given a little intelligent supervision afford permanent solutions for their respective problems. Through them, the pollution of soil and ground waters and the nuisance offensive alike to sight and smell may be satisfactorily avoided.

## PLUMBING ESSENTIALS.

The water carriage system is, of course, the one contemplated, since it is the cleanest and most sanitary. The drainage system should be so constructed as to convey to a place of treatment, quickly and completely, everything emptied into it. It should be everywhere watertight and airtight. The vertical portion of the soil

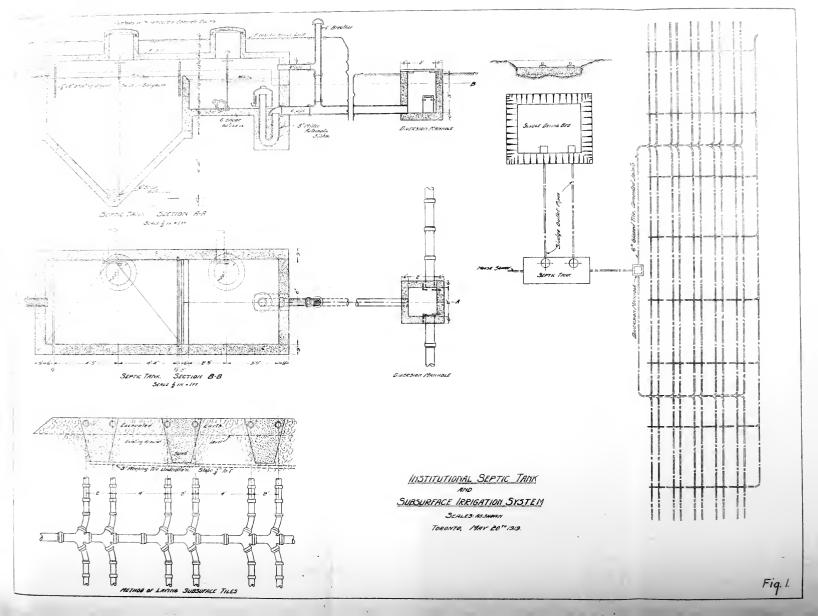
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pipe should pass through the roof for ventilation and should be as nearly plumb as possible. The horizontal portion to a point outside the basement wall, as well as the upright portion, should be of east iron. Every fixture should have a trap with water seal to prevent the foul air escaping into the rooms. To prevent the siphonage of these seals, all traps should be vented into a vent pipe connecting with the soil pipe above the highest fixture and also usually below the lowest. Various types of so-called non-siphoning traps, not requiring venting, are in the market. The use of these when permitted, reduces somewhat the cost and complexity of the plumbing installation, but, it is generally conceded, with some impairment in performance. The inlet to the bath-tub should not be lower than the water level when full, otherwise there is a possibility of the bath water siphoning over and appearing at some faucet lower down. All plumbing should be accessible for repairs, and all fixtures for bathroom and kitchen should be open, permitting free access of light and air. The house sewer leading to the place of treatment should be of 6-inch vitrified tile carefully laid on a falling grade of from 1/4 in. to 1/8 in. per foot, preferably the former. Carelessness in laving sometimes results in pockets being left in the sewer line in which solids are stranded and serious frost troubles are likely to occur. If changes in either alignment or grade between the house and the treatment plant are necessary, these should be marked by inspection manholes. All joints should be caulked with Portland cement mortar to prevent escape of sewage outward or leakage of ground water inward. Roof water should be excluded from the house sewer.

The treatment of sewage from residences and institutions where no system of public sewers exists, is governed by the same principles that apply in the case of larger projects. There are, notwithstanding, certain differences. In the former the fluctuation in flow, hourly and daily, is more marked, and in order to secure some uniformity in quality of sewage and to allow sufficient time for solids to settle out, somewhat greater storage capacity in sedimentation tanks should be provided when such are employed. All appliances should be as simple, automatic and fool-proof as possible.

A common and obvious method is to discharge the sewage directly into the nearest watercourse. In some cases this is justifiable. Indeed, dilution either as a sole or as a finishing process is very generally employed. But the growing appreciation of the necessity of safe water supplies, the wish to avoid the creation of nuisances offensive to sight and smell, an increasing realization of the responsibilities incident to community life and the fact that the beneficent stream is often not available, have led to the development of alternative methods. Indeed the alternative method is the usual one in the case of the residential or institutional problem.

## CESSPOOLS.

Leaching cesspools are really excavated pits walled in by open stone-work so that the liquid contents are free to enter the soil if porous. Sooner or later the solids fill the cesspool and a new one must be constructed. The depth is usually such that practically no oxidation takes place in the surrounding soil, and as putrefactive and anaerobic changes are very offensive, pollution of the soil is inevitable and of adjacent wells very probable. There is on record the case of a town on the western plains which for years had made general use of cesspools for the reception of its wastes and of surface wells for its water supply. It found itself finally with a serious outbreak of typhoid fever on its hands. An

examination of the surroundings disclosed the fact that there was in some cases free communication between privy vaults and shallow wells, and the report of the health officer conducting it closed with the remark, more truthful than complimentary, that it seemed almost an extravagance to have two holes in the ground when, without greatly adding to the existing danger, one might have served both purposes.

If the soil on the other hand be impervious, or if the vault be lined with watertight masonry, the chamber soon fills with liquor which putrefies and overflows on the surface if no other outlet be provided. If from the outlet, open jointed tiling be laid near the surface, surrounded by porous soil, gravel or einders, a partially aerated absorption area is created in which limited oxidation may proceed. But since the outflow is trickling and continuous, the first portion of the area gets the major portion of the liquor and the rest searcely any. Aeration is in consequence much hampered, for soil filtration in order to be effective must be intermittent.

The leaching cesspool pollutes the soil surrounding it because there is neither intermittency nor aeration. By it, filth is buried without being reduced to stable and innocuous forms. An eminent physician has said, it is a relic of mediaeval shiftlessness and carelessness for which little excuse can be found. The tight cess-pool on the other hand was something of an improvement. Both were precursors of the two-chambered septic tank with automatic siphon whereby the settled sewage is held back until a pre-determined quantity has accumulated. This is discharged at one flush through tiles to the absorption area, insuring something like uniform distribution and providing between doses sufficient opportunity for aeration of the soil so necessary for satisfactory nitrification. The net result is that there has been enlisted the combined purifying resources of a large area of surface soil and an ample supply of atmospheric oxygen together with an intermittency in application which makes the process capable of indefinite repetition. This is the sub-surface irrigation method, sometimes spoken of as the Waring system since it was first employed by the late Col. George E. Waring for his residence in Newport, R.I., fifty-one years ago. It is usually the least expensive to install and the least troublesome to maintain, and where the topography, soil and environment are favourable has been successfully employed for contributing populations exceeding 100 persons.

# FALL REQUIRED FOR A SUB-SURFACE IRRIGATION INSTALLATION.

It is a great convenience in a residence or an institution to have laundry and water closet facilities in the basement and to be able to drain the basement floor into the house sewer. This necessitates laying the latter sufficiently below the basement floor to permit of the installation of these conveniences. The invert of the house sewer at its junction with the vertical soil pipe will lie about 15 inches below the basement floor and the plan for sewage treatment will have to take this into account. Where the fall is ample the solution is easy, but where the ground adjacent to the building is very flat, difficulties occur. If the septic tank is to lie 100 feet from the vertical soil pipe and the sub-surface drainage area is 60 feet farther on; if the house sewer is to have a fall of ½ inch per foot and if the inverts of the sub-surface drains are to be 12 inches below the surface of the soil as is usually recommended, the least difference in elevation between the basement floor and the sub-surface drainage area will be found as below:

Difference in elevation between basement floor and invert to house sewer.	1 ft. 3 in.
Drop in 100 feet of sewer, 4-in per foot	2 ft. 1 in.
Difference in water level in tank and H.W.M. in siphon chamber	2  in.
Drop from H.W. mark in siphon chamber to invert of siphon	1 ft. 8 1 in.
Drop in 60 ft. of sewer, '1-in. per foot	1 ft. 3 in.
Total	C 64 7 1 1m

From this total, one foot is to be subtracted owing to the fact that the subsurface drains are 12 inches beneath the surface. For the conditions assumed it is therefore necessary that the drainage area be 5 ft.  $5 \mid_2$  in, below the basement floor. The gradients for the house sewer and the effluent line could be lessened slightly thus reducing the figure given. In flat districts therefore, the building site should, if possible, be on the highest available ground and the basement excavation should be shallow. In some cases it may be necessary to construct the plant partially above ground where the necessary fall cannot be obtained otherwise. Sanitary conveniences in the basement would, of course, have to be sacrificed if this course were adopted.

Fig. 1 is a design of a septic tank and a sub-surface irrigation system for an institution occupied by about forty people. The buildings stand on the bank of a small stream, the ground being probably fifteen feet above mean low water level. The sedimentation tank has a hopper shaped bottom and the sludge outlet is controlled by a 6-inch shear gate operated from the manhole above. The siphon chamber is equipped with a 5-inch Miller siphon drawing about 23 inches of water. This chamber, too, is provided with a shear gate so that accumulations of sludge may be drawn off to the drying bed from time to time. The septic tank is provided with a breather. The main trap was purposely omitted on the house sewer. The breather, in consequence, normally acts as a fresh air inlet and the soil pipe through the roof performs the functions of a chimney to the septic tank.

The soil is a rather heavy clay boam and was not considered suitable of itself to act as an absorption and aeration area. Trenches were dug in the soil as shown and the excavated soil ridged up between adjacent trenches. The underdrains were laid transverse to the distribution tile, and spaced about 18 feet apart. They led to an outlet near the stream. The trenches were filled with sand, near the surface of which the distribution tile were laid with open joints. A shallow covering of sand completed the operation.

The absorption area was divided into two parts and a diverting manhole was provided so that the respective areas could be dosed alternately.

The sludge drying area consisted of a plot 14 ft, by 18 ft, covered with a foot of sand and underdrained. The sludge capacity in the septic tank is in excess of 6 months' accumulation,

# THE PERCOLATING FILTER,

Where the soil is not suitable for sub-surface irrigation, where its improvement is not feasible owing to a scarcity of sand or gravel, or where the area of land necessary for the less intensive methods is not available, the percolating or sprinkling filter, together with certain preparing and finishing accessories, will suggest itself. Filters of this type will treat 80 times as much sewage on a given area as the sub-surface system, the rates being 20,000 and 250 people to the acre respectively.

Fig. 2 shows a design for a percolating filter plant capable of treating the sewage from a population of 40 persons. The sewage is first passed through a

sedimentation tank of the 2-storey or Emscher type during which passage 75 per cent, of the contained solids settle out through the slot leading to the sludge digestion chamber below. The 2-storey tank possesses two advantages over the type previously described. It gives a fresh effluent, since the incoming sewage is not permitted to mix with the septic contents of the lower chamber, and it produces an inoffensive sludge. It is generally conceded that a fresh sewage is more easily treated on a sprinkling filter than is a septic sewage.

It will be noticed that the sewage in the settling or upper chamber passes beneath two baffles and upward through an excelsior filter lying just beyond the second of these baffles. This is intended to screen out the larger particles in suspension which might clog the distributors above the main filter. The excelsior mat is about 3 inches thick, is supported on horizontal wooden bars 1 in. by ½ in, spaced 1 in, in the clear, and is kept from floating by a close mesh heavy galvanized wire screen laid on top. The excelsior is easily removed from time to time and replaced by new. It will be seen that accumulations on the lower side of this filter, which in the course of time lose their buoyancy, will gravitate through the slot into the sludge chamber below. To some extent, then, this filter is self-cleansing.

The settled sewage next passes over a weir into the siphon chamber which is equipped with a 3-inch Anthes or Miller siphon. When 2.3 cubic feet of liquor have accumulated, the siphon automatically discharges into a main wooden trough and 18 galvanized iron laterals having  $\mathbf{1}_4$  inch perforations at the sides spaced 3 in, centre to centre. It was intended that the filter would receive, on the average, a dose of sewage at 20-minute intervals.

The filter medium is of brush twigs varying in size from 3s in, to 34 in, bundled and tied together in sheaves about 9 in, diameter and 3 ft, long. The effluent from this percolating filter collects in a concrete lined hopper-like tray at the bottom. The sludge, always present in this effluent, is permitted to collect in the bottom of the hopper and is drawn off from time to time to drying beds through the lower of the two outlets. The upper 3-inch effluent pipe, terminating in an upward turned ell in the centre of the basin, conveys the effluent to the grass outside, where it runs away without producing offence. Provision for aeration and inspection is made through two lower windows and an upper door. The effluent should be non-putrescible if everything is working normally. The attendant should be trained to make the methylene blue test to check the character of the effluent and the efficiency of the filter.

The sludge from the sludge digestion chamber is discharged through a 4 incast iron pipe by hydrostatic pressure due to 4 ft. of head, to a drying bed,

The plant was designed for a hillside location where the fall was ample.

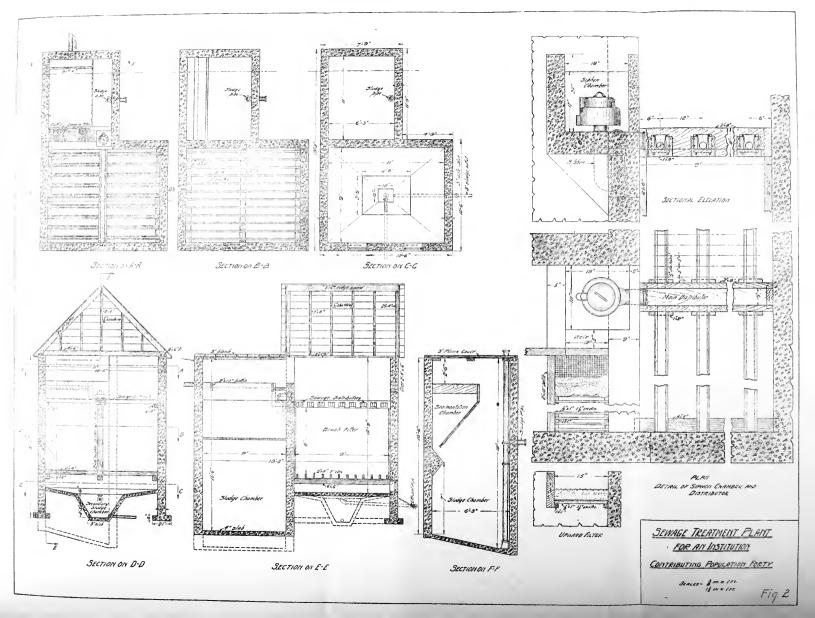
## GREASE TRAPS.

Animal fat is essentially a mixture of stearine, palmitine and olein. The two former are solid at ordinary temperatures having melting points of 160° and 150°F, respectively. Olein is a liquid with a melting point of 23°F. The actual melting point of a fat or grease obviously depends upon the relative proportions therein of these three constituents. If the melting point were, say, 80°F, and the prevailing temperature of the sewage were 60°F, it is clear that the fats would congeal and could be separated in the solid state. In general this condition obtains and because of the fact that fats obstruct house sewers, disintegrate very slowly in the sludge chamber and choke filtering materials whether

talled d out type g the trap.

tween d and vitate d out-ted is a repump conmatic upply, air is essure doyed level

es of give and one which ment ucted which ad to

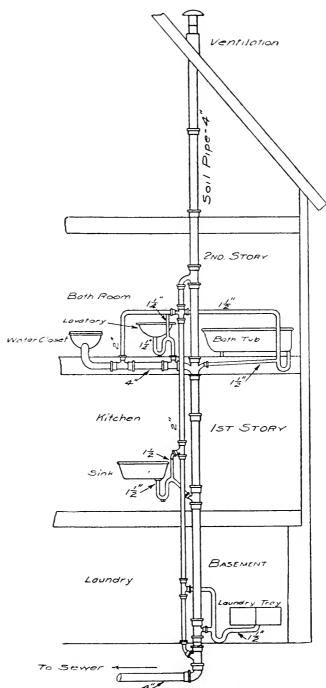


coarse or fine, their removal is highly desirable. Grease traps should be installed between the kitchen sink and the sedimentation tank and should be cleaned out periodically. They may be of simple construction or of the more elaborate type shown herewith in which the congealing of the grease is assured by passing the cold water for the kitchen requirements through a jacket surrounding the trap. In all cases, the sewage outlet should be well below the prevailing water line in the trap so that none of the floating fats may be carried away.

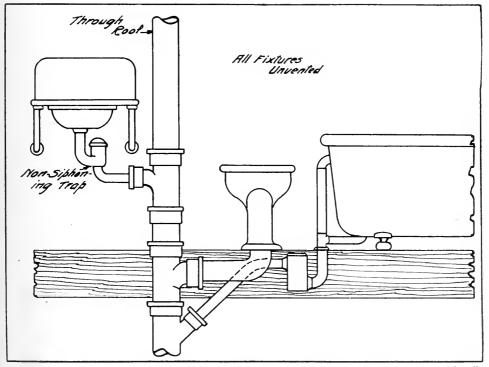
## SEWAGE PUMPING.

If the topography be such that sewage has to be lifted, a choice between methods must be made. Either the crude sewage will be raised, then treated and in the process will gravitate to a final outfall, or it will be permitted to gravitate through underground filters, after which the effluent will be raised to the final outfall. The second method possesses the advantage that the liquor to be lifted is comparatively clear, a consideration of some importance when small pumps are to-be employed. As to appliances, a choice will lie among the centrifugal pump operated by gasoline engine or, better still, electrically operated and float controlled, the hydraulic lift, the air lift and the sewage ejector. The automatic electrically operated pump is almost ideal but supposes an available electric supply. For the operation of the two last mentioned, a supply of compressed air is necessary. The hydraulic lift requires for its operation water under pressure or at an elevation of vantage. Sewage from a higher level has been employed through the use of the hydraulic lift to elevate other sewage from a lower level to a place of discharge.

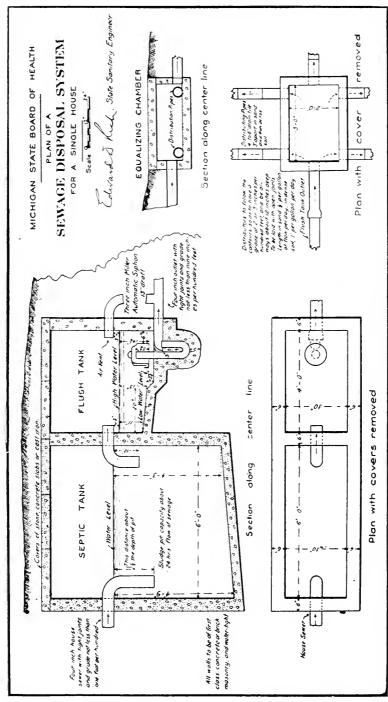
In conclusion, let it be said that methods of treating the sewage wastes of rural residences and institutions are now available which at moderate cost give good service and avoid conditions that seriously pollute soil and water and are a menace to health. These methods vary with the conditions and no one process will be suitable for all situations. The selection of that method which is best suited to a given case will require the exercise of intelligent judgment and a study of the local settings. Finally when the plant has been constructed it should receive such attention as will enable it to perform the work for which it was designed, for no system, however carefully planned, can be expected to operate satisfactorily without some supervision.



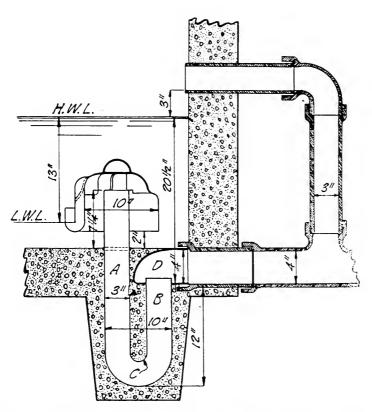
House plumbing with all fixtures vented. Bulletin No. 57, U. S. Dept. of Agriculture.



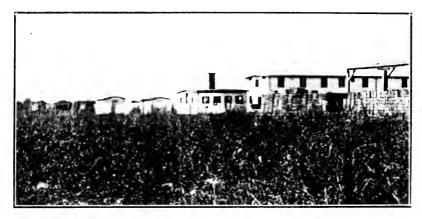
House plumbing fixtures not vented. Adapted from Starbuck's "Modern Plumbing."



Michigan State Board of Health. Sewage disposal system for a single house.



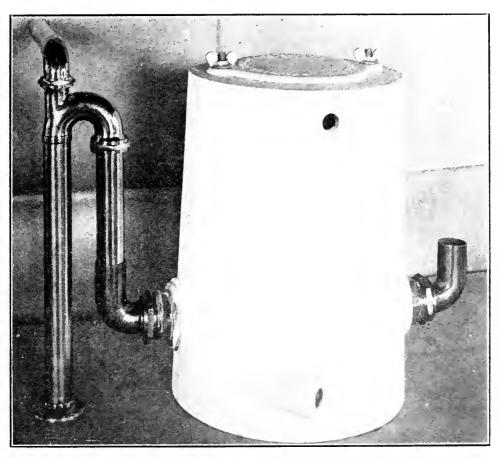
A standard 3-inch Miller Siphon. Bulletin 41, Iowa State College of Agriculture.



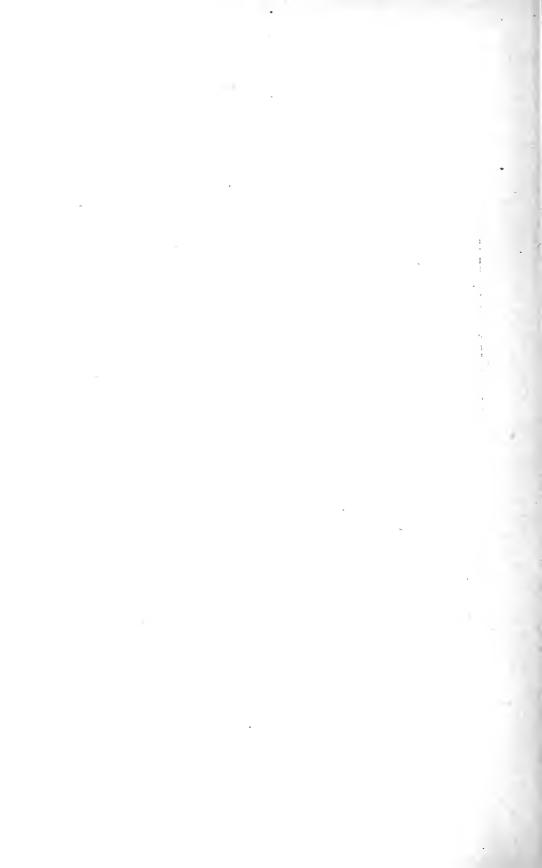
A tomato patch under which sub-surface tiles have been laid.



Evils of a defective siphon illustrated. The sludge has escaped into the sub-surface tiles which have been uncovered.



A modern water-cooled grease trap. Courtesy of Standard Sanitary Manufacturing Co., Toronto.



## APPENDIX "A"

The reports appearing in this Appendix were received from the Secretaries of the Local Boards of Health of the cities and towns of the Province of Ontario, in conformity with section 23, ss. 3, of the Public Health Act, and have been edited by the Secretary of the Board.

#### BRANTFORD.

Brantford. December 5th, 1918.

Sex unknown .....

Board of Health, Brantford.

Males ..... 273

GENTLEMEN.—We beg to submit the following report of the Medical Health Office for the year ending November 1st, 1918:—

### MORTUARY STATISTICS.

During this period there was a total of 523 deaths, including 35 cases of still births, leaving 488. Taking the assessor's report of the city's population at 28,725, it gives us a death rate of 17 per 1,000. This compares favourably with other years. However, included in the above list are 159 deaths due to influenza, and it is fair to say that if it had not been for this epidemic in October our death rate would have been 329, or 11.3 per 1,000.

Also included in the list are a number of deaths at the Brantford General Hospital of people from outside the city.

The following tables give the death rate in the various age periods:—

DEATHS REGISTERED FROM ALL CAUSES DURING YEAR ENDING 31ST OCTOBER, 1918.

Females	244		
remaies	244	Total 523	3
Ac	ses of I	Deceased.	
Still born	35	35 years to 39 years 28	3
Under 1 year	72	40 years to 44 years	7
Under 2 years	21	45 years to 49 years 21	
Under 3 years	15	50 years to 59 years 41	
Under 4 years	4	60 years to 69 years 50	)
Under 5 years	5	70 years to 79 years 49	)
5 years to 9 years	8	80 years to 89 years 34	
10 years to 14 years	10	90 and over 3	,
15 years to 19 years	15	Age unknown 3	;
20 years to 24 years	25		-
25 years to 29 years	34	Total 523	,
30 years to 34 years	33		
CA	USES OF	DEATHS.	
Auto toxæmia	1	Cholera infantum 5	
Abscess of liver	1	Concussion of brain 2	
Asthma	1	Carcinoma 4	
Apoplexy	5	" (uterus) 1	
Arterio sclerosis	12	" (stomach) 8	j
Anuria	1	" (bladder) 1	
Anorexia nervosa	1	" (tongue) 1	
Appendicitis	4	" (breast) 4	
Anæmia	4	" (liver) 1	
Alcoholism (acute)	1	" (colon) 1	
Accidents	6	Convulsions 7	
Atelectasis	1	Congestion of lungs 1	
Blood poisoning	3	Cerebral hemorrhage 7	
Bronchitis (acute)	4	Cerebro-spinal meningitis 1	
" (chronic)	1	Cardeo tascular renol 1	
Bright's disease	3	Cerebral abscess 1	
Cardiac paresis	1	Cappaloule (from birth) 1	

## CAUSES OF DEATHS .- Continued.

Duzantany	-	Museenditie (il-)	
Dysentery	$\frac{1}{19}$	Myocarditis (senile)	1
Decline of age		Morbus cacrulim	1
Drowning	3	Meningitis	7
Diphtheria	4	(tubercular)	1
Dropsy	4	Mitral disease	1
Dementia senile	1	Measles	1
Dilated heart	4	" (broncho pneumonia)	1
Diarrhœa	1	Neurasthemia	1
Diabetis	3	Non-closure of oremen	3
Epilepsy	1	Not known	2 5
Endocarditis (ulceratum)	1	Nephritis (chronic)	
" (chronic)	3	Organic heart disease	3
Eclampsia puerpural	1	Operation (removal of prostrate)	1
Ectopia gestation	1	Otitis media (chronic)	1
Exposure	1	Perforation (intestinal)	1
Embolism	1	Pulmonary ordena	1
Fatty degeneration of heart	2	Peritonitis	3
Fractured skull	1	Paralysis agitans	1
" spine	1	Poisoned (cyanide of potassium)	1
Gall stones	1	Prematurity	1
Gastric enteritis	1	Pneumonia	78
Gangrene of lungs	2	" (broncho)	7
Goitre (cystic)	1	" (pleuro)	i
" (exoplithalime)	1	" (lobar)	1
Hydrocephalocle	1	" (tubercular)	î
Hemorrhage (stomach)	1	Pulmonary plutusis	1
" (internal)	1	Rickets	ī
" (post partum)	1	Rheumatism	1
Humphegia	1	Senility	$\overline{12}$
Heart failure	20	Senile gangrene	1
" (operation)	1	Sclerosis of spinal cord	1
Hæmoptysis	1	Shock, from burns	2
Hanging	1	Septicæmia	3
Intestinal la grippe	ī	Sarcoma	3
" infection	2	Septic infectum	1
" obstruction	$\bar{3}$	" ardiritis	1
Indigestion	4	Strangulated hernia	1
Influenza	81	Typhoid fever	4
Inanition	11	Tuberculosis	11
Infectum cystitis	2	" (lungs)	6
	1	" (stomach)	3
Lymphatic lukæmia Leakage of heart	1	Ulcer of stomach	1
	1		2
Marasmus	1	Uræmia poisoning	5
Malformation of births		Whooping cough	
Myocarditis	S	Weakness	1
" (chronic)	1	Still births	35

## Confagious Diseases.

Of reportable diseases there have been 286 cases. This, in comparison with 105 cases for the previous 12 months, seems like a big increase, but this was due in great measure, to the outbreak of measles during the summer, from which 182 cases were reported, there being two deaths.

Communicable Diseases Reported.	DEATHS FROM COMMUNICABLE DISEASES.
YEAR Ending 31st October, 1918.         Cerebro spinal meningitis       1         Diphtheria       44         Infantile paralysis       1         Measles       182         Scarlet fever       38         Smallpox       1         Typhoid fever       19	Cerebro spinal meningitis1Diphtheria4Infantile paralysis0Measles2Scarlet fever0Smallpox0Typhoid fever4
Total	Total 11

0.1

Molos

In regard to typhoid fever there were only 19 cases with 4 deaths. In 2 cases the source of infection was well water; some others contracted it at a summer resort; a couple of eases were from outside the city; and the remainder were city cases.

Diphtheria—44 cases, with 4 deaths.

Measles-182 cases, 2 deaths, 1 due to pneumonia.

Infantile paralysis—Very fortunate; 1 case and no deaths.

Scarlet fever-38 cases, no deaths.

Meningitis-1 case, 1 death.

Smallpox—1 ease, no deaths.

We find that there have been no cases of tuberculosis reported, but there have been some 20 deaths from it during the year. In October we were visited by the influenza epidemic, which has swept over the country with such disastrous results. It was impossible for us to ascertain the exact number of people affected, but a conservative estimate would be at least 35% of the total population, or about 10,000, with a death rate of 204. Brantford was hit particularly hard, but by the closing of schools, churches, and theatres, all public gatherings, and the establishing of an emergency hospital, where the worst cases could be segregated, and with the active co-operation of the public generally, the outbreak was brought under control.

One distressing and outstanding feature of the epidemic was the fact of its attacking so many of the younger people, in whom there was a very high mortality, the ages 21 to 40 being those in which the death rate was the highest, being about 50% of all the deaths from influenza. Although this report has to deal with matters up to

October 31st only, we feel that we might briefly state a few statistics.

## EPIDEMIC SPANISH INFLUENZA.

## Returns of deaths 1st October, 1918, to 30th November, 1918.

Formalos

115

Males 115	Females 91
	Total
Ages of	DECEASED,
Under 12 months     16       " 2 years     13       " 3 "     6       " 4 "     2       " 5 "     1       5 years to 9 years     1       10 " 14 "     4       15 " 19 "     9       20 " 24 "     21       25 " 29 "     33       30 " 34 "     39       35 " 39 "     29	40 years to 44 years       9         45 " 49 " 5         50 " 54 " 5         55 " 59 " 3         60 " 69 " 4         70 " 79 " 2         80 " 89 " 2         Ages unknown 2         Total 206
CAUSES  Spanish influenza	OF DEATH.           CASES. EMERGENCY HOSPITAL.           Admissions         259           Discharges         169           Deaths         80           In hospital         10           Death rate         30.9

The difference in death rate at the two hospitals was due to the fact that a great many of the worst cases in the city were sent to the Emergency. Some on admission were in a dying condition.

In connection with the Emergency Hospital great credit is due those who undertook it and worked so well to equip and organize it and bring it up to its present condition. Also Miss McNeill, the superintendent, who gave herself unhesitatingly to the work; to Mr. K. V. Bunnell and Ald. Kelly; Mr. Hutching, secretary of the G.W.V.A.; Mrs. Geo. Watt, and the nurses and orderlies who gave their lives, and all the other workers who at great personal sacrifice came forward to succor those affected with the disease. We would recommend that some official recognition from the City Council be paid to all those who have "done their bit" during the epidemic.

In conclusion, we would like to mention that our present condition as regards influenza is very good. We have only twelve cases in the Emergency Hospital and none at Brantford General Hospital, and throughout the city there are a few isolated cases, but we may safely say that the epidemic has subsided. However, in order to avoid a recurrence such as they are now having in the city of Hamilton, it behooves every citizen to be careful and particularly to refrain from going to or receiving visitors from those

places where the disease is still prevalent.

Respectfully submitted,

NORMAN W. BRAGG.

M.H.O.

#### CHATHAM, ONT.

Dr. J. W. S. McCullough, Chief Officer of Health, Toronto, Ont.

I herewith submit my annual report on public health matters for the year 1918 as follows. As regards contagious diseases the following have been reported to me since 1st of December, 1917:—

Scarlet Fever-Three cases with no deaths.

Measles—We had almost an epidemic. Two hundred and six reported and quarantined for the regulation period or until well. There were three deaths due to pneumonia complications.

Chickenpox-Thirty-three reported, and am sure there were other cases; no deaths.

Smallpox—We had eleven cases, with no fatalities. One of these cases was from a neighbouring municipality, sent in to one of our hospitals as an appendix case, and was operated on when the rash was well out on the face and hands and body before it was diagnosed. After diagnosis was made the patient was removed to the Isolation Hospital, with a trained nurse in charge, but not before many of the nurses had been exposed and who were not vaccinated at the time. The nurse who had charge of the case before diagnosis was made was taken down with smallpox just fourteen days after exposure and developed a moderately severe type. By this mistake in diagnosis here was one of our two hospitals shut out from serving the public for the full quarantine period of fourteen days. The above case proved a great incentive to all nurses to protect themselves through vaccination. Not one of the eleven cases had been previously successfully vaccinated. After a general proclamation for vaccination had been issued by the mayor and city council, upon the request of the local Board of Health, there were over 3,000 persons vaccinated with splendid results from the use of provincial vaccine. Many were vaccinated by the puncture method when the reaction was not as severe or as prolonged nor produced as sore arms as by the old scarrification method.

Whooping-cough—Only four cases, three being in one family; no deaths.

Diphtheria—Twenty-three cases, with two fatal cases: one of these was complicated with measles. Splendid results are being obtained from the antitoxin sent out by the

Department in combatting this dread disease.

Tuberculosis—Only one case reported, though there have been four deaths from it during the year. It seems almost a crime that it is necessary for general hospitals to admit this class of cases upon application, else their Government grant may be withheld. It matters not in what stage of the disease the applicant may be in at the time. Would it not be possible for the Provincial Board of Health to make such representations to our Legislative Assembly, that they would give relief by changing the Health Act?

Typhoid Fever—One hundred and sixty-two cases from the city, with sixteen deaths; while sixty-three outside patients were treated in our hospitals, with eight deaths. The first case developed on July 23rd, and by the end of August 131 in the city had developed; the remaining thirty-one cases appeared as follows: Twenty-six in September, two in October, and three in November. The last reported to-day where contaminated well water was being used altogether. I believe most of our cases can be traced to the use of well water which is contaminated. Last March and April the city water became very turbid, and looked almost repulsive even to bathe in let alone drink it. This

turbidity was likely due to the strong thick ice on the river from whence the water is taken, with the strong current of water tearing up the bed of the river during the spring freshet. This condition of water turned many to seek water from wells that had not been used for years. Samples of water were sent to the department from thirtyfour wells. Of these twenty-seven were intensely contaminated and were closed by the M.O.H. after a resolution by the local board. The week previous to the typhoid outbreak there were some hundreds of cases of gastro enteritis, lasting for from twenty-four hours to a week. In some cases there was a recurrence of the diarrhœa after an interval of quietude of the bowels. In most of these cases a good dose of oil was all that was needed to clear them up. Not many of these cases developed typhoid. Whether this was caused by typhoid baccilus or by some of the infernal food substitutes that were distributed in this district and used in making bread, much of which was unfit for food, and for relief the local Board and M.O.H. appealed to the food controller to investigate. An inspector was sent up, when the food conditions soon improved. During the epidemic the Provincial Board of Health gave great assistance in the persons of Drs. McNally, Bell, and Mr. Dallyn, provincial sanitary engineer, in detecting the cause and giving advice as to the management of so serious an outbreak. Many samples of water, milk, and ice-cream were collected and sent away for a bacterial analysis, as well as blood tests made from every person in the city handling either milk or ice-cream. Splendid work was done by every local physician in using precautions to stamp out and control its spread, while the staffs of the two hospitals did almost superhuman service for many weeks with no cases among themselves, having been previously protected through vaccine. The local board, after consulting with Dr. McNally, made arrangements with one of the local physicians to inoculate all citizens presenting themselves at the expense of the city. By this means about 1,400 persons additional were immunized, besides the large number who went to their own family doctor for the inoculations. The water furnished by the commissioners through the city mains has been more or less turbid all summer, though of good quality otherwise and quite safe for domestic purposes. However, public opinion was aroused on the water question, so that the commissioners were compelled to act in the matter of giving the citizens better water if possible, and that at the very earliest moment. They have obtained advice and counsel from some of the foremost water experts on the continent, and are moving in the right direction. The appointment of an analyst to make daily tests of the water will go a long way in restoring public confidence in the purity of water furnished the public. This, with other extensive changes in the purifying process, will be made as soon as possible. The city water is good now, and has been for most of the year, outside the turbidity.

Spanish influenza, or flu, immediately following the typhoid, proved to be quite serious. Cases reported 1,500; possibly 2,200 or 2,300. Quite a number were complicated with pneumonia of a lobular type, with a great tendency to unusual bloody sputum, accompanied by great prostration. There were many fatal cases among the strong, healthy adults between the ages of 18 and 35 years, and among the pregnant women. This latter class were seldom sick more than two or three days. Considerable prophylactic vaccine was used, with seemingly good results, few being attacked that had been inoculated.

A decided step in advance has been made by the School Board in the appointment of a school nurse, a long-felt need. Good results should be the outcome of this action of the School Board.

Just now the citizens of Chatham have an opportunity of getting rid of one of the greatest menaces to public health, particularly after an epidemic of typhoid fever, in using their influence with the members of the city council to have them pass a by-law compelling the installation of inside closets in all parts of the city dwellings, etc., where proper water and sewer facilities are to be had, and thus get rid of outside closets. Few citizens probably are aware that it was necessary to have over 1,300 of these outside closets cleaned during the year. This, with our common enemy the fly, supply the link for an epidemic for another year or succession of years. The immediate doing away with these is the first and greatest preventative measure at our command. The age in which we live demands this to be done.

All of which is respectfully submitted.

Т. L. МсВітспіє, *М.О.Н.*,

CHATHAM, ONT., November 30th, 1918.

SANITARY INSPECTOR'S REPORT FOR THE YEAR ENDING NOVEMBER 30TH, 1918.

Gentlemen.—I beg to report as follows: There were 280 cases of contagious diseases reported to the M.O.H. to be placarded, and most of them were disinfected before being released from quarantine. The Public Library was disinfected; all the public schools.

Collegiate Institute, the News Building, St. Joseph's School, and the Business College; also all the factories, a number of times, more particularly in regard to toilet accommodations: a number of changes recommended in this respect in some factories have been made. Now the system seems to be much improved and working most satisfactorily.

Seven different houses were placarded as being unfit for human habitation. Most of these places have been thoroughly overhauled, and modern conveniences installed, making them very comfortable dwellings. The different farmers' premises, and cows that supply milk to the city milk vendors, were inspected, and found considerable improvement in their manner of caring for both their stock and milk. Inspected and had closed 1,323 outside closets; also examined all the cellars on King street and other business places; found most of them kept in better condition than in former years. Inspected slaughter houses and butcher shops frequently, and found them all in good condition. Some were in excellent shape. The laundries were each inspected every week during the year, which I wish to report O.K. Reported to the city garbage men 104 dead animals on the streets, and they were promptly removed. Seven horses were ordered to be put off duty until found in fit condition again, and ordered one to be killed. Kept in touch with all cafes, and insisted upon "swat the fly," with excellent results. The manure box nuisance has been much lessened owing to the more extensive use of motor-trucks, while those still in existence are more particular about how they are kept. Condemned a carload of logs for being overloaded, and had them reloaded and made comfortable; also two different lots of poultry, there being too many in a crate. Additional crates were ordered, and the overcrowded condition was relieved.

Gathered 104 samples of milk for testing purposes, and assisted the M.O.H. in making the tests. Shipped 150 samples of water for analysis by the Provincial Board of Health. The samples were obtained from many different taps and wells about the city. The lanes about the city are being kept in fairly good condition, as are the alley-

ways also.

Since the typhoid fever broke out I have been calling on each doctor personally for their reports on new cases weekly at the request of the M.O.H.

What with typhoid and influenza I have had a very busy year.

David Holmes, Sanitary Inspector,

## FORT WILLIAM.

FORT WILLIAM, ONT., November 1st, 1918.

To the Chairman and Members, Board of Health, Fort William, Ont.

Gentlemen.—In accordance with the provisions of the Ontario Public Health Act I beg to submit herewith my annual report for the year ending October 31st, 1918.

## VITAL STATISTICS.

Estimated population	20,560
Death rate per thousand population (excluding still-births)	10.55
This rate includes all deaths reported in the municipality whether	
residents or not.	
Birth rate per thousand population (excluding still-births)	36.91
Infant mortality rate per thousand births	108.03
The death rate is $2.25$ lower than last year.	,
The birth rate is 4.31 lower than last year.	

The infant mortality rate is 25.39 lower than last year.

This showing with regard to infant mortality is very encouraging. A few years ago there were three great problems here, viz., typhoid, infant mortality and tuberculosis. The first is conquered. We have not had a death in two years; the second is coming down; but I am sorry to say we have made little or no impression on the last.

Venereal diseases became reportable in July. From that month till the end of our year there were reported: Syphilis, 29 cases; gonorrhea, 48 cases; and chancroid,

1 case.

On account of the persistent epidemic of scarlet fever, and in the last month of the year the "flu," it was found necessary to re-fit the annex of the isolation hospital in May to accommodate scarlet fever cases.

Thirty-four persons were summoned to court during the year for the following causes:-

Breaking quarantine	-6
Failing to report a communicable disease	7
Breach of milk by-law	6
Failure to abate nuisances	14
Selling milk without license	1

The following products and supplies from the Provincial Board of Health were distributed:—

Diphtheria antitoxin	764,000 units
Tetanus antitoxin	
Meningitis serum	3,000 "
Pertussis serum	410 C.C.
Typhoid vaccine	12 doses
Smallpox vaccine	
Silver nitrate solution	
Wasserman tubes	25
Culture tubes	39

#### MEASLES.

There were twelve cases of measles reported, with no deaths. Statistics follow:-

Year.	Cases Reported.	Deaths.
1914		1
1915		U
1916		7
1917		3
1918		0

## WHOOPING COUGH.

There were two hundred and fifty-nine cases of whooping cough reported, with three deaths.

Year.	Cases Reported.	Deaths.
1914	 0	1
1915	 33	2
1916	 196	17
1917	 10	1
1918	 259	3

### ERYSIPELAS.

There were four cases of this disease reported with no deaths. Statistics for the last five years follow:—

Year.	Cases Reported.	Deaths.
1914	 11	4
1915	 5	0
1916	 6	1
1917	 13	1
1918	 4	0

## CHICKENPOX.

Year.	Cases Reported.	Deaths.
1915	 3	0
1916	 13	0
1917	 97	0
1918	 75	0

#### RUBELLA.

Year.	Cases Reported.	Deaths.
1917		. 0
1918	25	0

#### MUMPS.

Year.	Cases Reported.	Deaths.
1915		0
1916		0
1917		0
1918	92	0

## PULMONARY TUBERCULOSIS.

There were fifteen cases reported, including six from out of town and nine deaths, two of which were non-residents.

Year.	(	'ases Reported.	Deaths.
1914		17	11
1915		28	23
1916		19	18
1917		15	12
1918		15	9

#### SMALLPOX.

There were no cases of this disease reported. Statistics for the last five years follow:--

Year.	Cases Reported.	Deaths.
1914	0	0
1915	S	0
1916	3	0
1917		0
1918	0	0

#### SCARLET FEVER.

There were three hundred and thirteen cases of scarlet fever reported. There were three deaths, one being that of a non-resident.

Year.	Cases Reported.	Deaths
		2
		0
	4	0
		3
- 6 - 6	313	3

Below appears the statistics by month, age, sex, recovery and death.

									*	
Morth.	Cases.	. И.	F .	Under 5 yrs.	5-1. years.			Over 19 years.		Death.
1917		-								!
Nov	26	11	13	9	13	3		1	26	
Dec 1918		18	10	Ü	(1	5	2	1)	28	• • • • • • • • • • • • • • • • • • • •
Jan	1.5	10	.5	6	()	1	1	1	15	
Feb		12	19	6	12	.5	1	7	31	1 Out of
Mar	1.5	9	6	อ้	7		3		15	town.
April		10	13	8	12	:3			28	
May	47	21	26	21	18	2	3	:)	46	1
June	35	17	18	12	16	4	2	1	35	
Ju!y		10	1.5	13	S	2	1	1	25	
Aug		7	(5	5	6	2	1	1	18	
Sept		14	12	11	7	4	:)	1	26	
Oct	29	12	17	9	10	8	1	1	28	1
Total	313	151	159	112	124	39	18	20	311	3

#### DIPHTHERIA.

There were twelve cases of this disease reported. There were two deaths.

Year.	Cases	Reported.	Deaths.
1914	 	24	2
1915	 	25	2
1916	 	33	5
1917	 	13	1
1918	 	12	2

## TYPHOID FEVER.

There were five cases of typhoid fever reported, four of which were people who had been in town but a few days from other cities. There were no deaths.

Year.	Ca	ses	Reported.	Deaths.
1914			33	5
1915			23	7
1916			18	2
1917			11	0
1918			5	0

## A general resumé of the communicable diseases reported follows:-

Disease.	Cases Reported.	Deaths.
Measles		0
Rubella	25	0
Mumps	92	0
Scarlet fever		3
Whooping cough	259	3
Chickenpox	75	0
Erysipelas	4	0
Typhoid fever	5	0
Smallpox		0
Diphtheria		2
Tuberculosis		9
Poliomyelitis	1	0
Cerebro-spinal meningitis	1	0
	Name and Address of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of t	-
	814	17

## ISOLATION HOSPITAL REPORT.

Patients admitted	166
166	166
Hospital days	6 226

## ACCOUNTS.

Salaries	\$2,324 1,350	77 08
Total	\$3,624 1,166	85 00
Cost per patient per day	\$2.458 \$ 58.1 cen	85 ts

## MEDICAL RELIEF.

The following is the report of medical relief work for the year:-

	Visits.	Office
Month.	Made.	Consultations.
1917—November	S	4
December	2	1
1918—January	6	0
February	2	0
March	6	• • •
April	•)	1
May	3	1
June	1.7	1
July	1	1
August	4	1
September	7	1
October	2	0
	<del></del> .	
	43	13

#### LABORATORY REPORT.

The following examinations were made:-

s samples from dairymen for dirt and butter fat
uples from householders
uples of breast milk
ples of cream bs for diphtheria ears for gonococci ta for T. B. d to Toronto for typhoid dry examinations

#### A detailed report of this work follows:-

Dealer.	Number of Tests.	Fat Average.	Clean.	Soiled.	Dirty.
F. Scollie	7	3.38	3	1	3
J. A. Kellough	35	3.07	24	7	1
D. R. Thompson	21	3.26	13	5	3
Jas. Otway	21	3.52	20	ĺ	1
City Dairy	21	3.01	16	1	1
Ed. Otway	19	3.24	9	6	1
H. Crabtree	16	3.41	14	2	
B. Webster	14	3.30	11	2	1
F. McCarthy	21	3.22	17	3	1

Of the one hundred and seventy-five samples examined, one hundred and twenty-seven were clean, thirty-one soiled, and seventeen were dirty. The fat average is 3.15, a very poor showing. There are but two dealers who sell what I call real good milk, viz.: Jas. Otway and Henry Crabtree.

## REPORT OF VISITING HEALTH NURSE.

Dr. E. B. Oliver, Medical Officer of Health, Fort William, Out.

Dear Sm.—I beg to submit herewith my report of the work done during the months of April to September:

Month.	Number of Visits.	New Babes Visited.	Breast Fed	Mod. Milk.	Cons. Milk.	Patent Foods.	Miscel- laneous.
April		139 24 32 51	104 21 26 40	13 3 6 6	2 ₂	8	4.5
August September	228	69	52 	7		10	
	1,538	315	243	35	4	18	15

The total number of visits made was one thousand five hundred and thirty-eight. In addition to this, I made a number of visits relative to communicable diseases, mostly scarlet fever. Also I made a number of school inspections, looking for possible cases of scarlet fever.

Respectfully submitted,

F. K. Fisher,
Visiting Health Nurse.

BIRTHS REGISTERED IN THE CITY OF FORT WILLIAM.

For the year ending October 31st, 1918.

			_		
Month.	Males.	Females.	Total.	Twins.	Triplets.
1917 November December	27 21	30 25	57 46		
1918 January	26 32 27	36 41	62 73	1	
March	41 39	$\frac{41}{29}$	$\begin{array}{c} 68 \\ 70 \\ 71 \end{array}$	1 2	
June	· 43 23	45 38	88 61	$\frac{1}{2}$	
August	37 25 23	23 31 24	60 56 37		
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	364	395	759	10	

### STHI BIRTHS

Month.	Males.	Females.	Total.
1917 November	1		1
1918 January February			2
March April May	3 1	3	3 4
une uly August September	2 1 1	1 2 1 2	1 1 3
October	3	11	3 

### REPORT OF SANITARY INSPECTOR.

## Dr. E. B. Oliver, Medical Officer of Health, Fort William, Ont.

DEAR SIR,—I beg to submit herewith my annual report for the year ending October 31st. 1918.

#### NUISANCES.

During the year the city has been systematically inspected for the abatement of nuisances. The privy situation has been the greatest evil with which I have had to deal. The financial situation has again prevented any work being done in regard to their conversion into water closets. The bulk of the work lies in the coal docks district, and I have made a house to house inspection. The condition of many of these places was in many instances deplorable.

Notices have been served upon all the owners to repair or renew the privies, and in most instances the work has been done. I hope to have the whole of the privies in the

city put into a sanitary condition before next summer.

The manure disposal has been fairly satisfactory, although some receptacles are showing signs of wear and tear, especially those built in a flimsy manner. There is no improvement in the storage of garbage and rubbish before collection; this state of things is not only a nuisance but an eyesore. In my opinion, no system of dealing with this matter will be found satisfactory until the city authorities themselves provide the receptacles and charge the cost to the owners.

Nuisances from the keeping of hogs has become more acute than ever. The recommendation of the Food Controller to raise hogs in the city has resulted in hundreds of them being housed at the rear of dwellings and within the limits allowed. The keeping of cows is almost as big a nuisance. Serving notice to remove these animals is of no use, and in my opinion the matter should be dealt with on broader lines. I would suggest that no hogs or cows be allowed to be stabled within the line of the C. N. P. main line and Empire Avenue (except that licensed dairymen be permitted to carry on their usual business). A more drastic enforcement of the building by-laws with regard to the erection of back buildings would do much to prevent the nuisance.

I have on many occasions called attention to the unsanitary condition existing in the coal docks section, arising from the open ditches both in the lanes and streets into which the sewage is discharged from the houses. The conditions are worse in the spring and fall of the year when the ditches overflow and many lots and the ground under the houses are flooded with a mixture of storm water and sewage. These conditions are nothing short of disgraceful, and improvement seems as far away as ever. The effect upon the health of the people, especially of infants, is shown in the mortality statistics.

Thirteen prosecutions were instituted during the year for neglect in the abatement of nuisances. Three thousand five hundred and sixty-six (3.566) inspections were made.

Six hundred and fifteen (615) written notices were served for the abatement of nuisances.

#### SEWER CONNECTIONS.

During the year forty-two sewer connections have been installed, one by notice and forty-one by request.

#### DAIRIES AND COWBARNS.

The dairies and cowbarns have been kept under constant supervision. Conditions on the whole have been good. The dairymen are slowly but surely improving their barns and plants. In the coming year I expect to see most of the barns, if not all, fitted with iron stanchions and other improvements.

The cost of feeding stuffs is seriously affecting the supply of milk, and if there is no

reduction I am afraid the milk supply will be somewhat inadequate.

There are now only eight licensed dairymen. Two of these receive their supplies wholly from the farmers. The disposal of the manure from the barns has somewhat improved and no serious nuisance is now complained of.

There were collected 179 samples of milk for testing purposes.

Two prosecutions were instituted, one for low standard of butter fat and one for selling milk without a license. Six hundred and twenty-eight inspections were made during the year.

The illicit sale of milk has been considerably reduced during the year. The number of cows kept by the foreign population is not as large as it was a few years ago. This is probably due to the increased cost of feed.

#### RESTAURANTS, STORES AND FOOD SUPPLIES.

All the stores dealing in food have been regularly inspected and have been kept in a cleanly manner. Apart from meat, only five gallons of mixed pickles have been con-

demned during the year.

I have weighed bread frequently and have found same of standard weight. The restaurants have been kept in good order and the number increased by one. Several applications have been received but refused on account of insufficient sanitary arrangements.

Seven hundred and twenty-three (723) inspections were made.

#### Infectious Diseases.

Owing to the prevalence of whooping cough and influenza, a great deal of time was occupied in placarding. Nine hundred and fourteen (914) visits were made.

## SUMMARY.

Date.	Butchers.	Dairies.	Bakeries.	Candy Stores, Cafes.	Nuisances.	Communi- cable Diseases.	Total.	Milk.	Nuisances and Notices,
1917 November December	56 93	53 68	14 36	26 54	354 165	<u>1</u> 9	503 435	23 10	. 1
1918 January February	86 116	65 73	22 25	42 36	136 122	47 75	398 447	5 10	3
March	125 115 72	68 63 47	29 15 20	42 56 43	143 356 430	72 24 73	479 629 685	15 18 22	3 5 7 8 116
June July August	84 83 95	36 43 36	18 12 16	42 78 29	365 343 326	47 15 10	592 574 512	13 11 24	158 59 68
September October	92 94 1,111	$\frac{54}{22}$	$\frac{\frac{6}{4}}{217}$	$\frac{32}{26}$ $\frac{36}{506}$	$\frac{310}{135}$ 3,185	$\frac{\frac{6}{526}}{914}$	$\frac{500}{807} \\ \hline 6.561$	$\frac{16}{12}$	53 90 568

#### ABATTOIR AND BUTCHER STORES.

During the year the abattoir has been in constant operation. Owing to the exposed position of the water supply, we are every winter put to considerable expense in thawing out. Expenses this year are the same as last within a few cents. Had it not been that the power plant had to be renewed, they would have been considerably less.

The year has been a very satisfactory one from a financial standpoint. The receipts

were one hundred and twenty-five dollars and thirty-eight cents (\$125.38) in excess of

the expenses.

The working of the plant is amply justified from the fact that considerably more than one thousand animals are slaughtered annually compared to a very few before the board undertook the management. Moreover, the danger from the sale of diseased and unwholesome meat is practically eliminated.

The butcher stores have been inspected from time to time and are fairly well kept.

Three additional stores have been opened.

The following meats were condemned and destroyed: 120 pounds of sausages; 1.150 pounds of beef.

### SUMMARY OF WORK DONE AT ABATTOIR.

Date.	Cattle	Calves.	Hogs.	Sheep.	Total.	Revenue.	Expenses.	Inspec- tions.
1917 November	58 80	30 61	8 6		96 147	\$ c. 72 25 118 00	\$ c. 53 80 60 90	56 93
1918 January February March April May June July August September October	44 57 35 36 53 53 59 76 74	37 34 25 46 37 77 32 28 33	14 2 5 9 13 11 8 19 1	1 6 12 43	95 93 65 91 103 122 105 135 151	60 25 66 50 43 75 52 00 68 75 58 00 71 80 95 60 93 50 117 25	107 19 71 75 55 50 50 45 53 10 48 75 60 15 47 00 47 85 62 80	86 116 125 115 72 84 83 95 92
Utilities							63 03	
	703	489	110	62	1,364		782 27	1,111
			(	Credit Bal	ance		125 38	
						907 65	907 65	

### CAUSES OF MORTALITY.

### Infants Under One Year.

Number on		Number on
International		International
List.		List.
151 Congenital debility	26	76 Diseases of the ears 1
104 Diarrhœa and enteritis	19	71 Convulsions of infants 1
92 Lobar pneumonia	11	53 Leukemia 1
91 Broncho pneumonia	6	167 Burns 1
10 Influenza	4	186 Other external causes 1
152 Other diseases of early infancy	2	109 Hernia, etc 1
8 Whooping cough	2	189 Ill-defined 2
89 Acute bronchitis		
150 Congenital malformations	1	Total 82
87 Diseases of the larynx	1	

### DEATHS.

Number on International		Number on International	
List.		List.	
151 Congenital debility	26	108 Appendicitis	2
92 Lobar pneumonia	23	109 Hernia, etc.	$\frac{2}{2}$
104 Diarrhœa and enteritis	19	152 Other diseases of early infancy.	2
10 Influenza	17	185 Fractures	2
79 Organic diseases of the heart	13	186 Other external causes	2
91 Broncho pneumonia	9	39 Cancer of the buccal cavity	1
28 Tuberculosis of the lungs	9	37 Syphilis	1
189 Ill-defined	8	41 Cancer of the peritoneum	1
S1 Diseases of the arteries	5	46 Other tumors	1
96 Asthma	4	54 Anemia	1
61 Meningitis	4	71 Convulsions of infants	1
154 Senility	4	74 Other diseases of the nervous	•
167 Burns	4	system	1
175 Traumatism by other crushing	4	76 Diseases of the ears	î
7 Scarlet fever	3	78 Acute endocarditis	1
8 Whooping cough	3	80 Angina pectoris	ĩ
40 Cancer of the stomach	3	90 Chronic bronchitis	1
120 Bright's disease	3	102 Ulcer of the stomach	1
138 Puerperal albuminuria	3	87 Diseases of the larynx	1
165 Other acute poisonings	3	103 Other diseases of the stomach	1
169 Accidental drowning	3	113 Cirrhosis of the liver	1
9 Diphtheria	. 2	119 Acute nephritis	1
20 Septicemia	2	131 Cysts, etc	1
43 Cancer of the breast	2	134 Puerperal hemorrhage	1
45 Cancer of other unspecified		147 Diseases of the joints	1
organs	2	150 Congenital malformations	1
53 Leukemia	2	174 Traumatism by machines	1
64 Cerebral hemorrhage	2	181 Electricity	1
89 Acute bronchitis	2		

## GENERAL EXPENSES.

Salaries	\$7,178	44
Maintenance of Isolation Hospital	1,350	08
Livery and carfare	89	
Printing and stationery	225	44
Office and laboratory equipment		90
Antitoxin	29	
Automobile	518	14
Conventions		0.0
Ambulance		0.0
Incidentals		12
Abattoir		27
	\$10,471	84

## CREDITS.

Revenue from abattoir Isolation Hospital accounts Police Court fines Milk licenses	$\begin{array}{c} 1.166 & 00 \\ 519 & 00 \end{array}$	
-		\$2,607 40
Total net cost of department		\$7.864 44

Respectfully submitted.

EDW. B. OLIVER,

Medical Officer of Health.

#### GALT.

To the Chairman and Members of the Local Board of Health.

Gentlemen.—In accordance with the provisions of the Ontario Public Health Act, I beg herewith to submit my annual report for the year ending the 31st day of October, 1918.

The remarkable feature of this report is the total absence of typhoid fever within our municipality, due, no doubt, to the excellency of the water supplied to the citizens, to the careful supervision of the milk, and other minor sources of contamination.

Last year we found some difficulty in keeping the milk supply up to the standard of the city's by-law regarding butter-fat, but this year, I am pleased to be able to inform you, there has been a decided improvement, and that the milk vendors, in my opinion, are using their best endeavours to supply the citizens with clean, wholesome and nutritious milk. Yet notwithstanding the great endeavours of the milk vendors to supply us with good milk, I am still strongly convinced that the milk supply will never be satisfactory until we have a central station where all the milk will be first delivered, tested and pasteurized before being delivered to the citizens for consumption. This is, I believe, the only way you can detect from whence comes the unclean and poor milk. Milk, next to water, is the biggest problem we have to contend with in carrying disease. Furthermore, Bovine Tubercle, which attacks the young under sixteen, can only be destroyed by pasteurization or boiling.

Last year we had trouble in keeping the privies clean and in a sanitary condition, owing to the fact that the boxes were poorly constructed, the large number of pits, and the very unsatisfactory way of collecting the fee. However, all these difficulties have practically been overcome by having the boxes improved, the pits closed, and by the great assistance rendered by the City Council in passing a by-law making the landlords primarily responsible for the keeping of them clean and charging the costs of so

doing against the various properties.

Regarding tuberculosis, I regret to be compelled to again inform you that the local medical gentlemen have not as yet complied with the regulation laid down by the Provincial Board of Health with regard to reporting cases of tuberculosis, which regulations say that whenever a legally qualified practitioner knows that any person whom he is called upon to visit is affected with tuberculosis, he shall, within twelve hours, give notice thereof, on the prescribed form, to the Medical Officer of Health of the municipality in which such diseased person resides.

During the year we have had some severe epidemics of measles, chickenpox, diph-

theria, whooping cough and influenza. A detail of the cases will be given below.

I desire to call the attention of the physicians and the public generally to the fact that, under the Act, it is as compulsory to report whooping cough to the Medical Officer of health as any other contagious disease, but it is not necessary to placard the house. This, in my opinion, is a mistake which should be remedied as soon as possible if it is the desire of the Health Authorities that the Medical Officer of Health should have supervision of whooping cough. Before leaving this subject it might not be inappropriate to draw attention to the fact that in the month of August in the Province of Ontario the death rate was as follows:

Scarlet fever10	per	1,000
Diphtheria	"	1,000
Measles	**	1,000
Whooping cough48	"	1,000

From the above statistics it will be seen that while we pay strict attention to the placarding of the first three we pay no attention whatever to whooping cough, where the death rate was very much greater during that month.

## Re Spanish Influenza.

We are now passing through the throes of the severest and most deadly epidemic that this city, or, in fact, the continent of America, has ever known, and from a close observation of the cases that came under my notice I am convinced that the death rate has been greatly increased by the following facts:

1st.—By living in overcrowded and poorly ventilated premises.

2nd.—By being overworked and poorly nourished on account of the high cost of

the essentials of life.

These facts, together with the fear of catching cold if by any means the blinds should be drawn and the windows opened so as to let in a current of fresh air and God's sunlight, are largely responsible. It is astonishing to me to see so many people who

are the happy possessors of parlours and guest-rooms who will not permit even the sun to enter these sacred precincts for fear the sunlight should fade the carpet, and the air never permitted to enter except when they are expecting a guest. All I have to say is, preserve me from being the guest in such cases.

### Re Venereal Diseases,

Since the Act went into force on July 1st of this year I have had sixteen cases under my supervision and I am satisfied that these are not more than fifty per cent. of the number suffering from venereal diseases in our city. The Act gives the Medical Officer of Health power to order any person, male or female, whom he believes, or has occasion to believe, is suffering from venereal disease, to present himself or herself before a legally qualified medical practitioner for examination and procure from him a certificate as to whether or not he or she is suffering from any venereal disease, and if so, what form.

It requires a good deal of courage on the part of the Medical Officer of Health to go as far as this Act provides in ordering one of his fellow citizens to present himself or herself for examination, and while these increased duties and responsibilities fall to the lot of the Medical Officer of Health, there seems to be no special provision made in

the Act for remunerating him for these increased duties.

## VITAL STATISTICS.

Deaths	207
Death rate per 1,000	16.60
Population	2,558
Births	268
Birth rate per 1,000	21.50
Infant mortality	33.
Infant mortality per 1,000	2.64

#### CONTAGIOUS DISEASES.

	Reported.	Deaths.
Typhoid fever	. 0	•
Chicken pox	. 20	0
Smallpox	. 0	•
Tuberculosis	. 3	3
Poliomyelitis	. 0	0
Scarlet fever	. 8	0
Diphtheria	. 25	3
Measles	. 455	1
Mumps	10	0
Erysipelas	. 0	0
Scabies	20	•
Whooping cough	Not reported)	0
Influenza	Not reported)	51

In conclusion, I feel that it might not be amiss to draw the attention of the Board and the public generally to the value of preventive medicine. Public health and prevention of disease have engrossed the attention of the medical profession for a very long time, but it has not been until recently that the doctors have received any help or co-operation in their work for humanity from the public, and it will require a great deal of philanthropy and organized work, united with the doctors, before any benefit will be felt by the general public in preventing and alleviating disease. You have all heard the old adage: "An ounce of prevention is worth a pound of cure," and that is true to-day in every sense of the word.

Respectfully submitted.

## J. H. Radford, M.D., Medical Officer of Health, Galt, Ontario.

DEAR SIR.—Herewith find annual report and certified causes of death registered with me for the year ending October 31st, 1918, as follows:

Bright's disease Cellulites Gastric ulcers Otitis olders Still-born Congestion of liver Septic meningitis Injury at birth Apoplexy Peritonitis Chronic bronchitis Acute phthisis Mitral incompetence Myocarditis Old age Arterio-sclerosis Cystitis Sarcoma Valvular heart disease Uræmia Pneumonia Heart failure Cancer Hepatic abscess Paralysis Hemiplegia Appendicitis Nephritis Injury Burns Broncho-pneumonia Tuberculosis Acute jaundice Psoas abscess Carcinoma Epilepsy Diabetes mellitus Gastritis	1 7 1 1 3 3 1 4 1 2 1 4 1 2 3 3	Abscess of liver Acute indigestion Enlarged liver Railway accident Heart lesion Inflammation of the brain Double pneumonia Pyæmia Exopthalmic goitre Gastro-enteritis Glandular tuberculosis Splenic anæmia Locomotor ataxia Premature birth Gangrene Senile decay General debility Endocarditis Tumour of spleen Cellulitis of brain Heart disease Tabes messentenes Mitral regurgitation Pernicious anæmia Septicæmia Internal hæmorrhage Diphtheria Cholera infantum Fibrous phthisis Spina bifida Diabetes Myocardial degeneration Influenza Pulmonary tuberculosis Inanition Malnutrition Organic heart disease	1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Fibroma (uterus)	1		207

Certified.

JOSEPH McCartney,
Division Registrar.

GALT, ONT., December 9th, 1918.

To the Members of the Galt Board of Health.

GENTLEMEN.—The Chairman of the Local Board of Health, reviewing the work of the passing year, respectfully submits the following report:

The extensive report of our Medical Officer of Health has placed before you a detailed account of the year's work done by the Board of Health during 1918. It is a matter of deep regret to the Chairman and to every member of the Board that the past year has been the most distressing since the smallpox outbreak some years past. It is a coincidence that the present Swiss Cottage became a necessity at that time. The experience of the past few months has clearly demonstrated the necessity of an up-to-date isolation hospital to adequately take care of those unfortunately the victims of contagious diseases.

The ordinary bealth of the city is vastly due to the care which has been exercised towards securing a supply of pure water and unadulterated milk. The absence of typhoid fever is an evidence of improvement along these lines.

I wish to congratulate the Board on the progressive attitude which has been taken in all matters safeguarding the public health. The Board should continue to take the lead it has taken toward instructing in every possible way as to the advantages of right living and right thinking, and sending out a word of advice in season that all may better understand the laws of healthful life.

There are some improvements needed in the matter of City Sanitary Conveniences. A resolution was passed by this Board directing the City Council to make a careful study of this important subject, and I trust our efforts will be successful next year.

The matter of disinfecting schools is a subject of vital interest. The City spends annually thousands of dollars on education, but is rather shrewd in its expenditure in the interest of public health. Health is the first consideration, and I hope to see the schools and public places disinfected regularly. The experience of the past few months has taught us that eternal vigilance is the price of health: that prevention is better than cure: and this leads me to congratulate the School Board in having secured the services of such a competent school nurse, who is continually on the alert and who understands the signals that indicate poor health. While we do not wish to usurp the work of the School Board, I think it advisable to have the school nurse placed under the supervision of the Board of Health, as her work is solely in the interest of public health.

The rule adopted by the Board of Health re sewer connection is working satisfactorily. The citizens are realizing the advantages of sewer connection and are making applications for sanitary conveniences. You may be asked to consider the advisability of appointing a qualified meat inspector who would see that all meat sold for human consumption would comply with the Government requirements. The Board held an important discussion relating to the inspection of dairy farms, and while no action was taken, it seems to be the opinion that some one duly qualified and of impartial mind should be appointed to undertake this important work.

The increasing duties of the Medical Officer of Health are worthy of your consideration. The position of the Medical Officer of Health is a very responsible one, and in order to discharge these duties faithfully a considerable amount of time is required altogether out of proportion to the remuneration he receives.

The Chairman of this Board wishes to thank the citizens' Willing Workers League and all others who, with such sacrifice, volunteered their assistance during the recent epidemic of influenza.

In conclusion, allow me to convey to you my appreciation of your valued co-operation and consideration extended to me during the year of 1918.

Yours very respectfully,

Frank Blair, Chairman of the Local Board of Health.

# KINGSTON.

GENTLEMEN.—My annual report deals with subjects with which you have become very familiar in the past few years, but there is still room for much work along the lines indicated before we shall have reached conditions that are entirely satisfactory.

With the exception of typhoid fever and influenza, the toll taken by infectious diseases during the past year has not been unusually heavy. Until we attain the state in which infectious disease can be prevented or destroyed immediately after it has attacked the individual, we will, in spite of all other efforts directed against it, be subject to a certain loss of life. Last year the loss was not above the average. The influenza epidemic, while severe and very fatal in character in those who developed pneumonia. did not claim a greater number of victims here than it did anywhere else. The problem was a comparatively new one. In previous years, ever since the great epidemic of 1889-1890, we have become familiar with influenza or la grippe through yearly visitations, but the epidemic of 1918 confronted us with a new problem of dealing with a mixed infection, the pneumonic phase of which accounted for the high mortality. The city is greatly indebted to the medical students and the bands of volunteer workers who unselfishly threw themselves into the work of relief. The service they rendered can never be estimated in dollars and cents. As soon as the epidemic was well under way the local branch of the Provincial laboratory prepared a vaccine which was distributed free to all physicians asking for it. It was used freely in Kingston, with what ultimate beneficial effect we do not as yet know. The New York research laboratories announce that they have under preparation a serum which will act either as a preventative or curative agent.

Early in August it became apparent that a typhoid epidemic had again broken out. A diligent search for the cause revealed the fact that most of the cases were on the

route of an ice-cream dealer, and immediately all ice-cream offered for sale was subjected to laboratory tests. These, while failing to absolutely confirm the circumstantial evidence, brought out the fact most clearly that ice-cream made from pasteurized milk was infinitely superior from the bacteriological point of view to ice-cream made from raw milk. This indirectly brings up the whole question of milk supply. We insist on the producer keeping only healthy cattle in his herd and on reasonable cleanliness in attention to cattle, byres, containers, etc., but in spite of this it is possible for milk in transit to the consumer to be infected in various ways. This can only be overcome by pasteurization, and this can best be done by a civic plant, as otherwise a few progressive dealers will carry out the process, and others will not, or if forced to do so, will do it in a haphazard way. Some eighteen years ago an effort to supply Kingston with a pasteurized milk supply was attempted by a company of citizens who certainly had the right idea. For some reason the scheme failed to work out, and the building designed for the purpose is now leased to the Government for other purposes, but in spite of the failure of that effort the idea was right, as has been proved by the experience of larger centres, and we should plan for the time in the near future when such a scheme shall be successfully carried out under civic control.

While the typhoid epidemic last year was apparently due to infected ice-cream, we must not lose sight of the fact that this was only the immediate cause, and that the water supply is after all the great source of typhoid infection through sewage pollution. These questions, water supply and sewage disposal, are perennial, and are annually becoming more insistent, and a solution of these problems must be found. For one community to adopt an expensive system of sewage disposal while a neighbouring community failed to adopt any precautionary measures and continued to pollute the common water supply would be most unwise, but if we cannot ensure the purity of supply at its source, we can by chlorination, combined with filtration, ensure its purity at the distributing point. To some extent we have attempted this by chlorination, and I am informed by the Utilities Committee that a more up-to-date and reliable method of water chlorination has been ordered for Kingston. This became imperative through the failure of the old plant to adequately care for our water supply after the installation of the new electric pump, but at best this is a half measure and should only be regarded

as a makeshift.

With the termination of the war and the return of the men at the front and the era of big business looked forward to by this country the housing problem promises to become acute. There are many dwellings in Kingston that are not sanitary or fit for human habitation according to modern ideas. The difficulty in the past has been that there are no places available for the tenants should these unhealthy places be closed, and so the Board has had to content itself with trying to get reasonable improvement made in such places, but if the health of the community as a whole is to be lifted up to a higher plane, it will be necessary to prevent people inhabiting dwellings that are unsanitary. Of course the problem is a mixed one, and until some people are taught to realize the advantages of personal hygiene, placing them in sanitary surroundings instead of improving them, will soon bring about a depreciation in the sanitary value of the dwellings. Fortunately such people are becoming fewer in number, and it would be worth while to try the educative value of sanitary surroundings in helping these people to realize the value of proper sanitation.

The city incinerator continues to do its work well, and it is hardly necessary at this time to point out its advantages. It has become a necessity in the community, and even if the expense was much greater than it now is the service rendered would be

worthy of the expenditure.

During the past year the school nurse, Miss McCallum, who has been most efficient in the performance of her duties, resigned to take up other work. The School Board, impressed by the character of her work, resolved without controversy to continue the system, and on behalf of the Board of Health I must congratulate them on their decision, as there is no doubt whatever that the work of a competent school nurse is of the greatest value in the early detection and isolation of infectious diseases, apart altogether from its value in numerous other ways in the improvement of the health of the community.

Respectfully submitted.

A. R. B. WILLIAMSON,

Medical Health Officer.

#### KITCHENER.

KITCHENER, ONT., Nov. 29th, 1918.

To the Mayor, Chairman and Members of the Board of Health, Kitchener,

GENTLEMEN,-I beg to submit to you the annual health report for the city of Kitchener for the year ending Nov. 29th, 1918.

Up to the time of the Spanish influenza outbreak, the health of the city was good.

There were 341 deaths registered during the year. Thirty-four of these deaths were registered as prematurely born infants.

It is impossible to get a correct estimate of the number of cases of influenza. It caused 127 deaths; 40 cases were admitted to the Isolation Hospital; 13 died, all from pneumonia.

From reports to physicians the epidemic is over in this city.

The diphtheria report is the best we have had for years. Six cases of diphtheria and no deaths.

Two cases of scarlet fever. No deaths. One case of scarlet faver treated at the Isolation Hospital.

There were eleven deaths from tubercular affections, five less than in 1917.

Sixteen deaths from cancer, five more than in 1917.

One death registered from typhoid and one from typho-pneumonia. There were several cases of mumps and whooping cough. No deaths.

Provincial laboratory water reports up to October were good. Superintendent Hymmen assures me that no water has been taken from Shoemaker's Lake since October 23rd.

Sanitary Inspector Buchhaupt states that the incinerator will be in full working

order on December 2nd and that a first-class service may be looked for.

The milk tests during the year have been satisfactory. Owing to the Sanitary Inspector and M.O.H. having contracted influenza, there were no milk tests made in October and November.

Respectfully submitted,

John McGillawee.

Medical Officer of Health.

#### LONDON.

London, Ont., December 1st. 1918.

The Chairman and Members of the Board of Health.

Gentlemen,—I beg to report that the Board of Health held thirty-five meetings in 1918. The attendance of the members was as follows:

Contr	ller Saunders	5	meetings.
The 1	te Mr. Hale	1	meeting.
E. H.	Russell 2	27	meetings.
Dr. E	11	5	
His V	orship the Mayor 2	4	**
Ald.	rake	2	44
Mr. J	hnston 1	1	**
Mr. I	ouglas 2	7	"
Dr. I	ownham 2	25	"

The estimates of the Board provided for an expenditure of \$9,855. It is expected that with the exception of the expenses of the influenza epidemic the Board is well within its limit.

The sewerage system for Chelsea Green District and the lands along the river bank were considered by the Board, but, on account of war conditions, no action was taken.

Eight reports were submitted to the Board respecting the city water supply. In one or two cases colon bacilli were reported. The Board, thereupon, urged the protection of the ponds at Springbank from possible surface water contamination and the securing of a chlorination plant for emergency use. The Commission has been reported to have secured chlorination facilities.

The condition of the street cars was given consideration. During the prevalence of the epidemic, the cars were not crowded, and were satisfactorily disinfected.

The public and separate schools were inspected by the sanitary inspectors.

As a temporary war measure, the Board granted fifty-five permits to keep hogs in the city, and instructed Inspector Dr. Tamlin to satisfy himself that the regulations of the Board with respect thereto were strictly observed.

Miss Friend, who has been appointed public health nurse by this Board, was permitted to render assistance in the Child Welfare movement.

The usual practice of appointing a number of special back-yard inspectors in the

spring was discontinued and Mr. Scott appointed a full-time assistant inspector.

Only a few complaints respecting unsanitary conditions were presented to the Board. The monthly reports of the inspectors were indicative of efficient inspection and of very much improved conditions in London. The epidemic, however, showed need for more vigorous action by the Board with respect to house sanitation.

The milk supply, as evidenced by Dr. Tamlin's report, is of good quality. The condition of a number of dairies, however, is not satisfactory. The Board is convinced

that the veterinary inspector is getting results.

Dump conditions show improvement.

The reports submitted monthly by the M.O.H. cnable the Board to secure reliable information and give full statements as to all activities under the control of the Board. The secretary furnishes each member of the Board with a copy of the minutes, which includes all reports and communications considered by the Board.

The sanitary sewers considered by the Board were the Egerton Street, Grand Ave., Kenneth Ave. and Wellington Rd. In neither case was it possible for the Board to afford immediate relief. The M.O.H. compelled ratepayers to connect with the sanitary

sewers and discontinue outside closets.

The resignation of Dr. Hill was followed by the appointment of Dr. Downham.

The Board is considering the question of the control of all health officials and activities by the Board, and the use of volunteer organizations in conjunction with the

Board—the co-ordination and co-operation of all health activities.

The influenza epidemic received the full consideration of the Board. Very indefinite information was securable as to the number of cases. The Board acted upon what they believed to be common sense principles and received magnificent support from the S.O.S. ladies. The number of deaths was 231. The cost to the municipality was not more than \$4.300. The minutes of the Board are in sufficient detail to be of service to any succeeding Board wishing to avail themselves of the experience of this Board.

All of which is respectfully submitted.

S. Baker, Secretary.

London, Ont., December 10th, 1918.

GENTLEMEN.—Pursuant to the provisions of the Public Health Act, I beg to submit a report of the work of the Board of Health for the city of London for the year 1918.

The Board has had a very unusual number of changes in its personnel during the year. Controller Saunders was elected chairman at the first meeting, and proved himself a most capable and useful member of the Board. Early in the year the decease of Mr. Jeffrey Hale removed a most valued member. The vacancy was filled by the appointment of Alderman Drake. An Act of the Provincial Legislature prohibited a member of the Council from acting on the Board of Health, and Controller Saunders and Alderman Drake resigned from this Board. Messrs. H. M. Douglas and E. H. Johnston succeeded them. I was elected chairman by the new Board. Dr. Hill, Medical Officer of Health, resigned to take up work in the United States. The resignation of Dr. Hill was a very great loss to the city and district.

Dr. Hill was the best posted and best known leader in sanitary science in Ontario. He has done splendid work for London. His assistant, Dr. Downham, has been

appointed to fill the vacancy, and should make a capable official.

The city water supply is ample and of excellent quality. Possibly, however, the

use of the water for other purposes than domestic may prove too great.

The Board of Health has, from time to time, requested the Utilities Commission to further protect the ponds at Springbank from surface water contamination, and to provide a chlorination plant for emergency use. No action has been taken in the first request, but I understand a chlorination plant has been secured. The occasional presence of typhoid germs (colon bacilli) point to contamination, and the Board should order compliance with its request.

A recommendation was made to the City Council that some action be taken in reference to the river, including Hunt's mill dam, and also the re-erection of the

Springbank dam.

An inspection of the school buildings was made by the Sanitary Inspector and M.O.H. The result of the inspection shows that the schools are in a sanitary condition.

As a war measure, persons were permitted to keep hogs in the city, subject to inspection and regulations of the Veterinary Inspector. About fifty-five persons were granted permits. The rules of the Board with respect thereto are: "Swine shall not be kept within the limits of the municipality except with the consent, in writing, and subject to regulations of the Board of Health of the city of London, and then only in

pens with floors kept free from standing water and regularly cleansed and disinfected, and distant at least one hundred feet from any dwelling house, school house or church, and from any public highway, street or lane." No further permits are being issued and

others gradually lapse.

The Board this year discontinued the appointment of special Sanitary Inspectors for back-yard inspection in the spring, and appointed an Assistant Sanitary Inspector, Mr. Scott. The work is now being looked after during the whole year. The few complaints made to the Board, and the general condition of the city, prove that the action of the Board was wise. The influenza epidemic demanded attention that could not have been given by one inspector.

The work of Veterinary Inspector Tamlin has been very satisfactory. The milk supply is above the average. The condition of dairies generally is improving. A continual watchful inspection is made. There, however, is still room for improvement.

The appointment of Miss Friend as public health nurse promises to be a most helpful public health service. In the treatment of the influenza epidemic, Miss Friend gave splendid help. The influenza epidemic was most serious. The Board met every day. It is almost impossible to tell the number of cases, but the number of death's registered were 231.

The main facts were:

First appearance—September 22nd.

October 5th-Meeting of Board of Health and Drs. McCallum and Tillmann. McCallum says the epidemic lasts about four weeks.

October 14th-Meeting of Board and city physicians. Closing order to theatres, pool rooms, schools, dance halls.

October 17th—Definitely closing churches and forbidding public funerals.

October 18th-Crest of epidemic about reached.

October 19th-Order opening drug stores.

October 23rd-Ministerial Alliance permit. Advt. Westminster Tp. opens churches, schools, November 4th, 1918.

October 24th—Victory Loan to proceed; Ministerial Alliance re opening churches.

October 26th—Informal discussion re same.

Upon motion it is decided:

(1) To permit churches to be opened on Sunday, Nov. 3rd.

(2) To permit theatres to be opened on Monday, Nov. 4th. (3) To permit schools to be opened on Monday, Nov. 11th.

(4) To permit Sunday Schools to be opened on Sunday, Nov. 10th.

The expense to the city was about \$4,300.

The assistance rendered by the S.O.S. proved most valuable. The school kitchens provided food for nurses and patients. Mesdames McKillop and Thomson and a host of ladies were most indefatigable. The debt of gratitude of the Board of Health cannot be adequately expressed.

The Board was so impressed with the co-operation of the several organizations of the city that arrangements are made for a discussion at its next meeting of the question of a permanent Board for the continuance of the system. A full report is presented

in Minute No. 157 of their work.

The staff of the Health Department at the close of the year is as follows, viz.:

(1) M.O.H., Dr. Downham.

(2) The staff of the Hygienic Institute. (3) Miss Friend, Public Health Nurse.

(4) Sanitary Inspector, James Lutman.(5) Assistant Sanitary Inspector, J. W. Scott.

(6) Miss Baron, Tuberculosis Nurse.

(7) Dr. Tamlin, Veterinary Inspector.

The appointment of Miss Friend and Inspector Scott inaugurate new departments. It seems to me that the nurses in the employ of the Board of Education and any other

department of the city's activity should be under the control of the Board.

I am satisfied that if a system is put into operation, directed by the Public Health nurse, under the M.O.H., by which all the present nursing service is directed from a central point (City Hall), the city will be practically covered, without adding to the number of nurses now employed. Much time and energy will be saved; the special aspect of conditions in the homes, of which the nurses will have knowledge, will be available for those organizations that specialize in such work; the nurses, having a larger and more varied field of work, will find it more interesting and become more efficient, and the needs of a growing city more adequately cared for.

I would like also to express my thanks to His Worship the Mayor and members of the Board for their uniform kindness and consideration to myself during the year; also to the M.O.H., Dr. Downham, Secretary Baker, and the staff, for their promptness and cheerfulness in carrying out a large amount of added work during a crisis such as the city never had at any previous time, the magnitude of which we do not yet realize; to Mr. Slack and the Health Institute for much work done outside its regular operations, to the great benefit of the city, and to Miss Fidlar, of that staff, who was the pivotal point on which so much depended.

All of which is respectfully submitted.

E. H. Russell,

Chairman.

#### REPORT OF THE M.O.H. FOR 1918.

The year 1918, from a public health standpoint, has been a very irregular one for London. Early in the year the city was visited with an epidemic of measles. This naturally demanded a great deal of work and attention. Unfortunately, at this period of the year there was no doctor employed, under Dr. Hill, to spend his whole time inspecting, quarantining and isolating such cases. A number of practising physicians were employed to devote as much time as possible to this work, and they worked faithfully at it, but they could devote only irregular hours. There was some overlapping and some uncertainty as to when certain calls could be made. As a result, some cases were a week or more late in being quarantined. This condition naturally tended to increase the number of cases, since a number of people will not isolate themselves or children unless compelled to do so.

About this time, also, there were changes in the members of the Board of Health, the chairman and one member resigning. However, two new members were soon appointed, and everything was working well, when suddenly we were informed that the M.O.H., Dr. Hill, had received a tempting offer from Minnesota, and was about to resign, which he did in June. This was a serious blow to health matters in general in London, since Dr. Hill was a capable officer and much interested in his work and under-

stood it well.

After Dr. Hill's term of office expired, I endeavoured to carry on the work as best I could. Fortunately, about this time of the year, the number of cases of communicable

disease is usually comparatively low in number.

Early in the autumn, however, we began to hear rumors of cases of influenza occurring in the large eastern cities of the United States, and it was only a few weeks until the disease showed itself in this city. The number of cases rapidly increased, and it was not long until all the doctors and nurses had more work than they could attend to. About this time it was arranged that nurses, trained and practical, could register at the Institute of Public Health for the convenience of physicians needing such help. This arrangement was scarcely under operation when Mrs. J. B. McKillop received a wire from Mr. McPherson, Provincial Secretary, asking her to form a branch of the Women's Volunteer Emergency Auxiliary. This was quickly and ably done by Mrs. McKillop on October 17th, and everything was soon in readiness for the registration of Sisters of Service. This organization had its headquarters at the Institute of Public Health, where Miss J. Fidlar, Statistician, was placed in charge of registration of nurses, and Miss B. Friend, practical nurses, and directed all nurses as to where they should be employed. Nursing aid was sent on advice of physicians or after inspection by the Board of Health. Nursing aid was supplied, in this way, for eleven hundred and fifty nursing days; sheets, bedding, pneumonia jackets, old linen, clothes etc., supplied mostly by the Red Cross, through Mrs. C. R. Somerville, but also by private citizens and firms, were sent out from the office at the Institute of Public Health. In so far as possible, day and night nurses were relieved in the morning and evening, which assured the nurse of certain hours of rest. Nurses were driven from place to place by volunteer automobiles and by those supplied by the Board of Health. Nurses reported to the office by 'phone day and night. Several medical students and other young men volunteered their services, and were a great help in difficult cases.

Two hundred and twenty families, with an average of three patients each, were provided with nurses, of which there were ninety-four who registered. Seventeen women registered who gave assistance in homes as housekeepers where the mother was

ill or exhausted.

The work of supplying nourishment for the stricken families and lunches for nurses was undertaken at once by the Women's Volunteer Emergency Auxiliary, and two diet kitchens established, one at the Alexandra School, under Miss Craig, dietician, and one at the Collegiate Institute, under Miss McPherson, dietician.

During the epidemic 187 civilians died. Of these, 67% were persons from twenty

to fifty years of age.

The diet kitchen remained in operation for twenty-four hours, during which time twenty-two hundred baskets of food for patients and sixteen hundred lunches for nurses were prepared and sent out.

The distribution of the food was only made possible by the generous way in which the citizens made use of their motors, under the able direction of Mrs. Allan McLean.

An emergency hospital was opened at the Latter Day Saints Church, the use of the building being offered by the pastor, Mr. Gray. No. 4 Division, St. John Ambulance,

cared for a number of patients at their quarters.

During the past few months I have been making observations on the different diseases that regularly come under the Board of Health, and I wish to say a few words regarding nasal diphtheria. For the past few months at least twenty-five per cent. of our cases have been purely nasal, no membrane showing in the throat, and very frequently such cases are diagnosed, especially by parents, as cold in the head. Patients with this variety are usually not very sick, but while they have this so-called cold in the head some other member of the family becomes seriously ill with diphtheria, and the health officer notified. As soon as possible I visited the home to arrange the quarantine and inspect the other members of the family, and very frequently I find usually a child, with a blood streaked mucous discharge from the nose. The culture, under these circumstances, has always proved positive for diphtheria with me. Every case of nasal diphtheria coming under my notice has given the disease to at least one other person. This cannot be said about diphtheria in the throat, because the case is soon isolated and the trouble usually ends. I would consider nasal diphtheria far more dangerous from the standpoint of infecting others than diphtheria of the throat. With me, a bloody mucous discharge from the nose has always given a positive culture, but in such cases the patient does not appear to be very ill.

A case of scarlet fever which was somewhat out of the ordinary came under our notice during the summer. A girl, eight years of age, showed a patch rash on body and limbs. The patches varied in size, from a ten cent piece to a foot in diameter. These patches had a considerable amount of natural coloured skin between them. They had the colour and appearance of a scarlet fever rash, and, in due time, each patch desquamated freely, while other parts of skin did not desquamate. The patient had some sore throat and a strawberry tongue, also other early signs of scarlet fever.

Early in the summer we observed a peculiarity in mumps that had not come under our notice before. Quite a percentage of these cases had more or less nose bleeding, and most of them gave a history of not having had nose bleed before. One girl, twelve years old, had several severe hemorrhages.

Chickenpox occurred in a woman seventy-eight years of age.

The Board of Health work in London has always received a great deal of valuable help in many ways from the Institute of Public Health. Their department of vital statistics receives notification of cases of communicable diseases, and keeps all our records in good order. They make many examinations of throat swabs, sputums, etc., and also regular examinations of the city water. They also test samples of milk.

Attached is a statement of the number of diseases for the year.

I remain,

Your obedient servant,

W. S. DOWNHAM.

Medical Officer of Health.

NUMBER OF CASES OF AND DEATHS FROM INFECTIOUS DISEASES IN THE CITY OF LONDON, CIVILIANS ONLY, FOR THE YEAR ENDING NOV. 30TH, 1918.

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There were seven cases of nasal diphtheria since July 1st, 1918.

#### ANNUAL REPORT OF SANITARY INSPECTORS FOR 1918.

London January 10th 1919.

Gentlemen.—During the year there were 161 orders issued for sewer connections. Out of that number 140 have been completed to our satisfaction.

All toilets of the factories and larger places of business in the city have been inspected. We found all the larger places in good sanitary condition, but some of the smaller places were not sanitary and were ordered to have toilets cleaned, which has been done.

We visited the London Fertilizer Plant several times during the year. The place has changed hands, and is being remodelled, which will make a vast improvement. There has not been many complaints in regard to the plant during the past few months.

All butcher and fish shops have been inspected twice a month during the summer and once a month during the winter. All have been kept in fairly good condition throughout the year.

All bakeries, restaurants, laundries and creameries have been inspected once a month during the year. They were always in fairly good condition at the time of inspections.

The city in general is in a fairly good sanitary condition.

# Respectfully,

JAMES LUTMAN, J. W. SCOTT.

LONDON, ONT., Jan. 11th, 1919.

GENTLEMEN,—I herewith submit a report of the number of visits made by me from Jan. 1st, 1918, to Dec. 31st, 1918, as follows:

Laundries	320 382 393 173	Stables Fruit shops Fish shops Junk shops Dumps Miscellaneous	65 52 56 45
Barbers	194	Miscellaneous	911

3.115

Yours respectfully,

JAMES LUTMAN.

Inspector.

# NIAGARA FALLS.

The Medical Health Officer of Niagara Falls begs herewith to submit his report for the year 1918

During the autumn of 1918 we had a severe epidemic of influenza, which was prevalent all over the world. In our city we had 3,000 cases, and a death rate of 70, or 2.33 1-3 %. Our General Hospital was not large enough to take care of all the serious cases, and the Board of Health took charge of the basement of Jepson Street Baptist Church, wherein they placed all the serious cases. The board was very handicapped for nurses, having to secure any one who would help, and trained them for the work.

Our milk supply has been adequate and of a superior quality. The city has two pasteurizing plants, each controlled by private capital. These plants are inspected

frequently.

Although the city has not built an incinerator, the garbage question came up early in the year. We have provided a place for it until an incinerator is built. The garbage is thoroughly covered by cinders and ashes each day, and we cannot find the least trace of smell.

Our water supply has not been up to the mark during the heavy frost and cold in the winter, but we are now connecting up with the Hydro Power Co., and are assured of a plentiful supply. Since excavation has taken place at the mouth of the Chippawa Creek for development purposes, I have doubled the percentage of chlorine in the water, consequently we have no cases of typhoid in our city.

In the spring I was able to have the City Council pass a by-law to tie up all dogs for six months of the year, beginning 1st May and lasting until 31st October. This proved

a godsend to everyone concerned, except perhaps the dog owner.

We also granted a few licenses to allow the people to keep one or two pigs, at a certain distance (60 feet) from any residence, this license to expire at the end of the year granted.

During four days in December, 9th, 10th, 11th and 12th, the city sent me as a delegate to the Public Health Association, held in Chicago, principally for the purpose

of studying the influenza situation.

I thank the city and the Board for their hearty co-operation in our efforts to keep a clean city.

H. LOGAN, M.O.H.

#### OTTAWA.

OTTAWA, December 31st, 1918.

GENTLEMEN,-In the absence of Dr. T. A. Lomer, Medical Officer of Health, I herewith present report of the Health Department for the year ending 31st October, 1918.

#### RE INFLUENZA.

The most outstanding feature of the year was the epidemic of influenza, with its terrible and widespread levy of illness and death, and which but for the splendid way our citizens co-operated to combat this visitation it would have been infinitely worse.

From the commencement, in the latter days of September, the cases developed rapidly, the greater mortality occurring in mid-October, declining rapidly toward the end of that month. During this time 520 deaths were registered from influenza and pneumonia, thus converting an otherwise excellent mortality record into the heaviest for many years.

Drastic steps were taken by the Board to meet the situation, warnings and instructions to the public being issued through the press and circulars distributed by the Boy Scouts. All public gatherings were prohibited, and the hours shortened in mer-

cantile and office work.

The aid of the public was enlisted, and too great praise cannot be given for the wonderful response to the Mayor's appeal to succor the stricken ones. Large relief committees were organized, with headquarters at the City Hall, through whom medical attention, nursing and all requisites were provided for the care of the sick. But for the splendid work done here, in many cases whole families must have gone untended and the suffering and death list have been terribly increased.

The general hospitals, though augmenting their accommodation to the utmost, were

inadequate to meet the demands for hospital care.

The May Court Club, Misericordia Hospital and Day Nursery came to the rescue

and cared for a large number of patients.

Through the courtesy of the University of Ottawa and the Public School Board we were enabled to open two large emergency hospitals, thus completing a hospital formation adequate to give the requisite care to those in need of it.

Thanks are also due to Queen's University, Kingston, V.A.D., the Militia Department, and other departments of the civil service by whom medical men, nurses and hospital equipment was provided, and to the personnel of the different civic services who were on duty at all hours to assist us.

Charts are appended showing the mortality record, and also the age incidence of those dying, showing the heaviest toll among those at the period of greatest usefulness in life.

The experience gained by many during the epidemic, showing conditions under which our poorer brethren live, must create a greater public interest looking to a betterment of living conditions for everyone. This means sanitary dwellings, but more important still, sanitary dwellers.

Legislation has been passed this year to aid those who wish to help themselves

toward the acquisition of a proper home by financial aid on easy terms.

To teach people to dwell sanitary in the home is a matter for education by the press, the schools, and through the advice of the tactful visiting by a district nurse. The co-ordinating of our various public health nursing activities, with an adequate increase to meet the needs, is one of the matters which should receive the early attention of the Board.

The closing of the schools during the epidemic of influenza, which many authorities contended would be not only unnecessary but undesirable from a public health standpoint when proper medical inspection is provided, gives further grounds for the utility of such a provision; the need for which the rejection for physical unfitness of so many by the medical examiners for the army had already emphasized.

Our soldiers have shown us Canadians how to die. It is up to the health authorities to show the people how to live.

#### Tuberculosis,

Thereulosis shows better reporting of cases by those in charge of them, there being 185 as compared with 103 last year. There is also a regrettable increase in the deaths, there being 149 as compared with 126. To this doubtless many factors have contributed, not the least being the high cost of the commodities essential to life. Meagre means and tuberculosis are close associates.

While the continued presence of tuberculosis is attributable to many causes, the most potent of all is the protracted presence in the homes of cases in the advanced stages, and although the Royal Ottawa Sanitorium has done splendid work in carring for these with a decided diminution in death rate, it is certainly inadequate to meet the needs, and our Board should support the committee in charge of it in their efforts to secure increased accommodation for patients—the need for which is absolutely urgent.

#### DIPHTHERIA.

Thirty-four deaths were reported as due to diphtheria. The great majority of these should be more properly attributed to delay on the part of parents in securing treatment and in view of the repeated warnings to the public of the importance of securing prompt medical advice in all cases of sore throat and croup. Those who have read and unheeded these warnings merit condemnation as well as commiseration in their neceless because the security of the second security of the security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second security of the second second second security of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s

#### SCARLET FEVER.

We were visited by an epidemic of mild scarlet fever,—the mildness of a large number of cases greatly increased the difficulties of its control,—many cases not being recognized in the early stages. A total of 592 cases was reported with 7 deaths, a mortality of a little over 1 per cent. as compared with the severe epidemic in the winter of 1914, when the death rate was 10 per cent.

### SMALLPOX.

During the year 15 cases occurred. While some were moderately severe there were no deaths. The contrast in the virulence of the two epidemics of scarlet fever is analogous to that found in smallpox, though since the scourge in Montreal, smallpox in this part of the country has been on the whole mild, some day it may appear in malignant form with dire results to those who have neglected vaccination.

# TYPHOID FEVER.

Typhoid fever, save for cases coming from outside, has been practically absent. There were six deaths during the year, all but one from outside sources. This is gratifying evidence of the success in attending the care of our water supply.

# REGISTRATION OF BIRTHS AND CHILD WELFARE,

The registration of births shows a gratifying increase, there being a total of 3,016 registered—1,650 of them being registered during the last half year following upon the action taken by the Deputy Registrar-General, at the suggestion of our Board, to ensure better observance of the requirements re prompt registration of births by physicians. It is reasonable to assume that had as full returns been made during the first half of the year our registration would have totalled 3,300. The early registration of births gives opportunity for our nurses to get in touch with the mothers early and thereby enhance their efforts toward the saving of child life.

The severity of the past winter coupled with scarcity of fuel and the intense heat of the past summer, and the ravages of the influenza have been the main factors contributing to the increased mortality of children under one year as compared with last year, which showed the smallest mortality for years—a total of 398 as compared with 497 this year. Of these 47 were children coming from outside the city, leaving 450 deaths of city children. This, based on an estimated birth list of 3.300, would leave us with an infant mortality rate of 136 per thousand births.

The Department has suffered the loss of two efficient officials during the year, who resigned to take up duty with the Canadian Military forms—Dr. R. P. Hardman, Medical Superintendent of the Isolation Hospital, and Mr. Joseph Race, City Bacteriologist.

Thanks are tendered for the active and helpful interest shown by the Members of the

Board in the welfare and advancement of the Health Department.

The various tables are appended herewith.

# Yours truly.

ROBT. LAW. M.D.,

Acting Medical Officer of Health.

The estimated population for 1918	104,007
Total number of births for 1918	3.016
Total number of births for 1917	2.449
Birth rate for 191829.00 p	
Birth rate for 1917	
Birth rate for 1916	er 1,000
Birth rate for 1915	er 1,000
Birth rate for 1914	er 1,000
Birth rate for 1913	er 1,000
Total deaths for 1918	2,363
Stillbirths for 1918	
Deaths of non-residents	313
Corrected death rate for 191818.16 p	er 1.000
Corrected death rate for 1917	
Corrected death rate for 1916	
Corrected death rate for 191514.31 p	er 1,000
Corrected death rate for 1914	er 1,000
Corrected death rate for 191315.28 p	er 1,000

COMMUNICABLE DISEASES REPORTED FOR 1918. ALSO NUMBER OF DEATHS.

	1917.				1918.										
Diseases.		Devember.	.hannary.	February.	March.	April.	May.	Jame.	July.	August.	September.	October.	Total.	Deaths.	
Tuberculosis (Pulmonary). Typhoid Fever Scarlet Fever Diphtheria Smallpox Measles German Measles Chickenpox Mumps Whooping Cough Erysipelas Poliomyel't's Cerebro-spinal Meningitis Influenza Pneumonia	1 53 41  1 22	6 2 55 34  8 2  1	6 2 129 34  3  12 3 12 1	13 4 99 28 5 5 28 11 39 2 1 3	9 2 63 30 6 5 17 12 4 15 1	21 1 58 36 1 13 30 6 12 9 1	22 3 71 38  12 22 9 28 37 1	21 2 27 21  16 10 12 24 21 1 	12 6 8 31  6 5 3 11 35  2	26 8 12 18  1  3 4 21 	20 8 7 38 7 1  2 1 9	14 10 17 1 1 1  2 2	185 39 592 366 15 31 90 119 100 199 8 2	129 6 7 34  1 12 2 2 10 206 413	

# DEATHS FROM TUBERCULOSIS BY WARDS FOR 1918.

Ward.	Pulmonary.	Other Forms.	Tota.
Rideau	8	2	10
Ottawa	24	3	27
By	18	2	20
St. George's	16	1 3	19
Central	Š	ĭ	19
Wellington	19	5	11
Dalhousie	16	<u> </u>	91
Viotonia	10	1	11
Victoria	10	1	11
Capital	1.5	4	1.)
Outside Cases	4	• • • • • • • • • • • • • • • • • • • •	9
Totals	129	29	158

# DEATHS FOR 1918 BY WARDS.

***	Popula-	19	17.		1918.										
Wards.	tion.	Nov.	Dec	Jan.	Feb.	Mar	Apl.	May	June	July	Aug.	Sept.	Θet.	Total-	
Rideau Ottawa By St. George's Central Wellington Dalhousie Capital Victoria Outside	3,635 9,953 8,212 13,757 12,911 13,965 19,145 15,496 6,933	5 7 12 10 8 14 22 13 7 6	7 17 12 17 10 19 28 12 8 17	3 20 15 15 15 25 28 19 4 13	5 15 12 8 12 22 28 12 11 18	4 23 14 18 13 22 33 12 10 23	6 22 19 15 9 19 36 19 6 15	18 19 22 12 17 23 19 7 28	5 20 13 11 11 15 21 19 9	7 29 16 12 13 10 21 5 13 31	4 18 14 15 13 14 36 22 16 21	9 20 13 15 20 17 31 14 13 24	20 94 54 53 55 63 117 58 44 93	79 303 213 211 191 257 424 224 148 313	
Grand Totals	104,007	104	147	157	143	172	166	169	148	157	173	176	651	2,363	

The death rate in Ottawa Ward is unduly augmented owing to the large institutions there, notably the one for aged people.

# DEATHS BY NATIONALITY.

Austrians 11	Italians 12
Americans 30	Manxman 1
Assyrians 3	Newfoundlander 1
Canadians 2,046	Norwegian 1
Chinese 2	New Zealander 1
Danes 2	Parisians 4
English 98	Russians
Greeks 2	Scotch 45
Germans 8	Swiss 1
Irish 83	West Indian 1
	Totals

Of the above 1,207 are males and 1,156 females.

# DEATHS IN THE DIFFERENT INSTITUTIONS IN THE CITY FOR 1918.

Ottawa Maternity Hospital
Salvation Army Rescue Home
County Carleton Protestant General Hospital
ady Grey Hospital
St. Luke's General Hospital
Vater Street General Hospital
disericordia Hospital
disericordia Infants' Home
St. Patrick's Home
St. Charles' Home

# DEATHS BY AGES ACCORDING TO MONTHS.

	19	17.						1918.					
Age.	Nov.	Dec.	Jan.	Feb.		Apr.	May	June	July	Aug.	Sept.	Oct.	Total.
Under 6 months . 6 months to I year 1 to 2 years 2 to 5 '' 5 to 10 '' 15 to 20 '' 20 to 25 '' 25 to 30 '' 30 to 35 '' 35 to 40 '' 45 to 50 '' 55 to 60 '' 65 to 70 '' 70 to 75 '' 75 to 80 '' 80 to 90 ''	14 1 6 3 3 2 4 4 3 6 4 1 15 2 4 7 4 7	22 67 21 34 24 77 39 39 78 11 14	33 6 6 7 3 1 1 5 1 0 3 4 4 5 5 4 4 5 9 6 9 9 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	33 57 1 3 5 4 2 9 7 4 5 4 9 3 6 6 5 12 11 1	27 11 5 5 2 1 6 8 8 3 2 6 7 4 6 11 9 10 13 6 14 3	23 9 9 8 5 4 4 4 10 11 2 14 6 6 3 7 7 7	33 5 11 5 5 5 2 5 8 3 7 3 2 3 9 12 4 14 8 12 11 14 14 14 14 14 14 14 14 14 14 14 14	31 63 4 4 2 3 4 6 8 5 5 6 6 8 2 4 9 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	40 t 15 8 3 4 21 7 6 6 7 3 5 4 4 4 4 6 6 7 5 7	35 30 13 2 4 2 3 5 1 9 3 5 5 5 4 4 6 7 7 6 1	34 18 5 4 6 9 5 7 6 6 7 5 1 9 5 7 1 9 6 7 7 1 9 6 7 7 1 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1	48 16 29 39 24 25 44 76 112 74 29 24 19 18 14 10 9 10 8 9	373 124 102 91 63 566 84 140 164 139 87 85 52 76 94 75 82 105 95
Totals	92	132	152	136	159	151	157	132	144	157	168	631	2,211
Stillbirths	12	15	5	7	13	<b>9</b> 15	12	16	13	16	8	20	152
$\operatorname{Grand}\operatorname{Totals}$	104	147	157	143	172	166	169	148	157	173	176	651	2,363

Ward.	Population.	Total Death Rate per 1,000.	Deaths from Pulmonary Tuberculosis per 1,000.	Deaths under One Year per 1,000 Births.
Rideau Ottawa By St. George's Central Wellington Dalhousie Capital Victoria	3,635 9,953 8,212 13,757 12,911 13,965 19,145 15,496 6,923	19.8 28.8 23.9 14.04 13.9 16.9 20.6 13.03 19.48	2.75 2.71 2.43 1.37 0.93 1.0 1.14 0.96 1.70	204 145 146 139 145 149 144 117

VITAL STATISTICS FROM NOVEMBER 1ST, 1917, TO OCTOBER 31ST, 1918.

												1	
	19	17.					19	18.					
Disease.	November.	December.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October,	Totals.
Typhoid fever		1					1		2	1	1		6
Scarlet fever		1		1		2			;		1		7
Whooping cough		1 5		$\frac{2}{1}$	2	1	$\frac{\cdots}{2}$	$\frac{1}{2}$	1 3	2	1 5	4	$\frac{12}{34}$
Diphtheria			3		2	4	í		1		1	200	206
Erysipelas						1	i					300	2
Chicken-pox									1				1
Septicæmia		1	1		2	1	3	3	1	1	1		16
Tetanus						• • • •		• : : :	· · <u>·</u> ·	1	.::-		1
Tuberculosis of the lungs			15	10	10	13		12	7	8	11	17	$\frac{129}{2}$
Acute miliary tuberculosis								 1	1		1	i	6
Tuberculous meningitis Hæmorrhage													i
Abdominal tuberculosis					$\dot{2}$					1		1	12
Pott's disease							,						1
Tuberculosis of hip joint													1
Tuberculosis of the kidney									• • • •		• • • •		1 1
Disseminated tuberculosis						• • • •	1					1	3
Tuberculosis of the spine	• • • • •	1	1	$\frac{2}{1}$		• • • •	1	1			i		6
Rickets	2	3	3	7			$\dot{2}$	3		4	3		27
Cancer of buccal cavity	2			1	1			2			2	1	9
Cancer of stomach and liver.	3	3		1	3	1	2	2	. 3	4	2	1	28
Cancer of the bladder				1								1	2
Cancer of peritonæum, intes-						1	1	2	1	1	1	2	16
tines and rectum Cancer of the uterus		····	• • • •			1	1			1	1	ا ا	
Cancer of the breast									$\frac{\cdot \cdot \cdot}{2}$	1	1		2 5
Cancer of the skin							1	1	1				3
Cancer of other or unspeci-													
fied organs			2				1	1	1		2	1	11
Cancer of œsophagus				• • • •		;.	• • • •						7
Acute articular rheumatism Diabetes			$\frac{2}{2}$	····		1	2			1	3	9	17
Exophthalmic goitre			ī				1 -	1	1	1	1	1	7
Addison's disease					1		1						2
Leuchæmia			1										
Pernicious anemia			2		1	1	1	3		1	1		13 1
Pulmonary hæmorrhage									1				1
Purpura hæmorrhagica, etc Hæmothelia						1			• • • •				
Chronic or acute alcoholism.													2 2 2
Meningitis					2	2							2
Cerebro-spinal fever or Epi-													10
demic meningitis				2	2	2			2	1	1	• • • •	10
Simple meningitis	1					• • • •	1		1	1			3
Locomotor ataxia Paralysis agitans									1	1			2
Primary lateral sclerosis of										1			
the spinal cord					2				1				3
Myelitis									1				1
Cerebral hæmorrhage, Apop-		_			_						1	-	43
Corobrel embelus		5		3	5	8				2	1	5 1	1
Cerebral embolus Paralysis without specified								• • • •				1	
cause		1	2								1		4
Other forms of mental alien-											1		4
ation				1									1 3
Epilepsy		٠	1							2		[	9

VITAL STATISTICS FROM NOVEMBER 1ST, 1917, TO OCTOBER 31ST, 1918,-Con.

	19	17.					19	18.					
Disease.	November.	December.	January.	February.	March.	April.	May.	Jume.	July.	August.	September.	October.	Totals,
Convulsions (non-puerperal) Convulsions of infants Chorea Pericarditis Acute endocarditis Chronic Endocarditis Myocarditis Angina pectoris Disease of the arteries Aneurysm Arterio-sclerosis	···· 2 ··· 1 4 ··· 1	1 2 7	1 5 6	 3 3 	3 4	1 1 5 3	2 1 9	 ₂			1 1 1 1 6 	1 1 1 1 6  2	2 16 2 2 15 26 59 4 1
Hæmorrhagica, other diseases of the circulatory system. Disease of the laryex. Acute bronchitis. Chronic Bronchitis. Broncho-pneumonia. Pneumonia. Pneumonia. Pleurisy. Gangrene or abscess of lung. Empyema. Asthma. Pulmonary abscess. Otitis media. Ulcer of the stomach. Diarrhœa and Enteritis un-	1 2 5 	1 8 	1 1 8 10	6 13 1  2	 2  16 2 	4 7 26 2 1	5 13	3 10 	1 2 1 	 2 8		278 1	2 1 10 3 43 413 5 1 1 1 1
der two years Diarrhœa and Enteritis Intestinal perforation Appendicitis and Typhlitis. Hernia, Intestinal obstruction Hydatid tumour of liver Cirrhosis of the liver Abscess of the liver Biliary calculi	2  1 1 	1 2 	1  2 1	1 	1		1	3 1  1 1 		11 2 1 3 	30  3  1	7 1  8 2	129 8 1 24 12 3 4 1
Simple peritonitis (non-puer- peral)	1 2 1 	2 1 	1 1 	• • • •		1 1 	2 			1 3 2 	3 1 	1 4 2	17 44 23 1 1
Salpingitis and other diseases of the ovary.  Tubal pregnancy Ectopic gestation Puerperal hæmorrhage Rupture of uterus in labour etc.  Difficult labour.				1 		····· 1			<u>.</u> .		1 1	i	1 2 1 3
Puerperal septicæmia Puerperal albuminuria and convulsions Osteomyelitis Congenital malformation Congenital hydrocephalus Congenital malformation of the heart	····· 2	····· ···· 1		1	1	1 1		1  1 	1	1  2 1		1 2 	6 1 1 1 1 7

VITAL STATISTICS FROM NOVEMBER 1ST, 1917, TO OCTOBER 31ST, 1918.—Con.

	191	17.					191	18.					
Disease.	November.	December.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	rotals.
Spina bifida Congenital debility Premature birth Marasmus Difficult delivery Actleetasis Injury by forceps at birth, etc. Dystocia		5 2 4 	$\begin{array}{c} 1\\7\\7\\6\\\cdots\\ \end{array}$	11 5 3 1	1 9 8 	2 4 4 6 	14 9 2	1 12 9 1 	10 7 11	8 5 5 	10 2 8 	1 12 8 9	6 103 71 57 1 3 3
Senility	9		24	28	31	15	29	23	18	17	24	24 1	27 ¹ / ₁ 1
Suicide by drowning Suicide by firearms	i		1				2 	2	1			1	1 2 4 6 3
gases	1					i		 1 	1		• • • • •	1	1 1 2
Traumatism by fall	1					1	2 	1	1	1  1 2	1	1 1 1 1	$\begin{array}{c} 1 \\ 23 \\ 1 \\ 5 \\ 3 \\ 1 \end{array}$
cepted) Homicide, by cutting or piercing instruments Shock Cause not known		• • • • • • • • • • • • • • • • • • • •	 2 1	1  2			• • • • •	1		2 	• • • • •		3 1 3 3
Totals	92	132	152	136	150	151	157	132	144	157	168	631	2,211
Still-births	12	15	5	7	13	15	12	16	13	16	8	20	152
Total	104	147	157	143	172	166	169	148	157	173	176	651	2,363

#### PETERBOROUGH.

Gentlemen.—I beg leave to submit my annual report for the year ending November 30th, 1918.

There were 355 deaths and 449 births during the past twelve months.

We had 49 deaths from the following communicable diseases:—

Influenza, with its complications	31	Mumps	0
Scarlet fever	1	Whooping Cough	0
Diphtheria	0	Typhoid fever	2
Measles	0	Tuberculosis	15

The following communicable diseases were reported:-

Diphtheria (2 negative)	5	Whooping cough	6
Scarlet fever	27	Chicken pox	3
Mumps	2	Tuberculosis	1
Measles	38	Typhoid fever	7

We have just passed through a very trying time. A "plague" that has swept over the whole world, and the most fatal on record, has been with us. It has been our good fortune to have escaped, so far, its terrors, with very few deaths as compared with other centres.

The credit for the above I take not to myself, but I beg leave at this opportune time to give thanks,—thanks not only for our escape, but also for the general public co-operation and appreciation of my efforts.

I do not consider it necessary for me to speak of the sanitary conditions of our city; our Sanitary Inspector, Mr. Stapleton, will no doubt tell you of his excellent work

during the year. A nice, clean city and all his branches working in harmony.

Along these lines I would like to see the garbage area extended, a new arrangement made whereby the market square and the rears of the different offices and stores that back on same, could be kept in a more sanitary condition. It is covered at all times with straw, dust and dirt and all sorts of rubbish. The dirt and dust is blown in and out of every nook and corner of the square until eventually somebody carries it away in their food or on their person.

It is customary to end up these reports with a few recommendations for improvements that are in the interests of the public health.

1. No second-hand books for the children in our schools.

2. A passable approach at all times of the year to the Isolation Hospital.

3. A free Isolation Hospital, i.e. as I said last year, a hospital that is a boon and benefit to every citizen, sick or well, should be free, and with a free hospital would give better co-operation, fewer communicable diseases and all the benefits that the inhabitants of a municipality can derive from same.

Thanking you, gentlemen, for your able support and congratulating you on the harmonious and business-like attitude of the members of the Board during the past

year, I am,

Your obedient servant,

C. HEWITT AMYS.

Dear Sir.—I beg to submit my second report for your consideration.

I am pleased to report a decided improvement re scavenger and garbage complaints, there being 33 per cent. of scavenger complaints and 50 per cent. garbage complaints less this year than last. I find in my visits people generally are willing to comply with the by-laws of the city. Of course, there are a few who give me a great deal of trouble.

Some citizens do not provide proper receptacles for garbage. Old boxes, which a number of people use, without covers are a great nuisance. Dogs and hens get in boxes and pull them over so that garbage is strewed around on the ground which the garbage men refuse to pick up.

The following list of complaints will give you some idea of the work being done by the Sanitary Inspector:—

Scavenger complaints	437
Garbage complaints	268
Scarlet fever cases	27
Measles cases	38
Diphtheria cases	5
Inspection of houses, cellars and yards	366
Inspection of lanes	36

Inspection of stables	67
Dead animals	12
Cesspools	12
	7
Houses disinfected	4
	25
	20
	6
	45
Inspected all laundries.	
Inspected all eating houses.	
Inspected all bakeries,	
Inspected 7 factories.	
Granted 45 new milk yendors' licenses.	
Milk tests average, April	. 0
	. 3
	.5
	. 0
Inspected all fruit and fish stores.	
Notices served on all public places during the epidemic of influenza.	

I would like to express my appreciation of the assistance given by Mr. F. W. Miller, Relief Officer, both in the office and in investigating complaints.

All of which is respectfully submitted.

C. S. Stapleton, Sanitary Inspector, City of Peterborough.

#### PORT ARTHUR.

DEAR SIR.—I have the honour to present my report for the year 1918.

The health of the city has been generally good, although early in the year we had a considerable outbreak of mumps among school children. All through the year we have had a few cases of scarlet fever. During the summer months, especially from April to July, we had a number of cases of whooping cough. The death rate, in spite of the epidemic of influenza which has been sweeping over the country, is lower than last year.

Last year there were 237 deaths from all causes. This year 176, which includes 39 stillborns. For several years I have drawn attention to the number of deaths among children, coming under the head of still births. This means that these children are dead at birth or within a few hours of birth. Out of 76 deaths among children up to two years of age for this year, 39 were reported as stillborn, being 2 more than the number which died from all other causes. In 1917 there were 53 still births and 43 under two years of age. In 1916 there were 39 still births and 51 under two years of age, who died from other causes. Making a total for the three years of 262 deaths among children under two years of age, of which number 131, or 50 per cent. died at birth or before. This is an alarming and startling fact. It shows that something is wrong—either ignorance in the handling of these cases or criminal negligence on the part of some one. We are startled when an epidemic like Spanish influenza strikes our town and there are 26 or 27 deaths recorded; every person is up in arms to fight the disease. If we had a dozen deaths from smallpox, scarlet fever or any other contagious disease, the whole community would be completely stirred. Yet year after year there is a tremendous death rate among children, to which no attention is being paid, although, as I say, I have referred to the matter different times. I think it is our duty to bring this matter before the proper authorities, for an investigation, and I am going to ask your Board to pass a resolution to-day asking the Provincial Board of Health to hold an investigation into this matter. I may state that under the head of stillborn is included premature births.

#### Contagious Diseases.

# Scarlet Fever.

Dearte Item.		
Year.	Cas	es. Deaths.
1915	62	2 0
1916		0
1917	8	0
1918	60	3

	Diphtheria.		ъ
Year.	*	Cases.	Deaths.
1915		3	0
1916		4	0
1917		5	0
1918		16	1
	Measles.		
Year.		Cases.	Deaths.
1915		6	0
1916		64	0
1917		318	0
1918		6	0
	Whooping Cough.		
Year.		Cases.	Deaths.
1915		6	0
1916		44	2
1917		6	2 2 3
1918		58	3
	Infantile Paralysis.		
Year.		Cases.	Deaths.
1915		0	0
1916		2	1
1917		0	0
1918		0	0
	Tuphoid Fever.		
Year.	- 3 2	Cases.	Deaths.
1915		13	1
1916		11	3
1917		2	1
1918		5	i
	ng from outside points.	• • • • • • • • • • • • • • • • • • • •	1
	Mumps.		
Year.		Cases.	Deaths.
1918		93	0
1010			v

#### Spanish Influenza.

To November 25th there were reported 550 cases with 25 deaths. Fifteen of these deaths were among patients who were brought in from outside points.

#### ISOLATION HOSPITAL.

Altogether we have treated 94 patients in the Isolation Hospital; 66 of scarlet fever, 16 diphtheria, 7 mumps, 4 suspects, and 1 measles, the total number of nursing days being 2.615 at a cost per day of \$2.84.

#### BIRTHS.

1916	 512
1917	 539
1918	 538

We have had a smaller number of charity patients this year, as there has been such a demand for labor that every person able to work has been busy if they wished it. During the recent epidemic of influenza, when the bread winner as well as the whole tamily has been laid up, we have been called upon to give assistance. In regard to this I wish to draw attention to the splendid work which has been done by a number of the citizens who have rendered assistance as volunteer nurses, both for private homes and to help out in the hospitals. Others have given help to prepare broths and nourishing food for those suffering from the disease. While others have helped to prepare pneumonia jackets, and other supplies needed by the hospitals. Several owners of automobiles very kindly gave their cars and their time to carry food and supplies to homes where it was needed. I intend through the Press to have the names of those who assisted published.

On account of the death last summer of Chief Nichols, who for a number of years was our Sanitary Inspector, I had considerably more work, having to perform his duties along with my own until a new inspector was appointed. The Council appointed Mr. Alfred Hayes, a returned soldier. I am very pleased to be able to say that Mr. Hayes has shown great energy and care in the performance of his duties.

With the Inspector I visited and inspected boarding houses, hotels, bunk houses, restaurants, butcher shops, bake shops, fruit stores, Current River Park, the dry dock, and elevators. We inspected the lanes and a large number of the yards. We made a house to house inspection in the Coal Dock Section, where we found some yards in splendid condition, the owners having put them into gardens raising very heavy crops of vegetables. A number of the yards were rather dirty and we had to order a general clean up. I am glad to be able to say that that part of the city will now compare favourably with any other part of the city as regards cleanliness. I have visited a number of dairies, having Doctor George, the District Officer of Health, with me on one inspection. He expressed himself as well pleased with the condition of affairs. We examined a large number of samples of milk taken from the rigs by the inspector. Generally the milk is good, but I do not think it will ever be satisfactory under the present mode of handling. I think that all milk coming to the city should pass through a city dairy where it will be examined and bottled before being handed out to the customers. Possibly this is a little in advance for a city of this size, but I think it would be the only satisfactory method of handling milk. At present the milk supply is so decidedly short of the required amount that it is almost impossible to say anything.

#### SCHOOL INSPECTIONS.

Our school nurse, Miss Jones, has been kept busy during the year. She visits the schools daily, examines pupils sent to her by the teachers, and visits the homes of absentees to find the reasons for their absence. In this manner we are able to keep a very careful supervision of the pupils and to detect and prevent contagious diseases being carried into the schools. The nurse reports to my office daily, so I am able to keep in close touch with the school work. Where there is any doubt in the diagnosis of a case she reports it to me; then I make a personal inspection. The school nurse has been of the greatest value to the city and has helped us to control the spread of disease and without doubt has prevented a number of cases which otherwise might have occurred, and doubtless saved a number of lives. Miss Jones also rendered valuable assistance during the epidemic of Spanish influenza.

l also wish to refer to the work done by Mrs. Flanagan, our matron at the Isolation Hospital. She has had a large number of patients under her care and has given them the greatest attention. The hospital is always clean and well kept.

C. N. LAURIE.

333 89 179 35

2,200 00

#### FINANCIAL STATEMENT BOARD OF HEALTH

PINANCIAL STATEMENT DUARD OF TEMATH,		
Team expense account	\$149	06
Ambulance	18	0.0
Drug supplies	2	65
Public utilities (tickets, light, phone, gas)	149	06
Printing and stationery	71	96
Labor	4	40
Wreath (Chief Nichols)	10	0.0
Telegrams	2	66
Pay roll	5.206	04
Total	85,613	23
ISOLATION HOSPITAL.		
Board account	\$2,927	04
Public utilities (light, telephone, tickets)	52	06
Drug supplies	179	72
Fuel	440	01
Extra nursing	126	0.0
Ice	88	65

Repairs.....

Supplies.....Pay roll

12 B.H.

2.615 nursing days, cost per day, \$2.84; patients for year, 94; cost per patient, \$68.36; expenditure for 1917 was ...... \$11,821 04

Total expenditure .......\$12,040 55

I have the honour to be, Sir,

Your obedient servant,

C. N. LAURIE.

Medical Officer of Health.

#### SARNIA.

GENTLEMEN.—I beg to submit to you the following report for the year 1918:

There were twenty-one meetings of the Board held during the year, the outbreak of smallpox in the winter of 1917-18 and of Spanish influenza in the fall of 1918 requiring frequent meetings. The information required by the Provincial Board with regard to cases of communicable disease has been forwarded weekly, except the cases of Spanish influenza, which is not entered on the official form as a communicable disease. Of that disease there were reported to the Sanitary Inspector, and through him to the Secretary, two thousand two hundred and fifty-nine cases (2,259).

The Board during the year purchased a machine for disinfecting small articles, and

a milk tester, both of which have given good satisfaction.

Expenditure on account of outbreak of Smallnor-

The sanitary conditions of the city are on the whole good, the main exception being that part south of the Tunnel Cut, where a system of sewerage is much needed. This matter has been brought before the Municipal Council by the Board of Health, but financial conditions have so far prevented action. The City engineer, in his recommendations for 1919 work, has included a very complete sewer system for that part of the city.

I remain, Gentlemen,

Your obedient servant,

J. D. STEWART.

Secretary.

Summary of Expenditure of the Local Board of Health for the Year 1918, as shown by the City Treasurer's Ledger.

- Ехрепаниге оп ассоинь ој ошногеак ој \$manpor		
Medical attendance	\$882 00	
Groceries, board, etc	553 89	
Fuel	54 16	
Medical supplies	117 05	
• •	37 00	
Labour		
Cartage and livery hire	51 - 50	
Apparatus and furnishings	68 19	
Rent	15 - 00	
Salary (extra to Inspector Crosbie)	50 00	
Total Smallpox expenditure		\$1,828 79
General Expenditure—		
Syringes	\$17 65	
Plumbing (Inspector's office)	41 88	
Repairs to apparatus	18 30	
Apparatus	17 95	
Boxes for water samples	14 64	
•		
Express, telegraph and telephone charges	38 92	
Salaries and pay-sheets	1,581 92	
Printing, advertising and stationery	126 58	
Hardware supplies	4 15	
Cartage and livery hire	9 25	
Clothing	60 50	
Civiling	30 50	

Medical supplies \$28	58	
Transportation	55	
Rent	00	
Miscellaneous	25	
Total general expenditure	\$2,0	
Total		

5. D. Stewart Secretary

GENTLEMEN.—I have the honour to submit to you the report of the sanitary conditions of the City of Sarnia for the year ending December 31st. 1918. 'There have been reported to the Health Department, 46 cases of scarlet fever, 11 cases of diphtheria. 16 cases of typhoid fever, 86 cases of measles. 45 cases of smallpox, 6 cases of tuberculosis, 2,068 cases of Spanish influenza. In all cases where fumigation was required, it was done by Mr. A. Crosbie. Sanitary Inspector, and instructions were given to the heads of homes re proper cleansing, etc.

The methods adopted by the Board in regard to the quarantining are as follows:

As soon as the attending physician decides he has a communicable disease he reports the same to the Health Department and the Sanitary Inspector immediately puts up a card on the house and issues a card with printed instructions for the guidance of the inmates of the home. As soon as the regular quarantine has passed, provided no additional cases develop in the home, he fumigates the premises, removes the card, and notifies the Medical Officer of Health, who issues certificates to the children of school age so that they may resume their school work. In case of smallpox, the home is quarantined and all the inmates are vaccinated, and the case or cases that have developed smallpox are isolated and attended for treatment by the Medical Officer of Health. During the early part of the year we were visited by an epidemic of smallpox. Two of the clerks of the post-office staff contracted smallpox. This necessitated drastic action, and the Board ordered the post-office closed, and all office employees were compelled to be vaccinated and quarantined at their homes for twelve days. A temporary post-office was opened on Front Street and equipped with a staff of employees from outside offices, and all the mail matter and building was thoroughly fumigated and the building scrubbed.

Ever since I can remember, the Board of Education passed a resolution compelling all school children before being admitted to school to be successfully vaccinated, and a certificate to that effect from their family physician should be taken to their respective teachers, and I am happy to say that this precaution has no doubt saved many from

contracting the loathsome disease.

#### SPANISH INFLUENZA.

During the latter part of the year we were visited by a continental epidemic of Spanish influenza, which made its appearance about the 1st part of October. The Board of Health issued a proclamation through the Mayor of the city, compelling all schools of learning, churches, theatres, pool rooms, and dance halls closed indefinitely, and I prepared a pamphlet advising the citizens:

What to do to prevent influenza.
 What to do if you contract influenza.

The Board instructed me to have printed several thousand of these Golden Rules, and these were distributed voluntarily in every home by members of the S.O.S and I.O.D.E.

I am of the opinion that these suggestions to our citizens were the means of saving many lives. Fortunately our deathrate was considerably less than most of the places our size in population. I am pleased to state that at the present time the epidemic has also abated. The physicians of the city complied with our request to notify the Sanitary Inspector daily of the number of new cases for the preceding day, and by this means we were enabled to keep in touch with the spread of the epidemic. Whilst 2,068 cases were reported, we feel that many cases were not reported, and that many of these cases known as carriers were the means of its spread to others with whom they came in contact. The Provincial Board of Health provided a few packages of influenza vaccine, and these packages were distributed equally among the physicians of the city, and I am of the opinion that where the vaccine was used it worked wonders in preventing them from contracting the disease.

The public owes a great debt of gratitude to Miss Barrie, the S.O.S., and I.O.D.E., who did such splendid work in combating this disease. They were entrusted with the

distribution of literature of Golden Rules, as well as furnishing many families with nurses, and the work was well done. In several homes every member of the family was ill. It is no trifling matter for a young lady to offer her services as cook, house maid and nurse to a family affected with a disease so dangerous.

#### MEASLES AND SCARLET FEVER.

Measles and scarlet fever have been reported and the homes quarantined, but there are many cases that are not reported to the Health Board, as parents very strenuously object to being quarantined, and this causes a great deal of friction among neighbours where these diseases exist, viz.: one home is quarantined and inmates prevented from intermingling with their friends, while others try to conceal their cases from the Board by not calling in a physician, and the inmates of that home are allowed to follow their usual avocations. School rooms where any communicable disease has been known to have existed, are dismissed and the same fumigated by the Sanitary Inspector.

#### DIPHTHERIA.

We have been very fortunate in having only 11 cases of diphtheria and no deaths, and I am confident that the splendid efforts of the Provincial Board of Health will be appreciated fully by the medical profession throughout Ontario; and as long as free antitoxin is distributed by that body, the physicians have no excuse in not giving antitoxin to a'l those who may be suffering from symptoms of this disease, for it has been demonstrated that antitoxin administered early and in large doses is the only slogan in the hendling of diphtheria.

We should have a laboratory of our own, with an expert bacteriologist, and every throat where there is a suspected case should be swabbed and examined in the laboratory, for otherwise we have to get the swab and send it to London and wait for hours for a diagnosis.

#### VENEREAL DISEASES.

During the last session of the Local Legislature, they passed an Act known as "Venereal Diseases Prevention Act," and this Act came into force after the passing of the same.

Notification and literature and forms were forwarded to our Sanitary Inspector and myself, and after drawing the attention of the members of the Board to the Act, it was resolved to wait and see what other places were doing. About the 1st part of October I issued notices for a meeting and invited members of the Board of Health, the physicians and dentists of the city, and heads of all institutions who were concerned in the enforcement of the Act. At this meeting, which was held in the police court room, about 13 out of 30 invitations attended, and I explained to those present "The Venereal Diseases Prevention Act." and for a few weeks some of the physicians reported their cases coming under their care, but sorry to say no reports have been handed to me for some time. The 'ct is for the public welfare, but I cannot see, with the machinery we have, how it is going to be enforced.

#### MILK SUPPLY.

No food is so useful for developing a sturdy race, and no food is so dangerous to human life. Our milk comes from many sources and is handled by many before it reaches the child. Our milk supply is distributed to our homes by (1) The Dairyman, who either gets his supply from his own herd of cows or by purchasing his milk supply from some neighbouring farmers. (2) The City Creamery. The Dairyman distributes his milk to his customers in bottles and from the bulk can, whilst the Creamery obtains their supply from the farmers, and before it is distributed the milk goes through the process of pasteurization and is then bottled and sealed and distributed in the early morning hours whilst the weather is cool.

Our Sanitary Inspector, through the courtesy of the Board, obtained a milk sediment tester during the year, and he has tested the milk vendors' milk at different times, and whilst the fat test stood out pretty well in most of the samples, the sediment test was not found to be very satisfactory.

There is another kind of milk known as "Certified Milk," which is obtained from the dairyman who has a herd of cows which are examined regularly at intervals by a skilled veterinary surgeon for tuberculosis, and any cow not conforming to the test is rejected from the herd, and all milk supplied is placed in sterile bottles and sealed and labelled "Certified Milk." Unfortunately we have no such milk delivered in the city.

I would recommend that a veterinary surgeon be appointed and that he visit those who supply milk to the dairymen and creamery twice a year and report on the health of the cows and condition of the stables, and that on the strength of these reports permits be issued to those disposing of their milk in this way.

In my opinion all milk should be pasteurized before it is allowed to be distributed

to the homes in this city.

#### GARRAGE.

Our collection and disposal of garbage is not yet what it should be. Many citizens complain of the garbage being placed on the streets without proper receptacles, and this might be improved

(1) By systematic educational canvass.

(2) By distribution of leaflets of personal instruction.

The garbage collectors have for some years past removed the garbage to the dump outside the city limits just east of the old fair grounds, but as the Township of Sarnia Board of Health proclaimed this dump a nuisance, the city has been slow in carrying out the decision of Chief Justice Mulock when the case came before the courts. An incinerator has been spoken of, and we earnestly hope this question will be dealt with in the near future, and then we will have a proper place to dispose of the garbage without further complaints.

#### SCHOOL NURSE.

The Board of Education, in conjunction with the Council of Women, has for some years employed a Social District Nurse, Miss Barrie, who calls at the various schools and Collegiate Institute and makes out a physical record and history of each pupil, recommendations to parents regarding physical defects of the child. Examinations are made as soon as practicable after the child's admission to school, consisting of examination of vision, hearing, tonsils, adenoids, teeth, cervical glands, skin of face, neck, hands and scalp, the presence of vaccination scars, recognition of any nervous disorders, and general appearance of the pupil. These disorders are reported by the nurse to the parents, and they are advised to consult their family physician regarding the same and advised to have said defects attended to. Decayed teeth, enlarged tonsils and adenoids are attributed as causes of rheumatism, neuritis, anemia and many other disorders of the human system.

#### ISOLATION HOSPITAL,

We are still without a suitable isolation hospital for contagious diseases. Every time we have a severe epidemic the question of an isolation hospital comes up before the Local Board of Health, and some action is taken, but as soon as the epidemic is over, nothing more is heard of it until the next epidemic. It behooves the authorities to get busy and secure a suitable piece of ground and erect a building of sufficient capacity for the future treatment of all our contagious diseases. During the four years of war our citizens have given generously of their money to alleviate the sufferings of our fallen men, and now that the war is over, I trust that the powers that be will erect an up-to-date isolation hospital.

# WATER SUPPLY.

Ever since the great epidemic of typhoid fever, our water supply has been a hindrance to the growth of the city of Sarnia. To improve the conditions, the intake pipe was extended out to the river channel. Chlorination has been resorted to, and lately a very complete plant has been installed, and we have with this system been able to supply water which has been regularly sent to the Laboratory weekly, by the Sanitary Inspector, and found to be practically free from Coli Bacilli. However, our citizens at the last municipal elections ratified the spending of \$55,000.00 to secure absolutely pure water to our basins at the new pumping station, and we earnestly hope that the coming experiment will secure to our city the purest water that can be secured anywhere in Canada.

#### SEWERAGE.

The question of sewage disposal is becoming more and more an important question. Whilst our city is fairly covered with sewers, there remain about 211 closets which have to be attended to during the year. It may be that these cases have no sewer on

their streets. Some two years ago the Local Board ordered sewers to be built in that portion of the city south of the tunnel cut, and was endorsed by the Provincial Board of Health, but up to this time no action has been taken, and I would recommend that sewers be placed in that section of the town and connect with the outlet on Christina Street South. Our present outlet of all our sewers is into the River St. Clair, and as the International Waterways Commission has ordered this system to be stopped, itwill be necessary for this Board to give this matter careful attention and investigation.

#### DEATHS AND BIRTHS.

During 1918 there have been registered 260 deaths, and the death rate per thousand

of population has been 21.66.

The total rate for the last three months was 94, and 43 of these were due to influ enza and complications, so that if these were deducted from the total death rate, it would reduce the death rate per thousand to 18. There are usually a number of deaths at the hospital amongst those who come to our hospital from outside places for treatment, and these deaths are charged against this city in making out our statistics.

Influenza deaths numbered 43 for the last three months of 1918, being at the rate

of 3.5 per 1,000 of the population, and being lower than many places of our size.

The births for 1918 were 292, being 24.33 per 1,000 of population, and it is among children from birth to 4 or 5 years of age that we have our greatest percentage of deaths.

#### RECOMMENDATIONS FOR THE YEAR 1919.

1. That steps be taken to have a suitable place for the care of all communicable diseases.

2. That a sewer be constructed in the South Ward below the tunnel cut.

3. That a Veterinary Surgeon be employed to inspect all cows and barns where milk or cream is being supplied to our citizens or creamery, and that permits be granted to only those who comply with veterinary endorsement. That he examine regularly all slaughter-houses, and see that they comply with the health regulations.

4. That the Board should investigate and see if it is not possible to have all milk

supplied to our citizens pasteurized.

5. We expect to see our Waterworks System completed and our city supplied with an abundance of pure, fresh water.

6. We expect to see our Incinerator built and in operation, so that all our garbage

will be disposed of in a sanitary manner.

7. We would like to see our City Council Board of Works employ "white wings" and clean our principal streets daily.

All of which is respectfully submitted.

WM Logie, M.D., Medical Officer of Health

#### STRATFORD.

To the Chairman and Members of the Local Board of Health.

Gentlemen.—I have the honour of again presenting to you the annual report of, the health of the city, during the past year. In doing so there is a certain amount of pleasure, but commingled therewith is a degree of sadness.

It is a pleasure to note that we have been comparatively free from the so-called preventable diseases, no deaths being reported therefrom during the year. This is

certainly a wonderful and unusual record.

Statistics.—In the city there were 311 births, 86 marriages, and 235 deaths, as per City Clerk Lang's report. The number and cause of deaths are as follows:

Apoplexy	1 4 2 1	Blood poison         1           Convulsions         4           Congenital deformity         1           Congested gall duct         1           Cancer         6           Cerebral thrombosis         1           Cerebral hæmorrhage         1	
Bronchitis		Cerebral hæmorrhage 1 Cholera infantum 1	

Congenital heart defect 1	Lung
	Lung
Debility 5	Laryngitis 1
Drowning	Myocarditis 2
Dysentery	Meningitis
Diabetes 1	Malnutrition 2
Enlarged prostate 1	Nephritis
Explosion 1	Old age 2
Endocarditls 1	Premature birth 5
Gangrene	Pleurisy
Goitre	Pneumonia
Gall stones 1	Paralysis
General prostration 3	Rheumatism 2
Heart	Still-born
Hæmorrhage from severed jugular	Senile dementia 1
vein 1	Senility
Influenza	Tuberculosis
Influenza-pneumonia 61	Ulcer of duodenum 1
Indigestion 4	Uræmic convulsion 2

Like other places we were attacked by the disease known as "Spanish influenza." It came upon us like a hailstorm and claimed 86 victims by death with its onslaught. Had it not been for that, our death rate would have been only 8.5 per cent., a wonderful showing.

I must congratulate the Board for the interest taken and work done by them during the trying time of the epidemic. I would specially mention the Chairman and the Sanitary Inspector. The former devoted almost his whole valuable time to the work, and the latter risked his health and life in the carrying out of his arduous duties.

The thorough plan of organization by the Board tended materially to keep the disease in check. The Board was ably assisted by the Ladies' Auxiliary, the Ladies' Aid and other societies. The managers of the different workshops, factories and stores rendered special aid. Voluntary nurses did more excellent work than can be expressed. It is deplorable that two nurses should have lost their lives in thus caring for others.

The Hospital Aid did noble work in opening its doors to deserving victims; the

nurses therein deserve praise.

Loretto Convent and the Salvation Army undoubtedly stand high in the estimation of the citizens for the voluntary and excellent service rendered by them. The press proved thoroughly patriotic and rendered advice freely without thinking of hope of reward. The medical profession did much by their warning and advice towards suppression of the disease. The citizens, as a whole, rendered material assistance by the care they took of themselves, acting through advice given. The amount spent in fighting the disease and the giving of charity amounted to a comparatively small amount, when taking into consideration the amount of charitable work done. The elaborate report of the Chairman, sent to the Council a few weeks ago, gave a full account of the work done.

Typhoid Fever.—It is gratifying to note that there is not a single death reported from typhoid fever during the year. The entire absence of this disease has been undoubtedly due to our excellent water supply. Too much praise cannot be given the Chairman of the Utilities Commission, Mr. J. J. Mason, for his untiring zeal and perseverance in his endeavour to give the citizens a pure supply of drinking water. He has been rewarded by his efforts, in that he has accomplished his objective. Samples of the water were sent to Toronto weekly for analysis, by the Sanitary Inspector, and a favourable report was always given.

Sanitary Work Done.—The Inspector, Mr. Dunseith, made frequent inspections and sent notices to all persons not observing the regulations. Restaurants and all places where foodstuffs are dealt out have been carefully looked after. Butcher shops and slaughter-houses were often inspected, and on the whole found fairly satisfactory. Gro-

cery stores and cellars were usually found well kept.

Our milk supply has been very good and up to the standard; the dairy barns clean and well looked after.

Butcher tables and meat in market shelter were regularly inspected. Butter offered for sale was frequently weighed and usually found correct.

The garbage collection is being carried on satisfactorily, and undoubtedly has contributed materially to the splendid health condition of the city.

The sanitary condition of the city, apart from the influenza, has been excellent.

#### ST. CATHARINES.

To the Chairman and Members of the Local Board of Health.

GENTLEMEN,—I beg to submit my annual report on the Sanitary and other conditions pertaining to the health of the city for the year ending October 31st, 1918.

Until the outbreak of influenza, early last month, the health of the city and the death rate per thousand of the population was about the average, as observed during the past few years.

Vital Statistics.—The total number of births, as reported, was 237 males. 255 females—grand total, 492. Number of marriages, 154. Total number of deaths. 316. Of these there were 37 still and premature births, also 47 deaths during the first year of life, making a total loss of 74 children, mainly due to pre-natal influences, congenital debility, congenital malformation, over-work, worry, lack of exercise, lack of hygienic living conditions during the period of gestation, etc. The question of child welfare is now becoming a great economic and social problem and one for which a solution should be found, if the great loss of child life is to be lessened.

Contagious Discuses.—There were reported as follows:

Diphtheria	17	cases.	with	5	deaths.
Typhoid fever	5	* *	• •	2	4 +
Measles	9	**		0	**
Scarlet fever	69	**	• •	4	**
Mumps	2	**	• •	0	6+
Chicken-pox			• •	0	* *
Whooping cough	8	**		2	64
-				_	
	113	+6	**	11	* *

In addition, there were reported 8 cases of tuberculosis, with 19 deaths. There were also reported 568 cases of epidemic influenza and pneumonia. There were recorded 61 deaths from these diseases during the year. Of these 33 died during the month of October alone. In addition to these cases of influenza reported, several hundred may be added, making a possible total of about 1,000. An incomplete report for the Province during the month of October shows that the normal death rate was more than doubled: that 3.394 people died from the twin diseases, giving a death rate of 27 per thousand during that month. While the loss of citizens is deplorable, there is room for thankfulness that the death rate was so low in this city.

Sanitation.—Generally speaking, the sanitary conditions of the city have been of a higher standard than usual. In other words, during the past year the city has been remarkably clean and free from the fly pest. This is no doubt due, to a great extent, to the universal cultivation of back-yard gardens, and also to fewer stables, by reason of the introduction of horseless wagons into business affairs, thus reducing the number of unsightly and offensive manure heaps. The City Engineer estimates that there have been collected and removed approximately 7,000 tons of garbage and other refuse matter. This, as compared with the estimate of last year of 10,000 tons, would indicate that much refuse has been spaded into the ground and that the people are more saving of food articles than in the past. I would again draw the attention of the authorities to the desirability and advisability of introducing in the near future a municipal system of garbage collection, as cheaper and more efficient than the present one. During the year there were constructed 10,389 feet of new sewers. There are also under contract and in course of construction a further 4,467 feet. There were also made 95 house connections. It may be interesting to state that during the past ten years the city has constructed 132,115 feet of new sewers, being about 25 miles of this progressive and health-giving work. There has also been made during the past ten years, 2,257 house service connections, all of which shows a healthful and steady sanitary progress.

On a recent visit to the cities of the North-West, I was greatly impressed with the cleanliness of and width of the streets, the almost universal system of lanes between streets, the wide-open spaces between houses in the residential sections, the parks and breathing spaces, and the large playgrounds around the public schools. Many of these

desirable features could be adopted with advantage in this city.

Isolation Hospital.—During the year there were admitted to this institution. 28 patients suffering from different contagious diseases. The average cost for each patient was \$64.73. The total expenditure was \$1.930.52. The total revenue was \$\$49.00. While the hospital is inadequate for the work required, it has been kept in as serviceable a condition as circumstances would permit. The experience of the past month has duly demonstrated the necessity for an isolation hospital suitable for the demands of a growing city. What was considered sufficient ten years ago cannot meet the service

required to-day. In the near future, epidemic diseases of all kinds will be added to those which Boards of Health are now required to provide for, and such diseases will

be excluded from general hospitals, as is now being urged in some cities.

Valuable War Lessons.—The war has taught many lessons which, while expensive, are valuable. One lesson is the value of physical training and personal hygiene as taught in the training camps. If the regulations of camp life as regards regular hours, regular meals with regular work and play in the open air, could be enforced in civil life, a great change would be made in the physical health and vigour of the civil population. The trouble is that people are too indifferent to the simple rules which make strong men and women, fill them with energy and courage, and fit them for the battle of life. The playground and gymnasium are valuable aids.

All of which is respectfully submitted.

F. King, M.D. Medical Officer of Health.

To the Chairman and Members of the Local Board of Health.

Gentlemen,—I herewith submit my annual report from November 15th, 1917, to November 15th, 1918.

Attached to this report is a list of deaths and their causes during the year, also a summary of their ages at the time of death.

Influenza-pneumonia shows a very large percentage of the deaths.

I also submit a list of diseases classed as contagious, as reported by the medical practitioners of the city, which shows a large number as compared with 1917. Influenza-pneumonia is only an approximate estimate, as the medical practitioners did not report that disease at the commencement of the epidemic.

Outside of tuberculosis and influenza-pneumonia there were only 11 deaths from

contagious diseases.

Births reported: males, 250; females, 269. Total, 519; a decrease of 107 from 1917. Marriages reported, 159; a decrease of 20 from 1917.

Deaths reported, 335; an increase of 80 over 1917.

The population, as returned by the Assessment Commissioner for 1918, is 19,189, an increase of 111.

The sewer system has been further extended and a large number of sewer connections made, which all tend to improve the health of the city.

All of which is respectfully submitted.

J. ALPERT PAY. Secretary, Local Board of Health.

#### DEATHS FROM NOVEMBER 15TH, 1917, TO NOVEMBER 15TH, 1918.

	19	Goitre	1
Apoplexy			1
Accident		Gangrene	1
Arterio-sclerosis	5	Heart disease	8
Appendicitis	2	Hypertrophy	3
Astlima	$\overline{2}$	Hæmorrhage	8
Bronchitis	4	Heart failure	9
Bright's disease	2	Indigestion	4
Cancer	9	Inanition	6
Carcinoma	7 .	Ilio-colitis	2
Convulsions	6	Jaundice	2
Carbuncle	1	Myocarditis	2
Cirrhosis of liver	1	Maldevelopment	1
Consumption of lungs	3	Meningitis	4
	6	Malnutrition	3
Cholera infantum	-		3
Diabetes	4	Marasmus	
Diphtheria	5	Nephritis	6
Debility	4	Neuritis	1
Diarrhœa	3	Oedema	2
Dilation of heart	2	Osteomyelitis	1
Dropsy	1	Obstruction of bowels	7
Drowned	1	Old age	5
Endocarditis	7	Ostiomyelitis	1
Epilepsy	2		30
Enteritis	$\bar{2}$		75
	-		
13 в.н.			

DEATHS FROM NOVEMBER 15TH, 1917, TO NOVEMBER 15TH, 1918.—Continued.

Poison	2	Tuberculosis
Pernicious anæmia	4	Tonæmia
Paralysis	4	Tetanus 2
Peritonitis	2	Typhoid fever 2
Septicæmia	1	Ulcer
Stabbed	1	Uræmia 4
Strangled	1	Valvular heart 2
Scalded	3	
Stone in bladder	1	335
Scarlet fever	4	

AGE AT TIME OF DEATH, FROM NOVEMBER 15TH, 1917, TO NOVEMBER 15TH, 1918.

Still a	nd Premature		30
Under	1 vear		49
		5	22
	rs and under		8
10	"	15	5
15	4.6	90	11
20	44	25	8
25 .	44	30	16
30	44	35	20
35	+ 6	40	21
40	44	45	9
45	+ 6	50	15
50	+6	55	13
55	66	60	16
60	+ 6	65	13
65	6.6	70	20
70	4.6	75	18
75	+ 4	80	18
80	**	85	12
85	4.4	90	6
90	4+	95	5
95	• 4	100	
00		_	
			335

# CONTAGIOUS DISEASES REPORTED.

	Cases.	Deaths.
Diphtheria	17	5
Scarlet fever	69	4
Mumps	2	0
Chicken-pox		0
Measles		0
Typhoid fever	5	2
Tuberculosis		21
Whooping cough		0
Influenza-pneumonia		75
Total		107

# WINDSOR.

To the Chairman and Members of the Board of Health.

GENTLEMEN.—I beg to submit my annual report for year ending October 31st, 1918.

# BIRTHS AND DEATHS.

There were 640 births and 364 deaths in Windsor last year. In the report of 1917, 760 births and 413 deaths—making practically the same ratio.

#### INFANT MORTALITY.

Eighty-seven died during the first year of life. Compared with the birth rate this is  $11 \pm \%$  fewer deaths of infants than last year.

About one-quarter of all deaths occur during the first year of life. If our chief aim is to preserve life, then we must devote our best efforts to infants. The Board of Health has but one nurse, whose duties comprehend cleaning up for release from quarantine, attendance at the tubercular clinic and visits to tubercular patients, as well as visits to infants. During the past summer there was very little quarantine, and she was able to visit a good many homes in our congested districts to aid in the care of babies, but obviously our force is inadequate.

It is encouraging to note that the public generally is taking more interest in this problem, and we hope that something practical will grow out of the interest taken in it

by Social Service.

If so many die during infancy, it is obvious that many of the survivors carry into life defects that impair their vitality and usefulness.

#### Contagious Diseases,

Two thousand and forty-three visits were made in connection with quarantine

Homes Quarantined.		Deaths.
10	16	0
	*49	1
31	35	2
1	1	0
16	16	4
96	*96	2
2	3	3
	37	14
162	242	6
	67	
367	579	32
		Quarantined.       Cases.

^{*} All the cases of measles and whooping cough not noted.

#### INFLUENZA.

Influenza at present is not a disease subject to quarantine, but we advised the public to observe the same regulations, and I am grateful to say that our advice was graciously accepted, and on the whole I think the disease was as well controlled here as anywhere.

There were 235 homes with influenza, and we are grateful to the physicians for reporting these and for their assistance in every way suggested; but many cases did not consult a doctor, and medical men were so busy that they neglected to report many. It is estimated that upwards of two thousand cases have occurred in Windsor already.

The great difficulty in controlling influenza is due to the fact that it is contagious before the patient is aware of his illness, and many cases are so mild as not to be recognized at all.

The Mayor, after consulting with the Board of Health and doctors, closed schools, churches, theatres and public gatherings for two weeks.

# NURSING PROBLEMS.

The sudden occurrence of so many cases of such a serious character at once took up the time of all our nurses and filled the hospital. The public owes a great debt of gratitude to the sisters of service who did such splendid work in combating this disease. They were entrusted with the publicity campaign as well as the furnishing of nurses, and the work was well done. No family in the border municipalities was without nursing and other necessary help. In several houses every one was ill.

Volunteers were called for, and a number nobly responded. It is no trifling matter for a young lady to offer her services as cook, housemaid and nurse to a family afflicted

with a disease so dangerous, and one which she was almost certain to take.

The border cities were divided into sections, each supervised by a school nurse. When a request for a nurse came in, a volunteer who had already been instructed by St. John Ambulance or the pamphlet issued at headquarters in Toronto, was taken to the patient and shown what to do. In many cases the supervisor bathed the patient and did other necessary duties to illustrate to the volunteer.

Our thanks are due to the Ford Motor Co., which placed automobiles with chauffeurs at the service of the nurses, so that the supervisor could call in and see how her amateur nurses were getting on. All the supervisors gave their services free.

It is a matter for regret that the expected happened—a number of our nurses became sick, some of them very ill. One supervisor also was forced to give up, and Miss Baxter very graciously took her place.

Up to date there were only thirty-two deaths from influenza in Windsor, which is not excessive when we consider that probably two thousand were afflicted.

Efficacy of Vaccine Sent for Prevention by the Provincial Laboratory.

At first the opinion of physicians was very much in favour of vaccine for prevention. Now there is a difference of opinion.

In order to arrive at some reliable conclusion, I have analyzed influenza and its vaccine where we have definite data, the staff of the Hotel Dieu, where all were vaccinated.

(1)	Date of first case of influenza in Hotel DieuOctober 6
	Number on nursing staff at this date
(3)	Number of maids at this date
	Date of first vaccineOctober 25, 1918
	Number of nurses and maids ill with influenza to Oct. 25, 1918 21
	Number taken ill within five days after the first vaccination 4
	Number taken ill within five days after the second vaccination 3
	Number taken ill five days or more after the second vaccination 4
	Number of deaths 0
(10)	Severity before vaccination or afterdoubtful

It will be noted that in nineteen days after exposure without vaccination there were twenty-one victims; counting five days for incubation, twenty-five victims in twenty-four days. Three became ill in less than five days after the second dose, but seven, including this three, have become infected in twenty-one days after vaccination.

These figures would indicate a decided advantage in using the vaccine, but it happens that all the younger nurses but two who were nursing influenza became infected, and the older ones may have been immune without the vaccine. There were only six of the younger nurses in the hospital not infected.

Of the thirty-two deaths in the city till November 15, only one was vaccinated, and that only two days before taken ill. I have asked opinions of our physicians, and the majority consider it of great value, but probably the immunity is of short duration.

#### TUBERCULOSIS.

Only thirty-seven cases were reported, all from our clinic, and there were fourteen deaths.

 $1\ \mathrm{am}$  certain many cases were not reported. There are probably two hundred open cases in the city. Where are they?

The danger of the infection is not so much from advanced or bed-ridden cases. They are not handling food for the family, or coughing towards them. An open case is going about the house, coughing, speaking towards others for two years before it becomes advanced; and, while it is certainly wise to provide against infection during this stage, it is quite certainly a case of "locking the stable door after the horse is stolen."

Our nurse has visited the houses of 37 cases. Her time for this work is limited. There should be a nurse for this purpose alone, and a good, capable one, with power to act.

Probably most of the unrecognized cases do not consult a physician until they are advanced, and attending physicians and infected families do not take kindly to outside interference. How many tubercular cows are furnishing us with milk?

Surely all milk should be pasteurized, and that, too, in a municipal dairy where we could be sure of details. Every home should make provision for an outdoor sleeping porch.

We are indebted to the Sanitarium for very much, and very particularly for the splendid work in the clinic by the medical superintendent, Dr. Flock.

#### TYPHOID FEVER.

During the past year twenty-one cases were reported and nine deaths; five cases and five deaths came to our hospital from other municipalities. This leaves sixteen cases in Windsor, with four deaths.

An analysis of these sixteen cases shows:

One drank water in Amherstburg;

Three drank water in Chatham during the epidemic;

Two drank water in M.C.R. private water system;

Two drank water at River Rouge, Mich.;

One drank water travelling from Port Arthur to Montreal;

One worked at a coal dock and on boats, and may have taken river water;

Three had typhoid in the family formerly, probably due to carriers;

Two diagnosis very doubtful, probably not typhoid (one a River Rouge case):

Two drank Windsor water, and there was no other apparent cause.

They were scattered pretty well over the city. Two victims used water from the

M.C.R. system. This is very dangerous, and the authorities have been warned.

There are only two cases where we have not a reasonable cause aside from our city water, and I think it is fair to conclude that Windsor is more free from typhoid than it has been in thirty years, owing to effective chlorination. Gratitude of the city is due to Mr. Kellner, of the water works, and his careful assistants. If our chlorination is well done we are safe; ten minutes of neglect might mean a hundred cases.

Four deaths in the sixteen reported cases is a high death rate. I am inclined to

think that all cases were not reported.

We expect a clean sheet next year.

# DIPITHERIA.

Our record for the past year is bad--242 cases, 67 carriers (some of our carriers

were reported as diphtheria), and 6 deaths. Last year, 223 cases and 16 deaths.

We have established a laboratory of our own, with an expert bacteriologist. The throat of each pupil in the school room is swabbed and examined in the laboratory: every absentee is examined, and quarantine established in all positive cases, so that we must surely get results.

# Inspection of Premises,

According to the law, every home and surroundings in this city must be inspected by us once a year. With our present staff this is impossible. We inspect carefully

every complaint; 267 of these inspections were made.

As a matter of fact, a city employee does or could inspect the premises. We have garbage collectors under the Board of Works, of good intelligence, who inspect them almost daily. If some system were devised of reporting to us, the thing is accomplished. Why not,

#### Inspections.

Stores	1,704
Markets	67
Slaughter-houses	
Dairies	210

# FOOD CONDEMNED.

Beef	3,600 H	bs.
Lamb and veal		
Pork	1,400 '	66
Vegetables and fruit	5,200	44
Milk, cream	700	6.6

11.100 lbs.

#### BORDER CITIES BOARD OF HEALTH.

For more than two years we have been advocating that a health district should be established, but the uncertainty as to our financial position after the war seemed to make our efforts futile. It is quite likely this will be accomplished soon. Until it does come we cannot secure the best results with quarantine. We are not likely to get an isolation hospital or municipal pasteurization.

# Yours respectfully,

G. R. Cruickshank,

Medical Officer of Health.

#### WOODSTOCK.

To the Mayor and Aldermen of the City of Woodstock.

Gentlemen,—I herewith submit the annual report of the Health Department of the City of Woodstock for the year ending 15th of November, 1918.

During the close of 1917 and the early part of 1918 we have had to contend with an epidemic of measles, but we are glad to say that any fatality was not reported as due to the disease.

During the months of October and November of the present year the city was visited by the influenza wave which swept over nearly the whole world. In our opinion the city of Woodstock suffered less from the plague than the average town or city. As to the diseases to be reported to the Medical Officer of Health, we have had very few, except measles, chicken-pox and whooping cough.

The members of the Board of Health are very grateful to the City Council for their generosity in moving the Isolation Hospital from an unsanitary, inconvenient and lonesome locality to one having many good features in its favour. Your committee have remodelled the building and painted it. Water and electric light connections have also been made.

The population of the city by the census of 1918 is 10,057.

Number of births during the year, 198. Number of deaths registered in the Registrar's office. 139. Deducting from this 18 non-residents who came to the city for treatment, and also 20 still or premature births, we have 101 deaths from disease or accident. This gives a death rate of 10.4 per thousand of population.

Deaths were due to the following causes:

2       Pneumonia and influenza       17         2       Tuberculosis       4         0       Convulsions       5
3 Cerebral hæmorrhage 3
8         Motor accidents         3           2         Exhaustion         3
2 Paralysis
3 Pulmonary ædema
2 Peritonitis

and one each of the following, viz.. uræmic poisoning, cerebral abscess, congestion of brain, diabetes, hæmorrhage from chord, Bright's disease, arterial sclerosis, gastric hæmorrhage, cerebral softening, angina pectoris, carbuncles, suffocation, gangrene, meningitis, anti-partum hæmorrhage, poliomyelitis, nephritis, general debility, fracture of skull, cerebral coma, carcinoma of brain, poisoning, dilatation of stomach, obstruction of bowels, anæsthetic, appendicitis, marasmus, cholinitis, cerebral thrombus, dropsy.

The deaths occurred between the following periods:

Under 1 year .						
	ears		" 50	<b>"</b> 60		 8
		3				
" 10 " 20		5	" 70	" SO	14	 21
" 20 " 30		14	" S0	" 90		 17
" 30 " 40		6 90	years	and	over	 4

# COMMUNICABLE DISEASES.

	1917.			1918.										
Disease.		December.	January.	February.	March.	April.	Мау.	June.	July.	August.	September.	October.	Nov. 15.	Totals.
Measles Scables Erysipelas Whooping Cough Chickenpox Tuberculosis Mumps Scarlet Fever Poliomyelitis Typhoid Fever	1	7 6 1 	i 	2 2  1	2 2 	1  1	1  1 	· · · · · · · · · · · · · · · · · · ·	$\frac{\dots}{2}$	1		 1 4 2  1 1		213 5 2 20 23 3 3 1 6
Totals	29	99	62	35	16	5	3	6	8	1	2	10	3	279

Of the six cases of typhoid only one was contracted in the city; the others returned to the city suffering from the disease.

# MILK SUPPLY.

The city milk is principally supplied by the Woodstock Dairy Company, but they have not an exclusive right; a few private parties take out licenses to sell, and all have to comply with the same standard as to butter-fat and cleanliness. The milk is tested monthly, and generally is up to standard (3.25) as to butter-fat. The Dairy milk is invariably free from sediment, but some of the individual vendors are not as careful as they should be.

#### SANITATION.

There are altogether too many out-door closets yet in use, though they are diminishing from year to year. I would suggest that the city by-law be amended by extending the area in which outside closets shall be prohibited, said area to include all streets supplied with sanitary sewers.

I thank the members of the Board for their active co-operation in carrying out the

work of the Health Department.

Respectfully submitted.

Andrew Mackay,

Medical Officer of Health.

#### ADDENDUM.

Owing to the continuance of the influenza epidemic in a severe form, the Board recommends that influenza be put on the list of reportable diseases by the Provincial Board.

Andrew Mackay,

Medical Officer of Health.

#### AMHERSTBURG.

AMBERSTRURG, ONT., November 30th, 1918.

The Chairman Board of Health.

Sig.—I beg to submit my annual report for the year 1918. Early in the year the town council took under consideration the Bruner Mond Co. agreement to construct a filtration chlorinating plant. After many discussions, the Bruner Mond Co. proposition, to crect a plant to filter and supply the town, was presented to the electorate. The votewas taken on May 28th, and decided favourably. They immediately began the construction of the plant. The town has the new water mains almost finished, and in a short time Amherstburg will have a supply of pure filtered and chlorinated water second to none in the Province. We hope as a result to rid ourselyes of the typhoid menace.

Inspections during the year were 198. Every person complied with the public health requirements. Contagious cases during the year were: 38 cases measles, no deaths; 59 cases typhoid, 3 deaths; 2 cases scarlet fever, no deaths. There was a sharp projection of influenza, some 380 cases, with 4 deaths, all the result of pneumonia com-

plications.

Sanitary toilets have been installed in the public school, and I would ask the council to insist on the removal of all Hopper closets, and, on the streets having sewers, to have the property owners make the proper sanitary connections, as so many outside toilets are not kept as they should be, consequently drawing many flies and causing a decided nuisance. I would also suggest that a by-law be passed to prevent spitting on the sidewalks and in public halls.

It would be advisable to request the milk dealers to have their milk cows treated with the tuberculin test to make sure of the health of the herd and to ensure a pure

supply of milk.

Respectfully submitted,

T. James Park.
M.O.H.

# BARRIE.

Barrie, November 15th, 1918.

To the Chairman and Members of the Board of Health, Barrie, Ont.

GENTLEMEN.—My report as Medical Officer of Ilcalth to your Board for the year 1918, ending November 15th, is as follows:

Births, 152; marriages, 50; deaths, 104.

Contagious diseases reported—Diphtheria, 1: scarlet fever, 1: measles, 6; typhoid fever, 1.

Deaths from contagious diseases—Tuberculosis, 6; influenza, 9.

Apart from the world-wide epidemic of influenza, our town has been comparatively free from contagious diseases. We experienced a large number of cases of the disease in October and the early part of November, with unfortunately nine deaths from pneumonia complication. No deaths among those of public school age, though many children had the disease. Your Board followed the course pursued by the larger centres and had a closure of all schools, churches, library, and places of amusement, during the height of the outbreak. We have to thank all the citizens for their ready compliance with our regulations. We availed ourselves of the offer of the Provincial Board to send instructors to train "volunteer aid nurses" to help in fighting the disease, and we wish to convey our thanks to all the ladies of the Soldiers' Aid, Red Cross Society and other patriotic associations for their splendid organization of the Sisters of Service. The work they did during the epidemic was invaluable, going into homes of all classes and administering to the wants of the sick. In the early period of the outbreak nurses from the Royal Victoria Hospital gave their assistance and were helpful to the volunteer nurses. Many cases were treated in the hospital; one-half of the entire space was allotted for their reception; private wards were converted into semi-private to utilize space. The infection did not spread to other patients, showing careful attention on the part of the superintendent and nurses. The report of your chairman will show the cost of the outbreak to the municipality. The activities of the Board have been greatly curtailed by the desire on their part to keep down expenditures.

Many much needed reforms were held back by the Board, such as milk pasteurization; a better system of handling bread and confectionery and the care of other articles of food, as fruit; a different system of garbage collection; construction of sedimentation tanks; construction of bath houses; extension of our sewer system.

thereby doing away with many objectionable cesspools, now serving so many houses. These and many other reforms should engage the attention of the new Board.

Your Inspector has brought in monthly reports of his work, which have been duly

In conclusion, I have to thank the members of the Board and the Sanitary Inspector for their co-operation and assistance in my work during the year.

All of which is respectfully submitted.

#### A T. LITTLE,

Medical Officer of Health.

Barrie, Ont., February 13th, 1919.

To the Mayor and Council of the Town of Barrie.

Gentlemen.—I beg to present the report of the Medical Officer of Health for the year 1918. In doing so, I would say that the Board of Health has endeavoured to carry on its work as economically as possible. Several matters have been left in abeyance, which only a desire to keep down expenses at this time has caused us to leave over. Our expenditures to date amount to \$945.08, with a balance for salaries of \$126.67 to pay would make a total of \$1,071.75, which is comparatively below our estimates. This is especially gratifying, as we had a most serious epidemic of influenza, which might have cost us a very great deal but for the very patriotic and unselfish assistance rendered by the ladies of the Soldiers' Aid Society, the Women's Institute, Red Cross, and others, who assisted in nursing and supplying the needs of those who were afflicted.

While there has been a most regrettable loss of life, we feel that, in comparison with other places, we have been most fortunate. Your Board endeavoured early to meet the situation, and while our efforts may have seemed drastic at first, we believe the results

have justified our efforts.

Outside of this outbreak, the town has been remarkably free from disease during the year, for which we have great cause for thankfulness.

All of which is respectfully submitted.

#### R. A. STEPHENS,

Chairman, Board of Health.

#### BROCKVILLE.

Brockville, December 16th, 1918.

GENTLEMEN,—I beg to transmit herewith the annual report of the Medical Officer of Health, Veterinary and Sanitary Inspectors and the Secretary of the Board.

Up to the time of the outbreak of Spanish influenza the infectious and contagious

cases of diseases were few and conditions generally were normal.

At the inception of the Spanish influenza epidemic the Board, with the concurrence and approval of your honourable body, took very drastic measures to prevent the spread of this dread disease. The churches, schools and theatres were closed, and other gatherings, exceeding twenty-five in number, were forbidden, and this order was kept in force until the danger had practically subsided. The public generally cheerfully and loyally observed the order of the Board, although in some instances at personal loss and inconvenience. As a result of the precautionary measures the death percentage of this scourge has been comparatively small.

In this connection I wish also to place on record the Board's deep appreciation of the very valuable and practical assistance rendered by the ladies of the town in preparing and supplying food and other necessaries to persons prostrated by this sickness, who along with the other members of their family would have been, at this critical period, wholly unable to cope with the disease except for the assistance so generously

and unselfishly supplied by the ladies of Brockville.

It is a pleasure to note that although the price of milk is still advancing its purity and quality is beyond criticism.

The garbage system continues to give satisfaction, and the general health conditions of the town are good.

The birth rate exceeds the death rate by a considerable percentage.

All of which is respectfully submitted.

M. M. Brown,

Chairman.

Brockville.

GENTLEMEN,-1 beg to submit the following report for the year ending October 31st. 1918.

The number of births registered during the year were 246, of which 127 were males

and 119 females.

The number of deaths registered as having occurred in this municipality was 245, of which number 56 were residents of other municipalities brought to the hospitals here for treatment, making 189 deaths of persons resident in Brockville. Of this number 97 were males and 92 females.

Of the total number of deaths 19 were still-born, 15 under one year of age, 14 between 1 and 5, 18 between 5 and 20, 52 between 20 and 40, 39 between 40 and 60, and 88 over

60 years of age.

The returns required by the Provincial Board have been regularly sent to the Department.

Your obedient servant.

Geo. K. Dewey. Secretary.

Brockville.

GENTLEMEN.-1 beg to submit the following report for the year ending October 31st. 1918.

The number of contagious diseases reported at the office of the Secretary is as follows:-

> Typhoid fever ..... Diphtheria ...... 10 Chickenpox ..... 1 case

Quarantine was established when necessary and premises fumigated as required.

The collecting of garbage has been efficiently done during the year.

The butcher shops and bakeries have been inspected from time to time and found clean and sanitary.

Your obedient servant,

WM. BURKE.

Sanitary Inspector.

Brockville.

GENTLEMEN.—In submitting this my report, I beg to point out the excellent condition of the live stock in this district, and their freedom generally from anything of a contagious nature. During the year we have had one outbreak of hog cholera, but it was confined to one premises with the loss of five logs.

The milk supply of the town has undergone some changes, in that a large proportion of the milk now supplied is sterilized and pasteurized at the plant of the Whyte Packing Company. The supply comes from farms within a considerable radius of the town. The herds, from which the milk supplied direct to the consumers is procured, are in good condition. The surroundings and appliances for handling are showing some improvement.

The meat supplied has shown no change since my last report. The bulk of the beef sold in the butcher shops comes from Toronto, and is slaughtered under Federal Government inspection. The lighter carcasses are mostly supplied from the surrounding country. The slaughter houses in the vicinity of Brockville are very little used. They are equipped for carrying out the provisions of the by-laws of the town relative thereto.

There has been few complaints during the year as to the offering of meats and fowl

on the local market.

Respectfully submitted.

D. McAlpine.

Veterinary Inspector.

BROCKVILLE.

GENTLEMEN.—In this my annual report I am pleased to state that we have been particularly fortunate, as very few cases of infectious diseases have been reported, with very few deaths, until the unfortunate epidemic of influenza, beginning in October.

The cases reported are:-

Varicella-One case: no deaths.

Typhoid fever-Four cases; one death.

Diphtheria-Ten cases; one death.

Tuberculosis-Sixteen deaths.

Influenza—Forty-two deaths (out of town, 8 cases).

By this report it may be seen that our town during the past year has been particularly free from diseases of an infectious nature, and had it not been for the influenza outbreak, it would have been our banner year.

The quality of milk furnished has been good, but the number of vendors much less than in previous years, and a greater quantity is now pasteurized. The number of examinations has not been as great, as the room provided by this Board for examinations has been given to the regiment stationed here as a club-room.

The town has been kept particularly clean, and the garbage very efficiently collected. The public grounds for disposal of refuse is especially well kept, but that done by private collectors has been in most cases in a slovenly manner, and is particularly hard to control.

The sewer system has been extended and sewer connections have been made wherever possible.

The weeds on the streets have not been kept as well as usual and hence more difficulty has been experienced in keeping private yards tidy.

Respectfully submitted,

A. J. MACAULEY.

M.O.H

#### BURLINGTON.

Medical Health Officer's Report, Town of Burlington, 1918.

I herewith present the annual report of the Board of Health for the year 1918. We have had a year very free from contagious diseases, there being reported only six cases of scarlet fever, three cases of measles, two cases of diphtheria and typhoid fever. Only four cases of venereal disease have been reported to the M. O. H.; others may have had it, but have gone out of town for treatment.

As regards nuisances, each nuisance has been promptly investigated by either the Sanitary Inspector or M. O. H., and a satisfactory adjustment made. An inspection of the premises of the several milk vendors supplying milk to the town was made, four in number. Three of them were in first-class condition, the other promising to have milk-house built and stable whitewashed to conform to the requirements of the milk by-law.

The milk supplied to the town is distributed by one milk vendor, nearly all milk supplied being pasteurized. Frequent analysis of the milk has been made for butter fat, and on one or two occasions it has tested low, but we have endeavoured to keep it up to the standard.

The water supply has been regularly tested throughout the year, and not at any time has anything been found of a serious nature.

An attempt was made early in the year to introduce a garbage by-law, but met with poor success.

Altogether we have had a year free from any contagious diseases of a serious nature.

A H. Speers,

M.O.H.

#### CORNWALL.

REPORT OF THE MEDICAL HEALTH OFFICER, TOWN OF CORNWALL, FOR THE YEAR ENDING NOVEMBER 15TH, 1918.

To the Chairman and Members of the Local Board of Health:

GENTLEMEN,—I beg to submit to you the annual report of the Medical Health Officer

of the town of Cornwall for the year ending November 15th, 1918.

I regret to say that the past year has been a very severe one upon the people of the town, from a health point of view. In the early months of the year we were visited by smallpox, which lasted some eight or ten weeks, but fortunately was attended with no fatal cases. Not having an Isolation Hospital, it was necessary to isolate the people

in the houses in which we found the cases, and although a somewhat difficult task, we succeeded in confining the disease to the houses in which it originated.

During the year there were reported to me the following cases:-

Scarlet fever	S cases.
Smallpox	S "
Diphtheria	9 "
Typhoid fever	10 "
Tuberculosis	12 "
Measles	2 "
Mumps	6 "

I am not prepared to say that these figures are correct, as I am confident many cases were suppressed and not reported to me, nor was any medical attendant called

in, and in this manner they escaped the health officer.

As usual, the town was regularly inspected at different periods of the year by two very faithful, painstaking Sanitary Inspectors. A milk inspection was more rigidly carried out this year than formerly, and a system of protection by covering foods and fruits exposed for sale, was also carried out. The water system of the town was analyzed, and the water found good and wholesome. The sewerage in the town has also been extended, and in one instance a sewer was rebuilt for the purpose of giving proper drainage to that portion of the town formerly not properly provided for.

In the latter part of the month of September the town was visited by a severe epidemic of influenza, accompanied in many cases by pneumonia, which resulted in the

death of 79 persons in the month of October.

During the month of October there were 100 deaths recorded at the Town Hall—79 of influenza, followed by pneumonia; 3 of phthisis; 1 of surgical shock; 3 of cerebral hemorrhage; 1 of septic poisoning; 5 still-born; 1 abscess of larynx; 2 cancer; 3 old age; 1 cardiac syncope; 1 meningitis.

It is fair to say that out of the 79 cases reported at the registration office, many were persons who came from outside of the municipality of the town and who died in

our hospitals.

The number of deaths for the year were as follows:—		
1st quarter ending March 31st	35	deaths.
2nd quarter ending June 30th	41	4.6
3rd quarter ending September 30th	38	**
September 30th to October 31st		

During the epidemic of influenza the Board of Health held several meetings, and it was decided that all public places should be closed to prevent, as far as possible, the gathering of crowds. The schools closed of their own accord, and by the request of the Medical Health Officer, the theatres and pool-rooms were closed, and also the churches.

About November 11th the condition of the town seemed to warrant the opening of the different schools, as well as the churches and the other places which had been closed, and I am glad to report at this date that the condition of the town is satisfactory, and that the epidemic has practically ceased to exist. It is quite probable that isolated cases of influenza, followed by pneumonia, may take place for the next few months, as such is usual after a severe epidemic of this kind.

Otherwise, the town is in a good and sanitary condition.

All of which is respectfully submitted.

C. J. Hamilton,

Medical Officer of Health,

Cornwall, Ont., November 15th, 1918.

# FORD CITY.

Annual Report of the Board of Health, 1918.

The year 1918 will surely register in the annals of our municipality a very important point in hygienic matters. In fact, it is admitted by everybody that the development of our town is lingering, due to our lack of accommodation, more particularly our inadequate sewerage system. We have now to deal with a definite plan of sewerage, with full permit from proper Provincial and Federal authorities, and already under construction.

We sincerely hope that the residents of this municipality will realize the necessity of such an expense incurred entirely for the betterment of the community, and which will contribute largely in bringing about a new era of prosperity within our limits.

Schools.—Our schools have been, twice during the year, invaded by undesirable visitors, such as diphtheria and influenza germs. Such hosts demonstrate the importance of the regular school nurse inspection. In fact, in both instances, proper measures having been taken immediately, the children were protected against serious complications.

MEAT SHOPS AND RESTAURANTS .- The Local Board is thankful to the efficient aid it has obtained, during periods of epidemics or otherwise, through the experience of Dr. A. E. Bowman, of Windsor, whose knowledge of bacteriology and public health matters is deeply appreciated. Milk and meat inspections have been carefully gone through, and all eatables found improper for domestic consumption condemned.

Conclusion.—Finally, the prospect of a centralized Board of Health, including all the border municipalities, operated under one heading, in order to establish uniform regulations, proper accommodations for contagious diseases and unanimity on public health questions, would contribute largely to the welfare of our prosperous industrial district, which will need in the future a very competent health organization.

> DAMIEN ST. PIERRE. M, O, H.

N.B.-Influenza, which has made so many victims all over the country, has not forgotten us. We have had so far about 350 cases, with 5 deaths.

Number of communicable diseases for the year ending Novembr 30th,	1918:
Diphtheria	18
Measles	3
Whooping cough	3
Typhoid fever	3
Tuberculosis	1

# FORT FRANCES.

The Local Board of Health presents herewith its report for the year 1918: Generally speaking, the health of the community during the past year—outside of the influenza epidemic—has been good.

The comparative statistics for the years 1917 and 1918 are as follows:

#### Births.

	2	lales.	Females.	Marriages.	Deaths.
1917		54	47	38	35
1918		58	49	28	51

The number of deaths due to influenza in 1918 was sixteen, this being the exact number by which the deaths in 1918 exceeded the deaths in 1917. The number of deaths from tuberculosis in one form or another was three in each year.

Outside the influenza epidemic the number of contagious diseases reported was very

small.

Detailed reports are attached hereto.

Total .....

#### VITAL STATISTICS, 1918.

#### Births.

Males Females .																						
Total	 	 		٠.									 								16	77
					3	Ιc	11	ri	a	g	cs	3.										

Deaths.								
Prematurity		2						

Prematurity	2
Still-born	8
Child-birth	
Malnutrition	1

#### Deaths.—Continued.

Convulsions	1
Acute indigestion	1
Cancer	3
Tuberculosis	3
Apoplexy	1
Heart failure	4
Meningitis	2
Old age	1
Diarrhœa	1
Hardening arteries	1
Ulcer of stomach	1
Accident	2
Pneumonia	2
Pneumonia and influenza	16
	_
Total	51

	Jan.	Feb.	Mar.	Apr.	Oct.	Nov.	Dec.
Measles	1	1	1		1		
Mumps							
Typhoid					3		
Influenza					40 (200)		

According to reports made to the Secretary of the Local Board of Health, the number of contagious diseases in the municipality during the year 1918 was very few and the spread of same was not noticeable.

#### THE INFLUENZA EPIDEMIC.

Judging by newspaper reports and hearsay, other places suffered from this epidemic more severely than this municipality. Although it is impossible to estimate exactly, it is probable that during the last three months of the year the number of cases in the town would be from 200 to 250. The number of deaths reported from this cause was sixteen. To those who have watched the course of this disease it is quite apparent that when nursing and proper care were provided the patient had every chance of recovery. In most of the cases where death occurred, especially at first, there was generally some cause in addition to the epidemic that lessened the chance of recovery. In this connection the Board wishes to express its appreciation of the action of the Council in establishing and maintaining the Emergency Hospital. There can be no doubt this action did great good, not only in saving lives, but also in diminishing suffering and controlling the spread of the disease.

#### MILK TESTS.

During the year a number of milk tests were made. As a rule the test of milk for butter fat was satisfactory. In regard to cleanliness, however, the first test proved that there was something radically wrong in the manner of handling milk. The results of these tests were made public and a very marked improvement was observed in respect of cleanliness almost immediately.

On August 15th the District Officer of Health, Dr. W. E. George, visited the town, and this was one of the chief matters that received his attention. The District Officer of Health was particularly strong in his condemnation of the "one-cow dairy." There has, however, been so much difficulty obtaining milk that the Board has felt that it could not be too stringent in this matter. The matter of milk supply is one of the difficult questions still to be settled.

#### DEFERRED BUSINESS.

The following matters should receive the attention of next year's board:—Installing of sewer and water in all houses which are on the mains. Regular inspection of stables.

Regular milk tests from all who sell milk.

Regular water tests.

Inspection of houses to prevent overcrowding.

All of which is respectfully submitted.

J. W. WALKER,
Secretary.
R. Moore, M.D.,
M.O.H.

#### GUELPH TOWNSHIP.

GENTLEMEN,—I beg leave to submit the following report of the health of the people of Guelph township for the current year.

Again we have been fortunate in escaping epidemics of the more common infectious diseases, such as diphtheria, scarlet fever, measles, etc., but we have had isolated cases of these troubles, especially near the city. With strict attention to quarantine and thorough disinfection, the diseases spread no farther. We would again respectfully ask all medical men practising in the township to promptly notify the Board of Health of any infectious cases they may attend, so that the necessary precautions may be taken to prevent its spread. Prevention is better than cure.

Guelph Township, like most parts of the world, was afflicted with that terrible scourge, the Spanish "Flu," but while more populous centres were sorely stricken, and a great many deaths were recorded, we cannot say that any deaths in the township, outside of St. Joseph's Hospital, were directly due to it. All the schools in the township were closed for a time, some by necessity, as the teachers had the disease. Your Medical Officer of Health and Sanitary Inspector visited all the schools in the township previous to the opening of the fall term, with the object of seeing what preparation the trustees had made for the reception of the scholars; to inspect the school building, the wells and outbuildings. The report of this visit was not sent to the Chairman of each Board of Trustees, but they were all invited to attend a meeting at the Council rooms, which they did, and a free discussion took place concerning the care and upkeep of the school buildings and grounds. Professor Tomlinson, of the Ontario Agricultural College was present and gave an interesting talk on tree planting and the adornment of country schools, which we are persuaded will result in nuch good.

Conditions at the sewage disposal plant are much the same as last year—rather worse than better. The sewer beds are totally inadequate to filter the amount of sewage going on to them, consequently much untreated sewage goes directly into the River Speed. Every year the city is extending its mains and thus increasing the amount of sewage, without making an adequate increase in the filtering capacity.

All of which is respectfully submitted.

H. G. ROBERTS,
M.O.H., Guelph Township.

To the Municipal Council of the Township of Guelph.

Gentlemen,—Your local Board of Health beg leave to report for the year 1918 as follows:

Nothing of a very alarming nature has transpired during the year, except the outbreak of the "Flu," which has been world-wide and thoroughly epidemic in its character and very fatal in its results.

During the month of October, the vital statistics for which have not been included in this report, the death rate has been high. The general health of the Township has been fully reported on by Dr. Roberts, M.O.H., and Sanitary Inspector William Young.

Vital statistics for the year 1918 are as follows: Births, 53 male and 59 female, a total of 112, of whom 78 were born in St. Joseph's Hospital and 34 in homes in the township. Deaths, 73, 39 male and 34 female—52 in St. Joseph's hospital and 21 in homes in the township. Three deaths were from tuberculosis; 2 diphtheria; 2 cancer; 1 meningitis and 1 typhoid. Five of the births were still-born. The deaths by ages were: 11 under one year, including those still-born; 7 under ten years; 3 under 20 years; 5 under 30 years; 4 under 40 years; 5 under 50 years; 9 under 60 years; 7 under 70 years; 15 under 80 years; 6 under 90 years; 1 between 90 and 100 years.

We would recommend payment of the following amounts:

Dr. Roberts, M.O.H.	\$60	0.0
William Young, Sanitary Inspector	60	00
George McIntosh, member of Board	14	00
William Jackson, member of Board	14	00
James Laidlaw, member of Board		
Nicol Jeffrey, legal advice		
Alex. Stewart, disinfectants		
William Young, exp. disinfecting	9	00

All of which is respectfully submitted.

GEORGE McIntosh.

#### HESPELER.

GENTLEMEN.—As Medical Officer of Health 1 beg to report as follows for the last half year:

Up till November the town had a clean bill as far as epidemics or contagious diseases are concerned. In November we had the universal epidemic of Spanish influenza. Fortunately only a few deaths occurred. The ban was early placed on schools, churches and public gatherings. An emergency hospital was instituted by the Board and a committee of citizens, report of which I herewith append.

The sanitary conditions and drinking water is in a sanitary condition. A semiannual inspection being made by the inspector. A Babcock milk and cream tester has

been installed and an improvement in the supply will no doubt follow.

M. C. Black,

M.O.H.

#### KEEWATIN.

Gentlemen.—In compliance with the requirements of the Public Health Act I hereby submit to you my annual report for the year 1918., which is brief, from the fact that the seriousness of the present epidemic has overshadowed all ordinary topics on health and sanitation.

During the year there were thirteen deaths, as follows: One from consumption; two from Bright's disease; two from cancer; one from pneumonia following measles; three from pneumonia following or complicating influenza; one from heart failure; one from broncho pneumonia (infant); one from infantile cachexia (age 3 hours); one from accident.

The case of phthisis was one in which the prominent symptoms were of two years' duration, and care was taken throughout the course of the disease to prevent the spread of infection.

One case of Bright's disease occurred during pregnancy, death occurring some time after parturition.

The other case was a child of twelve years, the case being well advanced before

The case of pneumonia following measles occurred in a Galician family. The child had been very weak and poorly nourished from birth, and death occurred at the age of six months.

In the cases of pneumonia occurring with influenza, two of them did not follow the attack of influenza, but complicated it; the pneumonia being the chief feature of illness from the outset.

Among the deaths recorded we found the names of three infants, two resulting from broncho-pneumonia and one from infantile weakness, the latter dying three hours after birth.

The only epidemic other than the present one was one of infantile paralysis that occurred in the months of May and June, four cases in all, three girls and a boy, all under the age of ten years.

Absolute recovery occurred in three cases, and a slight weakness and subsequent lack of development in the affected limb occurred in the other.

It was made mention of at the Provincial Health Officers' annual meeting, held in Hamilton, Ont., in May, and the results were thought to be most unusual, considering the serious character of the disease, and the paralysis that almost invariably follows.

We have had no typhoid to report during the year. In regard to the epidemic of influenza I have little to say, probably because we know so little about it other than from the experience in dealing with it since the outbreak.

Probably we have an apology to make for negligence, as to what we did do in the way of preparation to meet the conditions incident to the pest? Nothing. We knew it was coming, but like many other things of this kind, waited until we neard the bushes crackle, and when the blow came, it was like the eruption of a volcano, notwithstanding the knowledge we had through the medium of the newspapers, of its ravages in eastern cities, and the articles that appeared in all newspapers regarding the prevention symptoms and treatment of the disease. However, when we consider what might have been, and what did really occur, questions naturally arise. Would it have been possible for the municipality, had they wished to take affected persons from homes and isolated them for treatment, to have erected a hospital or prepared a place adequate for the accommodation of all persons affected with the disease when it was at its worst? I think not. That was the time when work counted, and not calculation. I think one may rightly compare the situation to the Battle of the Marne.

Also of the persons in our municipality who lost their lives from the disease, was it because they did not get proper treatment either in home or hospital? This may have been true of other places, but I don't think the same could be said of this municipality. We must admit that while the disease was at its height patients did not get the same attention they would have received under normal conditions, but as a matter of fact in many places where conditions seemed most deplorable all went well. Many things could have been done that were not done, but under other such conditions would results have been better?

All of which is respectfully submitted.

E. BAKER, M.H.O.

#### MIDLAND.

T. J. Johnston, Esq., M.D., M.O.H.

H. R. McGill, Esq., M.D.

W. A. Glass, Esq. W. J. Thorburn, Esq.

D. L. White, Esq., Mayor.

May 2nd. A meeting was held, and, on motion of Messrs. Glass and Thorburn, H. R. McGill was appointed Chairman.

A discussion occurred as to ways and means for a general cleaning up of the town. May 9th. Newspaper advertisements and posters were issued advising and instructing citizens to clean up their premises.

Oct. 12th. The Board discussed the Spanish Influenza epidemic and ways of com-

Oct. 15th. The Board prohibited all public meetings and ordered all public places closed until October 26th. This prohibition was continued until November 10th, when churches were permitted to hold services, and other prohibited places allowed to open

Oct. 18th. The Regent Street School was opened as an Emergency Hospital, and kept open until November 7th. Sixty-six patients were treated, with a total of 354 days' attendance, and 18 patients died from influenza and pneumonia, a recovery of 73%.

The Provincial Board of Health supplied a number of students who did excellent

work in the Emergency Hospital and with the resident town practitioners.

W. H. Russell had charge of the Emergency Hospital and was paid \$15.00 per day. J. D. Kinsman, G. O. Macdonald, and Guy Hanley were paid \$10.00 per day, and their work was much appreciated.

A Distribution Kitchen was opened to supply patients in their own homes with necessary food that they were unable to prepare for themselves. Many citizens cooperated, and nearly 500 families were supplied at a cost of \$231.42.

Nov. 25th. Board met and ordered accounts of \$2,431.42 paid.

The whole cost of the Emergency Hospital and other expense connected with the epidemic was \$2,500. The number of deaths in the municipality caused by the epidemic was 74 from the 8th October to the 23rd November. After that date there were not many cases and few deaths.

Dec. 19th. The Board met and discussed the recurrence of the disease, and decided not to take any action, as there were few cases, and those well controlled by the doctors

in charge.

T. J. Johnston. M.O.H.

# MOUNT FOREST.

GENTLEMEN.-The Local Board of Health for the Town of Mount Forest beg leave to report on matters affecting the health of the town for the year 1918.

The total number of deaths in the town for 1918 to date were 25.

12 over sixty years of age.

7 over thirty years of age.

3 under one year.

3 between 30 and 20 years of age.

The rules and regulations of the Board have been fairly well respected during the year.

The citizens generally seemed well disposed and willing to keep their premises clean. There has been very few cases of contagious disease in town during the year.

We have had the water properly inspected, and also the milk, all of which has given general satisfaction to the ratepayers: in fact, we have had very few complaints, considering the amount of sickness there has been in the town from influenza, etc.

WM NICHOL

Chairman Mt. Forest Local Board of Health.

#### NORTH BAY.

To the Chairman and Members of Board of Health.

GENTLEMEN.-Permit me to submit my sixth annual report as Medical Officer of

Health of the Municipality.

The number of communicable diseases reported this year was 41, as against 72 in 1917 and 112 in 1916, a very marked reduction. Influenza is not a reportable disease, and so had no definite knowledge as to the number of cases. However, I will deal with this more fully later in the report. These cases were apportioned as follows:

					1	917
Measles		cases	0	deaths	19	cases
Scarlet fever	5	**	2	6.6	0	**
Diphtheria	10	.4	0	"	35	"
Typhoid fever	5	64	0	"	3	44
Tuberculosis	1	44	1	66	5	44
German measles	1	66	0	"	6	64
Chicken-pox	4	44	0	64	4	4.6
	41	"	3	44	72	66

Vital Statistics to December .-

		1917
There were:	Deaths, 165 (males 87, females 74).	163
	Births, 343 (males 150, females 193).	332
	Marriages, 50.	91
	Population, 9.500.	

The deaths mostly took place in October and November, being 76, or 45% of the total number. There were 15 Still-births, Pneumonia 61, Heart disease 16, Accidental deaths 7, Dlarrhæa and Enteritis 25, other variable causes 37.

Communicable Diseases.-There was a very material reduction in the number of such during the year, registering 41, as against 72 in 1917. This is a very satisfactory state of affairs, as we practically had no epidemic this year, apart from the influenza outbreak, which was non-reportable. The Measles cases were isolated, sporadic cases which came from outside sources, or from Toronto or other places where we knew they were exposed.

Scarlet Fever existed in a similar way, and practically all in one family. The two cases that died were of a very malignant type, the children rapidly succumbing to the disease. The disease was traceable to outside sources.

Typhoid Fever.-These cases were brought in from outside, and some of them treated in the local hospital.

Diphtheria.—Ten cases existed, as against 35 last year, and were scattered through-

out the year and did not occur in groups or epidemic. There were no deaths. Tuberculosis.—But one case was reported to us, and it would appear that the law is

not being observed as it should. One death occurred, and it was not the case reported, as she was removed to Montreal by her husband on my advice. At the same time,

there is a gain here as against five cases reported in 1917, and seven in 1916.

Influenza Epidemic,-During October and November, the influenza pandemic, which has been sweeping over the civilized world, reached our town. This socalled "Spanish Flu," from the belief that it first began in Spain and spread from there into the armies of the Central Powers and the Allies as well, rapidly spread all over Europe and soon reached America by transports and caused a loss of 350,000 lives in the United States since September 15th. In Ontario the statistics are very incomplete and, based from undertakers' returns, show 3,105 deaths were reported during the month of October and 2,608 in November, or 5,623 for the two months. The disease rapidly spread in our town, and with the numerous cases coming in from the lumber camps and surrounding country, the local hospital was quickly filled to capacity and necessitated the local Board of Health taking action. Special meetings were convened and a resolution passed closing the schools, theatres, churches, pool-rooms, as well as arranging for further hospital accommodation. The Elks Club Rooms were offered and gladly accepted and equipped with beds, but in a few days these were exhausted and necessitated our getting larger quarters. This was solved by the generous disposal of the Club Rooms of the Knights of Columbus. Here some twenty-five beds were filled and met the pressing situation. In this connection I should like to bear testimony to the splendid response made by the ladies of the town to the call for help in nursing the patients. The ex-graduate nurses stepped into the breach and, ably assisted by volunteer workers, handled the situation with energy, efficiency and ability. Only one graduate nurse was paid, the night superior, all others giving their services gratuitously. Many lives were undoubtedly saved through the instituting of the Emergency Hospital.

There were at least 300 to 500 cases of influenza during the epidemic, an exceedingly small number as compared with other towns and cities. We had 52 deaths during October and November, of which 17 were cases brought in from outside points for treatment, leaving 35 deaths in a population of nearly 10,000, which was an extremely good result, when it is compared with the general result for the Province. We anticipate that cases of this disease will be forthcoming throughout the year, as the unexposed population come in contact with convalescents, carriers, or people sickening with the disease. At the same time we do not look for an epidemic such as we have passed through. The inoculation with vaccine supplied by the Provincial Laboratories assisted in immunizing a good many people, and undoubtedly assisted in preventing the spread of the disease. My own personal observation bore out the fact of its value, for I saw practically no cases occurring among those who had been sufficiently inoculated.

Water.—The water supply has been checked up regularly by samples being taken monthly and sent to the Provincial Laboratory for analysis. During the earlier months of the year these samples were satisfactory, but beginning with April samples of the water showed contamination with bacteria of intestinal origin in varying amounts; even the September specimen showed infection in as small amounts as 5 c.c., and once as low as 1 c.c. Our November samples, however, were entirely satisfactory. Constant, frequent samplings are necessary to bacteriological control. It is evident that no typhoid carriers have been around, or we would have had an epidemic. The destruction of the Pump House by fire brought up the question of its removal to a more suitable site, and the Town Engineer's report in this matter was a very thorough and painstaking document. The Council were wise in repairing the old building and equipping it with the necessary turbines and machinery, in view of the war situation at that time and the very prohibitive cost. Its removal to the site was a wise procedure, however, from the point of view of a pure water supply.

Sewers.—Very little work was done this year, save some lateral extensions and the completion of the trunk sewer to Sherbrooke and Worthingon Streets. The extension of this system to the Wallace Park district, as outlined in previous reports, we hope will be undertaken next year or at some future date. Authorization of lateral extensions of the present system on Bloem and McIntyre West Streets were made.

The removal of night soil has been regularly carried out by the present contractor, Mr. Vachon. There have been many complaints during the season as to the service, but they were readily and cheerfully attended to. The disposal of the excreta into the town's sewers has been carried out during the year when it was possible. This has removed all sources of complaint from Widdifield residents and Council, and has proved a most excellent sanitary measure, as it has removed an open source of fly infection, which, so long as it remained, gave us constant cause for concern. The local dump has been watched carefully by our scavenger drivers, and a continuous fire has been maintained there. Yet this still remains a problem that can only be solved by a modern incinerator, which we have previously drawn to the attention of preceding Councils.

Milk and Dairy Inspection.—We have had the plants of the producers and vendors inspected and samples taken, examined for butter fat and dirt by the sedimentation test. All were passed as to cream content, but the samples contained a variable amount of dirt from time to time. The price of milk was advanced to fifteen cents a quart and we feel such a price warrants a clean article. The great scarcity of supply, however, and the difficulty the producers have in getting adequate labour, has induced us to a greater degree of leniency than in pre-war times. The full enforcement of the by-law would have worked hardships on both producer and consumer. Pasteurization is the next best thing, and I am convinced that this should be done in the interest of the conservation of child life. A recognized authority stated at the Hamilton Convention of Health Officers and Public Health Workers this spring, that 25% of the tuberculosis in children under five years of age was due to milk, which is absolutely

preventable. At the present time about 40% of our milk supply is pasteurized, and no great hardships would be entailed to compel the balance to be similarly treated and made safe for children, who are so susceptible to tuberculosis of bovine origin.

Applications for license were received from 21 parties and granted to the following:

G. C. Smyth, No. 50, North Bay. J. Sabourin, No. 51, Widdifield. D. McBeth, No. 52, Widdifield. J. Hogan, No. 53, Powassan. Mrs. R. Leach. No. 54, Widdifield. W. F. Clark, No. 55, Powassan, E. Eloy, No. 56, Widdifield. J. K. Purdon, No. 57, Powassan: J. B. Leach, No. 58, R.R. No. 1, Verner. L. Besserer, No. 59, Widdifield. C. Johnston, No. 60, North Bay, F. E. Longhurst, No. 61, Widdifield. Jno. Perry, No. 62. Ferris. Geo. Thorne, No. 63, Widdifield. Mrs. W. Howse, No. 64, North Bay. T. A. Bebee, No. 65, Ferris. Mrs. S. Simms, 66 North Bay. Mrs. H. Stevenson, No. 67. North Bay.

Public Health Nursing should be taken up by the Board next year. By this we mean that a full-time graduate nurse trained in Public Health work should be employed. Her business would be in visiting the schools and assisting the teachers in matters of hygiene, ventilation and the inspection of the children, in so far as she is qualified. for communicable diseases, infections and the material assistance she would be in epidemics in preventing its spread, etc. The child-welfare department presents a large field for her activities. The conservation of child life cannot be over estimated in importance to this country and the British nation, since the enormous and excessive losses due to the war, which must be replaced by the greater safeguarding of the child. The health nurse, by regular visiting and giving advice in the care, feeding and handling of children, the calling in of the family physician early and in ample time, will surely save many lives which would otherwise pass off the scene of action, martyrs to ignorance and wilful neglect. Too many children are lost because of ignorance and procrastination. They leave the child so long that a physician is called in only in time to certify to cause of death, whereas a Public Health Nurse would visit these homes shortly after the birth of the child and by advice and supervision from time to time prevent the mother from neglecting the babe, as well as giving it foods and drugs which can only do the child harm. We believe this would be an investment to our town and country which would pay enormous dividends, and we bespeak to the Town Council of 1919 the hearty endorsation of this proposal.

Conclusion.—The work of the Board this year has been conscientiously looked after by the members, all endeavouring to take a live interest in the matters brought before them. During the year Mr. Tandy, a member of the Board, was made Sanitary Inspector, his previous experience on the Board naturally assisting him in carrying out his duties. He has proved efficient, active and painstaking in his duties, and has materially assisted inveslf in enforcing the regulations and effecting quarantine whenever needed. Mr. A. R. White, Provincial Sanitary Inspector, and Dr. W. E. George, District Medical

Officer, have co-operated with us and advised with us as occasion demanded.

All of which is respectfully submitted.

Yours truly,

EDGAR BRANDON.

Medical Officer of Health.

NORTH BAY, ONT., December 10th, 1918

To the Chairman and Members, Board of Health, North Bay, Ont.

Gentlemen.-I herewith submit report as Acting Secretary of the Board of Health for 1918:

The following gentlemen constituted the Board of Health at the beginning of the year: A. Tandy, J. Fallon, T. Wallace, Mayor Patton, and Dr. E. Brandon, M.O.H. In

June, the Sanitary Inspector, T. Whitehead, resigned, and A. Tandy was appointed to this position. As Mr. Tandy was acting as chairman, this created a vacancy which was filled by Mr. Thos. Wallace.

Fifteen meetings of the Board were called, six of these meetings being special meetings called to consider ways and means of combating with the influenza epidemic.

#### SEWERS.

This has not been a very busy year for the construction of sewers. A continuation of the 30-inch trunk sewer of 97 feet has been completed on Sherbrooke Street, which will greatly relieve the situation arising from nuisances from overloaded sewers in that part of the town.

A length of 10-inch sanitary sewer, 435 feet, has been constructed on Third Avenue, from Cassells to Fraser Street. The Council are also taking over a section of sanitary sewer on Worthington Street, from Sherbrooke to Fisher Street; and have asked for and obtained the necessary approval for the construction of the sanitary sewer on Bloem Street, which, when constructed, will relieve a most unsanitary condition existing there.

Much yet remains to be done in the construction of sanitary sewers, the most important of which will be placed before the Council as occasion demands.

#### PLUMBING.

Very few applications for plumbing work have been received this year. Thirteen in all applied, and permits granted, as work was in accordance with by-law. The work was duly inspected and carried out in a satisfactory manner. My estimate of the cost of the work done is \$6,000.00.

#### COMMUNICABLE DISEASES,

Very few cases of communicable diseases have been reported this year, the number being the lowest on record for some years, outside of the epidemic of influenza, which visited us in October and November, but which now appears to be dying out, as very few cases are being reported. No doubt the Medical Health Officer will have a full report regarding this epidemic.

The number of communicable diseases reported during the year is as follows:

Measles	0 death:
Scarlet fever 4 "	9 11
Diphtheria 5 "	0
Chicken-pox	0
	1
Typhoid fever 4 "	() ··

all of which were duly quarantined, and premises disinfected when released.

#### GARBAGE SYSTEM.

Our equipment of one team of horses and large wagon, which operates under the Scavenger By-law, makes collections of garbage and ashes from stores and private residences when required. A charge is made for collection on a monthly basis, the charge ranging from 70 cents per month for private residences to \$5.50 per month for hotels, the number of customers on the books at present being 129. In addition, barrels or cans of garbage are collected at a charge of 25 cents; the whole would produce a revenue of \$1,800.00.

In addition to this, the team collects the sweepings from screets, garbage from fire hall, manure from stables at fire hall and market, and deposits ashes from blocks, etc., on streets at the direction of the Town Engineer.

The present method of collection does not appear to be a satisfactory one, as there are a large number of houses who only get an occasional collection, and the fact remains there must be some garbage or refuse that should be taken away. It appears to me that the best way of taking care of this part of the system would be to have the scavenger work covered by the taxes. We would then be in a position to clean up when and where it would be required.

The dumping ground has been visited on several occasions, and is in fairly good shape, considering our present system, there being a number of persons who have their garbage taken to the dump by carters, who do not go to the trouble of depositing same at the proper place, but drop it indiscriminately over the ground. If the town collected the whole, this would be obviated.

#### NIGHT SOIL COLLECTION.

This work is operated on a contract basis, and is let to Mr. J. Vachon, who holds a contract for one year from May, 1918, to April, 1919, at a cost to the town of \$260.00 per month, which is an increase of \$5.00 per month over last year. Ten per cent. is deducted for the first three months, and five per cent. for the balance of the year, as a guarantee of fulfilment of the contract, said holdback to be paid when contract expires.

Between the first day of April and the first day of December, the night soil is disposed of by emptying into sewer manhole on Regina Street, and the balance of the year by taking it to the town dumping ground.

There are some 800 outside closets yet in the town, and, according to contract, the collection from these should be twice monthly, or oftener should occasion require it. In addition to this, the contractor has to collect night soil from Trout Lake once every three weeks, under an agreement entered into by the Town and the Township of Widdifield.

We have had far too many complaints regarding the service this year. Quite a few have had reasonable cause for complaint; others, on investigation, have not just cause, as, in the case of large families, two pails should be provided. However, I must credit the contractor with giving attention to the complaints as soon as possible after report.

I would recommend that all cans be of one standard size for the future: this will make it easier for the exchange of cans when emptying in winter. A considerable number of pails will be out of commission this winter, and it will be necessary to purchase at least 250 new cans to replace those worn out.

## WATER SUPPLY.

We have had very little trouble with our water supply, as far as the analysis is concerned. Samples have been sent to Toronto monthly for examination, and, with the exception of the month of September, the analysis was normal. The samples taken in September contained colon bacteria.

#### Datries.

The usual visits to dairies have been made, and several improvements in conditions have resulted, but owing to the shortage of labour on farms, etc., the Board has not taken any drastic measures this year, but has had due regard to the manner and cleanliness in which the milk supply is handed to the consumer, it being as sanitary as possible.

The tests made for butter fat and sediment show that, while the sediment test is fairly comparable with former years, there is a lower average for butter fat, no doubt due to the higher cost of feed, etc.

#### MEAT MARKET.

Since taking up my duties, the market has been visited on every market day. The quality of the produce offered for sale has been, generally speaking, fair to good. On quite a few occasions the meat market has been overcrowded with farmers selling meat, leaving very little room for customers. It is very certain that present conditions will have to be altered, as the practice of customers handling the meat before purchase will have to be stopped, and, if the market is to remain, larger premises will have to be secured, so that the meat can be handled in a sanitary manner. My suggestion for the guards to prevent the handling of meat was not carried out by the Council.

A rough summary of the work performed by myself would be: Plumbing inspections 26; served 150 notices: adjusted 100 complaints; received and answered 50 letters; made two personal visits with garbage men to check up service. Fixed all accounts in ledger, made out and posted up 400 accounts, and collected some \$700 from customers. Made records of all complaints received; recorded Vachon's reports from commencement of year.

In conclusion, it is my wish to thank the Board and the members of the Council for their liberal support during the period of my service. I am also grateful to the Provincial officers, Dr. George and Mr. Alex. White, for the practical help rendered me in the discharge of my duties.

# Yours truly.

#### ORILLIA.

GENTLEMEN,—I have the honour herewith to submit my annual report for the year 1918,

The year has been comparatively free from the usual contagious diseases, such as smallpox, scarlet fever, mumps, chicken-pox, whooping-cough, etc., of which no cases have been reported. Diphtheria has prevailed to the extent of 7 cases, confined to 5 households. The origin of these cases was traced to outside sources, and in no instance was the disease communicated to other parties in town by those affected, so strictly were the quarantine regulations observed. A few cases of typhold developed, and were nearly all caused by the drinking of well water.

The number of contagious cases reported to me during the year were: Diphtheria 7, no deaths; typhoid fever 9, no deaths; measles 5, no deaths; infantile paralysis 1, one death.

This year the country has been invaded by a hitherto unknown disease, which has received the name of "Spanish Influenza." It has proved the most contagious or communicable plague known in modern times. As soon as it made its appearance in Orillia the schools, churches and all places of public entertainment were closed, and all public assemblies prohibited. Knowing that the General Hospital could not afford the amount of accommodation that would be required, a committee of Council was appointed at the request of the Board of Health to secure a suitable place for an emergency hospital. The Board of Management of the Orillia Methodist Church offered their Sunday-school room for that purpose, and it was accepted. A number of ladies immediately offered their services to put the place in order, and inside of twelve hours they were ready to receive patients. The Presbyterian Sunday-school room afforded splendid facilities for cooking, and food was prepared and supplied, not only for the hospital patients, but for a large number of families in different parts of the town who were stricken by the plague. Fifty-seven patients in all were admitted to the hospital, and out of that number only nine deaths occurred, a splendid record, knowing that only the most severe cases were brought there. The courageous women and girls who, at the risk of their own lives, volunteered to nurse, not alone at the hospital, but at the homes of those seized by this dread disease, should receive our sincerest gratitude. The whole number of cases in town, up to the present time, amounts to upwards of 1,300.

There are three things that are closely linked to the sanitation of the town and the health of the people, viz.: the water supply, the milk supply and the sewer system. In order to secure a pure supply of water a filtration plant was installed, and it was fully expected that it would serve the purpose. But it has been found that while it removes dirt and foreign matter, it does not destroy the active bacilli which produce disease, so chlorination is resorted to, and that provides water that is perfectly safe to drink but that does not agree with many people's palate. It is found that Tannery or Slaven's creek, the boathouses, and the privies and bathing-houses of Couchiching Beach Park, and leaks in the sewer line, are largely responsible for the pollution of the water in the lake. It is also known that the mouth of the intake pipe is so situated that it receives a portion of the drainage from these sources. So you can easily understand why chlorination is necessary. However, the Water, Light and Power Commission are working overtime to devise and execute plans that will effectively remove this danger.

A year ago the Town Council enacted a milk by-law which raised the percentage of butter-fat and required better methods of delivery. In company with Chief Reid, I made an inspection of the dairies supplying milk to the town. On our first visit we found a lack of cleanliness and overcrowding that were very disappointing. After pointing out the requirements of the Statute and by-law, we asked the owners to make an honest effort to comply with the law and remedy the unsanitary conditions. A second visit showed a commendable improvement from the standpoint of cleanliness, both in the animals and stables, but overcrowding still existed. A third inspection revealed a fairly satisfactory condition of affairs, only for the overcrowding, which it was impossible to change at that time. Tests were made of samples of milk at regular intervals, and in the majority of cases the amount of butter-fat was up to the standard. A few samples showed a deficiency. After repeated warnings, and no heed being paid, the Inspector instituted legal proceedings against the delinquents, who were given the benefit of a doubt regarding the accuracy of the test, and in that way escaped being penalized. But I wish to assure the consumers of milk that we shall not relax our efforts to secure a pure and wholesome article for them.

The sewer system has not been working satisfactorily, the trouble being at the pumping station on Queen Street, and leakages in the line between that point and the disposal works. The chairman of the Sewer Committee has employed several engineers to correct these defects, and their efforts have met with some success. But the pump still persists, occasionally, in acting obstreperously and discharging the contents of the station into Tannery creek, thereby polluting the lake, and the old pipe

on West Street is determined to let people know of its existence. The Council has taken the matter into their serious consideration, and no doubt a satisfactory solution will be discovered, not requiring too heavy an expenditure.

We have not attempted to enforce the by-law requiring everyone whose property abuts on a street having a common sewer to connect therewith, owing to the scarcity of competent labour to do the work. Now, as labour is more plentiful, the work should be done as soon as possible.

During the year I had to deal with many complaints regarding cesspools, privies,

drains, etc., but an admonition was sufficient to set matters right.

All of which is respectfully submitted.

John McLean M.D Medical Health Officer

#### OWEN SOUND.

GENTLEMEN.—In accordance with the requirements of the Public Health Act, I herewith submit to you the annual report of matters pertaining to the public health of the municipality for the year 1918.

. Had it not been for the recent influenza epidemic the town would have had rather a

light year so far as contagious diseases were concerned.

During the year eighteen cases of typhoid fever were reported. Six of these were in one house. Several of the cases were contracted elsewhere and were only treated in Owen Sound. But one death directly due to typhoid was reported, while one other case developed influenza during a protracted convalesence and died.

The town water supply has been regularly tested at the Provincial Laboratories and the reports have been almost uniformly good. The Public Utilities Commission with the assistance of Mr. C. J. Pratt have done all in their power to give the town a pure

water supply.

The source of the typhoid originating in town was not discovered.

An outbreak of diphtheria threatened early in January, but with the aid of the school nurse an active inspection of the schools was made, a number of diphtheria carriers were located and isolated with very gratifying results. No active cases developed. In September there was another scare, but the disease was confined to one house, but here I think it but proper to highly commend Miss Beaton, the school nurse, for her energetic and intelligent work, which undoubtedly aided materially in preventing the spread of this dreaded disease.

At the annual convention of the Provincial Health Officers' Association, which met in May in Hamilton. I presented a paper dealing with the subject of Diphtheria Carriers,

which was well received and produced a good deal of discussion.

Early this fall there were quite a number of cases of whooping-cough. In a number of these cases the whooping-cough vaccine was used with very good results. The vaccine is provided free by the Provincial Board of Health and I think it should be generally

used both as a preventative and curative agent.

During the first week in October influenza arrived in full force and raged for about six weeks. The Health Act does not require these cases to be reported, so that I can only estimate the number of cases: I should judge there were about two thousand. There were twenty-one deaths, which is a large number and to be regretted, as it was the youth of the municipality which was taken—yet the number of deaths was much smaller than in many other places of similar size. All places of public gathering were closed for some time and the public was warned through the press of precautions to take. Whether these measures helped I cannot say, but certainly Owen Sound did not pay as heavy a toll as many other places.

The influenza vaccine was used to a certain extent, but statistics are not available to show the results. However, I think I am safe in saying that it afforded a measure of protection. I know of homes where, with one case in the house, the vaccine was used on the other members of the household and no more cases developed, but this statement could also be truthfully made where no vaccine was used, so that, I say, we do not yet know the real value of the vaccine; but I think it worthy of a trial. As previously announced, it is supplied free by the Provincial Board of Health and may be had by

application to the family physician.

The local Board of Health were not put to any great expense by the epidemic. It was necessary to supply nurses in a number of homes, some of whom were paid by the Board. However, there were a great many who gave their services voluntarily, including a number of the public school and collegiate teachers, while these institutions were

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closed. The thanks of the Board are due to all those who assisted in this time of need. Aid was offered from the Provincial Board by way of nurses and doctors.

There are still a number of new cases every week, and no doubt there will be all winter, so that it behooves those who have not already had the influenza to take precautions.

The scavenger work has evidently been fairly satisfactory during the year, judging from the few complaints received. All complaints were referred to Sanitary Inspector King, who had them remedied.

In the spring an effort was made to have the junk yards around the town cleaned up. Some work was also done to have manure pits properly protected and cleaned. There were no doubt some good results from the above efforts, but there is still room for improvement. The work should not stop until every stable in town has a properly constructed, fly-proof manure pit as required by the regulations of the Provincial Board of Health, as flies are beyond a doubt great carriers of disease.

The slaughter houses have been duly inspected and for the most part found in a

fairly satisfactory condition.

Dr. Norton has made the spring inspection of all the premises and cattle of the milk producers whose names have been supplied by the local milk vendors. I have had notices sent to all these producers to clean up for the fall inspection. Dr. Norton has not yet completed this inspection, so is not able to report as yet. His report will have to be dealt with at a later meeting of this Board. Attached is a copy of the notice sent to each producer.

I think provision should be made for the inspection of the premises of the small vendors,—those who have but one or two cows. While they supply but a few families, it is just as important that they should comply with the requirements of the milk by-law. You have already taken steps to see that these small vendors apply for a license. You will probably have to pay the Inspector more money to have this extra work done, but it should be done to protect all milk users, and out of fairness to the larger producers and yendors.

Mr. King has made the usual tests of milk supplied by the large vendors and attached to this report you will find a table showing the average of the tests made.

The war is over. Dr. Murray, the M.O.H., will, we trust, soon be back, and believe me, for several reasons I shall be very glad to welcome him home. Doing his bit in this war has meant a great sacrifice on his part—knowing this we must honour him. I have done my best to keep the work going in his absence, and I want to thank you, as a Board, for your co-operation and assistance. I also want to say this—you should offer Dr. Murray a handsome increase in his salary. The work that devolves on the M.O.H. of a town this size is a heavy task and should command a much larger salary. I trust the Board will consider this on Dr. Murray's return.

Again I thank you for your help during the three years I have been Acting M.O.H.

All of which is respectfully submitted.

A. B. Rutherford, Acting M.O.H.

# MILK TESTS, 1918.

Vendor.	Fats.	Solids other than Fats.	Total Solids.
W. C. Barber L. Kivell O. S. Dairy Co. R. J. Walters	Per cent. 3.80 3.87 3.67 3.80	Per cent. 8.21 8.43 7.86 8.50	Per cent. 12.01 12.30 11.53 12.30

The Milk By-law requires not less than  $12\frac{1}{2}$  per cent. total solids of which the fats shall not be less than  $3\frac{1}{2}$  per cent. It will be seen that all the vendors were above the minimum of fats, but none were up to the requirement in total solids. There were a number of complaints as to the quality and cleanliness of the milk, but I believe the vendors made an honest effort to supply as good milk as possible, obtaining it, as they do, from a great many sources.

#### PORT HOPE.

GENTLEMEN,—I have the honour to present to the members of the Council of the Town of Port Hope my report on the work of the Board of Health for part of the year 1918, together with the reports of the Medical Health Officer as given to the Board.

During the short time which I have been chairman, in company with the Medical Health Officer I visited several of the dairies from which our town obtains its supply of milk. And I found them in good condition and all that could be desired in the way of cleanliness and equipment. The water supplies were good and the herds were among the best in the district. The one milk house that I saw was clean and very satisfactory. On our trip we inspected one slaughter house and found it in fair condition, and on the premises was a well equipped place for storing and preparing meat for market. And this butcher promised to build a new slaughter house in the near future. On this inspection trip I was pleased with what I saw, and intend if possible to see more of the dairies and slaughter houses.

The matter of having bread wrapped in paper so as to protect it from dust and dirty hands during street delivery is a question, it seems to me, that might be dealt with by the council, if they think well. I understand the council may enact a by-law requiring that this be done. And if they pass such a law I am sure it will meet with the approval of the Board of Health. Recently I heard of a case where a child when drawing some unwrapped bread loaves in a cart, accidentally upset the cart on a muddy street crossing, and I am sure the loaves did not lose in weight or gain in whiteness through what happened.

Complaint has been made to us that the anti-spitting by-law is not enforced. All we can say to this is that the Board of Health is anxious to see this law enforced. And, moreover, the members of the Board are anxious to see all the sanitary by-laws observed, as these laws are intended to protect our citizens from ill-health and disease.

Yours truly,

Chairman, Board of Health.

# ANNUAL REPORTS, 1918.

On the work done during the year 1918 I have prepared the following reports, viz.:—Inspection of Victualling Houses.
Inspection of Slaughter Houses.
Report of Communicable Diseases.
Report on Child Welfare.
Inspection of Milk and Dairies.

#### REPORT ON THE INSPECTION OF MILK FOR 1918.

Regular inspections of all the dairies supplying the Town of Port Hope have been made during the year.

In order that the Chairman of the Board, Mr. Outram, might see for himself the condition of some of the dairies and slaughter houses he accompanied me on one of my inspection trips. Mr. Outram made some good suggestions in regard to several places which were visited and his advice was very helpful to me. He was able to get a good idea of the conditions under which our milk is produced—a much better idea than could possibly be obtained from a written report. At the first opportunity I am sure that Mr. Outram will tell the Board what he thinks of some of the dairies and slaughter houses which he visited.

Following gives the monthly average of all the samples tested for percentage of butter fat during the year, viz:—

December	3.52	June	3.29
January	3.44	July	3.23
February		August	
March	3.42	September	
April	3.27	October	
May	3.20	November	3.40

The yearly average for each of the large vendors is as follows, viz.: W. J. Highfield, 3.40; James Sinnott, 3.41; T. W. Philp, 3.24; W. C. Hugh, 3.28.

Some fifty examinations were made with the dirt sediment test, and a number of these dirt sediment discs have been kept for future reference. In any case where the milk examined showed the least trace of dust or dirt, the vendor was told of the fact. But we are pleased to say that all the samples examined were found to be clean, wholesome milk.

The tests for butter-fat and dirt sediment and the particulars of the inspection of the dairies have been obtained for the benefit of the milk consumers of Port Hope, and the details of these examinations will be shown to any milk user who asks for them. And if a householder finds that the milk he receives is in any way not satisfactory, complaint should be made to the milk inspector, when every care will be taken to investigate and remedy the matter. This is the only way that the individual consumer can be safeguarded.

In the hot months of the summer, even with the greatest care, occasionally a bottle of milk may turn sour, but it is not possible for a health officer to prevent every accident such as this, especially when he has had little or no help from the sanitary inspector.

#### COMMUNICABLE DISEASE .

There have been reported during the year thirty-five cases of communicable disease, as follows, viz.:

Pertussis	10 cases.
Measles	6 "
Rubella	3 "
Diphtheria	5 "
Tuberculosis	4 "
Epidemic parotitis	4 ''
Paratyphoid	2 "
Typhoid fever	1 "

It will be noted we had only three cases of typhoid in the past year, and two of these were brought to the town, and the third patient was most probably infected while out of town. This says much for the health of the municipality and the purity of our water supply.

At the last session of the legislature an Act was passed making the notification of venereal disease compulsory. And when a report of one of these is received a record is made, and each week the particulars are transmitted to the Provincial Board of

Health, so that a statement of these cases does not appear in this report.

During the month of October many citizens were ill with influenza. The epidemic came suddenly, and in the space of three or four weeks had almost run its course, when it subsided nearly as abruptly as it had come. There is no way of judging the number of persons who were ill, as influenza is not one of the notifiable diseases, and, moreover, many were only very slightly ill, and these did not seek medical aid. The first case admitted at the Port Hope Hospital was on October the first, and the second case was received on the sixth day of October. The majority of those who were quite ill were between twenty and fifty years of age. In every case where death resulted it was brought about through some complication, such as pneumonia.

Our death rate was very low, and is probably as low as any place in the Province of Ontario. The death rate in thirteen Canadian cities and five United States cities, as published by the Provincial Board of Health, is in some cases as much as eight

times that recorded in Port Hope.

Many different preventive measures have been tried, such as inoculations, the use of face masks, the prohibition of public assemblies. The governments of Great Britain, France, the United States and Canada have between them spent many millions of dollars in medical aid and in investigating the cause and treatment of the disease, but as yet no really effective preventive measures have been devised.

# INSPECTION OF SLAUGHTER-HOUSES.

The slaughter-houses have been regularly inspected during the year, and it is gratifying to be able to say that from the time they were first visited some years ago there has every year been a steady and marked improvement in their condition. There is no longer any serious violation of the law to be seen, and all the places visited were in very good condition, viz.: W. C. Greenaway, Lorne Giddy, C. Hutchings, George Perrin, Gardiner Brothers, Thomas Roberts.

At three of these places extensive improvements have already been made, and another butcher is now engaged in building an up-to-date establishment of cement blocks. This slaughter-house will doubtless be one of the best when it is finished.

Another butcher has recently bought some land on which he intends to build in the very near future. He has already a splendid place for cutting up carcasses and a large refrigerator.

Another butcher is engaged in getting building material ready for the spring. Some of the butchers have been a little slow in erecting new buildings, but all have been making important alterations and improvements.

#### CHILD WELFARE.

Under the auspices of the Bureau of Child Welfare, a baby clinic has been started at the Port Hope Hospital.

The Bureau of Child Welfare has for its object the saving of babies' lives and the rearing of healthy children. It is a department of the Provincial Board of Health, and Miss Mary Power is Director of the Bureau.

The work takes in all children up to six years of age—those who are too young to

attend school.

On certain days in each month mothers are invited to take their children to the clinic, and there they are carefully examined by the physician in attendance, and a record of this examination is kept on file. The particulars obtained in regard to each child are, viz.: name, address, age, height, weight, size of head and chest, nourishment given, condition of teeth, tonsils, eyes, ears, throat and nose, signs of disease or defects in any of the organs of the body, etc. Any defects or diseases that are found are noted on the record card. The parent is given such advice as is necessary on feeding, clothing, bathing, sleep, ventilation, exercise, care of eyes, etc., and in case any disease or defect be found the case is referred to the family physician for treatment. Pamphlets on the care of children and other literature, supplied by the Provincial Board of Health, is given to those who attend the clinics.

This important work was started in Port Hope on May 3rd, 1918, when some of the officials of the Provincial Board of Health gave a practical demonstration on the subject in the Town Hall. Previous to this date the members of the Port Hope Hospital Mission had made a systematic canvass of the town, and had obtained the name and address of every family where there were any little children. This index of names has been of great help at the clinic and to the visiting nurse. So that to Mrs. Edgar and the other ladies of the Hospital Mission must be given much of the credit for the

success of the undertaking.

Up to the present time about one hundred and twenty-five children have been examined at the clinic, and quite a number of these have attended a second or third time for further advice or examination.

The results of the examinations show that a number of babies were suffering from defects that required an operation in order to cure them, such as enlarged tonsils, adenoids, rupture, etc.

Others were found to be suffering from the ill-effects of feeding.

Some were unsuitably dressed.

Several ruptures were discovered which were readily cured by proper treatment. In a few cases a serious disease, which had not been suspected by the parent, was discovered.

For the success of the work much credit should be given to Miss Eliot, superintendent of the hospital, and the splendid staff of nurses at this institution. For several days before the time for the clinic, two of the nursing staff call at many of the homes where there are children. The nurse offers such advice in regard to the children as seems proper, and in case they see a baby that looks ill, the mother is urged to take the child to the clinic for more careful examination and advice. The nurse gets acquainted with the mothers, and this friendship helps very much in inducing the mother to accept the advice given at the clinics, and in this way much sickness and disease among the children is prevented.

The clinics continue about one hour and are held between the hours of nine and

ten in the morning. As many as fifteen children have attended at one time.

In the cities where these clinics are held many thousands of lives have been saved. In some districts the deaths among babies have been reduced as much as thirty-five per cent.; at the same time much sickness has been prevented and a healthier and stronger generation of children has been the result.

The work can and should be extended in Port Hope. All that is needed is that a little more time be given to the work, and that the Board of Health give their approval and encourage those in charge. Up to the present, the time given by the hospital nursing staff has been voluntary, and the cost to the town has been practically nothing, but we cannot hope that this will continue indefinitely. The Board of Health has authority to engage a visiting nurse, if they think well. And in doing this they will have the hearty support and approval of the Provincial Board of Health and the Bureau of Child Welfare. But I am of the opinion that a practical scheme could be worked out whereby the work might be continued and made permanent.

This child welfare work is one of the best ways that possibly can be devised for the prevention of sickness and disease among children, and any money spent in doing this work will be well spent.

It is well known that money spent in the prevention of illness is much more profit-

able than that which is spent in cure.

These few thoughts are offered for the consideration of the members of the Board of Health.

All of which is respectfully submitted.

Yours truly,

GEO. A. DICKINSON, M.O.H.

#### RENFREW.

GENTLEMEN.—I have the honour to submit to you the report on the sanitary conditions of the town, for the year December 1st, 1917, to November 30th, 1918.

There has been reported during the year, 16 cases of diphtheria, 8 cases chicken-pox, 2 cases of typhoid fever, 1 case measles, 3 cases scarlet fever, and 5 cases of mumps. There was a very decided decrease in the number of cases of communicable discases reported over last year.

The influenza epidemic, which has been universal, visited Renfrew and took a very heavy toll. Accurate figures of the number of cases are not available, as the cases were not required reported, but a fairly conservative estimate would place the number in the neighbourhood of 1,000. There were 67 deaths. The town is almost entirely free of the disease now, although sporadic cases are likely to appear during the next six months. It was early recognized that the disease was of a particularly virulent type and spreading rapidly, so an appeal for outside help (doctors and nurses) was made to the Provincial Health Department. They responded by sending us 13 nurses, and must be credited with doing all in their power to secure outside doctors, but evidently none were available. In addition, 20 nurses were secured privately. These, along with the town and hospital nurses, worked unselfishly and heroically and did an incalculable amount of good. Dr. Maloney, District Health Officer, was also on hand for three days, and gave valuable assistance in organization work. Various women's organizations of the town rendered valuable assistance. To all who assisted in any way in relieving a tense and pathetic situation we are very thankful. It was deemed advisable to close schools, theatres and pool-rooms for a period of three weeks. While expenditure in

connection with the epidemic was heavy, it was mostly in supplying nurses for the There have been a few complaints re nuisances, which have been investigated and

remedied.

The matter of proposed sewers on Gladstone Street and in the Plaunt Park sections has been gone into carefully and their construction urged and recommended. Mr. Dallyn, Dr. Maloney, Engineer and District Officer of Provincial Board, respectively, made visits to the town in this connection and met the Board and Council and gave valuable assistance and advice. It is hoped that construction of these sewers will not be much longer delayed.

Frequent water analyses show the town water supply to be bacteriologically pure, and now that an extra filter has been installed the continuation of a pure water supply

can be practically assured.

hospital and charity cases.

A by-law regulating the supply and handling of milk offered for sale in the town has been put into effect and has given good results, particularly in the decreasing number of cases of infantile diarrhea during the summer months.

During the year diagnostic outfits supplied by the Provincial Board of Health have been supplied to the local physicians, and the antitoxins, serums, etc., distributed by the Provincial Board of Health, free of charge, have been kept on hand.

The Isolation Hospital has undergone some improvements and is, along with the

equipment, in good condition.

During the year there have been 200 births and 144 deaths, compared with 177 and 74, respectively, last year. The increased number of deaths was due to the influenza

I wish to thank the Board and Sanitary Inspector for valuable assistance and co-operation during the year.

> Dr. J. J. McCann, Medical Officer of Health.

#### SANDWICH.

GENTLEMEN.—The Board of Health for the Town of Sandwich beg leave to submit the following report:

Following the usual custom, early in the spring, the Board of Health had the Sanitary Inspector visit all places where there might be any doubt of the sanitary conditions, and, where necessary, everything was put in sanitary condition.

Yards.—The work of keeping the yards clean was greatly assisted by the Council, who had notices published asking all residents to clean their yards and collect any and all rubbish so that it might be drawn away by the town teams, deposited and burned or disinfected with lime and covered over with earth.

Houses.—In one case the Sanitary Inspector visited a large boarding-house occupied by foreigners, had the mattresses burned and the place cleaned up, properly.

Hydrants.—The Board saw that the hydrants were properly flushed, particularly at the dead ends of mains.

Installing Closets.—The Board also took steps and compelled seven different property owners to connect their places with the sewer, and one of these was fined for not installing a closet as notified.

There are very few outside closets in town, but the few are so far from any buildings that they are no nuisance, while some are permitted by the Board as there is no sewer in front of the lot with which the premises may be connected.

Communicable Discases.—There were some forty-three cases of communicable diseases reported during the year, of which there were four deaths. These do not include influenza, of which there were eight deaths in town.

All the communicable diseases were very mild cases, with the exception of some four or five; and in the diphtheria cases, as many as four swabs were taken from one patient, in some cases.

When influenza struck the town, and became serious, the Board took steps to check the disease, closing schools, prohibiting public gatherings, and notifying parents to keep their children off the streets.

When persons were quarantined for smallpox, even the dogs in the neighbourhood were kept tied up for fear that, if loose, they might spread the disease.

Provisions were furnished to those quarantined, and the town paid the bills.

Meetings.—During the year there were ten meetings, but anything requiring immediate and prompt attention was taken care of by the M.O.H. giving orders to the proper official, without waiting for a meeting.

All of which is respectfully submitted.

W. J. Beasley,
Medical Officer of Health.
E. R. North,
Secretary.

#### TOWN OF SIMCOE.

The Chairman and Members of the Board of Health.

Sirs.—There has been an unusual number of contagious diseases during the past year, and, with the exception of smallpox, our town has been visited with every one of the so-called communicable diseases, the last three months ending in one of the most violent and serious epidemics in the history of the town, when Spanish influenza made its appearance. In the months of April, May and June, measles became very prevalent, 19 cases in all being reported, with no deaths. This number, of course, does not include all the cases that occurred, as some cases were not brought to our attention, partly through a desire to conceal it, and partly through the parents or others not fully understanding their duty to report such cases. Diphtheria was present in May, September, October and November, 8 cases being reported, with one death. Typhoid occurred in the late summer and early fall months as usual, but the cases reported were not many, but seven coming under notice. Two cases of spinal meningitis, with one death; one case only of scarlet fever being reported.

The usual number of cases of chicken-pox, whooping cough and mumps developed. These cases were isolated, and attendance at school prohibited where necessary. In the diphtheria cases, antitoxin was used promptly and in large doses to the patients as well as others exposed in the same house, for rendering them immune from possible attack. This measure, with strict isolation, no doubt prevented the dread disease from spreading. In all cases where quarantine measures were necessary, the Sanitary Inspector visited the houses once or twice daily, and the premises were thoroughly disinfected before the cases were released.

I attended the annual meeting of the Health Officers' Association at Hamilton, in May, and much useful information regarding public health matters was obtained. Much interest was taken in the Child Welfare branch of the Association, which has as its object the reduction of the enormous mortality rate of the first few years of child life, especially that of the first year, in which the mortality rate is the greatest. The proper care, feeding, cleanliness and good sanitary arrangements were the chief measures proposed to help in saving the great loss of infant life. This Child Welfare Association, which has branches all over the United States and Canada, has started out to save, this year, 100,000 infant lives, while it is stated that it is possible to save twice that many annually in the two countries that are now lost through improper food, bad sanitary arrangements and ignorance or neglect of the parents, and so forth.

Births.—There were 68 births during the year, 35 males and 33 females.

Deaths.—A very high rate of mortality is to be recorded this year, there being 76 deaths, as compared with 57 last year, this high rate being due to the influenza epidemic, some 20 deaths being attributed directly to this cause, but no doubt others were indirectly due to this disease. October claimed most of the victims, 14 dying during the month; November 2, and December 4. The oldest person was 47 and the youngest one year.

The causes of death were as follows:

Accident Abscess Cancer Cholera infantum Convulsions Diphtheria Epilepsy Fracture	1 3 2 1 1 1	Pelvic cellulitis         1           Hæmorrhage         2           Senility         4           Apoplexy         3           Nephritis         6           Meningitis         1           Indigestion         1           Influenza         20
Heart disease	7	Suicide
Still-born		Disease of gall bladder 1

Samples of water were taken from a number of wells to ascertain the source of disease, but none were found in a very bad condition. Tap water was also analyzed and found each time to be in a good state of purity. Milk samples were also forwarded for analysis at various times, which proved satisfactory, with a few exceptions. No preservatives were found, percentage of butter fat up to the standard, and bacterial count under the shipping conditions not very reliable. The milk supply of the town at present is under one management, viz., The Simcoe Sanitary Dairy. This firm is deserving of much praise for their enterprise in installing a pasteurizing plant at considerable expense and study. The process of pasteurizing milk renders it one of the healthiest forms in which this very important food product can be used, but the process of treating milk in this way entails, of course, considerable extra expense, and were this enterprise encouraged by public recognition in some form, such as an annual bonus. it would help to ensure the process being maintained, as well as to give the Board of Health freer access for inspection purposes, and will thereby furnish a guarantee for this brand as against the raw or untreated and less healthy milk. Some of the dairy farms that were inspected were found to be in a first-class sanitary condition, with clean basins and towels, with good facilities for cooling the milk, and the stables in a cleanly state, etc., and others again much neglected in this way. As the sources of the milk supply keep changing, in some instances it is not possible to keep them all under satisfactory inspection.

The annual notices for spring cleaning were distributed to each householder. together with literature issued by the Provincial Board. Two degs that had bitten children were destroyed and the heads sent to Ottawa for analysis as to presence of negri bodies (germs) as a precautionary measure. They were not found present in either case.

There was one prosecution for keeping hogs too near a dwelling.

As the number of closet pits in town are still numerous, we are trying to get them all changed to the drawer system, and have succeeded in the past year in eliminating some of the more objectionable ones.

The garbage question is still in an unsatisfactory state, the same having been rendered more troublesome in one respect by the Dominion Veterinary Department prohibiting the kitchen garbage being fed to hogs without being cooked or steamed, which rendered it more difficult to get collected. The proposed by-law recommended by Board of Health to the Town Council had no action taken upon it.

The embargo which a few years ago had been placed upon bringing manure into

town on the railways and unloading the same in certain vicinities, was raised this summer until further notice, owing to the urgent solicitation of interested parties. The value of this material for production purposes, and the number of employees maintained in the business, was the chief reason for giving the question another trial, in view of the fact that the unloading was to be more expedited and certain objectionable (or paunch) manure not to be included.

The District Officer of Health, Dr. McClenahan, made one official visit and gave us a little help and instruction on matters of public health in general, and incidentally on

the question of pit closets.

The Provincial Laboratory has kept our supply of vaccines, antitoxins, etc., as they were required. The Board was also supplied with a serum for the influenza epidemic, which was used by our local physicians with apparent success as a preventive measure.

The recent appointment of Mr. John Pratt as Sanitary Inspector, we hope, will result in much needed improvement in sanitary matters, as the work required to be done in an efficient manner entails more time than our late inspector had opportunity for. I hope to have their detailed reports to present later.

Respectfully yours,

J. C. C. Grasett, Medical Officer of Health.

# ST. MARY'S.

To the Board of Health, St. Mary's.

GENTIEMEN.—The past year has been very favourable from a health point of view. With one exception contagious diseases have been less prevalent than usual. The town has been almost free from children's infectious diseases, and also from typhoid, small-pox and other infections that affect the adult. We have been less seriously affected by the unfortunate influenza epidemic than have many other towns: but even at that, the epidemic was terribly severe, and quite a number of deaths resulted.

The matter of proper protection of manure piles has engaged the attention of your Inspector and myself, and we believe it a measure that should be enforced most rigidly,

and where enforced the diminution of the fly nuisance has been most marked.

The Council has not thought it advisable to enact the amendments proposed by us to the milk by-law. We believe it would be more effective were such amendments added to the by-law.

I must express my appreciation of the work done by the Inspector and other

officials and must thank them for their co-operation.

I am quite in sympathy with a movement that is on foot to provide proper housing for all the people. The town has quite a number of houses that are used as dwellings that are really not fit, and yet it would appear that hardship would be inflicted by arbitrarily closing them; yet this is a question we will have to face in the future.

J. R. Stanley, Medical Officer of Health.

# SUDBURY.

To the Chairman and Members of the Board of Health.

GENTLEMEN.—We have the honour to submit to you the report of the sanitary work done under your Board, for the year 1918, ending November 30th.

The garbage and night soil collections have been regularly and efficiently performed by the contractor, and considering the labour problem for this class of work, it is very gratifying to find so few complaints coming to the office; any such complaints received were investigated and attended to as early as possible.

The total number of loads of garbage and other waste destroyed was as follows:

Loads of garbage and other refuse, 2,575 loads.

Careasses of 9 horses, 1 cow, 1 calf, 48 dogs.

Beef, 6 quarters-3,513 lbs.

16 boxes sausages.

2 barrels fish and 400 lbs fish.

11/2 barrels pork.

1 barrel apples.

8,000 lbs. onions.

2 tons cabbage. 13 boxes liver.

The incinerator, with the ordinary repairs to fire box, continues to give full satisfaction. Early in the year part of the shed was destroyed by fire, but this has all been renewed.

Collections for night soil were:

Amount collected	\$81 60	\$2,158	80
Total outstanding	\$205 35	205	35
Contractor received for work		\$2,364 1,891	
Credit balance		\$472	51

Of the outside closets, further improvements are required, in order that the structures be made fully fly-proof. Much has yet to be done in this line of work, which can only be accomplished by careful attention.

We have only four dwelling-houses in the municipality not connected to the sewer, where sewers exist—three of which are closed.

Plumbing permits were:

16 new connections to the sewers.

28 repairs and alterations to fittings and sewers.

All the work has been regularly inspected and tested before being passed.

Water Samples.—85 samples have been taken from the lake and town supply and sent to the Provincial Board of Health Laboratories for analysis. Very few have shown contamination, which is very encouraging and shows results for the big outlay in sewers at the lake section during the past two years.

We cannot pass on without again drawing the attention of campers and picnickers to use every care during the summer season at the lake; washing clothes in the lake and throwing of refuse is only too frequently done, and we trust that when the parks are opened the attendant in charge will give special attention to this particular work, as it is impossible for the health officers to be always around.

Milk.—88 samples of milk were taken from vendors and tested. The standard of cleanliness has been fairly well maintained, especially when the labour question is so

aimeuit.

The butter-fat was good; the average being 4%, the lowest 3%, and the highest 5.6%. 9 tests were below the regulation standard in butter-fat.

The dairies have been regularly inspected, and generally found to be kept clean and sanitary. There is room for improvement in the milk rooms; these should in all cases be separate from the stables.

One large dairy—The Sudbury Dairy—has gone out of business, and with the amalgamation of the other large dairies, and the curtailment of stock, a very serious shortage of milk is at present being felt in the town. An outside source of supply will have to be found to meet the requirements, especially for the infants, and it is most important that they have a plentiful supply of pure milk.

Bake Shops have been much improved and standard weight of bread well maintained. Only 34 loaves of bread were taken as underweight, varying from 2 to  $31\frac{1}{2}$  oz.

short weight.

Meat.—The handling and shipping of meat has been much improved. The greatest cause of complaint is when the meat is not in bags, the sheets and covers not being kept thoroughly clean, sometimes old covers and blankets being used. We wish to draw special attention of all farmers and meat vendors to this particular item. In the spring, as already reported, there was a large amount of meat wasted, for which the companies were prosecuted and fined.

*Prosecutions.*—12 cases were taken before the magistrate—the total fines being \$460.00.

2 cases for entering houses whilst under quarantine, fined \$25.00 and \$30.00 and costs respectively.

2 for not complying with sanitary regulations, \$5.00 and costs each.

Meat unsound and allowed to waste-1 case, \$10.00 and costs; 3 cases, \$100.00 and costs each.

 $1\ \mathrm{case}$  of offering for sale the carcass of a cow having died from disease, \$25.00 and costs.

Eggs unfit for food, \$25.00 and costs.

Unsound fruit, \$10.00 and costs.

1 case for allowing a company to congregate contrary to the Closing Order during the influenza epidemic, \$25.00 and costs.

Infectious Diseases.—There were 12 cases of diphtheria; 1 patient died.

There were 2 cases of scarlet fever; 1 patient died.

There were 9 cases of smallpox; 1 patient died.

The smallpox cases reported during the months of January and March, and one case in June, were all directly traceable to outside sources, having mostly been brought in from the camps, the one death being an infant in town only a few weeks old. All the cases were well cared for and strictly quarantined, and, on recovery of the patients, house, clothing, etc., cleaned and disinfected.

During the month of October a serious epidemic of Spanish influenza broke out, and from the 10th to the 15th, we estimated there were some 800 cases. It was deemed advisable at a joint meeting of the Council and Board of Health, held on the 15th, that all public premises, schools, etc., be closed. An emergency committee was formed in charge of Mr. McCarten and Mr. Berlanquet. A volunteer staff of some 150 men, young women and boys got together and gave valuable assistance to the stricken families; the women doing nursing and caring for the houses, boys doing general errands and chores, and the men found endless work in visiting and helping in many ways. We are greatly indebted to these helpers for their valuable work, and to the owners of automobiles for the assistance given. The Daughters of the Empire and Red Cross were untiring in the work of making soups and beef-tea for the hospital and invalid patients at their homes. The ban on public gatherings was raised for churches on the 10th of November, theatres, etc., on the 11th, and schools were opened on the 18th. During the period from October 16th to November 30th some 1,434 cases were reported, making a total, approximately, of 2,230. There were 164 deaths, of which 65 were residents of the town.

One important question was forcibly brought home to the workers, and that was the care of the children in the homes, and before very long the authorities will have

to appoint a competent nurse to visit the schools and homes.

There is a great work to be done in educating the mothers in the rearing of children. Miss Power, Director of Child Welfare under the Provincial Board of Health, visited Sudbury for a short time in August, and intends, at an early date, to make a special visit to bring this important question before the Board and general public.

Dr. George, the District Medical Officer of Health, visited Sudbury in February, May and October. He had a thorough inspection of the work done under your Board, and was satisfied with the general progress made, our lodging-houses and apartments

being most satisfactory.

The regular inspections of all public places, blocks, abattoirs and stores have been made, and it is very gratifying to the officers to report how much conditions have improved; the ready response to any request for improvements, both in structure and general sanitary matters; the big reduction during the year in prosecutions, under this, shows this most clearly.

We have again to thank the Town Council, Board of Health, and the public generally for their advice, help and courtesy given to us in the performance of our duties.

We have the honour to be, Gentlemen,

Yours obediently

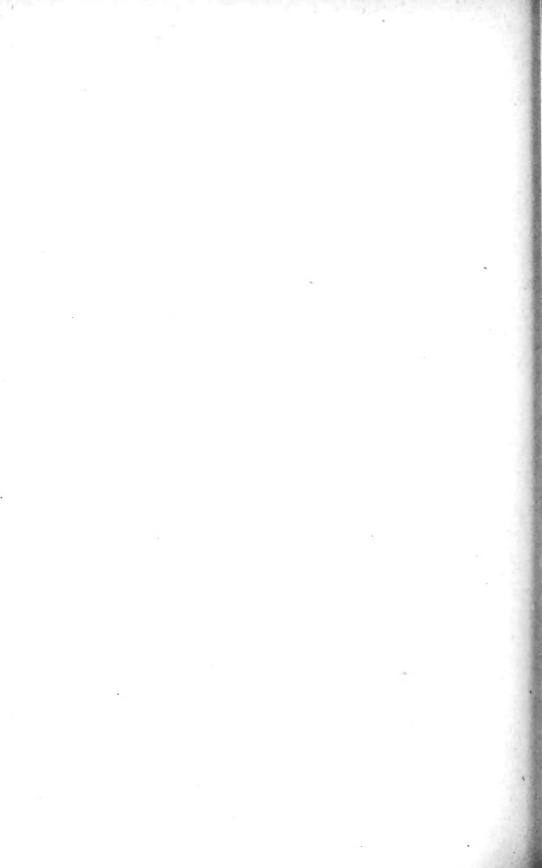
W. J. Cook,

Medical Officer of Health.

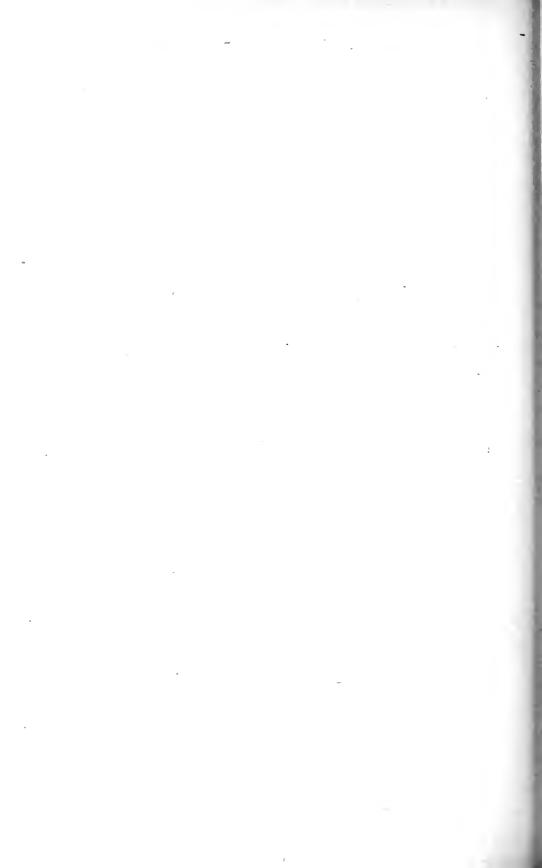
James Taylor,

Sanitary Inspector.

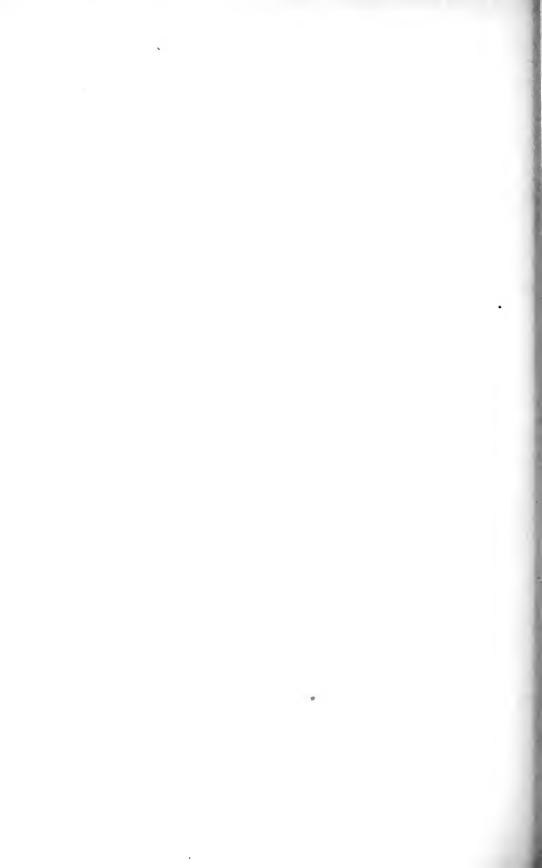












# Fifty-First Annual Report

OF THE

# INSPECTORS OF PRISONS AND PUBLIC CHARITIES

UPON THE

# Hospitals for the Insane

OF THE

# PROVINCE OF ONTARIO

Being for the Year ending 31st October

1918

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO



#### TORONTO:

Printed by THE RYERSON PRESS

# PARLIAMENT BUILDINGS,

Toronto, March 14th, 1919.

To His Honour John Strathearn Hendrie, C.V.O.

Lieutenant-Governor of the Province of Ontario.

# MAY IT PLEASE YOUR HONOUR:

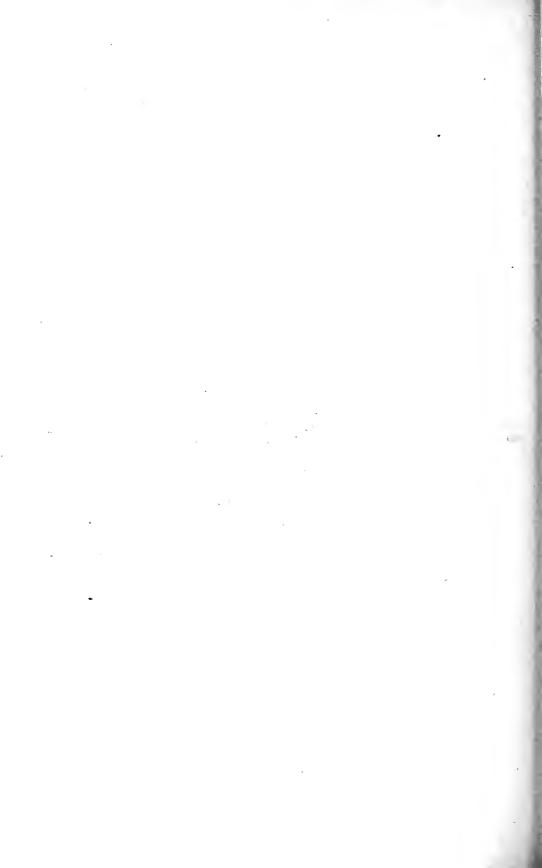
I beg to submit herewith the Fifty-first Annual Report upon the Hospitals for the Insane of Ontario, being for the official year ending on the 31st October, 1918.

I have the honour to be,

Your Honour's most obedient servant,

WM. DAVID McPHERSON,

Provincial Secretary.



### OFFICE OF THE

INSPECTOR OF PRISONS AND PUBLIC CHARITIES, ONTARIO.

PARLHAMENT BUILDINGS,

TORONTO, March 14th, 1919.

SIR,—We have the honour to transmit herewith, to be presented to His Honour the Lieutenant-Governor, the Fifty-first Annual Report upon the Hospitals for the Insane of Ontario, being for the official year ending 31st October, 1918.

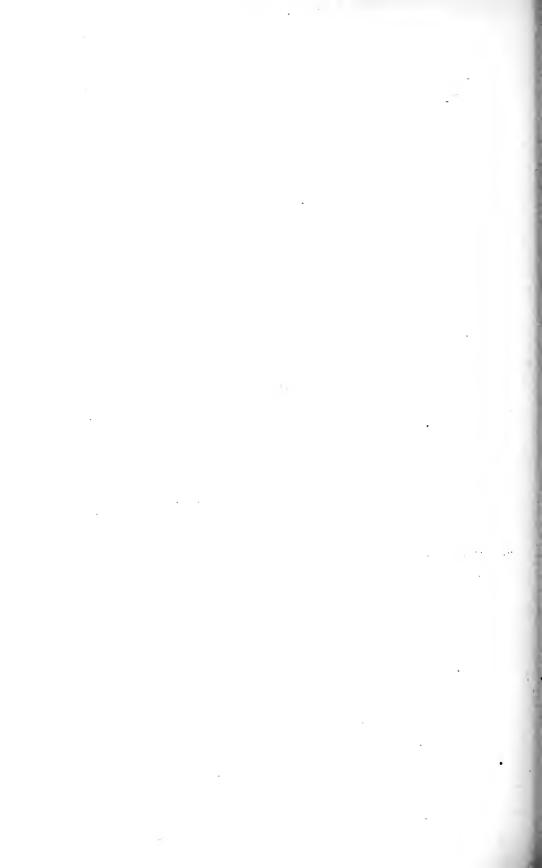
We have the honour to be, Sir,

Your obedient servants.

W. W. DUNLOP,

Inspector.

THE HONOURABLE WILLIAM DAVID McPherson, Esq., K.C., M.P.P., Provincial Secretary of the Province of Ontario, Toronto.



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# REPORT

Of W. W. Dunlop, Inspector of Prisons and Public Charities, for the year ending October 31st, 1918.

### GENERAL.

On the 31st October, 1918, exclusive of patients in the Homewood Sanatorium at Guelph, there were in the Hospitals for the Insane of Ontario 6,172 insane persons divided as follows:—

Males Females															3.03 3.13		
															6.17	.5	

An increase over 1917 of 19.

# MOVEMENTS OF PATIENTS.

The daily average number of patients in the Provincial Hospitals for the Insane during the year was 6,134, an increase over 1917 of 102.

The total number of admissions was 1,460, a decrease of 65 over the year 1917. The total number of discharges was 700, a decrease of 65.

The total number of deaths was 644, an increase of 130.

### REVENUE.

	1917.	1918.
From paying patients	\$237,394 28	\$260,969 00
Farm and miscellaneous	38,998 88	61,170 39
	\$276.393 16	\$322,139 39

An increase of \$45.746.23.

Collection from the municipalities under the provisions of 6 Edward VII, Chap. 8, as follows:—

1917.		1918.	
\$127.658	40	* \$128,283	90

#### DEPORTATIONS.

During the year ending October 31st. 1918. 57 persons have been deported.

Number of Insane	10
Number of Criminals	43
Number likely to become a public charge	4

57

During the year general improvements have been made in all the hospitals.

# RECEPTION HOSPITAL.

In residence October 31st, 1917:	
	637
Transferred to Toronto Hospital  Discharged  Died  In residence October 31st, 1918	300 13
	637

W. W. Dunlop,
Inspector.

 $\begin{tabular}{ll} TABLE \\ Showing movements of patients in the Hospital \\ \end{tabular}$ 

	Brockv	ille Ho	spital.	Hamil	ton Hos	spital.	Kingston Hospital.					
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.			
Capacity of Hospital	386	378	764	656	639	1,295	311	268	579			
In Residence, Oct. 31st, 1917	378	423	801	721	651	1,372	317	263	580			
Admitted during year 1918:— By Warrant By Medical Certificate Voluntary	109	3	5 197	80 76 1	25 117	105 193 1	7 73 4	3 47 3	10 120 7			
Total number under treatment during year	489	514	1,003	878	792	1,671	401	316	717			
Discharges during year:—  As recovered	39 20 3	25 19 1	64 39 4	19 46 2	24 40 1	43 86 3	36 11 3 1	6	60 17 7 1			
Total number discharged dur- ing year Died Deported Eloped Transferred	62 40 1 9		107 93 1 9	67 78 4 12 2	65 88 1	132 166 4 13 3	34 5	34 27	85 61 5			
Total number admitted since opening of Hospital  Total number discharged since opening of Hospital  Total number died since opening of Hospital  Total number deported since opening of Hospital  Total number eloped since opening of Hospital  Total number transferr'd since opening of Hospital	1,855 723 632 14 82 28	776 532	3,665 1,499 1.164 23 84	3,861 1,467 1,272 57 137 213	3,672 1,622 1,142 8 11 251	7,533 3,089 2,414 65 148 464	1,434 962	1.243 763 4	5,633 2,677 1,725 14 103			
Total remaining in Hospital, Oct. 31st, 1918	376	416	792	715	638	1,353	311	255	566			
Number of applications on fyle	18	15	33	9	11	20	4	2	6			
Daily average population	388	426	814	731	647	1,378	306	255	561			
Collective days' stay of all patients in residence during year.	141,485	155,656	297,114	266,848	236, 295	503,143	111,544	93,162	204,706			

No. 1. for the year ending October 31st, 1918.

Lond	on Hos	spital.	Mimi	eo Hosi	oital.		eneta ospita		Toron	ito Hos	pital.		Totals	•
Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total
511	555	1,066	340	320	660	166	203	369	426	426	852	2,796	2,789	5,585
582	611	1,193	346	335	681	167	202	369	551	606	1,157	3,062	3,091	6.153
21 102	1 135	22 237	47 33	27 49	74 82	10	7 8	17 8	46 129	12 195	58 324		639	1,161
705	747	1,452	426	411	837	177	217	394	726	813	1,539	3,802	3,810	7.612
35 29 3 6	1	60 53 4 6	10 17 1	19 11 	29 28 1		1	1	34 47 8	57 51 3	91 98 11	173 170 20 7	152	322
73 54	50 53	123 107	28 44	30 27	58 71		1 13	1 24	89 67	111 55	200 122	370 328	316	
3 2	i i	4 2	2 3 12	16	$\frac{2}{3}$	2		2 	1 6 2	3 2	1 9 4	8 40 19		45
4,241	3,941	8,182	2,045	1,849	3,894	329	394	723	7,075	6,744	13, <b>81</b> 9	22,470	20,979	43,449
1,850	1,794	3,644	700	630	1,330	18	22	40	3,435	3,629	7,064	9,617	9,716	19,333
1,409	1,239	2,648	614	508	1,122	112	142	254	1,962	1,555	3,517	6,963	5,881	12,844
15	4	19	48	9	57	9		9	114	49	163	267	83	350
145	17	162	52	1	53	15		15	170	32	202	703	64	767
249	244	493	294	363	657	12	26	38	833	837	1,670	1,874		
573	643	1,216	337	338	675	163 —	204	367	<u>561</u>	642	1,203	3,036	3,136	6,172
3	12	15	10	21	31				6	4	10	50	65	115
573	616	1,189	344	339	683	164	200	364	552	593	1,145	3,058	3,076	6,134
209,431	224,980	134,411	125,675	123,753	249,428	29,600	73,154	132,754	201,480	216,445	417,925	1,116,063	1,123,445	2,239,508

TABLE No. 2.

Showing social state and religion of patients admitted during the year and since the opening of the Hospital.

	Admissions of Year.	In residence.	Admissions since opening.
SOCIAL STATE.			
Single	644 676 132 2 2	3,565 2,196 371 4	21,084 21,289 978 16 24
Unascertained	1	32	58
Total	1,460	6,172	43,449
RELIGION.			
BaptistsCongregationalistsChurch of England	64 1 290	$\begin{array}{c} 294 \\ 41 \\ 1,175 \end{array}$	1,852 309 9,402
Methodists Presbyterians Roman Catholics	300 256 329	1,273 1,049 1,427	9,539 8,376 9,266
Other Denominations Unascertained	159 61	636 277	3,197 1,508
Totals	1,460	6,172	43,449

TABLE No. 3.

Showing nativity of patients admitted during the year and since the opening of the Hospital.

Nativity.	Admissions of Year.	Admissions since opening.
Totals born in Canada		26,330
Armenia		4 24
Austria Australia		$1\overset{2\overset{4}{0}}{\overset{4}{0}}$
Belgium Bulgaria		2 12
China	5	16 10
DenmarkEngland		$\begin{array}{c} 5,660 \\ 42 \end{array}$
FranceFinland		76 10
Germany	8	269 31
Greece		11 13
Hungary Ireland		5,280
ItalyJapan Macedonia	• • • • • • • • • • • • • • • • • • • •	$     \begin{array}{c}       118 \\       1 \\       12     \end{array} $
Other British Possessions Norway		232 18
Roumania Russia	2	17 279
South America	56	2,634 10
Spain		1 1 5
Sweden	1	52 18
TurkeyUnited States		1,134 29
Unascertained and other countries	26	975
Totals	1,460	43,449

TABLE No. 4.

Showing the occupation of those admitted during the year and since the opening of the Hospital.

						al.			
Occupation.	Brockville Hospital.	Hamilton Hospital.	Kingston Hospital.	London Hospital.	Mimico Hospital.	Penetanguishene Hospita	Toronto Hospital.	Admitted this year.	Since opening,
Professional:— Clergy. Military and Naval Officers, Physicians, Lawyers, Architects. Artists, Authors, Civil Engineers. Surveyors, etc.	13	19	20	3	1		9,	65	771
Commercial:— Bankers, Merchants, Accountants, Clerks, Salesmen, Stenographers, Typewriters, etc	19	20	5	6	10		22	82	2,250
Agricultural and Pastoral:— Farmers. Gardeners. Stock Men, etc	37	25	26	45	26	3	9	171	6,428
Mechanics at Outdoor Vocations:— Railway and Stationary Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers, Painters, Police, etc	3	31	4	10	14		22	84	2,165
Mechanics, etc., at Sedentary Vocations:— Shoemakers, Bookbinders, Compositors, Weavers, Tailors, Seamstresses, Bakers, Factory Workers, etc	13	16	6	. 10	3	1	35	84	. 2,736
Domestic Service:— Waiters, Cooks, Servants, etc	10	20	3	6	6	2	30	77	4,014
Education and Higher Domestic Duties:— Governesses. Teachers, Students, House- keepers. Nurses. etc	79	112	39	106	59	12	102	509	12,967
Miners, Marine Engineers, Railway Employees, Seamen, Soldiers, etc	1	4		3	4	1	16	29	501
Laborers	27	43	18	20	22	6	73	209	6,229
No Occupation		6	14	28	11		35	94	2,753
Unascertained		3	2	22			29	56	2,635
Totals	202	299	137	<b>2</b> 59	156	25	382	1,460	43,449

TABLE No. 5.

Showing the Counties and Districts from which patients have been admitted during the year ending October 31st, 1918, and the Hospitals they were assigned to.

							,			
Counties and Districts.	Number received under warrant process.	Number received from private houses by medi- cal certificates.	Total number received from respective counties during the year.	Assigned to Brock- ville Hospital.	Assigned to Hamilton Hospital.	Assigned to Kingston Hospital.	Assigned to London Hospital.	Assigned to Mimico Hospital.	Assigned to Penetang Hospi- tal.	Assigned to Toronto Hospital.
Algoma District	13	3	16					11	4	1
Brant			23							, 1
Bruce		16			2					
Carleton		75							1	
Dufferin		1	4							
Dundas		-	-	15						
Durham		6								1
Elgin		29								
Essex	5	17								
Frontenac	3	30	33		2	31				
Glengarry		11	11	11						
Grenville		17		16						
Grey		8								
Haldimand		3	-							
Halton		. 9								
Hastings		28	_							
Huron										
Kent Kenora		22	22							
Lambton		16	18			• • • •				
Lanark		29		1		• • • •	10	• • • •		
Leeds	j	19								
Lennox and Addington		12								
Lincoln		14								
Manitoulin										
Middlesex	10	67			1		75			1
Muskoka District	5	4	9					7	2	
Nipissing District	29	14	43					36	6	1
Norfolk	4	10	14		14					
Northumberland	2	12	14				• • • •			
Ontario	4	11							2	2
OxfordParry Sound District	1 7	15	16			• • • •	16			• • • •
Peel	5	5 9	12						1	• • • •
Perth	1	20					····21		• • • • • •	
Peterborough	8	11	19							1
Prescott	2	9	11	11		۔ ا				,
Prince Edward		3	3							
Rainy River District	2	2	4					3	1	
Renfrew	1	17	18	1		17				
Russell		2	2							
Simcoe	5	14	19				• • • •	15	3	
Sudbury						• • • •				• • • •
Stormont	• • • • • •	• • • • • • • •	18				• • • •		• • • • • •	• • • •
Temiskaming	16			• • • • •		• • • •	• • • •	1.4	• • • • • •	
Victoria and Haliburton	16	9		• • • • • •	• • • • •	• • • • •	• • • •	14	3	1
Waterloo	5 11	31	14 42		1 41			10	1	• • • •
Welland	7	11	23		23		1			• • • •
Wellington	i	16	17		16		1			
Wentworth	69	55	124		124					
York	45	353	398	3	11			10		374
Unascertained			42			20	22			
Totals	278	1,182	1,460	202	299	137	259	156	25	382
		1				1				

## TABLE No. 5a.

Showing the counties and districts from which the entire number of patients admitted to the Hospitals have been received, including the admissions of the present year; also the counties and districts from which the patients remaining in residence the 31st October, 1918, were originally admitted.

	of		]	Patient	s in r	esiden	ce 31s	st Oc	tober, 1	918.
Counties and Districts.	Admissions the year.	Total admissions.	Brockville Hospital.			London Hospital.		<u></u>	Toronto Hospital.	Total.
Algoma District	16			12		2	28		5	
Bruce	23 18			107	• • • •	107	1		1 3	
Carleton	75	1.633	260	3					1	
Dufferin	13	177							$\frac{1}{2}$	
Dundas	15	305								22
Durham	6	548	3	1	11	1			11	
Elgin	30	700		1		90		3	2	
Essex	22	653		3	110	110	1		1	
Frontenac	33	1,488							1	
Glengarry	11	386							1	
Grenville	$\begin{array}{c} 17 \\ 10 \end{array}$	$\frac{450}{798}$		100				9	1	
Haldimand	3	408							_	46
Halton	9	440							2	45
Hastings	30	972	9		87	1		2	2	104
Huron	15	967		1		112		$\overline{2}$	6	
Kent	22	711		1		107	I			111
Kenora	10					110			• • • • • •	199
Lambton	18	911		2	1		• • • •			123 96
Lanark	32 19	748 766							1	
Lennox and Addington	14	516							$\frac{1}{2}$	
Lincoln	14								ĩ	
Manitoulin		29					5			5
Middlesex	77	2,368	2	4	1	292	2	2	2	
Muskoka District	9			2			13	14	2	
Nipissing District	43	394		- 8		• • • • • •	87	19	1	
Norfolk	14			51		• • • • • •	• • • • •	2 8	• • • • • • • • • • • • • • • • • • • •	54
Northumberland	$\frac{14}{15}$	811 889		2 5	2	2	3 46	$\frac{3}{21}$	16	
Ontario	16	786		1		93		1	3	
Parry Sound District	12			i			38	5	1	
Peel	iī	533					35	3	6	52
Perth	21	823	3	6		116	2	'		127
Peterborough	19	613					62	7	5	
Prescott	11	344		2			;	2		71
Prince Edward	3	300	• • • •				1	7	1	36 21
Rainy River District	18	94 595	11					3	····i	81
Russell	2	146	1	1	1					38
Simcoe	19	1.274				3	82	62	12	181
Sudbury		5						'		3
Stormont	18	509	63					1	1	69
Temiskaming		11								5
Thunder Bay District	18	231		7		3		19	3	
Victoria and Haliburton	11		• • • •	116			67	9 1	$\frac{6}{7}$	91 157
Waterloo	42 23	670 615		89			i	1,	2	97
Wellington	17	1,063				2		5.		171
Wentworth	124	2,609		368		3	3	7	5	
York	398	9,739		43	11	8	112	93	1,066	1,359
Unascertained	42	630		6	31		2		4	
New Brunswick		2		1	,					1
United States		1				• • • • •	• • • •		• • • • • • •	• • • • • •
(Potolo	1 400	12 110	702	1 252	566	1 216	675	267	1 202	6 172
Totals	[1,460]	45,449	192	1,555	900	1,210	610	507	1,200	0,112

TABLE No. 6. Showing the assigned causes of insanity in the cases admitted during year.

Causes.	Male.	Female.	Total.	Pr	Inherited edispositi		Un- ascertained.
	,			Male.	Female.	Total.	l ascer
MORAL.							
Adverse Conditions (such as loss of friends, business troubles, etc.)	44	51	95	9	22	31	55
included in above)	72 7 3 3	82 7 3 13	154 14 6 16	33 2 1 3	47 3 6	80 5 1 9	59 8 5
PHYSICAL.	э	10	10	•,	()	.,	,
Alcoholism	43	5	48	14	2	16	8
Sexual Excess	45 3	7	$\begin{array}{c} \dots \dots \\ 52 \\ 3 \end{array}$	1 1	1	<u>2</u> 1	3 8 11
Insolation	1 15	4 3 14	5 18 14	$\frac{1}{2}$	2 1 3	9 99 99 99 99 99 99 99 99 99 99 99 99 9	3 14 7
Parturition and Puerperium Lactation Climacteric Period	 1 1	$\begin{array}{c} 25 \\ 1 \\ 10 \end{array}$	25 1 11	i	$ \begin{array}{c} 10 \\ 3 \end{array} $	4	6 3 8
Fevers Privation and Overwork Epilepsy Other Convulsive Diseases	30 13	19 28 3	1 23 58 16	2 7 4		6 11 5	43 20
Diseases of Brain and Skull	17 38 3	6 62 11	23 100 14	3 1	1 1 2	1 1 3	13 56 1
Epidemic Influenza Abuse of Drugs Loss of Special Sense	$\begin{array}{c} 1\\16\\1\end{array}$	1 7	23 $1$	1		1	1 16 1
Uræmia Other Auto-infection. Other Bodily Diseases	1 13	15	1 28	2	2		1 24
HEREDITARY.			_				
Congenital Defect Unascertained Not Insane	318 7	41 302	$\begin{array}{c} 81 \\ 620 \\ 7 \end{array}$	24 292	$\begin{array}{c} 25 \\ 277 \\ \end{array}$	49 569	$27 \\ 227 \\ 6$
Totals	740	720	1,460	404	417	821	639

TABLE No. 7.
Showing hereditary tendency to insanity in patients admitted during the year.

	Adm	itted During	Year.
	Male.	Female.	Total.
Paternal Branch Maternal Branch Paternal Branch Paternal and Maternal Branches Collateral Branches No hereditary tendency Unascertained Not insane	48 45 19 41 <b>a</b> 210 372 <b>f</b>	48 62 29 49 216 316	96 107 48 90 426 688 5
Totals	740	720	1,460

TABLE No. 8. Showing summary of probational discharges during the year.

<u></u>	Male.	Female.	Total
Number Granted Probational Discharge	346	391	737
Discharged, Recovered while on Probation.  "Improved ""  "Unimproved ""  Died	84 102 5 3 77 75	112 90 3 1 104 81	196 192 8 4 181 156

# TABLE No. 9.

Showing the causes of death of patients who died during the year ending October 31st, 1915.

Cause of Death.	Brockville Hospital.	Hamilton Hospital.	Kingston Hospital.	London Hospital.	Mimico Hospital.	Penetang Hospital.	Toronto Hospital.	Total.
								-
Specific Infectious Diseases:— Typhoid Fever								
Influenza								
Cerebro-spinal Meningitis							1	1
Diphtheria	1	• • • • •			• • • • •	• · · · •		
Erysipelas Septicæmia	2		1	1		1	2	7
Dysentery				1			1	2
Syphilis	90	9	6	12	14	• • • • •	18	
Toxemia								
Jaundice								
0 45 ( 1.05)								
Constitutional Diseases:— Rheumatism						·	1	1
Arthritis Deformas								
Diabetes Mellitus		• • • • •				• • • • •		
Diseases of the Digestive System:—  Mouth, salivary glands Pharynx Tonsils	 							
Œsophagus								
Enteritis Stomach								
Stomach								
Diseases of the Intestines:-								
Diseases of the Liver			1	3	1	• • • • •		-5
Diseases of the Peritoneum			1	,		• • • • •		3
Intestinal obstruction								
D' (4) D (4) C (4)				,				
Diseases of the Respiratory System:— Diseases of the Nose and Larynx	1							1
" Bronchi	3	3			2			3
" Lungs	. 11	11	19	+	8	5		
" " Pleura		• • • • •	1	1	· · • · ·	••••	2	1
Diseases of the Circulatory System:-								
Diseases of the Pericardium		· · · <u>·</u> ·						
" Heart	. 3	1		6	1	3	6	30
Aneurism	1.7							
Diseases of the Blood and Ductless Glands:—	1			1				1
Anæmia				1	1			2
Leucæmia				-				
Exophthalmic Goitre	. 2				• • • • •	2	1	5
Diseases of the Genito-Urinary System			2	2		1	1	6
Carried forward	. 63	4.5	38	34	27	17	48	272

TABLE No. 9-Continued.

Showing the causes of death of patients who died during the year ending October 31st, 1918.

Cause of Death.	Brockville Hospital.	Hamilton Hospital.	Kingston Hospital.	London Hospital.	Mimico Hospital.	Penetang Hospital.	Toronto Hospital.	Total.
Brought forward	63	45	38	34	27	17	48	272
Diseases of the Nervous System:— Diseases of the Nerves  " " Spinal Cord  " " Meninges  Organic Diseases of the Brain,  (Tumor, Abscess, Embolism, Throm-	····i							1
bosis, Hemorrhage, and other gross lesions)	7	7	4	3	3		3	31
Epilepsy				4	5		1	17
Mental Diseases:— Exhaustion of Acute Mental Disease Exhaustion of Chronic Mental Disease		29 17 13	5 3	12 17 9			8 1 20	88 49 50
Intoxications:— Alcoholism Morphinism Metallic Poisoning Heat Stroke				 				1
Debility of Old Age.	3	44	6	21			33	107
Accident		1						1
Suicide	1	1	2	2			3.	9
Surgical Diseases								
Gynæcological Diseases			1		• • • • •			1
Malignant New Growths, or Cancer			1	4		3	2	10
Pellagra								
Unknown (died on probation)			,					
Totals	93	166	61	107	71	24	122	644

TABLE No. 10.

Showing form of mental disease of patients admitted, discharged and died during the year.

	A	lmitt	ed.	Disc	charg	ed.		Died.	
Mental Disease.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Infection Psychoses:—									
(a) Fever Delirium	1 5	6 3	····;	····	 1 5	 1 11	···· 1		 2 3
Exhaustion Psychoses:									_
(a) Collapsed Delirium	4	23 3	4	4 2	14	18 8	1 1 		
Intoxication Psychoses:— (a) Acute Intoxications									
(b) Chronic "	33	$\frac{\cdots}{2}$	35	···. 25	$\frac{\cdots}{2}$	27		····	5
(b) Delirium Tremens	2		2		'				
(f) " Paranoia (g) " Paresis					!			1	1
(h) Morphinism	13 1		18						
Thyroigenous Psychoses:—  (a) Mixœdematous Psychoses.  (b) Cretinism.  (c) Hyparthyroganous.			• • • • •	• • • •	• • • •	• • • •	• • • •	• • • •	
(d) Exophthalmic Goitre  Dementia Præcox:—			••••	• • • •	• • • •	••••		• • • •	••••
(a) Hebaphrenic (b) Catatonic (c) Paranoid.	146	140	157 286 115	25 78 20	18 67 22	145		18 51 17	88
General Paresis	49	8	57	11	4	15	48	7	55
Organic Dementias:— Traumalie	4	2 1			1		i		
(b) Huntingdon's Chorea (c) Multiple Sclerosis (d) Cerebral Syphilis	1		1					2	
(e) Tabetic Psychoses	1 12	···· 5	$\frac{1}{17}$	1 4	4	1	8		16
(h) Tramutic Dementia	7		<u>i</u>		-				
Involution Psychoses:— (a) Melancholia	19	69	88	12	22	34	9	22	31
(b) Pre-senile Delusional Psychoses	61		7 152	5 23	16	7 39	58 	74	, 8
Carried Forward		506	1,015	230	190	420	226	226	452

TABLE No. 10 .- Continued.

Showing form of mental disease of patients admitted, discharged and died during the year.

	Ac	lmitt	ed.	Disc	charg	red.	]	Died.	
Mental Disease.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Brought Forward	509	506	1,015	230	190		226	226	452
Manic Depressive Psychos:—  (a) Manic States.  (b) Depressed States.  (c) Mixed States.	83 47 1		171 127 8	47 44 6			14	33 18 3	68 32 7
Paranoia	9	3	12	1		1			
Psychoses from Constitutional Neuroses:—  (a) Epileptic Psychoses  (b) Hysterical Psychoses  (c) Sexualis Psychopathea  (d) Post Apoleptic		2 1	3	13	6 1			1	
States of Deficient Mental Development:—  (a) Imbecility		1	1		9	30 1		9	17 1
Not Diagnosed	4	1	5	4	3	7	23	19	42
Not Insaue	7		7	7		7			
Totals	740	720	1.460	*373	336	709	328	316	614

^{*} Includes 3 deported.

## TABLE No. 11.

Periods.	Alleged duration of insanity prior to admission.	Length of residence of those remaining in Hospital on October 31st, 1918.	Periods of treatment of those who were discharged recover- ed during the year.	Periods of treatment of those who were discharged improved during the year.	Periods of treatment of those who were discharged unimproved during the year.	Periods of treatment of those who died during the year.
Under 1 month	199	239	21	18	11	93
From 1 to 2 months	128	139	28	10	6	45 16
" 2 " 3 "	113	146	24	9	1	16
<b>" 3 " 4 "</b>	69	102	25	18	3	26 26 22 22 27 40 17 35 23 24 57
" 4 " 5 "	92	74	18	18	••••	26
" 5 " 6 "	. 84	81	31	26	1	22
" 6 " 9 "	113	143	83	46		22
9 12	93	120	36	39	2 2 3	21
12 10	95	260	40 8	39 17	2,	10
To months to a years	$\frac{52}{110}$	263 420	15		•)	95
" 2 to 3 years	116	215	6	$\frac{26}{12}$		99 99
" 4 " 5 "	63 44	345 356	5	11	• • • • • • • • • • • • •	20
" 5 " 10 "	73	1,225	. 6	15	1	57
" 10 " 15 "	36	855		7	•	61
" 15 " 20 "	9	567	2	5		61 30
" 20 years and upwards.	36	837	ī	6		80
Unknown	45					
Not insane		•••••		• • • • • • • • • • •		
Totale	1.460	6.172	*349	322	30	644

^{*} Includes 2 deported.

TABLE
Showing the general movement and result of treatment of patients in the Hospitals
1882, to the 31st

		rage di pulatio			of pa mitted		Number rec	of pa		prov impr	ged ed,	im- un- and
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Av. for 5 years 1882–1886	1,312	1,330	2,642	264	234	498	82	87	169	36	40	76
Av. for 5 years 1887-1891	1,586	1,532	3,118	314	306	620	88	85	173	38	46	84
Av. for 5 years 1892-1896	1,894	1,932	3,826	354	394	748	106	111	217	44	55	99
1897	2,097	2,157	4,254	507	398	905	107	116	223	42	52	94
1898	2,153	2,215	4,368	349	411	759	122	129	251	54	59	113
1899	2,183	2,258	4,441	368	343	711	116	145	261	48	47	95
1900	2,197	2,288	4,485	352	370	722	121	133	254	28	44	72
1901	2,236	2,368	4,604	372	370	740	145	130	275	26	31	57
Av. for 5 years 1897-1901	2,173	2,257	4,430	389	379	767	122	131	253	40	46	86
1902	2,249	2,461	4,710	381	578	959	121	139	260	51	61	112
1903	2,283	2,490	4,773	404	416	820	146	176	322	41	60	101
1904	2,346	2,551	4,897	486	537	1,023	146	156	302	39	60	99
1905	2,396	2,616	5,012	511	538	1,049	149	166	315	64	57	121
1906	2,478	2,699	5,177	517	568	1,085	142	172	314	79	76	155
Av. for 5 years 1902-1906	2,350	2,564	4,914	456	527	983	141	162	303	55	63	118
1907	2,511	2,747	5,258	568	528	1,096	146	166	312	118	97	215
1908	2,586	2,814	5,400	577	547	1,124	115	109	224	147	99	246
*1909	2,629	2,871	5,500	438	405	843	152	125	277	100	97	197
1910	2,662	2,879	5,541	567	573	1,140	146	169	315	126	138	264
1911		2,884	5,592	560	580	1,140	135	164	<b>2</b> 99	138	142	280
Av. for 5 years 1907-1911	2,619	2,839	5,448	542	527	1,069	139	147	286	126	114	240
1912	2,877	3,042	5,919	684	627 667	1,247 1,337 1,351 1,304	167 203	155 147 163 147	314	171 181 220 159	163 198	344 418
1916 Average 5 years	2,936	2,993	5,929	738		1,414	184	165	349	158	168	3 <b>2</b> 6
1912–1916	2,856	3,009	5,865	695	636	1,331	,	156		178		
1917 1918			6.032 $6.13$			1,644 1,460		196 174		174 198		

^{* 10} months ending October 31st, 1909.

No. 12. for the Insane of the Province during the thirty-seven years from January 1st, October, 1918.

	er of pa ho died		toav	ge of reco erage dai pulation.		deaths	eentage s to ave popula	rage	remainin	oer of pat g in Hosp of each ye	oitals at
Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
91	63	154	6.25	6.54	6.39	6.94	4.74	5.83	1,329	1,446	2,775
88	83	171	5.56	5.88	5.55	5.56	5.42	5.48	1,600	1,601	3,201
124	93	217	5.59	5.75	5.67	6.55	4.82	5.69	1,910	1,955	3,865
145	117	262	5.10	5.38	5.24	6.91	5.42	6.17	2,116	2,163	4,279
130	108	238	5.67	5.88	5.77	6.04	4.88	5.46	2,152	2,236	4,388
160	132	292	5.31	6.42	5.87	7.28	5.85	6.57	2,176	2,251	4,427
136	133	269	5.51	5.82	5.67	6.19	5.81	6.00	2,198	2,300	4,498
150	107	257	6.48	5.47	5.97	6.70	4.52	5.61	2,236	2,368	4,604
144	120	264	5.61	5.79	5.70	6.22	5.29	5.96	2,175	2,264	4,439
158	129	287	5.38	5.65	5.52	7.02	5.24	6.09	2,248	2,464	4,712
150	139	289	6.39	7.07	6.75	6.57	5.58	6.05	2,287	2,492	4,779
172	163	335	6.22	6.12	6.18	7.35	6.39	6.84	2,328	2,543	4,871
141	147	288	6.22	6.34	6.28	5.88	5.62	5.75	2,435	2,657	5,092
173	184	357	5.73	6.37	6.06	5.73	6.37	6.06	2,491	2,720	5,211
159	152	311	5.99	6.31	6.15	6.51	5.84	6.18	2,358	2,575	4,933
197	176	373	5.82	6.04	6.01	7.84	6.41	7.09	2,549	2,765	5,314
193	158	351	4.45	3.87	4.15	7.46	5.61	6.50	2,614	2,877	5,491
132	127	259	5.89	4.38	5.11	5.02	4.42	4.71	2,634	2,897	5,531
174	164	338	5.48	5.87	5.69	6.54	5.69	6.10	2,688	2,921	5,609
200	215	415	4.99	5.68	5.33	7.38	7.45	7.42	2,715	2,925	5,640
179	168	347	5.30	5.17	5.25	6.85	5.92	6.38	2,640	2,877	5,517
241 213 219 282 240	219 195 195 233 248	460 408 414 515 488	5.13 5.89 7.06 5.07 6.23	5.29 4.82 5.36 4.76 5.51	5.21 5.38 6.18 5.06 5.88	8.77 7.52 7.54 9.78 8.17	7.46 $6.52$ $6.40$ $7.54$ $8.28$	8.09 6.99 7.00 8.62 8.23	2,769 2,881 2,882 2,924 2,877	2,957 3,031 3,104 3,116 3,025	5,726 5,912 5,986 6,040 5,902
239	218	457	5.86	5.13	5.54	8.36	7.24	7.78	2,867	3,047	5,914
287 328	227 316	514 644	$\frac{6.88}{5.73}$	$\substack{6.45 \\ 5.66}$	$\substack{6.66 \\ 5.78}$	$9.59 \\ 10.07$	$\begin{bmatrix} 7.47 \\ 10.02 \end{bmatrix}$	$\frac{8.52}{10.07}$	3,062 3,036	3,091 3,136	6,153 6,172

TABLE No. 13.

Showing the percentage of recoveries on the average population and admissions for the year ending October 31st, 1918.

	On ave	rage pop	ulation.	Or	admissio	n.
Hospitals.	Average population.	Recovered.	Percentage.	Admission.	Recovered.	Percentage.
Brockville	814	64	7.86	202	64	31.7
familton	1.378	43	3.12	299	43	14.4
Kingston	561	60	10.60	137	60	43.8
ondon	1.189	60	5.04	259	60	23.2
Iimico	683	29	4.25	156	29	18.6
enetang	364			25		
Coronto	1.145	91	7.94	382	91	23.8
Totals	6,134	349	5.78	1,460	349	23.9

TABLE No. 14.

Showing summary of discharges during the year.

	Male.	Female.	Total.
Sischarged, Recovered	173	174	347
" Improved	170	152	322
" Unimproved	20	10	30
" Deported	8		8
" Eloped	40	5	45
" Not Insane	7		7
Total Number of Discharges	418	341	759

TABLE No. 15.

### Deaths in Hospitals.

Hospitals.	No. of Deaths.	Daily average. population.	Percentage of deaths on daily average population.
Brockville	93 166 61 107 71 24 122	814 1,378 561 1,189 683 364 1,145	11.4 12.5 10.8 9.0 10.4 9.1 10.7
Totals	644	6.134	10.7

TABLE No. 16.

The following table shows the number of beds in each of the Hospitals, number in residence, number of vacancies, over population and applications on file at close of official year.

	Nur	Number of beds.	. eds.	Number 31st (	Number in residence on 31st October, 1918.	enee on 1918.	Numb	Number of vacancies.	aneies.	Оуе	Over population.	cion.	Appli	Applications on file.	ı file.
Asylums.	Male.	Male. Female.	Total.	Male.	Female. Total.	Total.	Male.	Female. Total.	Total.	Male.	Female. Total.	Total.	Male.	Female. Total.	Total.
Broekville	386	378	764	376	116	792	0.1		2		***	38	<u>~</u>	15	<b>F</b>
Hamilton	656	639	1,295	715	638	1,353	:	_	-	59		99	5	=	20
Kingston	311	568	579	311	255	266	:	==	22		:	:	7	21	9
London	511	555	1,066	573	643	1.216				65	×	150	•••	2	<u>8</u>
Mimico	340	320	099	337	338	675			***		$\frac{\pi}{\infty}$	18	01	21	≅
Penetang	166	203	369	192	204	367		:	rr		-	_		:	
Toronto	426	426	852	561	219	1,203		:		135	216	<u>18</u>	9	<b>→</b>	10
					,	:		=	76.	950	137.	5	15	12	115
Totals	2,796	5,789	5.585	3.036	98 - 1.38 - 1.38	6,173	2	<u>*</u>	<u> </u>	000	100				•

TABLE No. 17.

Showing the number of officers and employees in each and all of the Hospitals classified according to the daties performed.

Occupation.	Brockville Hospital.	Hamilton Hospital.	Kingston Hospital.	London Hospital.	Mimico Həspital.	Penetang Hospital.	Toronto Hospital.	Total.
Medical Superintendents	1	1 1 2	1	1	1	1	1 1 2	7 4 10
Dentists Bursars Bursars' Clerks Stenographers and Portresses Storekeeper and Assistants Matrons Assistant Matrons Cooks	1 1 2 1 1	1 1 3 3 1 2	2 1	1 1 3 2 1 1	1 1 1	1 1 1 1 1	1 1 3 1 1	4 5 5 15 9 5 3
Laundresses Housemaids Domestic Help	17	20	9	29	11	9	20	115
Seamstresses ) Tailoresses	$\begin{array}{c} 1 \\ 1 \\ \end{array}$	1	1	1	1	i	1	1 7
Butchers Tailors Shoemakers Laundrymen Engineers and Assistants Stokers Bricklayers and Masons Carpenters Painters Farmers Farmers Farmers' Assistants Gardeners Assistant Gardeners Chief Attendants, Male Supervisors, Male	1 3 7 1 2 1 1 1 6 1 1	1 1 1 3 8 2 3 1 1 10 1	 1 2 5 2 1 1 1 3 2	 1 2 3 12 2 1 1 8 1 2		1 2 3 1 1 2 1 1 3 1	 1  2 6 1 1 1 1  2 1	4 2 7 18 44 10 12 7 6 35 6 7
Attendants, Male	\ \ 78	81	54	108	60	25	71	477
Musical Instructresses				····i			1	2
Totals	132	151	88	189	93	56	118	827

TABLE No. 18.

Statement of Revenue from Paying Patients and Farm and Miscellaneous Revenue.

Hospital.	No. of Paying Patients.	From Paying Patients.	From Farm and Miscel- laneous.	Total.
Brockville		63,061 49 23,018 42 59,117 46 29,085 65 2,874 85	\$ c. 9,600 88 5,123 95 1,560 29 10,688 93 529 79 1,376 48 1,727 58 30,562 49 61,170 39	\$ c. 42,148 30 68,185 44 24,578 71 69,806 39 29,615 44 4,251 33 52,241 54 31,312 24 322,139 39
Revenue from Railway Taxation, under 6 Edward VII., Cap. 9, Sec. 4, Subsec. 2	•••••			127,658 40 449,797 79

### TABLE No. 19.

### COMPARATIVE STATEMENT OF REVENUE.

The following statement shows the revenue received from the Hospitals for each year since 1871, together with the number of paying patients in the Hospitals from year to year:

	No. of Paying Patients.	Revenue.	Increase.	Decrease.
		\$ c.	\$ c.	\$ c.
For the year ending September 30, 1871.		14,045 30		
" 1872		19,255 80	5,219 50	
" 1873		16,660 61		2,595 19
" 1874.		20,035 77	3,373 15	
" " 1875		21,875 92	1,840 15	
" 1876		21,175 93		699 99
" 1877.		28,093 58	6,917 65	
" " 1878. " " 1870.		30,103 75	2,010 17	
10/9		32,398 26	2,794 51	
1880		37,653 81	4,755 55	
" 1881		41,066 54	3,412 73	
" 1882		43,937 64	2,871 10	
1000		59,922 59	15,984 95	
1004		48,135 18		11,787 41
" 1885		49,620 93	1,485 73	
1000		53,030 05	4,309 12	
" 1887		48,742 53		4,287 52
" 1888		59,638 16	10,895 03	
" " 1889		66,670 64	7,032 48	
" 1890		62,754 16		3,916 48
1891		48,507 52		14,246 14
" " 1892		73,240 61	14,733 19	
1893		73,415 54	174 93	
" " 1894		72.722 04		693 50
1899		68,290 31		4,431 73
" 1896		97,898 19	29,607 88	
" 1897		100,581 25	2,683 06	
" 1898		72,042 44		28,538 81
" 1899.		74,364 54	2,322 10	
1900		81,650 87	7,286 33	
1901		90,677 46	9,026 59	
1902.		101,076 20	10,398 74	
1903		97,416 03		3,660 17
		106,167 49	8,751 46	
1909.		114,915 59	8,748 10	
For the 3 mos. ending December 31, 1905.		54,897 06	27,403 60	
For the year ending December 31, 1906.		165,404 08	50,488 49	
" " 1907.		166,419 63	1,015 55	
1908.		146,148 77		3,739 24
For the 10 mos. ending October 31, 1909.		140,048 18		
'' year '' 1910.		168,914 54		
1911.		183,077 18	14,162 64	
1912.		189,096 93	6,019 75	
1913.		205,649 41	16,552 48	
1914.		213,517 87	7,868 46	
1915.		225,178 83	11,660 96	
1910.		236,805 83	11,627 00	
1917.		237,394 28	588 45	
1918.	. '	260,969 00	23,574 72	

TABLE No. 20. STATEMENT.

Showing the Expenditure on Maintenance under the different headings of the estimates for the year ending October 31st, 1918.	the differen	t headings of	the estimat	es for the ye	ar ending Oct	tober 31st, 19	118.
Headings of Estimates.	Brockville Hospital.	Hamilton Hospital.	Kingston Hospital.	London Hospital.	Mimico Hospital.	Penetang. Hospital.	Toronto Hospital.
	ပံ ÷÷	ပ် <del>%</del>	ં જ		ઇ •^	••	÷
School Section	100 00	100 00	100 00	•		250 00	
Medicines and medical comforts	1,495 50	1,642 08	935 55	1.163 78	1,496 79	278 74	1.526 87
Groceries, provisions and butcher's cattle	66,831-87	97,061 02	42,213 64	72,925 75	47,036 98	21.641 19	89,485 38
Fuel, light and water	37,862 18	52,652 58	38,468 29	45,516 58	27,604 76	13,961 96	33,380 04
Clothing	9,989 99	11,207 05	7.260 90	15,240 73	6.700 03	5,354 66	8.759 25
Laundry and cleaning	3,693 38	3,935 25	2,712 56	6,084 27	2.892 78	1,018 27	5.878 98
Office expenses	1,458 92	1,394 57	773 88	1,390 45	841-98	92/0/22	78 062
Farm expenses	9.880 44	15,439,51	6,283 54	16,419 14	4,986 63	5,296 65	1,492 09
Contingencies	2,087 72	3,267 77	1,381 04	1.812 71	1.277 57	SS 957	2,399 07
Total expense	133,400 00	186,699 83	100,129 40	160,493 41	92,837 52	48,521 59	143,712 55
Salaries	60,241 99	70,663 30	45,160 35	78,012 61	45,213 87	27.844 60	61.505 74
Grand Totals	193,641 99	257,363 13	145,289 75	238,506 02	138,051 39	76,366 19	205,218 29

TABLE Comparative Statement of Average Maintenance Cost per Capita

	Brock	ville.	Hami	ilton.	King	ston.
	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.
Days' residence of patients	283.531	284.371	478,932	465,288	202,625	208.321
Average number of patients	776.80	779.09	1,312,14	1.274.74	555.00	570.74
		Cents.				
MEDICINESMedicines and Medical comforts	.53	.48	.35 .35	.32	.46	
PROVISIONS	17.90		18.73		20.49	
Breakfast Foods and Cereals	$\frac{.57}{2.36}$					
Coffee and Tea	.58		.55	.50		
Eggs	.65		.99			. 43
Flour, Bread, etc	3.84		3.36			
Fruit and Vegetables—Fresh	.78		.45	1.63		
" Canned and Dried Milk	1.28			$1.12 \\ 1.28$	.93 1.18	
Potatoes	.30		.63	1.19		
Salt. Spices, Pickles, etc	.10		.08	.07	.17	.13
Sugar and Syrup	1.20					
Inenumerated Groceries	1.20			1.07		
Butchers' MeatFish and Fowl	1.00		3.23 .69	3.74 .41	4.10 1.36	
FUEL, LIGHT AND WATERCoal and WoodElectricity Gas Dil, Candles, Matches, etc		8.36 .18 .33 .11	6.16 .49 .23 .06	4.58 .54 .24 .01		.0
Water CLOTHING	3.12	3.41	.88 2.57 2.25	1.88		3.43
Clothing—Dry Goods	2.40 .72	.78	.32	.35	.58	.6
LAUNDRY AND CLEANING	1.27	.99		.59		
Brushes, Brooms and Mops Miscellaneous Expenses Soap	.28	.29	. 17	.15	.38	.20
GENERAL REPAIRSFurniture and Furnishings	5.02	1.32	1.93		3.89	2.98
OFFICE EXPENSES. Miscellaneous Items. Postage Telephone and Telegraph.	.16	.14	.09	.14 .10	.11 .15	.12
SALARIES Supt. and Physicians Bursar and Assistants Matron and Assistants. Engineer and Assistants Artisans, not Domestic Farm and Garden. Teachers.	$\begin{array}{c c} 1.59 \\ 1.69 \\ 3.38 \\ 2.20 \\ 1.09 \\ 2.40 \end{array}$	$ \begin{array}{c} 1.78 \\ 1.55 \\ 2.88 \\ 2.17 \\ 1.04 \end{array} $	$   \begin{array}{r}     1.49 \\     2.56 \\     1.39 \\     .69   \end{array} $	1.30 1.44 2.57 1.23	2.19 $2.51$ $2.50$ $1.51$	2.09 1.96 2.30 2.20 1.40
Attendants and Nurses. Temporary Assistance.	8.78				10.30 .02	

No. 21.

per Day for the Twelve Months ending 31st October, 1918.

Lon	don.	Min	nico.	Ori	llia.	Pene	etang.	Tor	onto.	Wood	stock.
This Year.	Last Year.	This Year,	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year,
433,622	425,667	240,439	237,583	365 , 192	343,158	132,962	133,417	374,507	360,249	15,536	76.441
1,188.00	1.116.21	658.74	650.91	1,001.35	940.16	361.28	365.39	1,026.05	986.99	206.95	209.35
Cents.	.21	Cents.	.54	.43	.55	.21	.15	Cents.	Cents.	Cents.	Cents.
.23	.21	.62	.54	.43	.55	.21	.15	, 40	.37	.78	.87
16.19 .46 2.72	15.36 .41 2.59		15.56 .55 2.72	12.14 .61 1.34	11.82 .37 1.91	13.27 .36 2.07	12.15 .28 2.21	$20.55 \\ .34 \\ 3.26$	17.96 .33 2.80	3.19	16.03 .31 3.21
.73 .23	.64 .29	$\frac{.46}{.48}$	.36 $.35$	.45 $.35$	.34 $.30$	.54	.47 .01	.55 $.54$	.48 .62	.49	.41
3.26	2.86	3.69	2.98	3.55	3.40	3.47	2.93	3.23	2.76	3.75	2.66
.74 .39	.25 $.50$	.83 .41	.62 .67	.41	.48	.38 .51	.54 .45	.51 .64	$\begin{array}{c} .47 \\ 1.00 \end{array}$	$\frac{.32}{1.57}$	$\frac{.87}{1.03}$
1.35	1.61	1.39	1.31	.75	.97	1.49	1.42	3.04	1.78	2.83	2.72
.46	.40	.23	.24	.31	.13	.36 .02	.53	$\frac{1.21}{.09}$	$\frac{1.24}{.08}$	.72 .04	1.08
1.22	1.23	1.14	1.00	.93	.92	.46	.40	1.11	.99	1.39	1.15
$\frac{1.09}{2.82}$	$\frac{.88}{3.24}$	$\frac{.76}{4.55}$	$\frac{.80}{3.51}$	$\frac{1.01}{1.46}$	$\frac{.73}{1.42}$	$\frac{.91}{1.74}$	1.67	$\frac{1.03}{3.58}$	.93	.68	.40
.65	.40	.72	.37	.55	.25	.96	.44	1.42	$\frac{3.77}{.71}$	$\frac{1.75}{.88}$	$\frac{1.28}{.83}$
9.58	7.81	11.41	7.20	10.39	6.94	12.37	7.66	10.86	5.39	10.24	9.35
8.95	$\frac{7.12}{.55}$	$\frac{10.83}{.48}$	$\frac{6.71}{.40}$	$9.73 \\ -52$	$\frac{6.24}{.54}$	$10.27 \\ .21$	5.37	8.75	$\begin{array}{c} 3.66 \\ .20 \end{array}$	$\frac{7.28}{.63}$	$5.72 \\ .74$
.12	.12							.49	.62	.00	
.06		.10	.09	.03	.02	$\frac{.03}{1.86}$	$\frac{.13}{2.05}$	$\frac{.06}{1.23}$	.05	2.32	$\begin{array}{c} .63 \\ 2.86 \end{array}$
3.22	2.93	2.79	2.14	4.45	3.34	3.71	3.02	1.95	1.09	.62	.64
2.43	$\begin{array}{c} 2.41 \\ .52 \end{array}$	$\frac{2.43}{.36}$	$\begin{array}{c} 1.75 \\ .39 \end{array}$	$\frac{3.42}{1.03}$	2.47	$\begin{bmatrix} 2.70 \\ 1.01 \end{bmatrix}$	2.14	1.62	.75 .34	.41	.46 .18
1.36	.98	1.33	1.05	1.14	.86	.62	.55	1.75	1.10	1.87	1.37
$\frac{.16}{.28}$	.18	.21 .27	.18 .28	.18	.13	.12	.10 .20	.14	.13	.13	.13 .61
.92	.60	.85	.59	.82	.62	.35	.25	.96	.73	.82	.63
2.75	2.82	2.89	2.15	2.85	2.76	2.38	1.81	4.90	4.37	1.98	2.43
$\frac{2.50}{.25}$	$\begin{array}{c} 2.17 \\ .65 \end{array}$	$\frac{2.67}{.22}$	$\frac{1.59}{.56}$	$\frac{2.41}{.44}$	1.98	2.30	1.12	4.62	3.81	1.85	1.61
					.78	.08	.69	.28	.56	.13	.82
.32 .13	.33	.35 .11	.40 .13	.28 .09	.25	.17	.18 .06	.21	.30	.36	.34
.11	.10	.12	.14	.14	.13	.06	.05	.06	.05	.12	.14
.08	.07	.12	.13	.05	.05	.07	.07	.09	.11	.16	.11
17.99	16.80	18.80	18.65	11.77	10.98	20.94	19.27	16.43	14.67	25.49	24.27
$\frac{1.36}{1.42}$	$\frac{1.32}{1.31}$	$\frac{2.23}{1.23}$	$\frac{2.64}{1.15}$	$\frac{1.58}{.97}$	$\frac{1.64}{.98}$	$\frac{2.78}{2.14}$	$\frac{2.79}{2.02}$	$\frac{1.87}{1.65}$	$\frac{1.96}{1.60}$	$\frac{5.29}{2.68}$	$\frac{5.23}{2.56}$
2.68	2.75	2.39	2.50	2.34	2.29	3.13	2.71	2.53	2.28	3.85	3.71
1.99	$\frac{2.04}{.85}$	$\frac{1.75}{.87}$	1.96 $.82$	.94	$\frac{1.06}{.52}$	$\frac{1.90}{2.11}$	$\frac{1.90}{1.97}$	$\frac{1.40}{.52}$	$\frac{1.07}{.63}$	$\frac{1.19}{1.04}$	$\frac{1.16}{1.05}$
1.73	1.59	1.89	1.92	1.09	.90	$\frac{5.41}{2.43}$	2.35	.60	.59	5.14	4.86
7.82	6.83	8.40	7.66	$\frac{.35}{3.87}$	$\begin{array}{c} .35 \\ 3.24 \end{array}$	5.90	5.53	7 60	6.54	6.20	5.62
	.11			.06						.10	.08

TABLE Comparative Statement of Average Maintenance Cost per Capita

	Brock	ville.	Ham	il <b>ton.</b>	King	ston.
	This Year,	Last Year.	This Year.	Last Year.	This Year.	Last Year.
Days' residence of patients	283,531	284,371	478,932	465,283	202,925	208,321
Average number of patients	776.80	779.00	1,312,14	1,274.74	553.96	570.74
ALLOWANCES Employees' Meals " Uniforms " Other Allowances	Cents. 6.65 6.08 .37 .20	Cents. 5.70 5.39 .16 .15	Cents. 5.49 5.29 .19	Cents. 4.21 3.89 .27 .05	Cents. 6.15 5.84 .26 .05	Cents. 5.79 5.60 .18
FARM AND GARDEN Feed and Fodder Miscellaneous Farm Expenses Seeds, etc	5.88 4.48 1.12 .28	5.00 3.60 1.00 .40	4.49 3.63 .64 .26	4.23 3.19 .63 .41	3.75 2.68 .49 .57	3.44 2.67 .49
CONTINGENCIES Amusements, Religion, Education Elopers, Cost of Recovery. Freight, Duties, etc. Ice. Incidental Expenses. Officers' Travelling Expenses.	.77 .18 .02 .10 .04 .34	.02 .13 .04 .26	.71 .07 .01 .06 .14 .36	.18	.01	.02
Per Capita cost per day, less Salaries	27.90	25.52		18.15	52.54 28.30 80.84	26.59
Less total recovery per Capita per day	20.21	16.66	19.31	18.10	16.81	15.36
Net per Capita burden payable by Province	55.60	47.60	38.81	34.51	64.03	53.23

N.B.—The accompanying is a Comparative Statement of the cost of maintenance per patient A.B.—Ine accompanying is a comparative statement of the cost of manufelance per patient per day for the twelve months ending 31st October, 1918, in the nine Hospitals for the Insane, as compared with the twelve months ending 31st October, 1917, based on actual consumption and calculated to two places of decimals of a cent. The figures in black-faced type represent totals. Under the headings "Provisions" and "Clothing" is shown the actual consumption by

patients—the value of such supplies to officers, attendants, nurses and employees being included under the heading "Allowances."

Where no charge is shown for light or water, these are included in the cost of coal.

No. 21-Concluded.

per Day for the Twelve Months ending 31st October, 1918.—Concluded.

Lon	don.	Min	nico.	Oril	lia.	Penet	tang.	Toro	nto.	Woods	tock.
This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.
433,622	425,667	240,439	237,583	365,492	343,158	132,962	133,417	347,507	-360,249	75,536	76,411
.188.00	1,116.21	658.74	650.91	1,001.35	940.16	261.28	365,39	1,026.05	986.99	206.95	209.35
Cents. 4.85 4.45 .35 .05	Cents. 4.55 4.25 .27 .03	Cents. 5.84 5.32 .40 .12	Cents. 4.84 4.40 .28 .16	Cents. 3.49 3.33 .15	Cents. 3.39 3.25 .11 .03	Cents. 5.02 4.50 .30 .22	Cents. 4.75 4.41 .20 .14	Cents. 4.33 3.96 .29 .08	Cents. 4.31 4.03 .26 .02	Cents. 7.86 7.23 .12 .51	Cents. 6.93 6.4 .1
4.99 3.69 .72 .58	4.25 3.22 .58 .45	3.83 2.84 .79 .20	3.35 2.28 .72 .35	2.26 1.83 .35 .08	2.25 1.66 .42 .17	4.57 3.69 .62 .26	4.65 4.07 .45 .13	.41 .17 .22 .02	.25 .13 .11 .01	12.02 8.78 2.07 1.17	10.2 8.1 1.3 .7
.40 .09 .03 .04	.35 .09 .01 .04	.53 .11 .02 .05 .12 .23	.49 .11 .01 .04 .13 .20	.39 .06 14 	.32 .07 	.56 .07 .19 	.52 .04 .15 .31	.62 .08 	.75 .07 .01 .17 .31 .16	.30 .12 	.0
39.04 22.84 <b>61.88</b>	35.04 21.35 56.39	42.25 24.64 66.89	32.88 23.49 56.37	34.33 15.26 49.59	29.09 14.37 43.46	37.86 25.96 63.82	30.69 24.02 54.71	41.65 20.76 <b>62.41</b>	31.58 18.98 <b>50.56</b>	46.28 33.35 <b>79.63</b>	41.49 31.29 72.73
20.58 41.30	18.06 38.33	19.02 47.87	18.39 37.98	8.93 <b>40.68</b>	7.10 36.36	8.17 55.65	9.01 <b>45.70</b>	14.01 48.40	14.83 35.73	42.97 <b>36.66</b>	38.00 34.71

TABLE Comparisons, Appropriations, Expenditures, Consumption, Population

	Comparisons, Appropriations,	Daponditutos		n, ropulation
		Brockville.	Hamilton.	Kingston.
Daws' residence of nation	nte	283,531	478,932	202,925
Days' residence of patients,			1,312 14	555 96
Medicines	Appropriation	\$1,800 00	\$1,800 00	\$1,800 00
medicines	Expenditure		1,642 08	935 55
	Consumption		1,642 08	935 55
Provisions	Appropriation	70,000 00	98,000 00	45,000 60
	Expenditure	66,831 87	97,061 02	42,213 64
	Consumption	50,756 19	89,716 37	41.577 15
Fuel, Light and Water	Appropriation	43,000 00	55,000 00	40,000 00
, -	Expenditure	37,862 18	52,652 58	38,468 29
	Consumption	36.105 19	37,457 96	35,665 75
Clothing, etc	Appropriation	10,000 00	12,000 00	9.000 00
,	Expenditure	9.989 99	11,297 05	7,260 90
	Consumption		12,290 23	7.236 98
Laundry, etc	Appropriation	4,200 00	4,000 00	3,000 00
Daniely, Committee	Expenditure		3,935 25	2,712 56
	Consumption		3.563 60	2,562 03
General Renairs etc	Appropriation			
deneral repairs, etc	Expenditure			
	Consumption		10,397 98	8.731 24
Office	Appropriation	1,500 00		1.500 00
Omce	Expenditure		1,394 57	773 88
	Consumption		1,396 40	752 88
Calarias	Appropriation	68,057 00	83,600 00	58.950 00
Salaries	Expenditure	60.241 99	70.663 30	
				44,939 40 57,422 34
Farm sto	Consumption		96.974 29	
rarm, etc		10.000 00	15.500 00	7.000 00
	Expenditure	9.880 44	15.439 51	6.283 54
a. d	Consumption	16.686 67	21.533 72	7.610 84
Contingencies	Appropriatiou		3,850 00	2,550 00
	Expenditure	2.187 72	3.367 77	1.481 04
OD 4 1 35 1 4	Consumption	2.175 15	3.367 77	1.550 72
Total Maintenance	Appropriation	211.157 00	275.750 00	168.800 00
	Expenditure	193,641 99	257.363 13	145,068 80
~	Consumption	214.949 13	278.340 40	164,045 48
Capital Accounts	Appropriation	32,350 00	31.100 00	20.300 00
	Expenditure	31.138 37	27,863 30	17,921 14
Grand Totals	Appropriation		306.850 00	189,100 00
T)	Expenditure	224,780 36	285,226 43	162,989 94
REVENU	E COLLECTIONS.			
From paying patients th	is year to date	32,547 42	63,061 49	23,018 42
la:	st ''	28,172 40	52,343 49	22,224 25
Patients Ravenue per es	pita this year cents	11.48	13.17	11.34
, et to tende per ca	last '' cents	9.91	11.25	10.67
		\$9,600 88	5,123 95	1.560 29
	ales this yearst		15,721 81	1,622 67
10		3.39	1.07	.77
rarm and Misc. Revenu	e per capita this yearcents	2.12	3.37	.78
Total Revenue this year.		\$42,148 30	68,185 44	24,578 71
last ''		34,207 74	68,065 30	23,846 92
		31,20,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Total Revenue ner canita	per day this yearcents	14.87	14.24	12.11
1 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	'alast 'cents	12.03	14.62	11.45
	1450	12.0.7	15	
Farm Production Consur	aption this yearcents	5.34	5.07	4.70
4 Locatonon Consul	' last ''cents	4.63	3.48	3.91
	iasicents	7.09	9.40	0.01
Total Recovery per cani	ta this yearcents	20 21	19.31	16.81
Total Recovery per capi	last ''cents	16.66	18.10	15.36

No. 22. and Revenue for the Twelve Months ending 31st October, 1918.

London.	Mimico.	Orillia.	Penetang.	Toronto.	Woodstock
433,622 1,188 00 1,800 00 1,103 78 1,006 28 73,000 00 72,925 75 70,200 86 52,000 00 45,516 58 41,503 02 15,250 00 15,240 73 13,970 52 7,000 00 6,084 27	240,439 658 74 1,500 00 1,496 79 1,496 79 50,000 00 47,036 98 44,487 78 28,000 00 27,604 76 27,433 37 7,000 00 6,700 03 6,714 14 3,000 00 2,892 78	365,492 1,001 35 2,100 00 1,588 61 1,588 61 49,000 00 48,959 03 44,377 65 21,000 00 19,594 67 37,993 82 16,000 00 14,355 47 16,220 22 4,250 00 4,152 44	132,962 364 28 750 00 278 74 278 74 22,500 00 21,641 19 17,644 91 15,600 00 13,961 96 16,446 31 6,000 00 5,354 66 4,939 34 1,500 00 1,018 27	374,507 1,026 05 2,000 00 1,526 87 1,498 87 90,000 00 89,485 38 76,966 38 35,000 00 33,380 04 40,604 81 9,000 00 8,759 25 7,297 74 6,000 00 5,878 98	75,536 206 95 900 00 589 31 15,000 00 14,856 36 13,674 65 9,000 00 8,725 87 7,737 22 2,000 00 397 53 470 69 1,500 00 1,472 85
5,891 83	3,191 85	4.149 16	821 02	6,626 37	1,408 24
11,933 66 1,800 00 1,390 45 1,390 45 82,910 00 78,012 61 99,029 28 17,000 00 16,419 14 2,500 00	6,940 06 1,200 00 841 98 841 98 55,575 00 45,213 87 59,253 57 5,000 00 4,986 63 9,211 06 2,200 00	10.421 86 1.200 00 962 74 962 24 55.702 00 42.990 63 55.761 11 6.500 00 5.680 36 8.370 03 1.800 00	3. 161 59 600 00 229 79 229 79 32.148 00 27.844 60 34.517 93 5,500 05 5,296 65 6.070 80 1.150 00	18,353 93 1,500 00 790 87 791 41 70,852 00 61,505 74 77,726 08 1,500 00 1,492 09 1,562 40 3,500 00	1,498 43 500 00 269 75 269 75 22,026 00 19,256 23 25,191 63 5,500 00 5,455 53 9,078 11 1,000 00
1,812 71 1,731 75 253.260 00 238,506 02 268,312 56 33,100 00 27,622 72	1.277 57 1.277 57 1.277 57 153.475 00 138.051 39 160.848 17 18.000 00 13.527 52	1.422 71 1.425 59 157.552 00 139.706 66 181,270 29 21.500 00 17.218 83	740 33 710 38 85.743 00 76,366 19 84.850 76 11.300 00 10.125 00	2.399 07 2.330 35 219.352 00 205.218 29 233.758 34 26.700 00 25.807 39	317 85 229 35 57,426 06 51,341 35 60,147 47 14,300 06 12,310 33
286,360 00	171.475 00	179,052 00	97,043 00	246,052 00	71,726 00
266,128 74	151.578 91	156,925 49	86,491 19	231,025 68	63,651 68
<b>59.117 46</b> 52,358 30	29,085 65	17.817 83	2.874 85	<b>50,513 96</b>	19,756 31
	26,512 70	14.487 59	2.908 29	52,046 03	17,872 88
13.63	12.10	4.82	2.16	13.49	26.15
12.30	11.16	4.22	2.18	14.45	23.39
10.688 93	529 79	4.641 33	1.376 48	1.727 58	4,387 19
8.946 73	3.216 52	2.417 21	2.553 40	902 41	4,243 55
2.47	.22	1 27	1.04	.46	5.81
2.10	1.35	.70	1.91	.25	5.55
69,806 39	29.615 44	22,459 16	4.251 33	52.241 54	24,143 50
61,300 03	29.729 22	16,904 80	5,461 69	52.948 44	22,116 49
16.10	12.32	6. <b>09</b>	3.20	13.95	<b>31.9</b> 6
14.40	12.51	4.92	4.09	14.70	28.94
4.48	6.70	2.82	4.97	.06	11.01
3.66	5.88	2.18	4.92	.13	9.08
20.58	19.02	8.91	8.17	14.01	42.97
18.06	18,39	7.10	9.01	14.83	38.03

### NOTES ON PER CAPITA STATEMENT.

Attached hereto is a statement of the cost of maintenance per patient per day for the year ending October 31st, 1918, in the nine hospitals mentioned, as compared with the year 1916, being based on actual consumption.

It follows out the order of the sub-divisions of appropriations voted by the Legislature, and is calculated to two places of decimals of a cent. The figure in black-faced type represents totals.

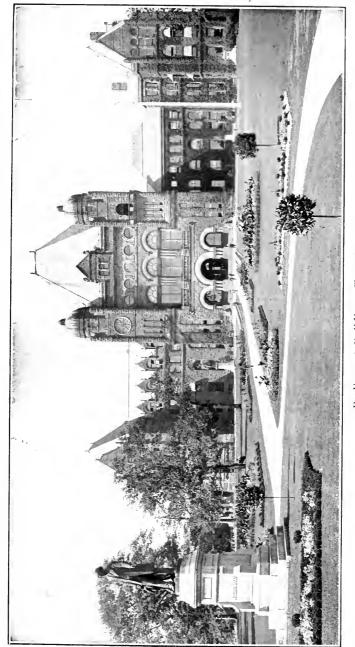
Invoices for all purchases, properly certified by the Bursar and the Store-keeper, as to accuracy and receipt of goods, are checked in the Department before being submitted to the Treasury for payment.

A system of Daily Requisitions for all supplies, such as provisions, is carried out and these requisitions are forwarded to the Department semi-weekly. In case of coal, the amount consumed on each shift is weighed and weekly report of consumption made by the engineer.

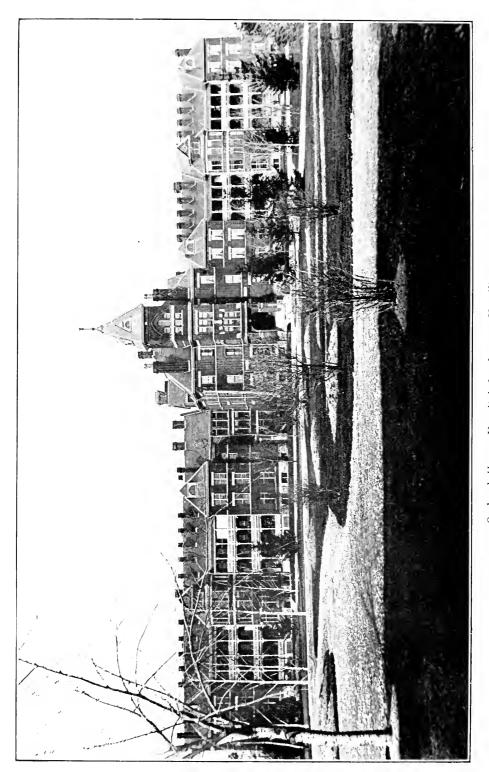
Under headings "Provisions" and "Clothing" is shown only consumption by patients—the value of such supplies to officers, attendants, nurses and employees being included in the account "Employees' Meals and Uniforms" under the heading "Salaries."

Quarterly inventories of stock are taken at each institution, and are checked with the ledger accounts of the Department.

Returns are made of all products of the Farm and Garden, as received, charges being made against the cost of maintenance, and the Farm and Garden given credit for the same; for this purpose a uniform price list is in use for all institutions, regardless of soil or fertility of farm. At the end of the year the value per patient per day of such products—fruits, vegetables, feed and fodder, meat and eggs—is deducted from the gross per capita cost and appears in the statement as "Farm Recoveries."



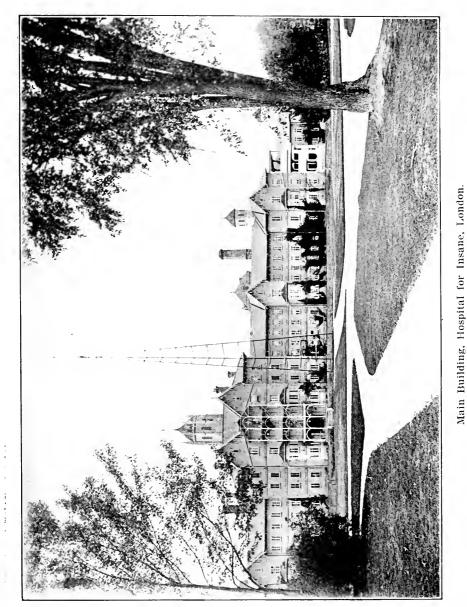
Parliament Buildings, Toronto.



Orchard Home, Hospital for Insane, Hamilton.

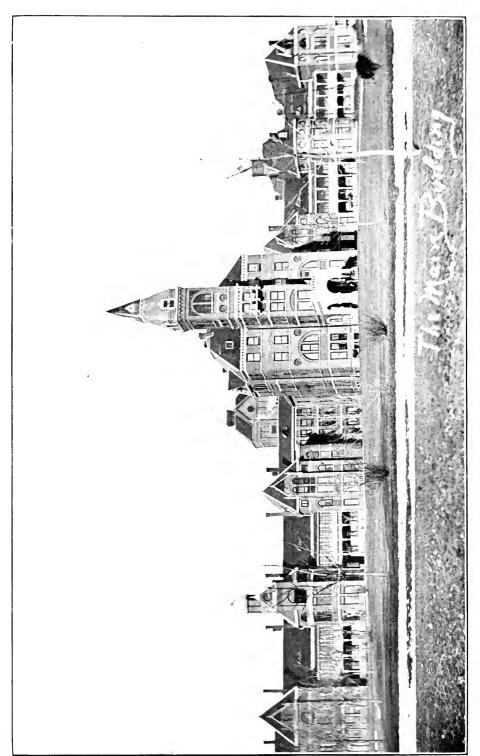
Main Building, Hospital for Insane, Hamilton.

Main Building and Cottages, Mimico.

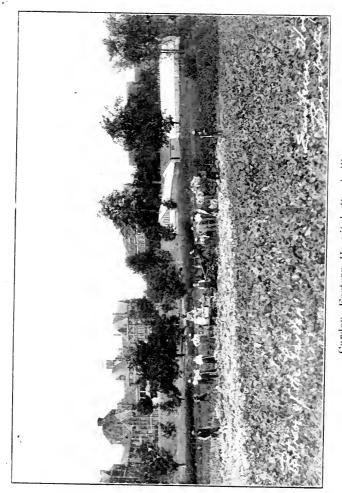




Nurses' Home, Rockwood Hospital, Kingston.



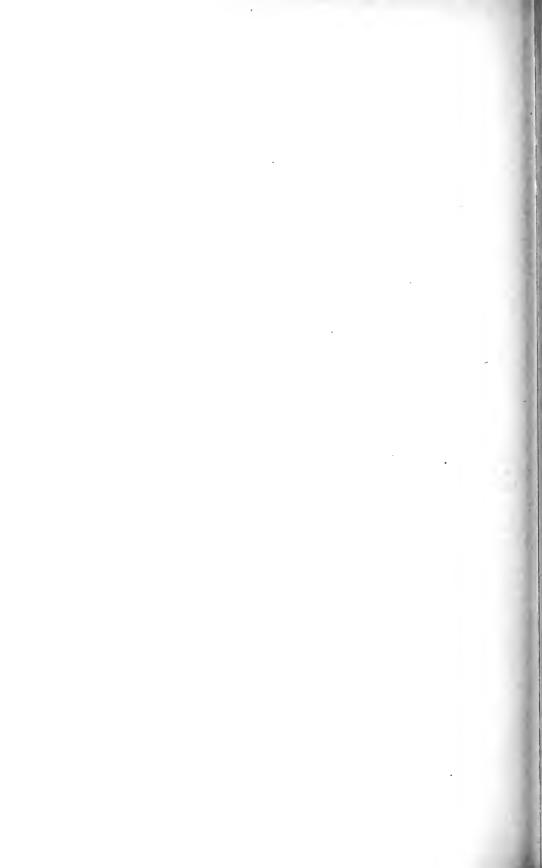
Main Building, Bastern Hospital for Insane, Brockville,



Garden, Eastern Hospital, Brockville.

## APPENDIX

TO FIFTY-FIRST ANNUAL REPORT UPON THE HOSPITALS FOR THE INSANE AND CONTAINING THE ANNUAL REPORTS OF THE MEDICAL SUPERINTENDENTS OF THE HOSPITALS IN BROCKVILLE, HAMILTON, KINGSTON, LONDON, MIMICO, PENETANGUISHENE, TORONTO, AND HOMEWOOD SANITARIUM, GUELPH.



## ANNUAL REPORT OF THE MEDICAL SUPERINTENDENT, HOSPITAL FOR THE INSANE, BROCKVILLE, YEAR ENDING OCTOBER 31st, 1918.

Brockville, January 29th, 1919

W. W. DUNLOP, Esq.,

Inspector of Prisons and Public Charities.

Sir,—I have the honour to submit the Report of this Hospital for the year ending October 31st, 1918.

On November 1st. 1917 there remained in the Hospital a population of 801 patients—378 males and 423 females. From November 1st, 1917 to October 31st, 1918 there were admitted 111 males and 91 females, a total of 202. Of these 17 males and 10 females were admitted voluntary and 3 females and 2 males by warrant. The total number under treatment was 1,003.

There have been 39 males and 25 females, a total of 64, discharged as recovered. Twenty males and 19 females, a total of 39, discharged as improved and three males and one female discharged as unimproved: a total in all discharged—62 males, 45 females—107.

The deaths were 40 males and 53 females—a total of 93. The deaths were much in advance of any previous year. This is partly due to the Epidemic of Influenza which began so severely in October but principally to the passing away of many of our very old patients who had been in residence many years.

We had one male deported, one transferred to another Hospital and nine eloped so that there were remaining in the Hospital on October 31st, 1918, 376 males, 416 females, a total of 792.

The work in our Training School was quite successful and our nurses took a high standing, comparing favorably with any other Institution in the Province. The average standing in all years was good. Our Graduation Exercises on the 10th of June were very successful, and we had ten graduates many of whom have followed different activities in life and some are adhering to the nursing profession. The attendance was large.

We had the usual success with our annual sports and the patients had a very enjoyable day. The exhibit of work done by the women patients did them great credit. This day is always a "red letter" one in the Institution.

We also contributed our quota to the exhibit at the National Exhibition, Toronto. We not only had an exhibit of patients' work, which reflected great credit on those taking part, but an excellent exhibit of farm and garden produce.

We made a very creditable exhibit of re-educational work at the meeting of the American Medico-Psychological Association in Chicago the first week in June. This work of patients' attracted a good deal of attention from those interested in our Hospital work.

The tiling left unfinished last year in our cottage, bath-rooms, lavatories and pantries has been completed.

Our Medical Staff for the year has practically consisted of the Assistant Super-intendent, Dr. Kidd, and myself.

The returns from farm and garden were excellent. The grain crop was exceptionally good and gave a large yield. We had 27 acres of Marquis Wheat that yielded slightly over 40 bushels per acre.

We again feel greatly indebted to the Clergymen who rendered us such excellent service during the year, each denomination doing their best not only to look

after the sick but to give us regular church services.

We are indebted to the staff for their loyalty and co-operation throughout the work of the year.

Again thanking you for your kindly consideration and advice.

I have the honour to be. Sir.

Your obedient servant.

J. C. MITCHELL.

Medical Superintendent.

## ANNUAL STATISTICAL REPORT OF THE OPERATIONS OF THE HOSPITAL FOR INSANE, BROCKVILLE, FOR THE YEAR ENDING OCTOBER 31st, 1918.

#### TABLE No. 1-BROCKVILLE.

Showing movements of patients in the Hospital for the official year ending October 31st, 1918.

<del></del>	Male.	Female	. Total	Male.	Female.	Total.
Capacity of Hospital	386	378	764			
In Residence October 31st, 1917		-		378	423	801
Admitted during the year 1918: By Warrant	2 109	3 88	5 197	111	91	202
Total number under treatment during the year 1918				489	514	1.003
Discharges during year: As recovered	20	25 19 1	64 39 4			
Total number discharged during year	62	45	107			
Died Deported. Eloped. Transferred.	40 1 9 1	53	93 1 9 1	113	98	211
Remaining in Hospital October 31st,	51	53	104	376	416	792
Total number admitted since opening of Hospital  Total number discharged since opening of Hospital  Total number died since opening of Hospital  Total number deported since opening of Hospital  Total number eloped since opening of Hospital  Total number ransferred since opening of Hospital	723 632 14 82	776 532 9	1,499 1,164 23 84	1,855	1,810	3,665
of Hospital		75	103	1,479	1,394	2,873
31st, 1918	1,479	1,394	2,873	376	416	792
Daily average population	387.5 141,485 18	426.4 155,656 15	814.01 297,114 33			

TABLE No. 2-BROCKVILLE.

Showing Social State and Religion of patients admitted during the year and since opening of Hospital.

	I	n residen	ce.	Admi	ssions of	Year.	Adı	nissions s opening.	
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total
SOCIAL STATE.							1		
Single	153	161	314	63	35	98	1,668	831	1,899
Married	204	215	419	43	45	88	727	857	1,68
Widowed	16	39	55	5	10	15	57	118	17
Divorced	1	••••	1				1		
Separated	2	1	3		1	1	2	1	
Unascertained	ļ				 			l	
Totals	376	416	792	111	91	202	1.855	1,810	3.66
RELIGION.					·			1.	
Baptists	14	20	34	1	1	2	52	47	9
Congregationalists	2	7	9	1	 	1	13	. 5	1
Church of England	60	75	135	21	13	34	344	342	68
Methodists	40	60	100	27	25	52	297	351	64
Presbyterians	57	50	, 107	12	25	37	338	331	66
Roman Catholics	170	175	345	44	27	71	704	- 662	1.36
Other Denominations	27	21	48	5		5	70	60	13
Unascertained	6	8	14				37	12	4
Total	376	416	792	111	91	202	1,855	1,810	3.66

TABLE No. 3-BROCKVILLE.

Showing nativity of patients admitted during the year and since opening of Hospital.

N. Calar	Admi	ssions of	Year.	Admissions since opening.						
Nativity.	Male.	Female.	Total.	Male.	Female.	Total.				
Total admissions	111	91	202	1,855	1,810	3,665				
Total born in Canada	97	75	:172	1,518	1,504	3,022				
Armenia				2						
Austria	1		1	8	3	11				
AustraliaBelgium										
Bulgaria						1				
China				1 2		1 2				
EnglandFrance		5 1	10 1	99	83 1	182 7				
Finland										
Greece				6	8					
Holland						*******				
Ireland Italy	2 1	1	3 2	87	111	198 8				
Japan										
Other British Possessions				1		1				
Roumania	1 3		1 8	10 43	15 47	25 90				
South America	•••••			2	1	3				
Sweden	<b>.</b>			1		1				
United States	1	3	4	38	27	65 1				
Unascertained				19	7	26				
Totals	111	91	202	1,855	1,810	3,665				

TABLE No. 4-BROCKVILLE.

Showing the occupation of those admitted during the year and since the opening of the Hospital.

	Adm	itted this	year.	Si	nce openi	ng.
Occupation.	Male.	Female.	Total.	Male.	Female.	Total.
Professional:— Clergy, Military and Naval Officers, Physicians, Lawyers, Architects, Artists, Authors, Civil Engineers, Surveyors, etc	3		3	39	1	43
Commercial:— Bankers, Merchants, Accountants, Clerks, Salesmen, Stenographers, Typewriters, etc	17	2	19	181	33	214
Agricultural and Pastoral:— Farmers, Gardeners, Stock Men, etc.	37	,	37	541		541
Mechanics at Outdoor Vocations:— Railway and Stationary Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers, Painters, Police, etc	3		3	187		187
Mechanics, etc., at Sedentary Vocations: Shoemakers, Bookbinders, Compositors, Weavers, Tailors, Seamstresses, Bakers, Factory Workers, etc	7	6	13	109	59	168
Domestic Service:— Waiters, Cooks, Servants, etc		. 10	10	11	276	287
Education and Higher Domestic Duties:— Governesses, Teachers, Students, Housekeepers, Nurses, etc	6	78	79	35	1.302	1,337
Miners, Marine Engineers, Railway Employees, Seamen, etc	1		. 1	33		33
Laborers	27		27	589		589
No Occupation				69	113	182
Unascertained				48	23	71
Soldiers	10		10	13		13
Totals	111	91	202	1.855	1,810	3,665

## TABLE No. 5-BROCKVILLE.

Showing the Counties and Districts from which patients have been admitted during the year, and since opening of Hospital.

Counties and Districts.  Algoma District. Brant. Bruce. Carleton. Dundas. Dundas. Frontenac. Glengarry. Grev. Haldimand Halton. Hastings Huron Kent. Lambton Lanark.  20	39	73 15  16 	93 6 4 7 18 104 141 3 3		11 16 1.054 1.054 8 11 35 211 286	Male.		Total.	102 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112 Male 112	Eemale.		Wale.		Total.
Algoma District. Brant Bruce Carleton Dundas Dufferin Dundas Durham Elgin Essex Frontenac Gelengarry Grenville Haldimand Halton Hastings Huron Kent Lambton Lanark Leeds Lennox and Addington Lincoln Middlesex Muskoka District Norfolk Northumberland Ontario Oxford Temiskaming. Peel Perth Peterborough Prescott Rainy River District Renfrew Russell Simcoe  34 24 24 25 26 27 28 29 20 21 21 22 23 24 24 26 27 27 27 27 27 27 27 27 27 27 27 27 27	39	73 15  11 16	1 4 508 93 6 4 7 18 104 141 3	546 96 8 4 4 17 107 145	11 6 1.054  1889 14 8 11 35 211 286				1 2 162 1	119	1 2 281 1	 117 	143	
Brant Bruce Carleton	39	73 15  11 16	93 6 4 7 18 104 141 3	546 96 8 4 4 17 107 145	1 6 1.054 1.89 14 8 11 35 211 286				162 162 1	119	281 281	ii7 	i43	
Brant Bruce Carleton	39	73 15  11 16	93 6 4 7 18 104 141 3	546 96 8 4 4 17 107 145	1 6 1.054 1.89 14 8 11 35 211 286				162 162 1	119	281 281	ii7 	i43	
Bruce Carleton	39 8 6 5	73 15  11 16 	18 104 141 3	2 546 96 8 4 4 17 107 145	1.054  189 14 8 11 35 211 286				162	119	$\begin{array}{c} 281 \\ \cdots \\ 1 \end{array}$	117 	143	
Dufferin. Dundas 7 Durham. Elgin. Essex. Frontenac Glengarry. 5 Grenville 11 Grey Haldimand Halton Hastings Huron. Kent. Lambton Lanark 20 Leeds 15 Lennox and Addington Lincoln. Middlesex. Muskoka District. Norfolk. Norfolk. Northumberland Ontario. Oxford Temiskaming. Peel. Perth Peterborough Prescott. 7 Prince Edward Rainy River District. Renfrew Russell. 2 Simcoe.	6 5	11 16	93 6 4 7 18 104 141 3	96 8 4 4 17 107 145	189 14 8 11 35 211 286				1		····i	$\frac{\cdot\cdot\cdot}{9}$		200
Dundas 7 Durham. 7 Durham. 7 Durham. 7 Elgin. 8 Essex. 7 Frontenac 7 Glengarry. 5 Grenville 11 Grey	6 5	11 16	6 4 7 18 104 141 3	8 4 4 17 107 145	189 14 8 11 35 211 286				3	!	1		9	
Durham. Elgin Essex Frontenac Glengarry. 5 Grenville 11 Grey Haldimand Halton Hastings Huron Kent Lambton Lanark 20 Leeds 15 Lennox and Addington Lincoln Middlesex. Muskoka District. Nipissing District. Nipissing District. Norfolk Northumberland Ontario Oxford Temiskaming. Peel Perth Peterborough Prescott Prince Edward Rainy River District Renfrew Russell 2 Simcoe	6 5	11 16	6 4 7 18 104 141 3	8 4 4 17 107 145	14 8 11 35 211 286				3					18
Elgin. Essex. Frontenac Glengarry. Grenville. Grey Haldimand Halton Hastings Huron Kent. Lambton Lanark. Leeds. Lennox and Addington. Lincoln. Middlesex. Muskoka District. Norfolk. Northumberland. Ontario. Oxford. Temiskaming. Peel. Perth. Peterborough Prescott. Reinfrew Russell. Russell. Simcoe. 5 Grenville 10 5 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	6 5	11 16	7 18 104 141 3	17 107 145	11 35 211 286		• • • •		3	1			3	3
Essex Frontenac Glengarry. 5 Grenville 11 Grey Haldimand Halton Hastings Huron Kent Lambton Lanark 20 Leeds 15 Lennox and Addington Lincoln Middlesex Muskoka District Norfolk Northumberland Ontario Oxford Temiskaming. Peel Perth Peterborough Prescott Rainy River District Renfrew Russell 2 Simcoe	6 5	11 16	18 104 141 3 3	17 107 145	35 211 286	• • • •					4			
Glengarry 50 Grenville 11 Grey Haldimand Hastings Huron Kent Lambton Lanark 20 Leeds 15 Lennox and Addington Lincoln Middlesex Muskoka District Nipissing District Nipissing District Norfolk Northumberland Oxford Temiskaming Peel Perth Peterborough Prince Edward Rainy River District Renfrew Russell 2 Simcoe 2	6 5	11 16	104 141 3 3	$\frac{107}{145}$	$\frac{211}{286}$				4	4	11	2		3
Grenville	1	16	141 3 3	145	286				1	7 1 2	2	- 3 18	5	8 37
Grey Haldimand Halton Hastings Huron Kent Lambton Lanark Leeds Leeds Lincoln Middlesex Muskoka District Norfolk Northumberland Ontario Oxford Temiskaming Peel Perth Peterborough Prescott Rainy River District Renfrew Russell Simcoe	1	1	3						1	2	$\frac{2}{3}$	19		$-\frac{57}{40}$
Haldimand Halton Hastings Huron Kent Lambton Lanark Leeds Leeds Lincoln Middlesex Muskoka District Norfolk Northumberland Ontario Oxford Temiskaming Peel Perth Peterborough Prescott Rainy River District Renfrew Russell Simcoe  Hartings Huron 20 15 20 15 21 21 21 21 21 21 21 21 21 21 21 21 21	1	1	3						1	1;	2			
Halton Hastings Huron Kent Lambton Lanark Leds Lends Lincoln Middlesex Muskoka District Nipissing District Norfolk Northumberland Ontario Oxford Temiskaming. Peel Perth Peterborough Prescott Reingrew Russell Russell Simcoe  Huron  20 15 16 16 17 17 18 18 19 19 10 10 10 11 11 11 11 11 11 11 11 11 11	1	1	2						3		9	1		1
Hastings Huron Kent Lambton Lanark Leeds Leeds Leeds Lincoln Middlesex Muskoka District Nipissing District Norfolk Northumberland Ontario Oxford Temiskaming Peel Perth Peterborough Prescott Prince Edward Rainy River District Renfrew Russell Simcoe  Land Ad- Rainy River Russell Russell Renfrew Russell Simcoe  20 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 20 21 21 22 22 23 24 24 25 25 25 25 26 26 26 27 27 27 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	1	1							1			1	٠	1
Kent Lambton Lanark Leds Leds Lennox and Addington Lincoln Middlesex Muskoka District Norfolk Northumberland Ontario Oxford Temiskaming Peel Perth Peterborough Prescott Rainy River District Renfrew Russell Simcoe 2  20  20  21  22  24  25  26  27  27  27  28  29  20  20  20  20  20  20  20  20  20	1	1	13	27		,			7				6	9
Lambton Lanark 20 Leeds 15 Lennox and Addington Lincoln Middlesex Muskoka District Norfolk Northumberland Ontario Oxford Temiskaming. Peel Perth Peterborough Prescott 7 Prince Edward Rainy River District Renfrew Russell 2 Simcoe 20 15 15 15 16 16 17 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18		1	5	3							1	, ,		2
Lanark 20 Leeds 15 Lennox and Addington 15 Lincoln Middlesex Muskoka District Nipissing District Norfolk 10 Northumberland 00 Oxford Temiskaming 10 Peel 10 Perth 11 Peterborough 11 Prescott 7 Prince Edward 12 Rainy River District 17 Renfrew 12 Russell 2 Simcoe 15	1	1	8	1						1	6	3		2 2 3
Leeds	12	32	189	183	372		3	3	0				43	85
Lennox and Addington. Lincoln. Middlesex. Muskoka District. Norfolk. Northumberland. Ontario. Oxford. Temiskaming. Peel. Perth Peterborough Prescott. Prince Edward Rainy River District. Renfrew Russell. Simcoe.	1		259	230					32	19	51	41	54	95
Lincoln Middlesex Muskoka District Nipissing District Norfolk Northumberland Ontario Oxford Temiskaming Peel Perth Peterborough Prescott Prince Edward Rainy River District Renfrew Russell Simcoe  Muskoka District Nipissing District Nipissing District Renfrew Russell Simcoe		,	1					į		_	6		1	
Middlesex Muskoka District Nipissing District Norfolk Northumberland Ontario Oxford Temiskaming Peel Perth Peterborough Prescott 7 Prince Edward Rainy River District Renfrew Russell			5	5		• • • •			4		9		1	2
Muskoka District. Nipissing District. Norfolk. Northumberland Ontario. Oxford Temiskaming. Peel. Perth Peterborough Prescott. Rainy River District Renfrew Russell. Simcoe.			$\frac{3}{18}$	$\frac{2}{16}$					$\frac{2}{10}$				,	
Nipissing District. Norfolk. Northumberland. Ontario. Oxford. Temiskaming. Peel. Perth Peterborough Prescott. Rainy River District Renfrew Russell. Simcoe.			10		1	• • • •								
Norfolk Northumberland Ontario Oxford Temiskaming Peel Perth Peterborough Prescott Rainy River District Renfrew Russell Simcoe System 12 Rorthumberland Rainy River Russell Simcoe System 2 Rorthumberland Rainy River Renfrew Russell Simcoe			4	2	6								٠	1
Ontario Oxford Temiskaming Peel Perth Peterborough Prescott Rainy River District Renfrew Russell Simcoe  Oxford 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			2		2				1		1			
Oxford Temiskaming Peel Perth Peterborough Prescott. 7 Prince Edward Rainy River District Renfrew Russell 2 Simcoe 2			7	4	11				6	3 7	11			
Temiskaming		,	4	9	13	• • • •		• • • •	1	1	6		1	
Peel			5	ა 1	1	• • • • •				1			1	
Perth Peterborough Prescott			4	5	6				$\stackrel{\cdot}{\scriptstyle 2}$		$\frac{1}{2}$	1		
Peterborough 7 Prescott 7 Prince Edward Rainy River District Renfrew Russell 2 Simcoe	1	1	6	$\bar{1}$	7				6		6	2	1	- 8
Prince Edward Rainy River District Renfrew Russell 2 Simcoe			4	2	6				- 4	2			1	
Rainy River District	4	11	95	103	198	2		2	44		82		35	64
Renfrew 2 Simcoe 2			2	อี	б			• • • •	1	1	_	• • •		
Renfrew 2 Simcoe 2	1								2	2	4			
Russell	1	1	23	28	51	1			8	2 5			7	
Simcoe	ļ	. 2	61	56	117				4		4		19	
Stormont 9			8	3	11			• • • •	5				34	63 63
	9 9	18	153	129	282		• • • •	• • • •	40	11	91	29	- 04	0.0
Thunder Bay Dis-	1		5		3							1		1 1
trict			ა ე	8	10	X			2	7,	9			
Waterloo		1	$\frac{2}{2}$						1		1	٠		• • • •
Welland		,	3		3			• • • •	3		3	4	1	2
Wellington		1	1	3	4			• • • •	1 3		1 5		···	
Wentworth			53	5 45			• • • •	• • • •	43	35	78		_	
York		: 5	7						1		2			
Unascertained	2					-							110	
Totals 111	2	• • • • •	1,855	1,810	3,655	2	3	, 5	471	328	799	376	416	792

TABLE No. 6-BROCKVILLE.
Showing the assigned Causes of Insanity in the cases admitted during year.

Causes.	Men.	Women.	Total.		Inherite edisposit		Un- ascertained.
				Men.	Women	Total.	l ascer
MORAL.  Adverse Conditions (such as loss of friends, business troubles, etc.)	3 25 1 1 2	5 25 2 4	8 50 3 1 6	1 15 1 1	5 20 2	6 35 3 1 2	2 15 4
Physical.							
Alcoholism.  Sexual Excess Venereal Diseases Masturbation Insolation Accident or Injury Pregnancy Parturition and Puerperium Lactation Climacteric Period Fevers Privation and Overwork Epilepsy Other Convulsive Diseases Diseases of Brain and Skull Senility Exophthalmic Goitre Epidemic Influenza Abuse of Drugs Loss of Special Sense Uræmia Other Auto-infection Other Bodily Diseases	3  1 3 6 7		5 6 16 2		1		1 8 3 3 2 2 4 3 6 16
HEREDITARY.  Congenital Defect Unascertained Not Insane	17 26	9 19	26 45	17 9	8 12	25 21	1 24
Totals	111	91	202	52	54	106	96

#### TABLE No. 7-BROCKVILLE.

Showing hereditary tendency to insanity in patients admitted during the year and since the opening of the Hospital.

	Admit	mitted During Year.			nce Openi	ning.	
	Male.	Female.	Total.	Male	Female.	Total.	
Paternal Branch	13	10	23	228	218	446	
Maternal Branch	13	9	22	197	210	407	
Paternal and Maternal Branches	9	12	21	76	68	144	
Collateral Branches	8	16	24	230	255	485	
No Hereditary Tendency	35	26	61	767	669	1,436	
Unascertained	33	18	51	357	390	747	
Totals	111	91	202	1.855	1.810	3,665	

TABLE No. 8-BROCKVILLE.

Showing summary of Probational discharges during the year.

	Male.	Female.	Total.
Number Granted Probational Discharge	46	39	85
Discharged, Recovered while on probation ,	21 12 1	18 9	39 21 1
Returned to Hospital while on probation.  Absent on Probation on October 31st, 1918		5 7	9 15

## TABLE No. 9-BROCKVILLE.

Showing the Causes of Death of patients who died during the year and since the opening of the Hospital.

	Died	during Y	ear.	Sir	nce Openii	ng.
Cause of Death.	Male.	Female.	Total.	Male.	Female.	Total.
Specific Infectious Diseases:—						
Typhoid Fever		·		5 1	1 2 1	1 5 2
Diphtheria Erysipelas			1 2	3 6	5 9	8 15
Septicæmia Dysentery Syphilis Tuberculosis				6 103	14 1 104	$\frac{20}{1}$ 207
Constitutional Diseases:— Rheumatism					1	1
Arthritis Deformans  Diabetes Mellitus					1	1
Diseases of the Digestive System:—  Mouth, salivary glands  Pharynx					1	1
Tonsils						·····i
Diseases of the Intestines:— Diseases of the Liver				6	4	10
" Pancreas " Peritoneum		1	2	6	8	14
Diseases of the Respiratory System:— Diseases of the Nose and Larynx Bronchi Lungs Pleura	. 5	6	11	2 7 30 1	1 30 1	2 8 60 2
Diseases of the Circulatory System:  Diseases of the Pericardium  " "Heart  Arterio-sclerosis  Aneurism	. 1	10	3 19	$\begin{array}{c} 1 \\ 49 \\ 60 \\ 1 \end{array}$	1 40 51	2 89 111 1
Aneurismbiseases of the Blood and Ductless				1		1
Glands:— Anæmia				3	2	5
Leukæmia Exophthalmic Goitre	.,	·····i				
iscases of the Genito-Urinary System				20	12	32
Carried forward	. 31	32	63	308	291	599

#### TABLE No. 9-BROCKVILLE-Continued.

Showing the Causes of Death of patients who died during the year and since the opening of the Hospital.

	Died	during Y	ear.	Sin	nce Openia	ıg.
Cause of Death.	Male.	Female.	Total.	Male.	Female.	Total.
Brought Forward	31	32	63	308	291	599
Diseases of the Nervous System:  Diseases of the Nerves	1	•••••		1 2 1	5	1 2 6
bosis, Hæmorrhage and other gross lesions)	4	3	7	35	20	55
sia, Hysteria) Epilepsy			1	$\begin{array}{c} 1 \\ 54 \end{array}$	$\frac{3}{25}$	79
Mental Diseases:— Exhaustion of Acute Mental Disease Exhaustion of Chronic Mental Disease General Paresis	2	3	5	23 69 62	54 47 13	77 116 75
Morphinism Metallic Poisoning Heat Stroke						
Debility of Old Age	1	2	3	52	48	100
Accident			••••		1	1
Suicide		1	1	9	6	15
Surgical Diseases				2	5	7
Gynæcological Diseases						
Malignant New Growths, or Cancer				13	13	26
Pellagra					1	1
Totals	40	53	93	632	532	1.164

## TABLE No. 10-BROCKVILLE.

Showing form of mental disease of patients admitted, discharged and died during the year.

	A	dmitt	ed.	Dis	char	ged.		Died.	•
Mental Disease.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Infection Psychoses:—									
(a) Fever Delirium (b) Infection Delirium (c) Post Infection Psychoses									1
Exhaustian Devahages						1			1
(a) Collapsed Delirium								2	2
Intoxication Psychoses:—			v	1	9	4			
(a) Acute Intoxications(b) Chronic "								• • • •	
(a) Alcoholism (acute and chronic) (b) Delirium Tremens	3		3	3		3	i	1	2
(c) Korsakow's Psychoses									١
(e) Alcoholic Hallucinatory Dementia (f) "Paranoia									
(g) "Paresis (h) Morphinism (i) Cocainism		(							1
(1) Cocainism	••••			••••		• • • •	• • • •		• • •
(a) Mixædematous Psychoses									
Dementia Præcox:— (a) Hebaphrenic	7	4	11				3	2	5
(b) Catatonic (c) Paranoid	32	29 5	61 12	13 3	10 4	23 7	8	17	25 1
General Paresis	7		7	2		2	4	2	6
Organic Dementias:—							l		
(a) Cerebral Sclerosis (b) Huntingdon's Chorea (c) Multiple Sclerosis	1.	1	2					1	i
(d) Cerebral Syphilis (e) Tabetic Psychoses									
(f) Arterio Sclerotic Psychoses	5 2	1	6 2				6 2	3	9
Involution Psychoses:-	_								
(a) Melancholia		9	14  20	$\frac{3}{3}$	$\frac{2}{6}$	5	9	14	23
Manic Depressive Psychoses:— (a) Manic States	9	12	21	10	9	19	4	6	10
(a) Maine States (b) Depressed States (c) Mixed States	7	9	16	10 14	5 2	19	*	2	2
Carried forward		85	184	55	44	99	37	52	89

## TABLE No. 10-BROCKVILLE-Continued.

Showing form of mental disease of patients admitted, discharged and died during the year.

	Ac	lmitt	ed.	Disc	char	ged.		Died.	
Mental Disease.		Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Brought forward	99	85	184	55	44	99	37	52	90
Paranoia									
Psychoses from Constitutional Neuroses:—  (a) Epileptic Psychoses									
States of Deficient Mental Development:— (a) Imbecility	8	4	12	6	1	7	2		2
Not Diagnosed			l		+				1
Not Insane			l						
Totals	111	91	202	62	45	107	40	53	93

#### TABLE No. 11-BROCKVILLE.

Periods.	Alleged duration of insanity prior to admission.	Length of residence of those remaining in Hospital on Oct. 31st, 1918.	Periods of treatment of those who were discharged receivered during the year.	Periods of treatment of those who were discharged improved during the year.	Periods of treatment of those who were discharged unimproved during the year.	Periods of treat- ment of those who died during the year,
Under 1 month	36	17	4	2	1	17
From 1 to 2 months	20	8	10	3 3	1	11
" 2" 3 "	21	11	4	3	1	
" 3 " 4 "	5	13	2	2		2 3 3
" 4 " 5 "	1	7	2 4 3	1		3
" 5 " 6 "	23	16	2	$\frac{1}{2}$		3
" 6 " 9 "	3	18	18	7		5
" 9 " 12 "	19	17	10	8	1	7
" 12 " 18 "	2	33	6	3	1	3
	10	40	U	1	1	2
	9	75	1	3	1	1
" 2 to 3 years	8	42	1 1	9		1
" 4 " 5 "	8	34	1			$\frac{1}{2}$
" 5 " 10 "	16		ı			6
" 10 " 15 "	10	153		1		10
10 " 10 "	5	118		1		5
10 20	1 17	108				9
" 20 years and upwards.	17	82	• • • • • • • • • • • • • • • • • • • •			9
Totals	202	792	64	39	4	93

### HOSPITAL FOR THE INSANE, HAMILTON.

November 1st, 1918.

W. W. DUNLOP. Esq.,

Inspector, Hospitals for Insane.

Parliament Buildings, Toronto, Ontario.

Sir.—In compliance with the Statute. I beg herewith to submit the forty-third Annual Report of this Hospital, being for the year ending October 31st, 1918.

Our admissions numbered 299, and discharges, as recovered, or sufficiently well to return home, 129, or 43.47 per cent, of the admissions.

The general health has been excellent, though a temporary break in the intake pipe of the City water system, allowed pollution, and a considerable number of cases of Dysentry occurred, both with us, and in the City proper, during September, but the trouble soon cleared up.

Paresis claimed a larger number by death than usual—there being 13 therefrom—and Debility incidental to old age, was assigned as a cause in 44 cases. It was a matter of interest to note that nine of these latter persons had spent from 30 to 41 years in one or other of our Provincial Hospitals.

#### NEW WORK.

The spleudidly arranged, and excellently equipped Central Boiler House, having been completed, and an auxiliary Electric Light and Power plant installed therein, and the transformers and meters removed thereto from the Pump House on Queen and Markland Streets, and the Fire Pump from the Fire Hall, much convenience, and efficiency has resulted in the administration and the heating of the several buildings and residences has been done much more satisfactorily and economically.

The putting up of the cement walls and a considerable amount of the structural iron, has been done in the re-ercetion of a 100 ft. by 42 ft. Green House, purchased from a Florist, who was retiring from business, and during the coming summer, we hope to complete it, and thus add a portion of the much needed plant space, we so urgently require. The roof of the Vegetable Storage, or Root Cellar, having collapsed, advantage was taken in its replacement, to raise the stone walls some  $4\frac{1}{2}$  feet, and thus create an Onion loft some 60 ft. by 20 ft., which we have urgently needed for many years.

In the Main Cow Stable, a section in which was a couple of wooden Cow Pens, the lower portion of a brick silo, a large root cellar, and a meal room were gutted, and the space paved with cement and iron divisions, posts and stanchions installed, and as all the windows throughout the barn had been doubled in size, we now have one of the best lighted and ventilated that could be desired. We have also in the reconstruction of an old frame building, made an Isolation Stable, with accomodation for 10 or 12 cattle, to which can be removed any sick animals, and there the danger of infection of others is lessened.

In our Poultry section, we have been more successful than usual, and in addition to raising chickens for ourselves, were able to supply 850 chickens to four of the other Provincial Hospitals.

Every one of our pullets is trap-nested, and it was a pleasure to find that some twelve Barred Plymouth Rocks and Rhode Island Reds had laid from 225 to 240 eggs each, during the past twelve months, whereas the average Ontario hen is credited with from 80 to 90.

In our breeding pens this year, we purpose using only yearling hens, that have

records of from 170 up.

The general repairs of the buildings has been well kept up.

### REQUIREMENTS.

Opportunity is now afforded to arrange our Canning plant in the old Orchard House Boiler House, and Coal Shed, where live steam can be procured at any time in place of depending upon a boiler, and we hope to make the change before Spring.

We are pleased to know that our Hospitals are, in the future to be known as "Provincial Hospitals," and that the word "Insane" and "Asylum" is to be entirely eradicated from the appelation and literature, and feel assured that it will lesson the opprobrium that has been so often attached to patients who have been brought to buildings under the former names.

Our staff of Nurses and Attendants has been desperately short, however, the majority of those we have had have earnestly applied themselves, and those coming under their charge have been well cared for and with the cessation of hostilities, and releasing of munition workers, we should, in a short time, be enabled to secure adequate help.

Thanking you individually for your ready help and advice in many problems that confront us, I am,

Your obedient servant.

W. M. English,
Superintendent.

# ANNUAL STATISTICAL REPORT OF THE OPERATIONS OF THE HOSPITAL FOR INSANE, HAMILTON, FOR THE YEAR ENDING OCTOBER 31st, 1918.

#### TABLE No. 1-HAMILTON.

Showing movements of patients in the Hospital for the official year ending October 31st, 1918.

_	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital	656	639	1,295			
In Residence October 31st, 1917Admitted during year 1918:  By WarrantBy Medical Certificate  Voluntary	80 76	25 117	105 193 1	721 157	651 142	1,372
Total number under treatment during year				878	792	1,671
Discharges during year:—  As recovered  improved  nnimproved  not insane	19 46 2	24 40 1	43 ³ 86 3			
Total number discharged during year Died	67 78 4 12 2	65 88	132 166 4 13 3	163	155	318
Remaining in Hospital October 31st, 1918.				715	638	1,353
Total number admitted since opening of Hospital	1,467 1,272 57	1,622 1,142 8	3,089 2,414 65	3,861	3,672	7,533
eloped transferred	137 213	$\frac{11}{251}$	148 464	3.146	3.034	6,180
Total remaining in Hospital October 31st, 1918				715	638	1,353
Daily average population		647 236,295 11	1,378 503,143 20			

TABLE No. 2—HAMILTON.

Showing Social State and Religion of patients admitted during the year and since opening of Hospital.

<del></del>	Admi	ssions of	year.	1	n residen	ce.	Adı	nissions s opening.	
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
SOCIAL STATE.									-
Single	68	53	121	498	321	819	2,035	1,498	3,53
Married	83	82	165	191	280	471	1,781	2.124	3,90
Widowed	5	6	11	24	36	60	40	48	88
Divorced							2	1	;
Separated									
Unascertained	1	. 1	2	2	1	3	3	1	4
Total	157	142	299	715	638	1,353	3.861	3,672	7.53
RELIGION.						· <del></del> -			
Baptists	7	10	17	35	51	86	211	252	463
Congregationalists			••••	6	1	10	28	19	47
Church of England	31	26	57	117	105	222	720	663	1,38
Methodists	28	23	51	143	126	269	874	874	1,748
Presbyterians	17	32	49	102	101	203	694	700	1,39
Roman Catholics	37	30	67	150	116	266	709	653	1,362
Other Denominations	30	29	50	112	102	214	427	400	827
Unascertained	7	1	8	50	33	83	198	. 111	309
Tota's	157	142	299	715	638	1,353	3,861	3,672	7,539

TABLE No. 3-HAMILTON.

Showing nativity of patients admitted during the year and since opening of Hospital.

	Admi	ssions of	Year.	Admissio	ons since	opening
Nativity.	Male.	Female.	Total.	Male.	Female.	Total.
Total Admissions	157	142	299	3,861	3,672	7,533
Total born in Canada	99	108	207	2,330	2,366	4,696
Armenia Assyria Austria Australia	8	1	9	2 1 31 1	1	2 1 35 1
Belgium				1		1
China Denmark England France Finland	2 18 1	18	36 2 1	5 1 576 4 4	421 1 1	5 1 997 5 5
Galicia Germany Greece Holland	$\frac{2}{1}$	1	3	12 11 1 1 5	1 10 12 2 4	5 22 23 3
Hungary Ireland Italy Japan	5 4	3 2	8 6	304 30	410	714 33
Macedonia	1		1	97	89	186
Roumania. Russia Scotland South America	3 9	1 5	4 14	28 229 2	12 197 1	5 40 426 3
Spain Sweden Turkey United States. Poland Unascertained	3	2	5	6 2 98 8 62	91 2 45	6 2 189 10 107
Totals	157	142	299	3,861	3,672	7,533

TABLE No. 4—HAMILTON.

Showing the Occupation of those admitted during the year and since the opening of the Hospital.

	Admit	tted this	Year.	Sir	nce openin	g.
Occupation.	Male.	Female.	Total.	Male.	Female.	Total.
Professional:— Clergy, Military and Naval Officers, Physicians, Lawyers, Architects, Artists, Authors, Civil Engineers, Surveyors, etc	19		19	86	2	88
Commercial:—  Bankers, Merchants. Accountants, Clerks, Salesmen. Stenographers, Typewriters, etc	14	6	20	238	45	283
Agricultural and Pastoral:— Farmers, Gardeners, Stock Men, etc.	25		25	1,038	3	1,041
Mechanics at Outdoor Vocations:— Railway and Stationary Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers, Painters, Police, etc	31		31	337	2	318
Mechanics, etc., at Sedentary Vocations:— Shoemakers, Bookbinders, Compositors, Weavers, Tailors, Seamstresses, Bakers, Factory Workers, etc	10	6	16	452	132	584
Domestic Service:— Waiters, Cooks, Servants, etc	5	15	20	29	647	676
Education and Higher Domestic Duties:— Governesses, Teachers, Students, Housekeepers, Nurses, etc		110	112	89	2,358	2,447
Miners, Marine Engineers, Railway Employees, Seamen, etc			1	55		55
Laborers	43		43	1,054	4	1,058
No Occupation	2	4	6	174	241	415
Unascertained	2	1	3	309	238	547
Totals	157	142	299	3,861	3,672	7,535

#### TABLE No. 5-HAMILTON.

Showing the Counties and Districts from which patients have been admitted during the year, and since opening of Hospital.

				JII	ice ope		-								
	1.3	mitt	ad I	۸.	dmitte	.1		Wa	ırran	t Cas	es.		Rei	main	ng
		ing y			e open		Ac	lmitt	ed	Ac	lmitte	ed		in	
Counties				Dille	с орен			ng ye		since	open	ning.	res	siden	ce.
and Districts.		٠ ن			٠ :			ن ا			ن ا			ပ်	
	್	Female	=		Female	Ξ.	್ಟ	Female.	-:	ಬ	Female.	=	್ಕೆ	Female	Ξ.
	Male.	_5	Total.	Male.	e, E,	Total.	Male.	c_ u	Total.	Male.	-S	Total	Male.	_ <u>5</u>	Total.
	_	34	=-	-		_=_		ابتذ	F	2	24	H	2	324	
Quebec				1		1				1		1			
New Brunswick				1						î		î)	1		i
Algoma District				27	6					26	1	27	12		12
Brant		14		213	234	447	1	1	2	82	43	125	50		167
Bruce				10	22	32	1		1	7	9	16	2	4	6
Carleton Dufferin		٠.٠٠	1	11 69	11 76	145	$\overset{\cdots}{_{1}}$	2	3	9 36	7 · 24	$\frac{16}{60}$	$\frac{1}{10}$	2 15	25
Dundas				2	3					2	1	3		10	20
Durbam				10	17					8	7			1	1
Elgin				7	7	14				3	2	5	1		1
Essex				7	1		٠			4	1	5			3
Frontenac		• • • •	2	30	10	40			12	29	3	32			11
Glengarry Grenville				5 4	4 3					4	$\frac{1}{2}$				• • • •
Grey			10	257	205	462			2	147	$7^{2}_{2}$	219			100
Haldimand	1			148	144					66		90			44
Halton	3			120	128					47	26	73	19	20	39
Hastings				6	9		• • • •			6	- 1	12		1	1
Huron				5	14		• • • •			2	4	6	1		1
Kent				1	7				• • • • •	7	1	8	• • • •	1	1
Lambton				11	5					9	i	10			
Lanark				1	4					ĭ					
Leeds				4	5					4	4	8	1		1
Lennox & Addingt'n				11	1					10		10			
Lincoln			13	187	185					94	49	143	27	24	51
Manitoba				$\frac{1}{22}$	15		• • • •			1	8	19 19	••••		4
Middlesex Muskoka District .			1	19	3		• • • • •			11 11	2	13	9		
Nipissing District.				13	12					17	7	14	$\frac{1}{2}$		2 8
Norfolk			14	145	152	297		2		22	12	34	24	27	51
Northumberland				27	17					15	8	23	2		2
Ontario				28	35		• • • •			22	.22	44	3		5 4 4
Oxford				23	19		• • • •			14	10	24 10	3 2	1	4
Parry Sound Dist. Peel				$\frac{7}{22}$	$\frac{6}{28}$		• • • •			$\frac{7}{7}$	9	16	3		7
Perth				10	12					8	7				(
Peterborough				11	19					11	11				
Prescott				3	7		• • • •			3	6.				. 2
Prince Edward				5	2					3	2				
Rainy River Dist				6 5	1					6	1	7		• • • •	
Renfrew			• • • •		ī			1		4	1	1		i	1
Simcoe		1	· · · · i	221	168					152	82	234	11	8	
Stormont			- 1	6	3					5	1	6			
Sudbury				5		5						5	3		3
Thunder Bay Dist	• • • •		;	16	13			• • • •	• • • •	11	11	22			7
Victoria		1 99	1	215	24				··ii	$\frac{12}{122}$	18 49	$\frac{30}{171}$	$\frac{2}{69}$		146
Waterloo	19 13	22 10	41 23	$\frac{245}{215}$	266 237	$\frac{511}{452}$				87	41	128	43		
Welland Wellington	16 5	11	16.	0	333	685			í	149	44	193	192		
Wentworth	74	50		1,037		1,999				427	188	615	196		
York	8	3	11	231	230	461	1	2		181	164	345	20		43
Unascertained				7	2					2	1	3	5		6
Temiskaming				9			• • • •			9		9	3	1	4
Saskatchewan			• • • •	1	1	2	• • • •		• • • •	• • • •	• • • •	••••	• • • •	• • • • •	• • • •
Totals	157	112	200	3.861	3,672	7.533	80	25	105	1.923	997	2,920	715	638	1353
10tais	1.07	144	- 200	9,001	0,014	1 , 1,11,11	60	,	100		.,,,,	_,,,,,0		.,,,(	

TABLE No. 6-HAMILTON.

Showing the assigned causes of insanity in the cases admitted during year.

Causes.	Men.	Women.	Total.	Pr	Inherited edispositi		Un- ascertained.
				Men.	Women.	Total.	ascer
MORAL.							
Adverse Conditions (such as loss of friends, business troubles, etc.) Mental Strain, Worry and Overwork	16	15	31	3	6	9	22
(not included in above)		19	36 7	8	11	19 1	17 6
Love Affairs, including seduction Fright and Nervous Shock		6	3 6	2	2	4	3 2
PHYSICAL.							
Alcoholism			12	5	1	6	6
Venereal Diseases	1		1				$\overset{\cdots}{}_{1}$
Insolation Accident or Iujury Pregnancy	2	1 11			1	1 5	<u>2</u>
Parturition and PuerperiumLactation Climacteric Period Fevers.		i 1	1 1	• • • • • • • • • • • • • • • • • • • •	1	1	······i
Privation and Overwork	12 12 2	21		3 4 2		7 5 3	26 9
Diseases of Brain and Skull	3	10	13	1 1	2	3	10
Epidemic Influenza  Abuse of Drugs  Loss of Special Sense	8	1 3	111				1 11
Uræmia Other Auto-Infection Other Bodily Diseases						······ 2	18
HEREDITARY.					1		
Congenital Defect Unascertained. Not Insane.	_	6 26	11 80	3 14	10	7 24	4 56
Totals	157	142	299	46	52	98	201

4

#### TABLE No. 7-HAMILTON.

Showing hereditary tendency to insanity in patients admitted during the year and since the opening of the Hospital.

	Admit	tted Durin	g Year	Since Opening				
	Male	Female	Total	Male	Female	Total		
Paternal Branch	12	18	30	123	102	225		
Maternal Branch	13	23	36	103	124	227		
Paternal and Maternal Branches	1 7		12	$\frac{24}{117}$	37 128	$\frac{61}{245}$		
No Hereditary Tendency	102	90	192	552	479	1.031		
Unascertained	22	6	28	469	277	746		
Totals	157	142	299	1,388	1,147	2,535		

TABLE No. 8-HAMILTON.

Snowing summary of probational discharges during the year.

	Male.	Female.	Total.
Number Granted probational Discharge	89	87	176
Discharged, Recovered while on probation	8 32	10 23	18 55
Died Returned to Hospital	1 18	1 19	2 37
Absent on Probation on October 31st, 1913	29	33	62

#### TABLE No. 9-HAMILTON.

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

	Died	during y	rear.	Si	nce Openi	ng.
Cause of Death.	Male.	Female.	Total	Male.	Female.	Total.
Specific Infectious Diseases :— Typhoid Fever					1 3	8 5
Cerebro-spinal Meningitis				 13	10	23
Septicæmia	1	8	9	14 18	9 33	23 51
Tuberculosis Jaundice	8	6	14	177 1	195	372 1
Constitutional Diseases:— Rheumatism Arthritis Deformans Diabetes Mellitus						1
Diseases of the Digestive System :—  Mouth, salivary glands					1	5 1
Pharynx Tonsils						
Œsophagus					ì	ĭ
Diseases of the Liver					8	17 1 20 11
Diseases of the Respiratory System:  Diseases of the Nose and Larynx  "Rronchi				1 5		1
" " Bronchi	5	6	11	84 2	$\begin{array}{c} 3 \\ 56 \\ 2 \end{array}$	140 4
Diseases of the Circulatory System:  Diseases of the Pericardium  Heart Arterio-selerosis	3		7	88	67	155
Aneurism		1	1	18 2	8 2	26 4
Diseases of the Blood and Ductless Glands:— Anæmia				3	5	8
Pernicious Anæmia Leukæmia Exophthalmic Goitre						24
Diseases of the Genito-Urinary System Purpura Hæmorrhage	·····			30 3	16 3	46 6
Carried Forward	19	26	45	516	465	981

TABLE No. 9-HAMILTON-Continued.

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

	Die	d during y	ear.	Si	nce Openin	ng.
Cause of Death.	Male.	Female.	Total.	Male.	Female.	Total.
Brought Forward	19	26	45	516	465	981
Diseases of the Nervous System:  Diseases of the Nerves					3	3
" " Meninges Organic Diseases of the Brain— (Tumor. Abscess. Embolism.					6	8
Thrombosis, Hæmorrhage, and other gross lesions)		3	7	73	72	145
(Paralysis Agitans, Chorea, Eclampsia, Hysteria) Epilepsy	3 3	3	3 6	8 106	9 71	$\begin{array}{c} 17 \\ 177 \end{array}$
Mental Diseases:— Exhaustion of Acute Mental Disease	14	15	29	81	152	233
Exhaustion of Chronic Mental Disease	8 12	9	17 13	92 174	114 19	206 193
Intoxications:— Alcoholism						
Debility of Old Age	14	30	44	167	169	336
Accident	1		1	16	2	18
Suicide		1	1	10	17	27
Surgical Diseases				12	12	24
Gynæcological Diseases					2	2
Malignant New Growths, or Cancer				12	29	41
Totals	78	88	166	1,272	1,142	2,414

#### TABLE No. 10-HAMILTON.

Showing form of mental disease of patients admitted, discharged and died during the year.

	A	dmit	ted.	Disc	charg	ged.		Died.	
Mental Diseases.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Infection Psychoses:— (a) Fever Delirium		į			·	1		_	
(b) Infection Delirium					3	3		1	····i
Exhaustion Psychoses:—	1	9			,	,			
(a) Collapsed Delirium. (b) Acute Confusional Psychoses (c) Neurasthenia	2	8	10 1	1		1 6 1		$\frac{1}{2}$	2
Intoxication Psychoses:—  (a) Acute Intoxication									
(b) Chronic (a) Alcoholism (acute and chronic) (b) Delirium Tremens (c) Korsakow's Psychoses	6 1		6 1	3 1	1	1	2		2
(d) Acute Alcoholic Hallucinosis				• • • •					
(g) Paresis. (h) Morphinism (i) Cocainism									1
Thyroigenous Psychoses:—  (a) Mixædematous Psychoses									
Dementia Præcox: (a) Hebaphrenic (b) Catatonic (c) Paranoid	45	10 39 8	22 84 19	3 15 4	2 17 4	5 32 8	3 14 2	18 18 2	7 32 4
General Paresis	6	1	7	2		2	11	1	12
Organic Dementias:— (a) Cerebral Sclerosis									
(b) Huntingdon's Chorea (c) Multiple Sclerosis (d) Cerebral Synbilis		1	1						
(e) Tabetic Psychoses (f) Arterio Sclerotic Psychoses. (g) Cerebral Tumor, Abscess, Hæmorrhage	 3	2	 5	····		4	1	4	5
Involution Psychoses:				2	7	9	2	7	9
(a) Melancholia (b) Pre-senile Delusional Psychoses (c) Senile Dementia	15	19	34		3	8	13		28
Manic Depressive Psychoses:— (a) Manic States(b) Depressed States	14	16	30 13	5 8	12 4	17 12	12	14 5	26 8
(c) Mixed States									

TABLE No. 10-HAMILTON-Continued.

Showing form of mental disease of patients admitted, discharged and died during the year.

Admitted.			Discharged.		Died.			
Male.	Female.	Total	Male.	Female.	Total.	Male.	Female.	Total.
122	107	269	57	61	116	63	75	98
15		17	4		5	6	4	10
6	1	7 2	2	1			5	6
3	1	1	4	3	7	7	1	11
		299	67	65	132	78	88	166
	122 15  6 1 3	122 107  15 2	Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Females   Fema	Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part   Part	122 107   269   57   61   15   2   17   4   1   1   1   2     1   3   1   4   3   3     3   1   4   4   3     3     3	122 107   269   57   61   116     116	122 107   269   57   61   116   63   63   64   1   1   5   6   65   65   65   65   6	Pemaje

TABLE No. 11—HAMILTON.

Periods.	Alleged duration of insanity prior to admission.	Length of residence of those remaining in Hospital on Oct. 31st, 1918.	Periods of treat- ment of those who were dis- eharged recover- ed during the year.	Periods of treatment of those who were discharged improved during the year.	Periods of treatment of those who were discharged unimproved during the year.	Periods of treat- ment of those who died during the year,
Under 1 month	65	140	1		1	21
From 1 to 2 months	33	70	3		1	9
" 2 " 3 "	30	69	2	2		4
" 3 " 4 "	15	27	2	1		7
" 4 " 5 "	10	10	1	3		6 3 3 5
" 5 " 6 "	19	8	5	12		3
" 6 " 9 "	22	10	8	10		3
" 9 " 12 "	12	7	5	3		5
" 12 " 18 "	23	17	7	16	1	12
" 18 months to 2 years	5	55				1
" 2 to 3 years	$^{-23}$	103	5	9		11
" 3 " 4 "	11	60		9		10
" 4 " 5 "	4	69	1	7		10
" 5 " 10 "	7	280	1	5		15 17
" 10 " 15 "	9	130		4	1	
" 15 " 20 "	2	106	1	3		11
" 20 years and upwards		192	1	• 2		21
Totals	299	1,353	43	86	3	166

# ROCKWOOD HOSPITAL FOR INSANE, KINGSTON.

W. W. DUNLOP, Esq,

Inspector of Hospitals and Public Charities, Parliament Buildings, Toronto, Ontario.

SIR,—I have the honour to submit herewith the annual report of the Hospital

for Insane, Kingston, Ontario, for the year ending October 31st. 1918.

During the year there were admitted to the Hospital one hundred and thirty-seven patients, eighty-four men and fifty-three women, a decrease of nineteen from the previous yar. The discharges, deaths and elopments totalled one hundred and fifty-one, leaving in residence at the end of the year five hundred and sixty-six, a decrease of population from last year of fourteen.

There was an increase of twenty in the number of deaths over last year, this

increase being largely due to pneumonia occurring in old people.

Like all communities we suffered from the Epidemic, having about one hundred cases. Among the nurses, attendants and other employees very few escaped, and about fifty patients were ill with the disease. Of the latter all, with the exception of six mild cases, occurred among the men, the women's wards practically escaping the infection. I am unable to account for this as the women's wards were under the same conditions as to exposure as the men's wards. All the cases among the patients developed in the Main Building. The Cottages, with a population of about one hundred and twenty, developed only one case, their escape being probably due to their comparative isolation, the smaller number of visitors, and to their patients being of an older class. We were fortunate in not having any deaths from the disease.

# REPAIRS AND ALTERATIONS TO BUILDINGS.

Extensive and very much needed repairs have been made to the Piggery, a cement floor laid throughout, and pig pens built. Repairs to the Skating Rink were also completed. Alterations to the building formerly used as an Industrial Building are under way, for the purpose of fitting it for occupation as dormitories for patients. When these are completed it will enable us to remove from the upper wards in the Main Building a number of patients of the feeble and bed-ridden class, who were a constant source of anxiety in case of fire. Cedar Cottage, a frame building formerly used only during the summer as an outdoor dining room by the women patients when out in the grounds, is now in use as the Industrial Building, accommodating the Sewing Room, Tailor Shop and Brush Shop, and serves the purpose fairly well.

Alterations and repairs to the bath rooms and lavatories in the men's wards of the main Building, it is hoped will be undertaken and completed during the winter, which will remedy a condition both unsanitary and unsightly.

#### STAFF.

During the year we have been exceedingly short-handed in the medical and nursing staff. Mr. E. H. Peterson has for the greater portion of the year been the only medical assistance I have had, and I feel deeply grateful to him for the work

he has done, he has been a most valuable assistant. I have also to thank all the other members of the staff, and the employees generally, for their hearty co-operation under the trying and short-handed condition.

There has been only one change in the Staff during the year. Miss Paterson being engaged as head nurse in the place of Miss Dwyer who resigned to undertake

furthur post-graduate work.

Thanking you Sir for your kindly as-istance and advice at all times.

I have the honour to be.

Your obedient ervant.

W. K. Ross. - Acting Medical Superintendent.

# ANNUAL STATISTICAL REPORT OF THE OPERATIONS OF THE HOSPITAL FOR INSANE, KINGSTON, FOR THE YEAR ENDING OCTOBER 31st, 1918.

#### TABLE No. 1-KINGSTON.

Showing movements of patients in the Hospital for the official year ending October 31st, 1918.

,	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital	311	268	579			
In Residence, October 31st, 1917				317	263	580
Admitted during year 1917-1918: Voluntary	1 7 73	3 3 47	7 10 120	84	53	137
Total number under treatment during year				401	316	717
Discharges during year:—  As recovered	36 11 3 1	24 6 4	17			
Total number discharged during year. Dled Deported Eloped Transferred	34	34 27		90	61	151
Remaining in Hospital, October 31st, 1918				311	255	566
Total number admitted since opening of Hospital  Total number discharged since opening of Hospital  Total number died since opening of	1,434	1.243	2,677	3,064	2,569	5,633
Hospital  Total number deported since opening of Hospital	962	763 4	1,725			
Total number eloped since opening of Hospital	102	1	103			
Total number transferred since open- ing of Hospital	245	303	548	2,753	2,314	5,067
Total remaining in Hospital October 31st, 1918				311	255	566
Daily average population	305.6 111,544 4	255.2 93,162 2	560.8 204,706 6			

TABLE No. 2-KINGSTON.

Showing social state and religion of patients admitted during the year and since opening of Hospital.

_	Admi	ssions of	Year.	II	n residen	ce.	Adı	nissions s opening.	
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
SOCIAL STATE.									
Single	47	21	68	234	136	370	1,774	1,115	2,890
Married	29	28	57	73	101	174	1,220	1,372	2,591
Widowed	7	4	11	3	18	21	60	75	135
Divorced							1	1	2
Separated	1		. 1	1		1	9	6	15
Unascertained								•••••	
Totals	84	53	137	311	255	566	3,064	2,569	5,633
RELIGION.									
Baptists	1	1	2	5	8	8	53	45	98
Congregationalists					1	1	11	9	20
Church of England	19	9	28	55	44	99	588	493	1,081
Methodists	25	16	41	86	90	176	716	683	1,399
Presbyterians	9	4	13	33	28	61	452	402	854
Roman Catholics	22	13	35	85	64	149	929	773	1,702
Other Denominations	1	6	10	31	18	49	204	120	324
Unascertained	4	4	8	16	7	23	111	44	155
Totals	84	53	137	311	255	566	3,064	2,569	5,633

TABLE No. 3-KINGSTON.

Showing nativity of patients admitted during the year and since opening of Hospital.

N	Adm	issions of	year.	Admiss	ons since	opening
Nativity.	Male.	Female.	Total.	Male.	Female.	Total.
Total Admissions Total born in Canada	84 67	53 45	137 112	3,064 2,151	2,569 1,850	5,63 4,00
Armenia						
Assyria Austria				2 1		
Australia Belgium						
Bulgaria. Central America						
China Den mark						
EnglandFrance	7	4	11	240 3	159 1	<b>3</b> 9
			'	1	$\frac{2}{1}$	
GermanyGreece				49	20	69
Holland Hungary.				$\ldots 2$		• • • • • •
reland taly	3 2		3 2	343 6	313	65
apan						
Other British Possessions				$\frac{6}{2}$	1	1
Vorway						
Russia	1	2	$\frac{2}{1}$	$\begin{array}{c} 17 \\ 100 \end{array}$	95	2 19
outh America	1	•••••	1	6		
weden 'urkey Inited States .	3					
Vest Indies		1	+	41 1	37	7
Other		1	1	79 79	8 73	1 15
Totals	84	53	137	3,064	2,569	5,63

TABLE No. 4-KINGSTON.

Showing the occupation of those admitted during the year and since the opening of the Hospital.

	Admi	tted this	year.	Si	nce Openi	ng.
Occupation.	Male.	Female.	Total.	Male.	Female.	Total.
Professional:— Clergy, Military and Naval Officers, Physicians, Lawyers, Architects, Artists, Authors, Civil Engineers, Surveyors, etc	20		20	137	2	139
Commercial:— Bankers. Merchants. Accountants, Clerks, Salesmen, Stenographers, Typewriters, etc	4	1	5	231	8	239
Agricultural and Pastoral :— Farmers, Gardeners, Stockmen, etc	26		26	931	4	935
Mechanics at Outdoor Vocations:— Railway and Stationary Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers, Painters, Police, etc	4		1	288		288
tors. Weavers, Tailors. Seamstresses, Bakers, Factory Workers, etc	4	2	6	203	148	351
Domestic Service:— Waiters. Cooks, Servants, etc		3	3	27	500	527
Education and Higher Domestic Duties:— Governesses, Teachers, Students. Housekeepers. Nurses, etc		39	39	37	1,415	1,452
Miners, Marine Engineers. Railway Employees, Seamen, etc.				72		72
Laborers	18		18	823		823
No Occupation	6	8	14	127	229	356
Unascertained	2		2	145	184	329
Other				43	79	122
Totals	84	53	137	3,064	2,569	5,633

# TABLE No. 5-KINGSTON.

Showing the Counties and Districts from which patients have been admitted during the year and since opening of Hospital.

	Α	3			dmitte.	1		W	arra	nt Cas	ies.		Ren	nain	ir
Counties		lmitt ing y			dmitted e openi			dmitting y		Ad since	mitte open			in ider	
and Districts.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female'	Total.	Male.	Female.	E C
algoma District				41	2	6				3	2	5			i
Brant				6	7						7	13			
Bruce				3	6	9				3	5	8			1.
arleton		1	1	208	165	373				166	125	291	20	13	
ufferin													1		ì.
undas				37	33	70							2		
urham	. 1	4	5	64	65	129				18	8		. 1	10	
lgin				3	4	7				3		7			1
ssex				3	2	5				3	2	5			١,
rontenac	. 17	14	31	619	568	1.187	1		1	. 173	106	279	48	62	
lengarry				56	54	110							- 3	5	ij
renville				58	52	110					9	16		1	
rey				8	10	18				6	6	12		1	
aldimand				6	7	13									
aliburton				2	2							2	1	1	
alton				3	2	5				2	1				
astings		13		346	288	634	1			137	69		46		
uron				6	5	11				6	5	11			
ent				4	1					4		4		٠٠.	
ambton				12	3	15		• • • •		12	2	14		1	
anark					127	253				97	87				
eeds				96	84	180				79	57	136	6	2	
ennox&Addingtor	1 6	8		220	206	426			2	98	50	148		25	,
incoln		• • • •		9	7	16				9	5	14		٠	
liddlesex		• • • •	• • • •	9	6	15				6	4	10	-		
luskoka District.	• • • • •			1	1	4	• • • •		• • • •		1	1			
ipissing District.				1	3	19				٠٠٠٠ ـــــــــــــــــــــــــــــــــ	1	1			
orfolkorthumberland	9			171	202					101	5				
		_	14	$\frac{171}{21}$	203 25	374			4	101	66	$\begin{array}{c c} 167 \\ 43 \end{array}$		31	
ntario			• • • •	14	4					19 14	24 3	17		_ 4	,
xford Dist				14	4	10				14	9	11	1		i
eel				4	1					4	1	5			ı
erth				10	10	20				10		19			İ
eterborough			2	26	$\frac{10}{29}$					10					ı
rescott			-	48	30					41	24	65		2	
rince Edward			3	127	94					39		56			- 1
lainy River Dist.				_1						1		1			1
enfrew		16	17	248	227	475				59	23	82	37	29	į.
ussell					2	2	1							1	
imcoe				14	12	26				13	- 11	24			
tormont				55	48	103				111	73	184	2	2	į.
hunder Bay Dist.				1		1							1		í
ictoria	. 2		2	17	13	30	2		2	17	12	29	) 4		
aterloo				15	4	19				12	4	16	·	٠	
elland				8	5	13				8				1	
ellington				6	4	10	1			4	4	8			-
Ventworth				18	21	39				14	13			3	
ork				- 56	69	125				39	50				
nascertained			4	216	50	266				32	7	39			
oldiers			16	44	1	45									
nterned Aliens				19		19		• • • •							1
ther				8	2	10				1		1		٠	
70-4-1	1		100	0.00	0.500	5,633	7		10	1 000	0.20	2,312	211	25.5	1
Totals	. 84	53	137	3,064	2,569	5 633	, 7	3	10	1.396	416	7 312	311	1/00	ı li

TABLE No. 6-KINGSTON.

Showing the assigned causes of insanity in the cases admitted during year.

Causes.	Men.	Women.	Total.	Pr	Inherited edispositi		Unascertained.
				Men.	Women.	Total.	Unasce
MORAL.							
Adverse couditions (such as loss of friends, business troubles, etc.)	8	5 14	13 28	1	3	4 13	
Religious Excitement.  Love Affairs, including seduction  Fright and Nervous Shock				•••••			
PHYSICAL.							
Alcoholism	5	1	6	3	1	4	
Venereal Diseases Masturbation	9			1	1	2	
Insolation Accident or Injury							
Pregnancy		1 1	1 1		1	_i	
Lactation	1	·····3		····i	·····i	$\frac{\dots}{2}$	
Fevers Privation and Overwork				• • • • • • • • • • • • • • • • • • •			
Epilepsy. Other Convulsive Diseases	····i	1	$\frac{1}{2}$		1		
Senility Exophthalmic Goitre Epidemic Influenza	• • • • • •		6	• • • • • •			
Abuse of Drugs	3	1	1				
Uræmia Other Auto-infection. Other Bodily Diseases							
HEREDITARY.			-		I)		
Congenital Defect Unascertained Not Insane	7 27 1	2 19	9 46 1	67 	37 37	104	• • • • • • • • • • • • • • • • • • • •
Totals	84	53	137	84 4	53	137	

#### TABLE No. 7-KINGSTON.

Showing hereditary tendency to insanity in patients admitted during the year and since the opening of the Hospital.

	Admit	ted durin	g year.	Since 1908.				
_	Male.	Female.	Total.	Male.	Female.	Total.		
Paternal Branch	15 8	4 7	19 15	135 82 14	106 95	241 177 25		
Collateral Branches No Hereditary Tendency	5	5	10	67 58	61 37	128 95		
Unascertained	55 1	37	92 1	473 9	326	799 9		
Totals	84	53	137	838	636	1,474		

TABLE No. 8-KINGSTON.

Showing summary of Probational discharges during the year.

	Male.	Female.	Total.
Number granted Probational discharge	28	25	53
Discharged, Recovered while on Probation Improved Unimproved		5	24 12
Died			7 10
	28	25	53

TABLE No. 9-KINGSTON.

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

	Died	during ;	year.		Since 1903	3.
Cause of Death.	Male.	Female.	Total.		Female.	Total.
Specific Infectious Diseases:— Typhoid Fever				1	2	3
Influenza						
Diphtheria Erysipelas Septicæmia Dysentery Syphilis Tuberculosis		1	1	3	1 2 1	1 5 1 2 90
Constitutional Diseases :— Rheumatism					:	
Arthritis Deformans Diabetes Mellitus						
Diseases of Digestive System:—  Mouth, salivary glands Pharynx						:
Tonsils. Æsophagus Stomach						1
Diseases of the Intestines  Diseases of the Liver Pancreas Peritoneum	1		1	6 3 1 7	8 2 2	14 5 1 9
Diseases of the Respiratory System:  Diseases of the Nose and Larynx  Bronchi				6	3	9
LungsPleura	11	8	19	<del>1</del> 1	44	85
Diseases of the Circulatory System:—  Diseases of the Pericardium  Heart	1	1	2 2	26 15	1 21 5	1 47 20
Aneurism				1		. 1
Diseases of the Blood and Ductless Glands: Anæmia					2	$\frac{\dots}{2}$
Leukæmia Exophthalmic Goitre Adronal Glands		· · · · · · · · · · · · · · · · · · ·				·····i
Diseases of the Genito-Urinary System :-	1	1	2	1	6	10
Carried forward	21	17	38	161	149	310

TABLE No. 9-KINGSTON-Continued.

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

	Died	during y	ear.	Sir	nce openin	g.
Cause of Death.	Male.	Female.	Total.	Male.	Female.	Total.
Brought forward	21	17	38	161	149	310
Diseases of the Nervous System:  Diseases of the Nerves  Spinal Cord  Meninges				1		1
Organic Diseases of the Brain. (Tumor, Abscess, Embolism, Thrombosis, Hæmorrhage and other gross lesions)		1	4		14	32
Functional Nervous Diseases, (Paralysis Agitans, Chorea, Eclamp- sia, Hysteria)						· • • • • • • • • • • • • • • • • • • •
Epilepsy	1		1	8	5	13
Mental Diseases:— Exhaustion of Acute Mental Disease. Chronic General Paresis		1	5 3	13 6 29	6 5 2	19 11 31
Intoxications:— Alcoholism Morphinism Metallic Poisoning Heat Stroke				1		1
Debility of Old Age	2	4	6	13	12	25
Accident				3	2	5
Suicide		2	2	4	3	7
Surgical Diseases				1	1	2
Gynæcological Diseases		1	1		1	1
Malignant New Growths, or Cancer		1	1	3	18	21
Died while on Probation, cause unknown.					1	1
Totals	34	27	61	261	219	480

# TABLE No. 10-KINGSTON.

Showing form of mental disease of patients admitted, discharged and died during the year.

	Ad	mitte	ed.	Dise	harg	ed.	]	Died.	
Mental Disease.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Infection Psychoses:—  (a) Fever Delirium  (b) Infection Delirium  (c) Post Infection Psychoses						'			
Exhaustion Psychoses:—  (a) Collapsed Delirium  (b) Acute Confusional Psychoses.  (c) Neurasthenia	 2	···.5	···;	 2	 6	 8		····2	 2
Intoxication Psychoses:—  (a) Acute Intoxications.  (b) Chronic  (a) Alcoholism (acute and chronic).  (b) Delirium Tremens.  (c) Korsakow's Psychoses.  (d) Acute Alcoholic Hallucinosis.  (e) Alcoholic Hallucinatory Dementia.  (f) Paranoia.  (g) Paresis  (h) Morphinism  (i) Cocainism	5   3	1	5	 7 	i   i	8			
Thyroigenous Psychoses:—  (a) Mixœdematous Psychoses  (b) Cretinism									
Dementia Præcox:—  (a) Hebaphrenic	2 13	4	17	5 3 4	 4 		3 1 3	1 1 2	4 2 5
General Paresis  Organic Dementias:—  (a) Cerebral Sclerosis (b) Huntingdon's Chorea (c) Multiple Sclerosis (d) Cerebral Syphilis (e) Tabetic Psychoses (f) Arterio Sclerotic Psychoses (g) Cerebral Tumor, Abscess, Hæmorrhage	···· 1		· · · · · · · · · · · · · · · · · · ·		••••		1	• • • •	1
Involution Psychoses:—  (a) Melancholia  (b) Pre-senile Delusional Psychoses  (c) Senile Dementia	4 1 2	7 3 5	11 4 7	1 1 3	1	8 4 3	 3 7	5 2 6	5 5 13
Manic Depressive Psychoses:—  (a) Manic States (b) Depressed States (c) Mixed States	6	4 6	13 12	4 7	1 7	5 14	4 2 1	4 4	8 6 1
Paranoia		49	123	47	30	77	31	27	58

TABLE No. 10-KINGSTON-Continued.

Showing form of mental disease of patients admitted, discharged and died during the year.

	Ac	dmitt	ed.	Dis	charg	ged.		Died.	
Mental Disease.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Totel.
Brought forward	74	49	123	47	30	77	31	27	58
Psychoses from Constitutional Neuroses:—  (a) Epileptic Psychoses (b) Hysterical Psychoses (c) Sexualis Psychopathia			6 <u>i</u> .	2	 1 1	2 1 1	2 		2
States of Deficient Mental Development:—  (a) Imbecility	4	²	6	1	2	3			1
Not Diagnosed							·		
Not Insane	1	•	1	1		1			
Totals			137			_			

# TABLE No. 11-KINGSTON.

Periods.	Alleged duration of insanity prior to admission.	Length of residence of those remaining in Hospital on 31st October, 1918.	Periods of treatment of those who were discharged recovered during the year.	Periods of treatment of those who were discharged improved during the year.	Periods of treatment of those who were discharged unimproved during the year.	Periods of treat- ment of those who died during the year.
Under 1 month  From 1 to 2 months  " 2 " 3 "  " 3 " 4 "  " 4 " 5 "  " 6 " 9 "  " 12 " 18 "  " 18 months to 2 years  " 2 to 3 years  " 3 " 4 "  " 4 " 5 "  " 10 " 15 "  " 15 " 20 "  " 20 years and upwards	16 11 7 8 3 2 7 3 11 1 2 5 1 7 6 1 1 4 5	12 8 11 8 3 7 19 13 21 20 32 28 31 86 57 62 148	2 10 7 10 4 4 5 2 4 4 3 3 1	3 2 2 4 2 1	1	7 1 1 1 1 6 5 4 4 1 3 2 3 4 4 3 2 13
Totals	137	566	60	17	7	61

# HOSPITAL FOR INSANE, LONDON.

W. W. DUNLOP, Esq.

Inspector of Prisons and Public Charities.

Parliament Buildings, Toronto, Ontario.

Sin,—I beg to present the forty-eighth annual report of the Ho-pital for Insane. London, for the year ending October 31-t, 1918.

#### POPULATION.

By reference to Table No. 1 you will see that we had 259 admissions, the largest in the history of the institution. The number of those discharged was slightly lower than the previous year and the death rate was considerably higher. Our population at the end of the year was 1.216 or 23 higher than it was one year ago. The total number under treatment during the past year was 1.452, ten years ago, the number under treatment was 1.237 an increase of 215 in ten years. The records of this institution during the past forty-eight years show a steady annual increase in population.

There does not seem to be any reasonable ground for thinking that the increase in the future will be less than the past and it is quite probable the increase during the next ten years will be at least 200.

The question of accommodation is a very pressing one and some decision as to the final size of this Institution must be arrived at. My own opinion is that an Institution such as this should not, under any circumstances, exceed fifteen hundred beds and it would be much better, from many points of view, if the number of beds could be kept down to one thousand. In an institution of one thousand beds having say two hundred admissions per year it is possible for the Superintendent and medical officers to become familiar with each patient. The larger the institution the more difficult it is to know each personally. From an economic point of view an institution of fifteen hundred beds has some advantages over the smaller institution, but I believe the history of the larger institutions in the United States shows that after fifteen hundred beds have been exceeded that there is no gain, even from an economic point of view. In my opinion accommodation should be made for at least two hundred patients and this would take care of our present over crowding and make a reasonable provision for the next five years.

# BALCONIES AND DISTURBED WARDS,

I trust that the money voted by the Legislature at its last session for the purpose of adding additional balconies to the Main Building and Disturbed Wards to the Reception Hospital will be re-voted and that the work will be carried out next summer. The balconies, encased by glass and heated, practically form additional dormitories at a very moderate expense per bed. The additional to the Hospital will aid us very much in carrying on the good work that is being done there.

#### NURSES HOME.

Nothing would add more to the comfort of our nursing staff than the building of a Nurses Home and I trust this will be undertaken at the very earliest opportunity. The duties of a nurse are trying and the very least we should provide is a comfortable home where they would for a portion of their time be removed from all association with the wards. At the present time a considerable number of our nurses are obliged to sleep on the wards and this not only has an injurious effect on the nurse but obliges us to curtail a great deal of the sitting room accommodation formerly provided for patients. Some years ago we had twelve sitting rooms for patients in the Main Building alone, now we have only one left.

#### IMPROVEMENTS DURING THE YEAR.

A splendid new Piggery was completed during the year thus giving us perhaps one of the largest and best appointed plants for breeding and feeding pigs in the Province of Ontario. We should now be able to raise at least half of the equivalent of our meat consumption.

#### FARM.

I am very pleased to say that we have had a most bountiful harvest during the past year. All our crops yielded magnificently. Our apple orehard produced some 1,200 barrels of good apples, so that none of our patients have lacked for fruit.

## WASSERMANN TEST.

Continuing the work which we commenced last year a Wassermann test of the blood serum of practically every patient admitted to the Institution has been made. In every case where the blood test shows a positive reaction the test is also applied to the spinal fluid. Up to date 362 patients have been examined with the following results:—

Negative Positive Doubtful	 Wasserman 												41
												•	362

About 12 per cent. of admissions have a positive blood reaction.

The following table shows that of the twenty-six positive blood tests during the year thirteen showed a positive reaction in the spinal fluid and of these nine were clinically cases of paresis. It will also be seen that the Colloidal Gold test in these nine cases indicated paresis. The latter test seems to be even more accurate than the Wassermann. In two cases Nos. 11 and 13 both Wassermann and Colloidal Gold test indicate paresis, but neither of these cases resemble paresis clincally. No. 11 is a case of senile dementia and 13 a case of manic depressive. It is quite possible however, in the latter case, that paresis may yet develop. In case No. 18 both blood and spinal fluid give a positive Wassermann reaction, but the Colloidal Gold test did not indicate paresis. This case is also one of senile dementia.

# SUMMARY OF THE POSITIVE WASSERMANS

Nov. 1, 1917—0et. 31, 1918.

No.	Blood	Wass	C.C.	Cerebro-spina	1 fluid	Oli i l Di
110.	Wassermann	Wass	C.C.	Globulin	Colloidal Gold	Clinical Diagnosis
1 2		neg.	70 3	considerably increased not increased	5555555320 00000000000	G.P.I. Catatonic dementia precox
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19		neg. neg. neg. neg. neg.	$\begin{array}{c} 200 \\ 5 \end{array}$	not increased not increased slight increased slight increase considerably increased markedly increased considerably increased considerably increased considerably increased not increased markedly increased slightly increased slightly increased not increased not increased not increased not increased	5555543210 5555553210 55555543100	Catatonic D.P. Catatonic D.P. G.P.I. G.P.I. G.P.I. Paranoid D.P. Morphinomania Senile dementia G.P.I. Manic depressive manic (manic) Paranoid D.P. Epileptic G.P.I. Dementia Precox Senile Dementia Mixed form manic
20 21 22 23 24 25 26		neg.	2 45 11 3 27 4	not increased considerably increased markedly increased not increased considerably increased not increased	0600000000 003221000 5554332100 3322100000 4443110000 0000000000	depression D.P. Paranoid Tabo-paretic G.P.I. Precox Catatonic Senile Dementia G.P.I. Infection Psychosis

I am very much indebted to our Pathologist. Dr. Luney, and to Dr. Crawford, Assistant Physician, for the care which they have taken in making the above tests.

#### CHURCH SERVICES.

I must again tender my sincere thanks to the clergymen of the various denominations throughout the City of London who conduct the services at our little church each Sunday morning and to the priests of St. Patrick's Parish who take charge of the services for the Roman Catholic patients and who so faithfully look after the welfare of the sick and dying of their flock. I realize that it is at considerable personal inconvenience that many of the clergymen assist at our services.

I have the honour to be,

Your obedient servant.

W. J. Robinson,

Medical Superintendent.

# ANNUAL STATISTICAL REPORT OF THE OPERATIONS OF THE HOSPITAL FOR INSANE, LONDON, FOR THE YEAR ENDING OCTOBER 31st, 1918.

TABLE No. 1-LONDON.

Showing movements of patients in the Hospital for the official year ending October 31st, 1918.

	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital	511	555	1,066			
In residence, October 31st, 1917 Admitted during year 1917-18:				582	611	1,19:
By Warrant	21 102	1 135	22 237	123	136	259
1917–1918				705	747	1,452
Discharges during year: As recovered. '' improved. '' unimproved. '' not insane.	35 29 3 6	25 24 1	60 53 4 6			
Total number discharged during year Died	73 54	50 53	123 107			
Eloped Transferred.	3 2	1	1 2	132	104	236
Remaining in Hospital, October 31st. 1918				573	643	1,216
Total number admitted since opening of Hospital				4,241	3,941	8,182
Hospital	1,850	1,794	3,644			
tal	1,409	1,239	2,648			
Hospital	15	4	19			
Total number eloped since opening of Hospital	145	17	162			
Total number transferred since opening of Hospital	249	244	493	3,668	3,298	6,966
Total remaining in Hospital, October 31st 1918.				573	643	1.216
Daily average population	573	616	1,189			
Collective day's stay of all patients in residence during year	209,431 3	224,980 12	434,411 15			

TABLE No. 2-LONDON.

Showing social state and religion of patients admitted during the year and since opening of Hospital.

	ln	residenc	e.	Admi	ssions of	Year.	Adı	nissions opening.	since
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
SOCIAL STATE.				6 1					ł
Single	415	330	745	61	50	111	2,365	1,524	3,889
Married	129	249	378	50			1.815	2,306	4,021
Widowed	20	61	81	10		36	53	110	163
Divorced				1			4	1	5
Separated		( i						1	
Unascertained		3	10				1		1
Totals	573			$-\frac{1}{123}$	136		4,241	3,941	8,182
Totals		040	1,216	125	100	209	4,241	3,941	0,102
RELIGION.									
Baptists	40	47	87	5	12	17	289	313	602
Congregationalists	4	3	7				32	29	61
Phurch of England	91	103	194	19	25	44	759	672	1,431
Methodists	131	162	293	30	36	66	1,010	1,078	2,088
Cresbyterians	120	167	287	27	34	61	929	859	1,788
Roman Catholies	90	100	190	16	14	30	684	634	1,318
Other Denominations	75	48	123	18	12	30	297	227	524
Unascertained	22	13	35	8	3	. 11	241	129	370
Totals	573	643	1,216	123	136	259	4,241	3,941	8,182

TABLE No. 3—LONDON.

Showing nativity of patients admitted during the year and since opening of hospital.

	Adm	issions of	year.	r. Admissions since opening					
Nativity.	Male.	Female.	Total.	Male.	Female.	Total.			
Total admissions	123 88	136 105	259 193	4,241 2,729	3,941 2,603	8,182 5,332			
Armenia	1		1	$\frac{1}{2}$	1	3 1			
Central America China Denmark England France Finland Galicia	1 15	1	1 35	1 1 531 5 1	2 418 5	1 3 949 10 1			
Germany				48	48	96			
Holland Hungary Ireland Italy Japan		3	5 1	378 3	439 5	2 817 8			
Macedonia Other British Possessions Norway	······i		_	7	2	9			
Roumania Russia Scotland South America	1 3 1	4	7	1 9 296 1	5 229	1 14 525 1			
Spain. Sweden Turkey United States West Indies Unascertained			8	6 5 128 2 82	111 1 1 72	6 5 239 3 154			
Totals	123	136	259	4,241	3,941	8.182			

TABLE No. 4—LONDON.

Showing the occupation of those admitted during the year and since the opening of the Hospital.

	$\mathrm{Adm}$	itted this	year.	Si	nce openin	g.
Occupation.	Male.	Female.	Total.	Male.	Female.	Total.
Professional: Clergy, Military and Naval Officers, Physicians. Lawyers, Architects, Artists, Authors, Civil Engineers, Surveyors, etc.	3		3	85	25	110
Commercial: Bankers, Merchants, Accountants, Clerks, Salesmen, Stenographers, Typewriters, etc	3	3	6	310	55	365
Agricultural and Pastoral: Farmers, Gardeners, Stock Men, etc.	45		45	1,654	121	1,775
Mechanics at Outdoor Vocations: Railway and Stationary Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers, Painters, Police, etc.	10		10	366		366
Mechanics, etc at Sedentary Vocations: Shoemakers, Bookbinders, Compositors, Weavers, Tailors, Seamstresses, Bakers, Factory Workers, etc	7	3	10	326	138	464
Domestic Service: Waiters, Cooks, Servants, etc		6	6	25	534	559
Education and Higher Domestic Duties: Governesses. Teachers, Students, Housekeepers, Nurses, etc	1	12	13	<b>5</b> 3	2,324	2,377
Miners, Marine Engineers, Railway Employees, Seamen, Soldiers, etc	•		3	61		61
Laborers	20		20	1,035	1	1,036
No Occupation	9	19	28	101	303	404
Unascertained	22		22	225	347	572
Housewives		93	93		93	93
Totals	123	136	259	4,241	3,941	8,182

#### TABLE No. 5-LONDON.

Showing the Counties and Districts from which Patients have been admitted during the year, and since opening of Rospital.

Counties		lmitt ing y			tted s			W Imitt ing y	ed		es. mitte open			mair in sider	
and Districts.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Algoma District Brant Bruce	 5		16	12 38 311	8 37 261	$\frac{75}{572}$	····i		· · · · · i	164	2 12 81	10 32 245	2 54		$\frac{2}{7}$ 107
Carleton											2				
Elgin Essex Frontenac	16 12	14 9	30 21 	307 313 5	295 272 8	602 585 13	1 5		1 5	81 116	27 63	108 179	50 49	61	$-90 \\ -110$
Glengarry		i	i	$\frac{\dots}{20}$	 23 24	43 46				10] 11] 7	9 3 3	19 14 10	 3	4	
Halton			15	10 5 393 317	7 9 393 314	14 786	····i		$\cdots_{i}$	2 136 91 201	5 79 45 642	7 215 136 265		1 63	112
Leeds			18	553 3	350 3 5	803 6 5			2	10	2	12	60	56	116
Lennox & Addington Lincoln Middlesex Muskoka District	34	41	75	$\begin{array}{c} 3 \\ 11 \\ 1.033 \\ 1\end{array}$	$^{1}_{6}$ 1 051	2.084	10		10	304	163	467	120	172	292
Norfolk				34 15	1 38 10	72 25			• • • •	23	13 2 8	- 36			
Ontario	3	13		841 	13 282	623		i		159	46	205	42	51	
Peel	9	12	21	348 1 2	6 311 6 3	6 <b>5</b> 9	1		1	143 1 1	68	7	58	58	116
Prince Edward Rainy River District				1	1	2					1	1			
Renfrew				13 7 12	21 7 14					 5 1			···i		9
Thunder Bay District				1 33	1 22	2 55			• • • •	 9	9	18	1	2	g 
Waterloo Welland Wellington Wentworth		····i	····i	20 22 47	8 16 27 48	36 49 95		••••		3 14 6	5 11 9	8 25 15	1 2	1 1	
York Unascertained			22	33	26 6	36			••••	30		61	20	11	31
Totals	123	136	259	4,241	3,941	8.182	21	1	22	1,581	791	2.372	573	643	1216

TABLE No. 6-LONDON.

Showing the assigned causes of insanity in the cases admitted during year.

Causes.	Men.	Women.	Total.	Pr	Inherited edispositi		Jnascertained.
				Men.	Women.	Total.	Unase
MORAL.							
Adverse Conditions (such as loss of friends, business troubles, etc.) Mental Strain, Worry and Overwork (not	12	17	29	1	1	8	21
included in above)	10	10	20	2	3	5	15
Religious Excitement		1 1 3	1 1 3		2	2	1 1 1
Physical.							
Alcoholism	1	1	5	2		2	3
Sexual Excess		2	10				10
Masturbation	. 2		2	1			1
Insolation		1	1 1		1	1	
Pregnancy							
Parturition and Puerperium		1	4		1	1	3
Climacteric Period		3	3				3
Fevers	3	10	13	1	3	1	9
Epilepsy		1	7	2		2	5
Other Convulsive Diseases Diseases of Brain and Skull	6	2	8	1		i	· · · · · i
Senility Exophthalmic Goitre	12		27		1	1	26 1
Epidemic Influenza	1		1	1		1	
Abuse of Drugs		1	2				2
Uræmia	-				j		
Other Auto-Infection Other Bodily Diseases	2	1					3
HEREDITARY.							
Congenital Defect. Unascertained Not Insane	8 41 6	3 59	11 100 6	14	17	31	11 69 6
Totals	123	136	259	28	32	60	199

# TABLE No. 7-LONDON.

Showing hereditary tendency to insanity in patients admitted during the year and since the opening of the Hospital.

	Admit	ted during	g year.	5		
	Male.	Female.	Total.	Male.	Female.	Total
Paternal Branch	- 5	4	9	115	118	233
Maternal Branch	7	14 12	$\frac{21}{20}$	131 53	172 °	303 116
Collateral Branches	10	10	20	316	264	580
No Hereditary Tendency	51	67	118	886	932	1.818
Unascertained	42	29	71	370	319	689
Totals	123	136	259	1,871	1.868	3.739

TABLE No. 8-LONDON.

Showing summary of Probational discharges during the year.

	Male.	Female.	Total.
Number Granted Probational Discharge	63	62	125
Discharged, Recovered while on Probation "Improved "Unimproved"	18 17	20 13	38 30
Died  Returned to Hospital  Absent on Probation on Oct. 31st, 1918	2 17 9	21 8	38 17

# TABLE No. 9-LONDON.

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

	Died	d during	year.	Sir	nce Openi	ng.
Cause of Death.	Male.	Female.	Total.	Male.	Female.	Total.
Specific Infectious Diseases:— Typhoid Fever Influenza				6 3	3 2	9 5
Cerebro-spinal Meningitis					1	1
Erysipelas Septicæmia Dysentery Syphilis		l 1	1 1	7 11 52 1	10 12 68 1	$17 \\ 23 \\ 120 \\ 2$
Tuberculosis			12	180	220	400
Constitutional Diseases:— Rheumatism				1 1 6	1 1 2	2 2 8
Diseases of the Digestive System:  Mouth, salivary glands  Pharynx				1		1
TonsilsŒsophagus				·····i		1
Diseases of the Intestines			2 1 2	1 13 1 33	1 15 1 27	28 28 260
Diseases of the Respiratory System:— Diseases of the Nose and Larynx Bronchi Lungs Pleura				19 90 6	12 110 2	31 200 8
Diseases of the Circulatory System:— Diseases of the Pericardium Heart Arterio-sclerosis	2	4	6	89 16 4	2 93 24 1	2 182 40 5
Diseases of the Blood and Ductless Glands:— Anæmia	1			3 3 1 1	5 2 1	8 5 1 2
Diseases of the Genito-Urinary System			2	22	8	30
Carried Forward	15	19	34	572	625	1,197

#### TABLE No. 9-LONDON-Continued.

# Showing the causes of death of patients who died during the year and since the opening of the Hospital.

	Died	during y	ear.	Since Opening.			
Cause of Death.	Male.	Female.	Total.	Male.	Female.	Total.	
Brought Forward	15	19	34	572	625	1,197	
Diseases of the Nervous System:  Diseases of the Nerves				5 	5) 1 7	10 1 18	
Thrombosis, Hæmorrhage and other gross lesions)		2	3 1 4	102 29 130	67 13 77	169 42 207	
Mental Diseases:— Exhaustion of Acute Mental Disease Exhaustion of Chronic Mental Disease	4	13	12 17	82 67	81 76	163 143	
General Paresis  Intoxications:—     Alcoholism     Morphinism     Metallic Poisoning     Heat Stroke							
Debility of Old Age	13	8	21	213	206	419	
Accident				11	8	19	
Suicide	2		2	15	10	25	
Surgical Diseases				3	4	7	
Gynæcological Diseases					1	1	
Malignant New Growths, or Cancer	2	2	4	20	37	57	
Totals	54	53	107	1,409	1,239	2,648	

# TABLE No. 10-LONDON.

Showing form of mental disease of patients admitted, discharged and died during the year.

	A	dmit	ted.	Dis	char	ged.		Died	١.
Mental Disease.	Male.	Female	Total.	Male.	Female	Total.	Male.	5 6 2 7 1	Total.
Infection Psychoses:—  (a) Fever Delirium									
Exhaustion Psychoses:—  (a) Collapsed Delirium		9	9	i	3	4	i	_	6
Intoxication Psychoses:—  (a) Acute Intoxications. (b) Chronic (a) Alcoholism (acute and chronic) (b) Delirium Tremens (c) Korsakow's Psychoses (d) Acute Alcoholic Hallucinosis (e) Alcoholic Hallucinatory Dementia (f) Paranoia (g) Paresis (h) Morphinism (i) Cocainism	1 1		1 1	2 1		2 1			
Thyroigenous Psychoses:—  (a) Mixædematous Psychoses  (b) Cretinism									
Dementia Præcox:— (a) Hebaphrenic (b) Catatonic (c) Paranoid	22	15 21 14	25 43 23	4 28 3	16 2	4 44 5	3 1 4	2	9 3 11
General Paresis	8	2	10	3		3	7	1	8
Organic Dementias.  (a) Cerebral Sclerosis (b) Huntingdon's Chorea (c) Multiple Sclerosis (d) Cerebral Syphilis (e) Tabetic Psychoses (f) Arterio Sclerotic Psychoses. (g) Cerebral Tumor, Abscess, Hæmorrhage.			· · · · · · · · · · · · · · · · · · ·	 1 		1 2	1		1
Involution Psychoses:—  (a) Melancholia	2 1 13	14	16 1 31	1	3	46	3 1 17		6 1 29
Manic Depressive Psychoses:—  (a) Manic States	8 9	9 16 4	17 25 4	3 7 1	5 5 3	8 12 4	3 1	1	3 2 1
Carried Forward	95	127	221	61	44	105	42	38	80

# TABLE No. 10-LONDON-Continued.

Showing form of mental disease of patients admitted, discharged and died during the year.

	Admitted.			Discharged.			Died.		
Mental Disease.	Male.	Female	Total.	Male.	Female	Total.	Male.	Female	Total.
Brought Forward	95	127	221	61	44	105	42	38	80
Paranoia	3	1	4				,		
Psychoses from Constitutional Neuroses:—  (a) Epileptic Psychoses	1	2 2	9 3		3	3	2	2	4
States of Deficient Mental Development:—  (a) Imbecility	11	1	15 1	6	3	9	1	2	
Not Diagnosed							9	11	20
Not Insane	6		6	6		6			
Totals	123	136	259	73	50	123	54	53	107

# TABLE No. 11-LONDON.

Periods.	Alleged duration of insanity prior to admission.	Length of residence of those remaining in Hospital on Oct. 31st, 1918.	Periods of treat- ment of thosc who were dis- charged recover- ed during the year.	Periods of treatment of those who were discharged improved during the year.	Periods of treatment of those who were discharged unimproved during the year.	Periods of treatment of those who died during the year.
Under 1 month	48	30	7	3	1	14
From 1 to 2 months	13	8			1	9
2 11 3 11 11 11 11	17	12	6	1 2 5	*	$\overset{s}{2}$
3 11 4 11	16	18	6	5		$\bar{6}$
4 4 5 4	16	23	3	6		6
5 ' 6 '	11	16	8	6		
6 4 9 4	14	30	12 7	6		$\dot{2}$
9 112 11	17	38	7	11	1	2
" 12 " 18 "	18	55	6	3		4 2 2 5
" 18 months to 2 years	10	32	1	1	1	3
'' 2 to 3 years	21	70	1 2 2	3		4
3 ' 4 '	19	67	2			3
4 1 5 1	11	80		1		2
5 ' 10 '	15	228	2	3		10
10 19	7	168				6
10 20	1	135		2		8
'' 20 years and upwards	5	206	• • • • • • • • • • • • •	• • • • • • • • • • • •		21
Totals	259	1,216	62	53	4	107

## HOSPITAL FOR INSANE, MIMICO.

TO WILLIARD W. DUNLOP, Esq.,

Inspector of Hospitals for Insane.

Parliament Buildings, Toronto, Onturio.

Sir,—In accordance with the requirements of the Statute, I have the honour to submit herewith the Twenty-fourth Annual Report of this Hospital for the year ending October 31st, 1918.

	Male.	Female.	Total.	Male.	Female.	Total.
There were in residence on October 31st, 1917	47 33	27 49	74 82	346	335	681
Total admitted during the year				80	76	156
Total number under treatment during the year	10 17 1 28 44 3 12	19 11 30 27	29 28 1 58 71 3 28	426	411	837
Number deported during the year  Total number leaving the hospital during	2		2	0.0		
Total number remaining in the hospital on October 31st. 1918				337	338	$\frac{162}{675}$

#### Admissions.

During the past official year there were one hundred and fifty-six patients admitted to this Hospital, seventy-four by Lieutenant-Governor's Warrant and eighty-two by Medical certificate. Of this number, eighty were men and seventy-six were women. Seventy-one of those admitted were single and seventy-two were married, while eight men and four women had lost their helpmates and one woman had been divorced. Of the seventy-one single persons admitted, forty-eight were men and twenty-three were women, while of the eighty-five who had been married thirty-two were men and fifty-three were women. Among the men an hereditary predisposition could be traced, according to their histories, in twenty-one and among the women in twenty cases, amounting in all to about twenty-seven per cent. of the total number of admissions.

Adverse conditions in life such as loss of friends through illness at home or worry and anxiety over their absence or loss in the war, business troubles, mental strain and over-work were believed to have been contributory causes in thirty-four cases, eleven men and twenty-three women. For the first time in

the history of this hospital there were no cases admitted in which the cause could be ascribed to the use of alcohol. Ten cases were traceable to accident or injury, but some allowance has always to be made in considering traumatic causes on account of the natural tendency of many friends to accentuate the importance of any physical injury.

Of the total number admitted thirty-seven patients were reported to have been ill for a period less than two months, while sixty-four had been ill for a

period over a year before their admission to the hospital for treatment.

One hundred and nine, fifty-five men and fifty-four women were born in Canada, twenty-seven in Great Britain, two in other British possessions, and the

remaining eighteen in other countries.

Of the total number admitted, twenty-eight were Presbyterians, twenty-seven Episcopalians, twenty-one Methodists, fifty-seven Roman Catholics, five Baptists, and other denominations thirty-two.

Twenty-two of the men were labourers, fourteen were mechanics, and twenty-

six formerly followed agricultural pursuits.

Six patients of the total number admitted were under twenty years of age, thirty-one were between thirty and forty years, thirty-one between forty and fifty years, twenty-six between fifty and sixty years, ten between sixty and seventy vears and twelve were over seventy years of age.

#### DISCHARGES.

During the year there were fifty-eight patients discharged from this Hospital, twenty-eight men and thirty women, and twenty-eight were transferred to other Hospitals, twelve being men and sixteen women. There were also sixty-eight patients, thirty-seven men and thirty-one women allowed to go to their homes on trial with their friends and of this number only fifteen, nine men and six women, were obliged to return to the Hospital after varied periods of residence at home. Of the total number discharged forty-eight had been under treatment in the Hospital for a period less than a year, indicating the relative curability during the early stages of the illness, while the other extreme is illustrated by the fact that one man was discharged improved after a residence of twenty-six years, and still another after living at the Hospital a little over twenty-eight years.

#### DEATHS.

During the past year there were seventy-one patients who died at this Hospital, forty-four men and twenty-seven women. Of this number, thirty-nine died under the age of fifty years, fourteen between fifty and sixty, ten between sixty and seventy and eight were over seventy years of age.

In thirty-six cases death was due to the exhaustion of the acute or chronic mental illness unattended by disease of any of the vital organs, and while in fourteen other cases tuberculosis developed and was a contributory cause, there is hardly any doubt that exhaustion of the nervous centre supplied the favourable foundation for its development. Eight cases died of pneumonia and five from epilepsy.

#### FARM AND GARDEN.

The farming operations during the past year have been attended with most satisfactory results and generous crops of hay and ensilage and grain and roots 7-H. I.

have been harvested. Although the farmer, Mr. Stock, has been without sufficient help for a good part of the season he has by his own indomitable energy and application been able to accomplish a surprisingly large amount of work and the abundant yield and superior quality of all the farm products have given him his well-earned reward.

The fruits and vegetables and roots grown in the garden under the supervision of the gardener have never been of finer quality and the crops of all varieties have been rather above the average, and if the present stores can be as successfully preserved during the coming winter by the gardeners new method of "surface pits" as they were last winter, the patients will be well supplied with choice products.

## NEW METHOD OF SAVING ROOTS AND VEGETABLES.

Last winter the gardener made a most successful experiment with an untried plan for saving roots and vegetables during the cold weather and at the same time keeping the stock within easy access at any given time. The plan was simple and was merely an adaptation of the "pit" method coupled with the employment of leaves instead of straw which is in such common use in rural districts. For each "pit" a space of about six feet wide and of any convenient length is selected on the surface of well drained sandy soil and around its margins a small bank of earth is raised about eight inches in height. A carpet of leaves about three inches thick is then spread over the bottom of this enclosed space and the vegetables and roots are then placed upon this thick layer of leaves, and they are arranged in a mound shape so that the outer edges rise slightly above the margins of the basin and in the centre of the pit the vegetables at their highest point would be about four feet from the carpet of leaves at the bottom of the basin. The covering over the vegetables consisted of leaves only and the thickness of this covering was from six to eight inches. When snow fell upon the covering it was allowed to remain and when it melted the resulting water ran down the surface of this leaf-covered roof into the ground below. Whenever vegetables were required for use the leaves were removed from a small portion of the roof and the vegetables taken out and the leaves replaced so as to make a complete covering again. Of course vegetables could only be removed during periods when the temperature was above the freezing point, but at such times supplies for a week or two could be removed and stored in the cellar and rarely was there any inconvenience on this account. In the spring after all the frost had gone from the ground these vegetables and roots, cabbages, beets, carrots and turnips were in equally good order and they were as fresh and possessed all the flavour which they had when placed under the leaves in the fall.

There were two conditions which were especially favourable to this experiment at this place, namely, the quality of the soil on which the "pits" were made and the quality and abundance of leaves available for use. The soil was sandy and porous and any possible dampness upon the vegetables at any time found easy means of escape into the ground below. The leaves were carefully gathered from the lawns as they fell from the trees in the autumn and they were large and well-formed and clean and came chiefly from Norway maples. Leaves have the advantage over straw that their shape is more like that of shingles and they make a better shelter from rains or melted snow and at the same time afford all necessary ventilation for the vegetables.

#### INFLUENZA.

At the time of writing this hospital is apparently in the early stages of a severe epidemic of so-called Spanish Influenza. Up to the present date only about nine men and twenty-eight women have suffered from the disease and thus far the mortality rate has not been high. Owing to the seriousness of this affection in Europe and in some of the neighbouring States the greatest vigilance is being exercised by the whole staff in order that the initial symptoms may be promptly recognized, and appropriate treatment employed at the inception of the malady. While the overcrowded state of the cottages will naturally promote the communicability of the disease, on the other hand the cottage system itself should serve to limit its extension as compared with the block system where large numbers of patients are congregated in one big building.

## FARMERS' AND CARPENTERS' COTTAGES.

The old wooden structures in the rear of the farmers' and carpenters' cottages had with the passage of years become so decayed and dilapidated that they were insanitary and unsafe, and during the past year the much needed additions and repairs were made at both these places. Mr. Govan, of the Department, made the plans and the hospital staff under the direction of the carpenter did the work so that the actual outlay was not great. These additions are now made of brick in keeping with the main part of the houses, and they each provide a good summer kitchen, pantry and small cupboards on the ground floor and a small sleeping room and bothroom and lavatory on the first floor. Under these additions are small vegetable cellars of sufficient size to store supplies enough for the occupants.

While these additions were being made, furnaces for heating the cottages were also installed and these buildings are now much more comfortable and convenient for the families who live in them.

#### SHORTAGE OF STAFF.

Each succeeding year the problem of securing adequate service seems to become greater in every department notwithstanding the increased remuneration which is offered. Every available man and woman who gives promise of intelligence and stability is promptly engaged and although advantage is taken of all known measures to increase the staff, the additions are distressingly small. It has always happened, however, that when the number of employees has become dangerously low and when apparently on the brink of disaster someone has come along from an unexpected quarter to save the situation.

#### OFFICERS AND EMPLOYEES.

After ten years of unselfish devotion to hospital work Dr. J. A. Rollins resigned his position as Assistant Medical Superintendent at this place on June 30th, 1918, and retired from the strain and stress of office life to the quiet relaxation of his own private home at London. Seldom has it been my privilege to be associated with an officer who was so uniformly considerate for the welfare of the patients and employees and what at the same time dispensed with equal fairness his disciplinary decisions. His unwavering kindness and unfailing

geniality won the lasting regard of all who came within the sphere of his influence, and I am personally thankful that his services were so long available at this hospital.

During the past year fifty-four men and fifty women were employed to fill the vacancies of those who had discontinued their services.

Gratefully acknowledging your consideration and counsel during the past year.

I have the honour to be, Sir.

Your obedient servant.

N. H. BEEMER.

# ANNUAL STATISTICAL REPORT OF THE OPERATIONS OF THE HOSPITAL FOR INSANE, MIMICO, FOR THE YEAR ENDING OCTOBER 31st, 1918.

TABLE No. 1-MIMICO.

Showing movements of patients in the Hospital for the official year ending October 31st, 1918.

_	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital	340	320	660			
In Residence October 31st, 1917				346	335	681
Admitted during year 1917-18:— By Warrant	47 33	27 49	74 82	80	76	156
Total number under treatment during year				426	411	837
Discharges during year:—  As recovered " improved " unimproved " not insane	10 17 1	19 11	29 28 1			
Total number discharged during year Died	28 44 2 3 12	30 27 16	58 71 2 3 28	89	73	162
Remaining in Hospital October 31st,				337	338	675
Total number admitted since opening of				2,045	1 010	2 504
Hospital	700	630	1,330	2,040	1,849	3,894
Hospital	614	508	1,122			
Hospital	48	9	57			
Hospital	52	1	58			
of Hospital	294	. 363	657	1,708	1,511	3,219
Total remaining in Hospital October 31st, 1918		•••••		337	338	675
Daily average population	344.31	339.05	683.36			
residence during year Number of applications on fyle	125,675 10	123,753 21	249,428 31			

TABLE No. 2-MIMICO.

Showing social state and religion of patients admitted during the year and since opening of Hospital.

	Admissions of Year.			I	n residenc	ee.	Admissions since opening.			
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	
SOCIAL STATE.							!			
Single	48	23	71	236	147	383	1,262	713	1,975	
Married	24	48	72	86	156	242	732	1,070	1,802	
Widowed	8	4	12	15	34	49	51	63	114	
Divorced		1	1		1	1		3	3	
Separated										
Unascertained				•••••						
Totals	80	76	156	337	338	675	2,045	1,849	3,894	
RELIGION.										
Baptists	1	4	5	10	11	21	64	80	144	
Congregationalists					1	1	4	7	11	
Church of England	11	16	27	69	68	137	402	403	805	
Methodists	11	10	21	61	87	148	438	470	908	
Presbyterians	20	8	28	76	67	143	400	350	750	
Reman Catholics	27	30	5 <b>7</b>	89	79	168	499	405	904	
Other Denominations	5	7	12	21	17	38	162	84	246	
Unascertained	5	1	6	11	8	19	76	50	126	
Totals	80	76	156	337	338	675	2,045	1,849	3,894	

TABLE No. 3-MIMICO.

Showing nativity of patients admitted during the year and since opening of Hospital.

	Adm	issions of	year.	Admissions since opening.			
otal born in Canada  .rmenia .ssyria .ustria .ustralia .elgium .ulgaria .entral America .hina .enmark .ingland .rance .inland .alicia .ermany .reece .olland .ungary .eland .ungary .eland .aly .apan	Male.	Female.	Total.	Male.	Female.	Total.	
Total admissions	80	76	156	2,045	1,849	3,894	
Total born in Canada	55	54	109	1,344	1,275	2,619	
Armenia Assyria Austria Australia	1		1 1	2 29 1	3	2 32 1	
Bulgaria						1	
China				2 1		1	
EnglandFrance	5	11	16	228 5	190 2	419	
Finland	$\begin{array}{c} 1 \\ 1 \\ 2 \end{array}$	2	3 1 3	32 2 25	8	$\frac{40}{2}$	
Greece				2 1		1	
Hungary Ireland Italy		1		168 19	$\frac{2}{190}$	$\frac{2}{358}$	
Japan Macedonia Other British Possessions		1		$\begin{array}{c} \dots \dots \\ 1 \\ 2 \end{array}$	8	1 10	
Norway	i		$\frac{5}{2}$			12	
Russia	1 3	3	1 6	19 80	13 79	32 159	
Spain	1		1	15	$\begin{array}{c} 1 \\ 12 \end{array}$	1 27	
Turkey United States West Indies				$\begin{array}{c} \cdots \cdots 33 \\ 2 \end{array}$	34	67 2	
Unascertained	1	1	2	19	17	36	
Totals	80	76	156	2,045	1,849	3,894	

TABLE No. 4-MIMICO.

Showing the occupation of those admitted during the year and since the opening of the Hospital.

	Adm	itted this	year.	Since Opening.			
Occupation.	Male.	Female.	Total.	Male.	Female.	Total.	
Professional:— Clergy, Military and Naval Officers, Physicians, Lawyers, Architects, Artists, Authors, Civil Engineers, Surveyors, etc	1		1	<b>7</b> 5	7	82	
Commercial:— Bankers, Merchants, Accountants, Clerks, Salesmen, Stenographers, Typewriters, etc	7	3	10	157	25	182	
Agricultural and Pastoral :— Farmers, Gardeners, Stock Men, etc.	26		26	584		5.84	
Mechanics at Outdoor Vocations:— Railway and Stationary Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers, Painters, Police, etc	14		14	218	2	215	
Mechanics, etc., at Sedentary Vocations: Shoemakers, Bookbinders, Composi- tors, Weavers, Tailors, Seam- stresses, Bakers, Factory Workers, etc	3		3	125	63	188	
Domestic Service:— Waiters, Cooks, Servants, etc		6	6	10	239	249	
Education and Higher Domestic Duties:— Governesses, Teachers, Students, Housekeepers, Nurses, etc	• • • • • • • • •	59	59	24	1,283	1,307	
Miners, Marine Engineers, Railway Employees, Seamen, etc	4		4	57		57	
Laborers	22		22	664	2	666	
No Occupation	3	8	11	72	181	253	
Unascertained				64	47	111	
Totals	80	76	156	2,045	1,849	3,894	

#### TABLE No. 5-MIMICO.

Showing the Counties and Districts from which patients have been admitted during the year, and since opening of Hospital.

			u	nu sm	ce ope	ning o	1 110	sprta.							
		1:44	1	V 1	1441			V	/arra	nt cas	es.		Rei	main	ing
		lmitt ing y			i <b>tt</b> ed pening		Ac	lmitt		Adm		since		in	
Counties	uni	mg y	car.	C	penna			ing y			ening		res	sider	ce.
and Districts.		1 1			ai.								i	24	
und Districts.	મં	Female.	Total.	ಕ	Female	ä.	น้	Female.	Ξ,	ಬ	Female.	Total.	್	Female.	Potal.
	Male.	E E	0,	Male.	Ξ	Total.	Male.	=======================================	Total	Male.	Ξ	o.	Male.	Ξ	õ
	2	至	T	7	54		-	구.		-	至	7	-	Ŧ	_
		1		6.0	-0		_			-			1.0		
Algoma District	8	I .	11	96 7	78 5	174	7			78 3	41°		16	12	28 1
Bruce				1	4					:;	10				
Carleton				10	1 i					8	6	14			1
Dufferin				6	3					$\frac{3}{2}$	1	3	1	- 1	
Dundas				3	5					2	3	5	2		2 2
Durham				14	20					7	8	15		4	9
Elgin				6				• • • •			• • • •		:		;
Essex		• • • •	1	. 6	2					<u>.</u>		1			1
Frontenac				120	17 2										
Grenville				1	6										
Grey				19	18					_		20		6	7
Haldimand				1	1								1		1
Halton				6	11						2	3			2 2 2
Haliburton				6	4							- 6	2		2
Hastings			1	24								40		1	2
Huron	• • • •			5	6			• • • •			1	2		• • • •	
Kent				+					1	4		+			1
Lambton Lanark				5 9	5 8						6	12	• • •		
Leeds			• • • •	1	3						2				
Lennox and Ad-				•		,					-	.,			
dington				4	5	9				3	5	8		'	
Lincoln			1	2	2	1			  ••••				1	1	2 5
Manitoulin				18	11	29				10		16		4	5
Middlesex			· · · <u>·</u>	16,	6	22				8	1	9,			2
Muskoka District.	6	- 1	7	63	52	115		;	1			46			13 87
Nipissing District.				199	112	311		, 11	24	$\frac{160}{2}$	58	218 3		41	01
Norfolk				26	24	50			• • • •	13	9	$\frac{3}{22}$			3
Ontario			11	159	167	326	2	1	3		42	$1\bar{1}\bar{9}$		27	46
Oxford				9	2					7	2	9			2
Parry Sound Dis-															
trict			- 11	73	57	130	3	_ 3	6		21	64	19	19	38
Peel	- 1		11	96	99	195	2				26	62	17		35
Perth			••::	9	2	11	• • • • •			4		199	$\frac{2}{23}$		$\frac{2}{62}$
Peterborough Prescott			14	133	166	299	.5		8	79 4	44 3	123	20	39	02
Prince Edward				1 3	3	7 9	• • • •	• • • •	• • • •	3	2	5		i	···i
Rainy River Dis-				• • • • • • • • • • • • • • • • • • • •	,	:)					-	9		1	
trict	2	1	3	38	25	63	2		2	32	21	53	7	7	14
Renfrew				4	5	9				4	3	7			
Russell				3	1	1				3		3			
Simcoe	7	8	15	276	242	518	2	1	3	100	14		46	36	82
Stormont	• • • •			1	2	3					1	1			• • • •
Thunder Bay Dis-	=	0	1.1	109	CO	101		_	19	0.5	59	148	23	15	38
trict	5 6	9	$\frac{14}{10}$	102 151	62 136	$\frac{164}{287}$	5 2	7	12 2	95 99	53 37	136		34	65
Waterloo		*		191 5	2	201	-			3	"il	1.50	1	.,,	1
Welland				3	2	5				2	2	4	1		i
Wellington				4	1	8					1	1			
Wentworth					10	10					3	3		3	3
York	6	4	10	381	395	776				192	172	364		59	112
Unascertained	• • • •			10	3	13				2	3	9	2		2
Totals	8)	70	150	2 015	1 9 10	2 901	17	97	71	1.178	605	1.873	337	338	675
I UvalS	00	76	190	5.040	1.049	3,894	47	27	1+	1,110	039	1,010	וניתי	• )• )(•	019
Q yr y									<u>'</u>		- 1				

TABLE No. 6-MIMICO.

Showing the assigned causes of insanity in the cases admitted during year.

Causes.	Men.	Women.	Total.	Pr	Inherited edispositi		In- ained.
				Men.	Wonien.	Total.	Un- ascertained
MORAL.							
Adverse Conditions (such as loss of friends, business troubles, etc) Mental Strain, Worry and Overwork (not	5	9	14		4	4	10
included in above)	6 1 1 1	14	20 2 1 1	2 1 1	6	8 1 1	12 1 1
Physical.							
Alcoholism							
Masturbation							
Insolation		3 2 1	$\begin{array}{c c} & 4 \\ 10 \\ 1 \end{array}$	$\frac{1}{2}$	1	2 2	2 8 1
Parturition and PuerperiumLactation		5	5		2	2	3
Climacteric Period Fevers		1	1		1	1	
Privation and Overwork	$\frac{\dots}{2}$	4 1		•••••		•••••	4 3
Other Convulsive Diseases							
Senility Exophthalmic Goitre	3	1					4
Epidemic Influenza		1	1				····i
Uræmia							
Other Bodily Diseases		1	2				2
HEREDITARY.							
Congenital Defect Unascertained Not Insane	51	32	83	14	6	20	63
Totals	80	76	156	21	20	41	115

TABLE No. 7-MIMICO.

Showing hereditary tendency to insanity in patients admitted during the year.

	Admi	Admitted during year.						
	Male.	Female.	Total.					
Paternal Branch	2	4	6					
Maternal Branch	4	6	10					
Paternal and Maternal Branches		3	- 5					
Collateral Branches	10	5	15					
No Hereditary Tendency	18	32	50					
Unascertained	46	26	72					
Totals	80	76	156					

TABLE No. 8-MIMICO.

Showing summary of Probational Discharges during the year.

	Male.	Female.	Total.
Number granted probational discharge	37	31	68
Discharged recovered while on probation	6 10 1	14 5	20 15 1
Died	9 11	6 6	15 17

# TABLE No. 9-MIMICO.

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

•	Die	d during y	rear.	Si	nce openit	ıg.
Cause of Death.	Male.	Female.	Total.	Male.	Female.	Total.
Specific Infectious Diseases —			1			10
Typhoid FeverInfluenzaCerebro-spinal Meningitis				5	5 2	10 2
Diphtheria Erysipelas				3		6
Septicæmia				$\frac{7}{10}$	18	11 28
SyphilisTuberculosis					97	1. 171
Constitutional Diseases:— Rheumatism Arthritis Deformans						2
Diabetes Mellitus				3	4	7
Diseases of the Digestive System:—  Mouth, salivary glands  Pharynx						
Tousils. Œsophagus Stomach.						
Diseases of the Intestines:—						
Diseases of the Liver  Diseases of the Pancreas  Diseases of the Peritoneum				1 8	1 7	6 2 15
Diseases of the Respiratory System:— Diseases of the Nose and Larynx				1		1
Diseases of the Bronchi Diseases of the Lungs Diseases of the Pleura				3 41 1	30	6 71 1
Diseases of the Circulatory System :— Diseases of the Pericardium				1	1	2
Diseases of the HeartArterio-sclerosis	1		1	52 4	14 5 1	96 9 <b>1</b>
Diseases of the Blood and Ductless Glands:—						
Anæmia		1		6	7	13 5 1
Exophthalmic Goitre					1	1
Diseases of the Genito-Urinary System			· · · · · · · · · · · · · · · · · · ·	5	3	8
Carried forward	18	9	27	238	240	478

# TABLE No. 9-MIMICO-Continued.

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

	Died	during y	vear.	Si	nce openir	ıμ.
Cause of Death.	Male.	Female.	Total.	Male.	Female.	Total.
Brought forward	18	9	27	238	240	478
Diseases of the Nervous System:  Diseases of the Nerves  Diseases of the Spinal Cord  Diseases of the Meninges				10	2 2	2 12
Organic Diseases of the Brain. (Tumor, Abscess, Embolism, Thromboids, Hæmorrhage, and other gross lesions)	3		3	45	30	75
Functional Nervous Diseases, (Paralysis Agitans, Chorea, Eclampsia, Hysteria) Epilepsy	4	1	5	6 73	2 24	8 97
Exhaustion of Acute Mental Dis- ease	13	9	22	70	48	118
Exhaustion of Chronic Mental Disease			14	51 42	42 17	93 59
Alcoholism						 
Debility of Old Age				61	80	141
Accident	<b></b> .			3	3	6
Suicide				4	2	6
Surgical Diseases				2	3	5
Synæcological Diseases					1	1
Malignant New Growths, or Cancer				6	11	17
Unknown (died while on probation)				3.	1	4
Totals	44	27	71	614	508	1,122

TABLE No. 10-MIMICO.

Showing form of mental disease of patients admitted, discharged and died during the year.

	A	dmit	ted.	Dis	charg	red.		Died.	
Mental Disease.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Infection Psychoses:—									
(a) Fever Delirium (b) Infection Delirium (c) Post Infection Psychoses									
Exhaustion Psychoses:—									
(a) Collapsed Delirium (b) Acute Confusional Psychoses (c) Neurasthenia									
	• • • •	••••		••••	••••	• • • •	• • • •	• • • •	•••
Intoxication Psychoses:— (a) Acute Intoxications									
(b) Chronic '									
(b) Delirium Tremens									
(c) Korsakow's Psychoses									
(e) Alcoholic Hallucinatory Dementia (f) 'Alcoholic Hallucinatory Dementia									
(g) '' Paresis	!								
(h) Morphinism(i) Cocainism									
(a) Mixædematous Psychoses									
(b) Cretinism	• • • •	• • • •	• • • • •	• • • •	••••		••••	••••	• • • •
Dementia Præcox:— (a) Hebaphrenic	19	9	21	1	,	6	10	1	11
(b) Catatonic	$\frac{12}{2}$	3	5	2	2	4	1	4	5
(b) Catatonic			13	- 1	"	3		1 '	4
(b) Catatonic			• ′		_		<b>்</b>	•	
(c) Paranoid			• ′		1		1	•	1
General Paresis		••••		• • • •		1		••••	
General Paresis	1					1		••••	
General Paresis  Organic Dementias:—  (a) Trauma	1		1			1		••••	
General Paresis Organic Dementias:—  (a) Trauma (b) Cerebral Sclerosis (c) Huntingdon's Chorea (d) Multiple Sclerosis (e) Cerebral Syphilis	1		11			1			
General Paresis  Organic Dementias:—  (a) Trauma (b) Cerebral Sclerosis (c) Huntingdon's Chorea (d) Multiple Sclerosis (e) Cerebral Syphilis (f) Tabetic Psychoses (g) Arterio Sclerotic Psychoses	1		1			1	· · · · · · · · · · · · · · · · · · ·		
General Paresis Organic Dementias:—  (a) Trauma (b) Cerebral Sclerosis (c) Huntingdon's Chorea (d) Multiple Sclerosis (e) Cerebral Syphilis (f) Tabetic Psychoses (g) Arterio Sclerotic Psychoses (h) Cerebral Tumor, Abscess, Hæmorrhage.	1	1	1			1	····· ···· 2		2
General Paresis Organic Dementias:—  (a) Trauma (b) Cerebral Sclerosis (c) Huntingdon's Chorea (d) Multiple Sclerosis (e) Cerebral Syphilis (f) Tabetic Psychoses (g) Arterio Sclerotic Psychoses (h) Cerebral Tumor, Abscess, Hæmorrhage (i) Sunstroke Involution Psychoses,—	1	1	1			1	····· ···· ···· 2		2
General Paresis Organic Dementias:—  (a) Trauma (b) Cerebral Sclerosis (c) Huntingdon's Chorea (d) Multiple Sclerosis (e) Cerebral Syphilis (f) Tabetic Psychoses (g) Arterio Sclerotic Psychoses (h) Cerebral Tumor, Abscess, Hæmorrhage (i) Sunstroke Involution Psychoses,— (a) Melancholia (b) Pre-senile Delusional Psychoses	1	1	1			1	····· ···· ···· 2	   1 2	2
General Paresis  Organic Dementias:—  (a) Trauma (b) Cerebral Sclerosis (c) Huntingdon's Chorea (d) Multiple Sclerosis (e) Cerebral Syphilis (f) Tabetic Psychoses (g) Arterio Sclerotic Psychoses (h) Cerebral Tumor, Abscess, Hæmorrhage (i) Sunstroke  Involution Psychoses,— (a) Melancholia (b) Pre-senile Delusional Psychoses (c) Senile Dementia	1	1	1			1	····· ···· ···· 2	1	2
General Paresis  Organic Dementias:—  (a) Trauma (b) Cerebral Sclerosis (c) Huntingdon's Chorea (d) Multiple Sclerosis (e) Cerebral Syphilis (f) Tabetic Psychoses (g) Arterio Sclerotic Psychoses (h) Cerebral Tumor, Abscess, Hæmorrhage (i) Sunstroke  Involution Psychoses,— (a) Melancholia (b) Pre-senile Delusional Psychoses (c) Senile Dementia  Manic Depressive Psychoses:— (a) Manic States	1 5 30	 1  1  3	1	·····  1 ····  1 ···  9	11	1  1 20	 2  1 10	1 2 2 5	2 · · · · · · · · · · · · · · · · · · ·
General Paresis Organic Dementias:—  (a) Trauma (b) Cerebral Sclerosis (c) Huntingdon's Chorea (d) Multiple Sclerosis (e) Cerebral Syphilis (f) Tabetic Psychoses (g) Arterio Sclerotic Psychoses (h) Cerebral Tumor, Abscess, Hæmorrhage (i) Sunstroke Involution Psychoses,—  (a) Melancholia (b) Pre-senile Delusional Psychoses (c) Senile Dementia Manic Depressive Psychoses:—	1	····· 1 ···· 1 ··· 3	1	1		1	····· 2	1 2 2	2

TABLE No. 10-MIMICO-Continued.

Showing form of mental disease of patients admitted, discharged and died during the year.

	Admitted.			Discharged.			Died.		
Mental Disease.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Brought forward	70	72	142	28	30	58	37	24	61
Paranoia	6	2	8						
Psychoses from Constitutional Neuroses:—  (a) Epileptic Psychoses		1	3				5		5
States of Deficient Mental Development:—  (a) Imbecility	2								
Not Diagnosed		• • • •						1	1
Totals						60	44	27	71

^{*}Includes 2 deports.

# TABLE No. 11-MIMICO.

Periods.	Alleged duration of insanity prior to admission.	Length of residence of those remaining in Hospital on Oct. 31st, 1918.	Periods of treatment of those who were discharged recovered during the year.	Periods of treatment of those who were discharged improved during the year.	Periods of treatment of those who were discharged unimproved during the year.	Periods of treatment of those who died during the year.
Under 1 month	17 20 13 9 12 3 12 6 15 4 13 8 4 13 2 1	11 10 - 20 14 5 9 24 21 46 29 40 39 43 137 90 59 78	1 5 4 4 10 1 2 2	1 2 1 4 4 4 4 1 12	1	10 5 1 3 2 5 1 6 3 6 3 6 3 6 3 1 5 2 7
Totals	156	675	29	28	1	71

#### HOSPITAL FOR INSANE, PENETANGUISHENE.

Annual Report of the Medical Superintendent for the Year Ending October 31st, 1918.

W. W. DUNLOP, Esq.

Inspector of Ontario Hospitals for the Insanc.
Parliament Buildings, Toronto, Ontario.

SIR,—In accordance with Statutory requirements I have the honour to submit the Fifteenth Annual Report of the Hospital for Insane, Penetanguishene, for the year ending October 31st. 1918.

#### POPULATION.

At the beginning of the year there were one hundred and sixty-seven male and two hundred and two female patients in residence. During the year eleven men and thirteen women died, two men cloped, one man was discharged as improved and ten men and fourteen women were admitted transfers from other Institutions, and one woman, who had been here on two previous occasions, was admitted from Midland so that, at the end of the year, we have in residence one hundred and sixty three men and two hundred and four women.

#### WORK DONE.

Notwithstanding the great difficulty in procuring and keeping help, the work of the Institution was satisfactorily performed. The roofs of laundry and boiler room, which were in bad repair, were replaced by metal roofing and the roof of verandah at Superintendent's residence was given more pitch and was re-covered. Numerous repairs were made to slate roof on Main Building. The water mains left over from last year were completed and water connection and extension for fire purposes was made to cottages. The roofs of a number of employees' houses were shingled, an addition was made to Painter's house, the exteriors of most of the houses were painted and repairs and decorating were done where necessary in every home. The roof of granary was re-shingled and the Farmer cleared the stone from about four acres of land. The Mason extended chimney on kitchen twelve feet. Numerous repairs were made to plumbing, resulting in the saving of water, but there is still much to be done. Electric wiring and lighting was partly completed and the general working of the farm and garden was carried out as usual.

# REQUIREMENTS.

The electric wiring and lighting should be completed in Main Buildings and extended to all employees' houses.

#### HEALTH OF COMMUNITY.

I am pleased to be able to report that the health of our people has been good. Up to date none of the patients in residence have contracted Spanish Influenza but a patient, out on probation, was returned with the disease and died of pneumonia.

#### CHURCH SERVICES.

We are again indebted to the clergy of Penetanguishene for ministering to the spiritual needs of our people.

#### STAFF.

There has not been any change in the Official staff of the Institution, with the exception that Dr. J. W. McBride came on as temporary Assistant Physician in December, and but few changes in employees and nurses, whom we were fortunate in being able to replace.

I have again to thank all officers, artisans, nurses and other employees for their loyalty and faithfulness in the discharge of their duties and you. Sir. for your counsel and support.

I have the honour to be. Sir.

Your obedient servant.

W. T. Wilson.

Medical Superintendent.

# ANNUAL STATISTICAL REPORT OF THE OPERATIONS OF THE HOSPITAL FOR INSANE, PENETANGUISHENE, FOR THE YEAR ENDING OCTOBER 31st, 1918.

#### TABLE No. 1—PENETANGUISHENE.

Showing movements of patients in the Hospital for the official year ending October 31st, 1918.

_	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital	166	203	369	-		
In residence October 31st, 1917				167	202	<b>36</b> 9
Admitted during year 1918:—  By Warrant	10	8	17 8	10	15	25
Total number under treatment during year			, <u>.</u>	177	217	394
Discharges during year:— As recovered As improved As unimproved As not insane		1	1			
Total number discharged during year Died Deported Eloped Transferred	11	13	24	14	13	27
Remaining in Hospital October 31st, 1918				163	204	367
Total number admitted since opening of Hospital			40	329	394	728
Hospital. Total number died since opening of Hospital. Total number deported since opening of Hospital. Total number eloped since opening of	112	142	254			
Hospital Total number transferred since opening of Hospital	15	26		166	190	356
Total remaining in Hospital October 31st, 1918				163	204	367
Daily average population	59.600	200.42 73,154	363.70 132,754			

TABLE No. 2—PENETANGUISHENE.

Showing social state and religion of patients admitted during the year and since opening of Hospital.

	Admi	ssions of	Year.	Ir	n residenc	ee	Adn	nissions opening	since
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
SOCIAL STATE.			4						
Single	6	2	8	131	110	241	242	196	438
Married	2	13	15	29	90	119	76	186	262
Widowed	1		1	3	4	7	3	5	8
Divorced									
Separated									
Unascertained	1		1				8	7	15
Totals	10	15	25	163	204	367	329	394	723
RELIGION.									
Baptists		1	1	6	14	20	12	17	21
Congregationalists									
Church of England	1	4	5	21	53	74	61	95	15
Methodists		4	4	27	41	68	53	78	131
Presbyterians	1	1	2	17	20	37	42	60	103
Roman Catholics	3	3	6	54	48	102	84	93	17
Other Denominations	3	2	5	19	12	31	42	32	7.
Unascertained	2		2	19	16	35	35	19	5
Totals	10	15	25	163	204	367	329	394	72

#### TABLE No. 3-PENETANGUISHENE.

Showing nativity of patients admitted during the year and since opening of Hospital.

	Adm	issions of	year.	Admissio	ons since	opening.
Nativity.	Male.	Female.	Total.	Male.	Female.	Total.
Total Admissions	. 10	_ 15	25	329	394	723
Total born in Canada	. 5	10	15	174	232	406
Armenia Assyria Austria Australia			·····2	7	1 2	1 2 7
Belgium. Bulgaria						i
China Denmark England France Finland Galicia Germany Greece	2	1 1	1 1 2 1	51 1 11 2 6	1 49 2 2 2	1 100 3 13 2 12 1
Holland Hungary Ireland Italy				$\begin{array}{c} \cdots \cdots \\ 21 \\ 5 \end{array}$	47	68 6
Japan				1		1 i
Norway Roumania Russia Scotland South America	1	<u>1</u> 1	2 1	1 7 12		13 34
Spain				4	2	6
United States. West Indies Unascertained				8	6 15	14 31
Totals		15	25	329	394	723

TABLE No. 4-PENETANGUISHENE.

Showing the occupation of those admitted during the year and since the opening of the Hospital.

	Adm	itted this	year.	Si	ince openir	ng.
Occupation.	Male.	Female.	Total.	Male.	Female.	Total
Professional:— Clergy, Military and Naval Officers, Physicians, Lawyers, Architects, Artists, Authors, Civil Engineers, Surveyors, etc			•••••	3	•••••	3
Commercial:— Bankers, Merchants, Accountants. Clerks, Salesmen, Stenographers, Typewriters, etc.				1	1	5
Agricultural and Pastoral:— Farmers, Gardeners, Stockmen, etc.	3	•••••	3 .	72		72
Mechanics at Outdoor Vocations:— Railway and Stationary Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers, Painters, Police, etc.  Mechanics, etc., at Sedentary Voca-	• • • • • • •			23		23
tions:— Shoemakers, Bookbinders, Compositors, Weavers, Tailors, Seamstresses, Bakers, Factory Workers, etc.		1	1	10	12	22
Domestic Service:— Waiters, Cooks, Servants, etc		2	2		137	137
Education and Higher Domestic Duties:— Governesses, Teachers, Students, Housekeepers, Nurses, etc	· · · · • • • • •	12	12	6	155	161
Miners, Marine Engineers, Railway Employees, Seamen, etc	1		1	5		5
Laborers	6		6	163	1	164
No Occupation				18	56	74
Unascertained				25	32	57
Totals	10	15	25	329	394	723

#### TABLE No. 5-PENETANGUISHENE.

Showing the Counties and Districts from which patients have been admitted during the year, and since opening of Hospital.

		lmitt			imitte e open			itted	dur-	t Case Admi	tted s	since	Ren	nain in iden	•
Counties	_	-	_				1r	g ye	ar.	- or	ening	ζ.	103	raci	
and Districts.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Algoma District	3	1	4	25	13	38	3	1	4	18	10	28	18	8	26
Brant		1		1	19	2				10			10	1	2
Bruce				î	6	7				1	3	4		3	2
Carleton				1	4		5			1	2	3	1	2	4
Dufferin				1	4		5			1	$\bar{1}$	2	1	2	
Dundas				]											
Ourham				1	1	2									
Elgin				1	4	7	5			1	3	4		3	:
Essex				!	2						2	2			
Frontenac					4					1.	2	3		3	:
Glengarry								,							
Grenville															
Grey				14	5	19	}			11	4	15		3	9
Haldimand															
Halton				1	1		2			····i					
Hastings				1:	6	7	ī			1	6	7	1	1	
Huron				2	3		5			1				2	
Kent															
Lambton				1	3							2		1	
Lanark					1	1	١				!			1	
Leeds				1	1		2				1	1		)	
Lennox & Adding-								į	Į.						
ton			'	1	6	7	7	1			5	5		2	
Lincoln				2	2		1			2	2	4			
Middlesex				5	8	1:	3	1		4	4	8	1	1	
Muskoka District	1	. 1	2	13	11	2.	1 1		1	10	7	17	8	6	1
Nipissing District.			6	18	15	33	3 2	3	5	19	11	30	8	11	1
Norfolk					5		3		1					2	
Northumberland				5	10	13	5			2	4	6		6	
Ontario			2	18	15	3	3			16	6		11	10	2
Oxford				2	2		4			2	1	3	1		
Parry Sound Dist	1		1	7	2	9	) 1		1	7		7		1	
Peel				1	4	:	5				2	2		3	
Perth				1	3		4,			1	2	3			
Peterborough	ļ	2	2	6	5	1.	1			6	3	9		4	
Prescott				. 2	1		3		, !	1		1	2		
Prince Edward									!						
Rainy River Dist			1	10	4	1.	1			10	3	13		2	
Renfrew				1	3		4			2	1	3		3	
Russell								,							
Simcoe		2	3	73	93	16		1	2	30	30	60	_	39	6
Stormont					1		$1, \dots$				1	1		1	,
Thunder Bay Dist.	2			16	10					16	10		14	5	1
Victoria			1	7	8		5			6	7	13		-	
Waterloo				1 2	1		3			2	_			1	
Welland					2							1		1	
Wellington				3	3					1		1		3	
Wentworth				7	2		$9 \dots$			2	2	4		62 62	g
York				62		17		1		52	60,	112	31		1
Unascertained				16	10	2	$6   \dots$			• • • • •	• • • •	• • • • •	11	3	1
Totals	10	15	25	329	394	72	3 10	7	17	229	197	426	163	204	36

# TABLE No. 6.—PENETANGUISHENE.

Showing the assigned causes of insanity in the cases admitted during the year.

Causes.	Men.	Women.	Total.	Pr	Inherited edispositi		Un- ascertained.
				Men.	Women.	Total.	ascer
MORAL.							
Adverse Conditions (such as loss of friends business troubles, etc.)							
Religious Excitement							
PHYSICAL.							
Alcoholism Sexual Excess. Venereal Diseases Masturbation Insolation Accident or Injury	• • • • • •	••••••					
Pregnancy Parturition and Puerperium Lactation Climacteric Period Fevers			•••••				
Privation and Overwork  Epilepsy Other Convulsive Diseases Diseases of Brain and Skull Senility		• • • • • • • • •					
Exophthalmic Goitre Epidemic Influenza. Abuse of Drugs Loss of Special Sense					1		
Uræmia Other Auto-infection Other Bodily Diseases		. <b></b>					
HEREDITARY.							
Congenital Defect	6	9 6	11 12				11 12
Total	10	15	25				25

# TABLE No. 7-PENETANGUISHENE.

Showing hereditary tendency to insanity in patients admitted during the year and since the opening of the Hospital.

	Admitt	ed During	Year.	Si	Since Opening.				
	Male.	Female.	Total	Male.	Female.	Total.			
Paternal Branch		3	3	25	37	62			
Maternal Branch				17	31	48			
Paternal and Maternal Branches	l	2	3	1	10	17			
Collateral Branches	L	+	.)	22	29	51			
No Hereditary Tendency	+	1	9	105	114	219			
Unascertained	1	5	9	153	173	326			
Totals	10	15	25	329	394	723			

#### TABLE NO. 8-PENETANGUISHENE.

Showing summary of probational discharges during the year.

·	Male.	Female.	Total.
Number Granted Probational Discharge		2	2
Discharged. Recovered while on Probation		1	
Discharged, Unimproved			
Died Returned to Hospital		2	2
Absent on probation on October 31st, 1918	•••••		

#### TABLE No. 9-PENETANGUISHENE.

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

	Died	During Y	ear.	Si	nce Openia	ng.
Cause of Death.	Male.	Female.	Total.	Male.	Female.	Total.
Specific Infectious Diseases:— Typhoid Fever	• • • • • • • • • • • • • • • • • • • •			1	1 1	2
Cerebro-spinal Meningitis Diphtheria					• • • • • • • •	
Erysipelas Septicæmia Dysentery	1		1	¹ 2	2 1	1 1 5
Syphilis Tuberculosis	• • • • • • • • • • • • • • • • • • • •		•••••	18	16	34
Constitutional Diseases:— Rheumatism						
Diabetes Mellitus						
Diseases of the Digestive System:—  Mouth, Salivary Glands Pharynx			'			
Tonsils Esophagus.	•••••		• • • • • • • •		1	1
Diseases of the Intestines:  Diseases of the Liver				1		1 1 2
Diseases of the Respiratory System:— Diseases of the Nose and Larynx	• • • • • • • • • • • • • • • • • • • •			••••		
" Bronchi Lungs	1	4	5	12 1	11	3 23 1
Diseases of the Circulatory System:  Diseases of the Pericardium						
Arterio-sclerosis Aneurism	2 2	3	5 3	19 7	$\frac{25}{2}$	9
Diseases of the Blood and Ductless Glands : Anæmia Pernicious Anæmia	:			1 1	1 2	2 3
Leukæmia Exophthalmic Goitre	• • • • • • • •	2	2	1	3	4
Diseases of the Genito-Urinary System	1		1	9	3	12
Carried Forward	7	10	17	76	86	162

#### TABLE No. 9-PENETANGUISHENE-Continued.

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

	Died	During Y	čear.	Sir	nce Openii	ng.
Cause of Death.	Male.	Female.	Total.	Male.	Female.	Total.
Brought forward	7	10	17	76	86	162
Diseases of the Nervous System:— Diseases of the Nerves				1	1	1 1 1
bosis, Hæmorrhage and other gross lesions)	1		4	13	13	26
sia, Hysteria)					2 5	2 6
Mental Diseases:— Exhaustion of Acute Mental Disease Chronic General Paresis					2 1 4	3 1 9
Intoxications:— Alcoholism Morphinism Metallic Poisoning Heat Stroke				1		1
Debility of Old Age					15	27
Accident					1	1
Suicide				1		1
Surgical Diseases					3 .	3
Gynæcological Diseases					!	
Malignant New Growths or Cancer		3	3		9	9
Totals	11	13	24	112	142	254

#### TABLE No. 10-PENETANGUISHENE.

Showing form of mental disease of patients admitted, discharged and died during the year.

	A	dmit	ted.	Dis	char	ged.		Died	
Mental Disease.	Male,	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Infection Psychoses:—  (a) Fever Delirium  (b) Infection Delirium  (c) Post Infection Psychoses.									
Exhaustion Psychoses:—  (a) Collapsed Delirium  (b) Acute Confusional Psychoses  (c) Neurasthenia									
Intoxication Psychoses:—  (a) Acute Intoxications (b) Chronic (a) Alcoholism (acute and chronic) (b) Delirium Tremens (c) Korsakow's Psychoses (d) Acute Alcoholic Hallucinosis (e) Alcoholic Hallucinatory Dementia (f) 'Paranoia (g) 'Paresis (h) Morphinism (i) Cocainism							1	1	1
Thyroigenous Psychoses:—  (a) Mixedematous Psychoses  (b) Cretinism									
Dementia Præcox:—  (a) Hebaphrenic (b) Catatonic (c) Paranoid  General Paresis	 3 3	···· 5	3 8			• • • • • • • • • • • • • • • • • • • •	 1 2		
Organic Dementias:—  (a) Cerebral Sclerosis. (b) Huntingdon's Chorea (c) Multiple Sclerosis. (d) Cerebral Syphilis (e) Tabetic Psychoses (f) Arterio Sclerotic Psychoses (g) Cerebral Tumor. Abscess, Hæmorrhage									
Involution Psychoses:—  (a) Melancholia								1	1
Manic Depressive Psychoses:—  (a) Manic States	2 2	2 1	4 6 1						• • • •
Carried forward	10	12	22				1	8	12

# TABLE No. 10-PENETANGUISHENE.-Continued.

Showing form of mental disease of patients admitted, discharged and died during the year.

	A	dmitt	ted.	Dis	char	ged.		Died	
Mental Disease.		Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Brought forward	10	12	22				4	8	12
Paranoia				1		1			
Psychoses from Constitutional Neuroses:—  (a) Epileptic Psychoses								1	1
States of Deficient Mental Development:—  (a) Imbecility		3	3	••••		••••			
Not Diagnosed							7	4	11
Totals	10	15	25	1		1	11	13	24

#### TABLE No. 11-PENETANGUISHENE.

Periods.	Alleged duration of insanity prior to admission.	Length of residence of those remaining in Hospital on Oct. 31st, 1918.	Periods of treatment of those who were discharged recover- ed during the year.	Periods of treatment of those who were discharged im- proved during the year.	Periods of treatment of those who were discharged unim- proved during the year.	Periods of treatment of those who died during the year.
Under 1 month	1  2 7 1 3 3 1 3	18 13 20 24 17 75 175		1		3 1 10 10
" 20 years and upwards. Totals	25	367		1		24

# HOSPITAL FOR THE INSANE, TORONTO.

NOVEMBER 1st, 1918.

W. W. Dunlop, Esq.,
Inspector of Hospitals,
Parliament Buildings, Toronto.

SIR,—In accordance with your request I have the honour to submit the Seventy-eighth Annual Report of this Hospital for the year ending October 31st, 1918.

	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital						
In Residence October 31st, 1917				551	606	1,157
Admitted during year 1918:  By Warrant  By Certificate	46 129	12 195	58 324	175	207	382
Total number under treatment during year		• • • • • • • • • • • • • • • • • • • •		726	813	1,539
Discharges during year, minus deports:  As recovered  "improved "unimproved "not insane	34 47 8	57 51 3	91 98 11			
Total number discharged during year	89	111	200			
Died	67 1 6	55 3 2	122 1 9	165	71	336
Remaining in Hospital Oct. 31st, 1918		ļ		561	642	1,203

The above Statistacal Table showing the Admissions, Discharges and Deaths in this Hospital during the last year represents a huge volume of work. That this could be carried on so satisfactorily and efficiently with the reduced number on our Medical, Nursing and Attendant's staffs is creditable. This shortage of staff was a condition brought about by the War, and was unavoidable.

#### CONVALESCENT HOSPITAL.

In order to relieve the over-crowding of the Womens' Department it was decided to utilize the Industrial Building for the reception of patients, and to make some additions to Cottage B. These were both two storey buildings, and certain extensive alterations were required to obtain this end. In the Industrial Building a sun-room was built against the southern wall for a general sitting room. Hard wood floors were laid, and walls plastered. An enclosed stairway was erected at each end of the cottage for exits, and an addition built against the northern wall for a kitchenette, lavatories, and bathroom. This made a dining room and two

dormitories on the ground floor for fifteen beds, and two dormitories on the first floor for thirty and fifteen beds. These wards were open and airy with cross ventilation and lighting. The heating was by steam from the central boilers. All windows had fly-screens with a heavier mashed screen for protection. It gave us accommodation for seventy-five patients. Four sun-rooms were added to Cottage B. for thirty-four patients. This relieved the situation very nicely, and the new buildings proved quite suitable.

About an acre of land was fenced off around the Convalescent Hospital providing a nice lawn, and a garden plot for these female patients. The patients planted and cultivated the garden, and gathered the vegetables. They also kept their lawn nicely mown. It was quite a novelty for these women, and one which they enjoyed, and were the better for having. These buildings were open for

the reception of patients on the 11th of June.

#### INFLUENZA EPIDEMIC.

About the first week in October the Spanish Influenza made its appearance in this Hospital. The Nursing staff suffered from it first, and about a week later the patients were attacked at the rate of twenty and thirty a day. This lasted a couple of weeks. As far as possible the sun-rooms were utilized in each ward for the accommodation of these patients. These were well heated: had full exposure to sunlight, and free ventilation. Although we had about three hundred patients ill. in most cases the illness was slight, and after a few days in bed were better. In all, there were thirteen deaths from Influenza and Pneumonia. As soon as the Provincial Influenza Vaccine was available from the Connaught Laboratories a supply was kindly furnished, and all patients between twenty and forty years of age were vaccinated. By the end of the month we were quite free from the epidemic, and our Hospital wards were opened again to the visiting friends.

#### TRAINING SCHOOL FOR NURSES.

The teaching has been carried on in this Department by the Medical Staff, and Miss E. V. West, during the past year, and very creditable progress was made. Not only have our graduates established a name for themselves at home, but also abroad, and in the Military Service. Two of them engaged in the war, Miss Meta Parker, and Niss Ann I. George were mentioned to the Secretary of War "for valuable services rendered." During the prevailing epidemic of Influenza, when nurses were so greatly needed throughout the Province, appeals were made to us from different quarters, we were able to spare from two to five nurses at different times so as to help relieve a situation of great urgency in different parts of the Province.

I cannot close my report without tendering my hearty thanks to the Medical Officers, Nurses, Attendants and other employees, for their splendid support

during the past year.

I have the honour to remain.

Your obedient servant,

J. M. FORSTER,

Medical Superintendent.

# ANNUAL STATISTICAL REPORT OF THE OPERATIONS OF THE HOSPITAL FOR INSANE. TORONTO, FOR THE YEAR ENDING OCTOBER 31st, 1918.

# TABLE No. 1-TORONTO.

Showing movements of patients in the Hospital for the official year ending October 31st, 1918.

	Male.	Female.	Total.	Male.	Fe- male	Total.
Capacity of Hospital	426	426	852			
In Residence October 31st, 1917				551	606	1,157
Admitted during year 1918:—  By Warrant  By Medical Certificate	46 129	12 195	58 324	175	207	382
Total number under treatment during year				726	815	1,539
Discharges during year, not including deports:—  As recovered	34 47 8	57 51 3	91 98 11			,,,,,
Total number discharged during year	89	111	200	-		
Died Deported Eloped Transferred	67 1 6 2	55 3 2	122 1 9 4	165	71	336
Remaining in Hospital October 31st, 1918				561	642	1,208
Total number admitted since opening of Hospital  Total number discharged since opening of Hospital  Total number died since opening of	3,435	3,629	7,064	7,075	6,744	13,819
Hospital	1,962	1,555	3,517			
Hospital	114	49	163			
Hospital	170	32	202			
of Hospital	833	837	1,670	6,514	6,102	12,616
Total remaining in Hospital October 31st, 1918				561	642	1,203
Daily average population	552 201,480	593	1,145 417,925 10			İ

TABLE No. 2—TORONTO.

Showing Social State and Religion of Patients admitted during the year and since the opening of Hospital.

	Ir	residenc	e.	Admis	ssions of	Year.	Adn	nissions s opening.	
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
SOCIAL STATE.									
Single	379	314	693	91	76	167	3,806	2,654	6,460
Married	150	243	393	73	96	169	3,142	3,838	6,980
Widowed	14	84	98	11	35	46	98	241	339
Divorced							1	1	2
Separated									
Unascertained	18	1	19		·		28	10	38
Totals	561	642	1,203	175	207	382	7,075	6,744	13,819
RELIGION.									
Baptists	14	24	38	9	11	20	198	219	417
Congregationalists	1	9	13				65	87	152
Church of England	134	180	314	32	63	95	1,994	1,866	3,860
Methodists	93	126	219	25	40	65	1,282	1,335	2,617
Presbyterians	86	125	211	26	40	66	1,413	1,406	2,819
Roman Catholics	111	96	207	36	27	63	1,275	1,162	2,437
Other Denominations	75	58	133	24	23	47	563	509	1,072
Unascertained	44	24	68	23	3	26	285	160	445
Totals	561	642	1,203	175	207	382	7,075	6,744	13,819

TABLE No. 3—TORONTO.

Showing Nativity of Patients admitted during the year and since opening of Hospital.

N-4::4	Admi	ssions of	Year.	Admissi	ons since	opening.
Nativity.	Male.	Female.	Total.	Male.	Female.	Total.
Total Admissions	175	207	382	7,075	6,744	13,81
Total born in Canada	79	116	195	3,111	3,143	6,25
Armenia Assyria Austria Australia	7	i	8	2 31 2	7	3
Belgium Bulgaria Central America			• • • • • • • • • • • • • • • • • • • •	8		
China	3	47 1	78 1	$\begin{matrix}&&7\\2\\1,402\\3\end{matrix}$	1,213 3	2,61
Finland Galicia Germany Greece	2	i		12 5 2		2:
Holland Hungary reland taly	6 5	8	14 5	1,216 31	3 1,253 4	2,46
Macedonia Other British Possessions Norway	1 1		1 1	10 8 1 2	9 2 6	1
Roumania. Russia. Scotland South America	13 6	9 13	1 22 19	75 633 1	56 572	13 1,20
Spain Sweden Furkey Jnited States	6	4	10	$\begin{array}{c} 1 \\ 1 \\ 6 \\ 232 \end{array}$	3 1 250	48
West Indies	15	2 4	2 19	4 258	7 196	1 45
Totals	175	207	382	7,075	6,744	13,81

TABLE No. 4-TORONTO.

Showing the occupation of those admitted during the year and since the opening of the Hospital.

	Admi	tted this	Year.	Sir	nce Openia	ıg.
Occupation.	Male.	Female.	Total.	Male.	Female.	Total.
Professional:— Clergy, Military and Naval Officers, Physicians. Lawyers, Architects, Artists, Authors, Civil Engineers, Surveyors, etc.	9		9	280	16	296
Commercial:—  Bankers Merchants, Accountants,  Clerks Salesmen, Stenographers,  Typewriters, etc	12	10.	22	837	125	962
Agricultural and Pastoral:— Farmers, Gardeners Stock Men, etc	9	,	9	1,480		1,480
Mechanics at Outdoor Vocations:— Railway and Stationary Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers, Painters, Police, etc.	22		22	745	2	747
Mechanics, etc., at Sedentary Vocations:— Shoemakers, Bookbinders, Composi- tors. Weavers, Tailors, Seamstresses, Bakers, Factory Workers, etc	10	25	35	598	361	959
Domestic Service:— Waiters, Cooks, Servants, etc		30	30	85	1,494	1,579
Education and Higher Domestic Duties:— Governesses, Teachers, Students, Housekeepers, Nurses etc	1	101	102	245	3,548	3,793
Miners, Marine Engineers, Railway Employees, Seamen, etc.	16		16	216	2	218
Laborers	73		73	1,893		1,893
No Occupation	4	31	35	288	781	1,069
Unascertained	19	10	29	408	415	823
Totals	175	207	582	7,075	6,744	13,819

#### TABLE No. 5-TORONTO.

Showing the Counties and Districts from which Patients have been admitted during the year, and since opening of Hospital.

	Λ.1	mitte		Adm	itted s	inee		W	arrai	it Case	s.		Rei	mair	ing
Counties		ng ye			pening			mitte ng ye		Admit	ted s			in sider	
and Districts.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
D'					10	20	-						-		
Algoma District Brant		• • • •	1	15 49	18 60	33 109				$\frac{7}{2}$	1 3	8 5	2	3	5 1
Bruce				26	15					5		5			
Carleton				81	66,					12	2	14			1
Dufferin				8	10					3	1	4	_	1	2
Dundas				17	16					3	1	4			
Durham				178	164			• • • •		34	17	51			11
Elgin Essex				33 18	$\frac{25}{16}$					$\frac{1}{2}$	· · · · 3	1 5			1
Frontenac				105	75					$2\overline{3}$	13	_		i	1
Glengarry				31	21					5	2	. 7			î
Grenville				19	17					5	1	6	1		î
Grey				120	96	216				58	17	75	1		1
Haldimand				26	26					5	1	6			
Halton				83	66					6	2	8		2	
Hastings				116	89 60					53	27	80	2		
Huron Kent				67 26	23					$\frac{4}{6}$	$-\frac{1}{2}$	5		3	
Lambton				30	24					3	$\frac{2}{2}$				
Lanark				51	43					10	$\bar{6}$				
Leeds				41	36					6	4	10	1		j
Lennox and Ad-													1		
dington				27	21						1	13			2
Lincoln				101	85					14	10	24			
Middlesex				84	79					1:		1			4
Muskoka District Nipissing District.	• • • •	1	1	$\frac{21}{7}$	20 7						2	9	1		1
Norfolk				19	21						4		1	1	
Northumberland				150	142					30	··ii	41	2	5	1
Ontario			2	205	184	389				1	$-2\hat{8}$		9	7	
Oxford				40	40	80				4	5	(	3		:
Parry Sound Dis-															
trict				121							• • • •		1		
Peel	• • • •			131 50	$\frac{130}{50}$					37	10	47	_	5	(
Perth Peterborough				105	100					44	15	1		2	
Prescott				21	22					3	1			<u> </u>	
Prince Edward				26	30					3	$\tilde{2}$		3	1	
Rainy River Dis-															
trict				5	4						2	(	·		
Renfrew	• • • •			4							;			1	
Russell											1		3		1
Simcoe				80 50							12 3		)	6	
Thunder Bay Dis-	• • • •			90	99	0.0				·	Ð			1	
trict		1	1	2	4	6		. 1	1		1	]	2	1	:
Victoria				144	146						26				. (
Waterloo				56		111				10	- 4		1 4	1 3	
Welland				52	51	103					4				
Wellington				152	152	304					4				
Wentworth York	171	909	971	237	211			10		$\frac{39}{21,371}$	$\frac{9}{705}$	$\frac{48}{2,076}$			
Unascertained				4,000		8,047		10			100				
Manitoba				00	1									1	
	1											1			_
Totals	175	207	382	7.075	6,744	13,819	34	- 11	45	2,092	978	3,070	561	642	120

# TABLE No. 6-TORONTO.

Showing the assigned causes of insanity in the cases'admitted during year.

Causes.	Men.	Women.	T-4-1	Pr	Inherited edisposit		Un- ascertained.
Causes.	Men.	women.	lotar.	Men.	Women.	Total.	Uı
Moral.							
Adverse Conditions (such as loss of friends, business troubles, etc.)  Mental Strain, Worry and Overwork (not included in above)  Religious Excitement  Love affairs, including seduction	• • • • • • • • • • • • • • • • • • • •			•••••			
Fright and Nervous Shock							
PHYSICAL.							
Alcoholism	18	2	20				
Sexual Excess Venereal Diseases	20	5	25				
Masturbation							
Insolation				• • • • • •			• • • • • • •
Pregnancy							
Parturition and Puerperium							
Lactation							• • • • • •
Fevers							
Privation and Overwork		2	9				• • • • • • •
EpilepsyOther Convulsive Diseases							
Diseases of Brain and Skull		[†]					
Senility Exophthalmic Goitre	16	37	53				
Epidemic Influenza							
Abuse of Drugs	3		3				
Loss of Special Sense			4				
Other Auto-infection							
Other Bodily Diseases							
HEREDITARY.							
						1	
Congenital Defect Unascertained Not Insane	110	12 149	13 259	1 174	12 195	13 369	
Totals	175	207	382	175	207	382	

TABLE No. 7—TORONTO.

Showing hereditary tendency to insanity in patients admitted during the year.

	Admitted during year.						
	Male.	Female.	Total.				
Paternal Branch		5 3	6				
raternal and Maternal Branches Collateral Branches No Hereditary Tendency	••••	4	4				
Unascertained	174	195	369				
Totals	175	207	382				

TABLE No. 8—TORONTO.

Showing summary of Probational discharges during the year.

	Male.	Female.	Total.
Number granted probational discharge	83	145	228
Discharged, recovered while on probation	20 24	37 35	57 59
" improved " " unimproved " Died while on probation	2	2	4
Returned to Hospital while on probation	24	49	73
Absent on probation on Oct. 31st, 1918	13	22	35

#### TABLE No. 9-TORONTO.

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

	Died	during y	rear.	Sir	nce openin	g.
Cause of Death.	Male.	Female.	Total.	Male.	Female.	Total.
Specific Infectious Diseases:— Typhoid Fever	1		1	1 3	2 4	3 7
Diphtheria Erysipelas Septicæmia Dysentery Syphilis Tuberculosis	1 1	1	2 1	2 9 7 2 73	1 4 15 4 1 91	$1\\6\\24\\11\\3\\164$
Constitutional Diseases:— RheumatismArthritis Deformans			1		1	1
Diabetes Mellitus				1	2	3
Diseases of the Digestive System:—  Mouth, salivary glands Pharynx Tonsils Œsophagus						3
Diseases of the Intestines:— Diseases of the Liver Pancreas Peritoneum				10 3 5	12 2 8	22 5 13
Diseases of the Respiratory System:— Diseases of the Nose and Larynx Bronehi Lungs Pleura				36 11	5 42 12	8 78 23
Diseases of the Circulatory System:— Diseases of the Pericardium Heart Arterio-sclerosis. Aneurism	3 4	3 2	6	1 64 27 1	2 62 11	3 126 38 1
Diseases of the Blood and Ductless Glands Anæmia				3	. 2 1 2	5 4 1 2
Diseases of the Genito-Urinary System		. 1	1	21	15	36
Carried forward	26	22	48	289	302	591

TABLE No. 9-TORONTO-Continued.

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

0 10 10 10	Died	during ;	year.	Si	nce openir	og.
Cause of Death.	Male.	Female.	Total.	Male.	Female.	Total.
Brought forward	26	22	48	289	302	591
Diseases of the Nervous System:  Diseases of the Nerves				2 2 1	1	3 3 1
lesions) Functional Nervous Diseases, (Paralysis Agitans, Chorea, Eelamp-	2	1	3	25	17	42
sia, Hysteria) Epilepsy	2	1	2	34 34	33	4 67
Mental Disease:  Exhaustion of Acute Mental Disease.  Chronie  General Paresis  Pellegra		5	8 1 20	29 9 265	50 6 31 4	79 15 296 4
Intoxications:—     Alcoholism				4		4 2
Debility of Old Age	10	23	33	116	130	246
Accident				1	3	4
Suicide	2	1	3	11	6	17
Surgical Diseases				1		1
Gynæcological Diseases						
Malignant New Growths, or Cancer	1	1	2	8	13	21
Totals		55	122	803 1,159	597 958	1,400 2,117
				1,962	1,555	3,517

#### TABLE No. 10-TORONTO.

Showing form of mental disease of patients admitted, discharged and died during the year.

	A	dmit	ted.	Dis	char	ged.		Died	•
Mental Disease.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Infection Psychoses:—  (a) Fever Delirium  (b) Infection Delirium  (c) Post Infection Psychoses	1	6		3		1 4	1	2	2
Exhaustion Psychoses:—  (a) Collapsed Delirium  (b) Acute Confusional Psychoses.  (c) Neurasthenia.		1	4 1			2 1	1	3	4
Intoxication Psychoses:—  (a) Acute Intoxications. (b) Chronic (a) Alcoholism (acute and chronic). (b) Delirium Tremens. (c) Korsakow's Psychoses. (d) Acute Alcoholic Hallucinosis. (e) Alcoholic Hallucinatory Dementia. (f) 'Paranoia. (g) 'Paresis. (h) Morphinism. (i) Cocainism.  Thyroigenous Psychoses:— (a) Mixædematous Psychoses. (b) Cretinism.  Dementia Præcox:— (a) Hebaphrenic. (b) Catatonic. (c) Paranoid.  General Paresis: Organic Dementias:— (a) Cerebral Sclerosis. (b) Huntingdon's Chorea. (c) Multiple Sclerosis. (d) Cerebral Syphilis. (e) Tabetic Psychoses. (f) Arterio Sclerotic Psychoses. (g) Cerebral Tumor, Abscess, Hæmorrhage.	18 3 3 23 40 6 20 1 1	27 47 17 5	20 3 3 3 3 1	10  1  9 17 5 3	10 22 6 2	10  1  19 39 11 5	1 1 	4 9	111 200 3 21
Involution Psychoses:—  (a) Melancholia  (b) Pre-scnile Delusional Psychoses  (c) Senile Dementia.	5 2 16	21 .;;.	26 2 53	29	6 1 4	8 1 13	4	5 24	35
Manic Depressive Psychoses:—  (a) Manic States  (b) Depressed States  (c) Mixed States	11 9	24 9	35 18	16 4	35 12	51 16	2 2	4	6 2
Paranoia  Carried forward	158	119	357	80	104	184	65	54	119

TABLE No. 10-TORONTO-Continued.

Showing form of mental disease of patients admitted, discharged and died during the year.

	Ad	mitte	ed.	Disc	harg	ed.		Died.	
Mental Diseases.		Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Brought forward	158	119	357	80	104	184	65	54	119
Psychoses from Constitutional Neuroses:—  (a) Epileptic Psychoses	7		9	6	3 2	9 2			2
States of Deficient Mental Development:—  (a) Imbecility	10	6	16			6	1		1
Not Diagnosed									
Not Insane									
Total	175	207	382	*90	111	201	67	55	122

^{*} includes 1 Deported.

#### TABLE No. 11-TORONTO.

Periods.	Alleged duration of insanity prior to admission.	Length of residence of those remaining in Hospital on Oct. 31st, 1918.	Periods of treatment of those who were discharged recovered during the year.	Periods of treat- ment of those who were dis- eharged improv- ed during the year.	Periods of treatment of those who were discensified unimproved during the year.	Periods of treat- ment of those who died during the year.
Under 1 month	16 30 25 16 50 26 53 29 25 19 45 11 13 15	28 24 23 22 26 12 42 24 70 74 80 85 82 266 117 97	7 5 5 5 6 36 8 7 2 2 1	10 4 2 7 5 4 20 9 11 10 7 2 2 3 3	6	24 9 5 6 8 13 4 7 2 3 8 10 2 9
Totals	382	1,203	91	99	11	122

# ANNUAL STATISTICAL REPORT OF THE OPERATIONS OF THE HOMEWOOD SANITARIUM, GUELPH, FOR THE YEAR ENDING OCTOBER 31st, 1918.

#### INSANE BRANCH.

TABLE No. 1.
Showing movements of patients in the Hospital for the official year ending October 31st, 1918.

	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital for both Branches	75	75	150			
In Residence October 31st, 1917				27	47	74
Admitted during year 1918: By WarrantBy Medical Certificate	45	51	96	45	51	96
Fotal number under treatment during year				72	98	170
Discharges during year:  As recovered	7 26 4	11 9 9	18 35 13			
Fotal number discharged during year Died Deported	37 4	29 11	66 15			
Eloped Transferred	11	4	1 15	53	44	97
Remaining in Hospital October 31st, 1918				19	54	73
Total number admitted since opening of Hospital				664	669	1,333
Total number discharged since opening of Hospital  Total number died since opening of Hospital	468 90	480	948 150			
Total number deported since opening of Hospital	10	2	12			
of Hospital	77	73_	150	645	615	1,260
Total remaining in Hospital October 31st.				19	54	73
Daily average population						

# ANNUAL STATISTICAL REPORT OF THE OPERATIONS OF THE HOMEWOOD SANITARIUM, GUELPH, FOR THE YEAR

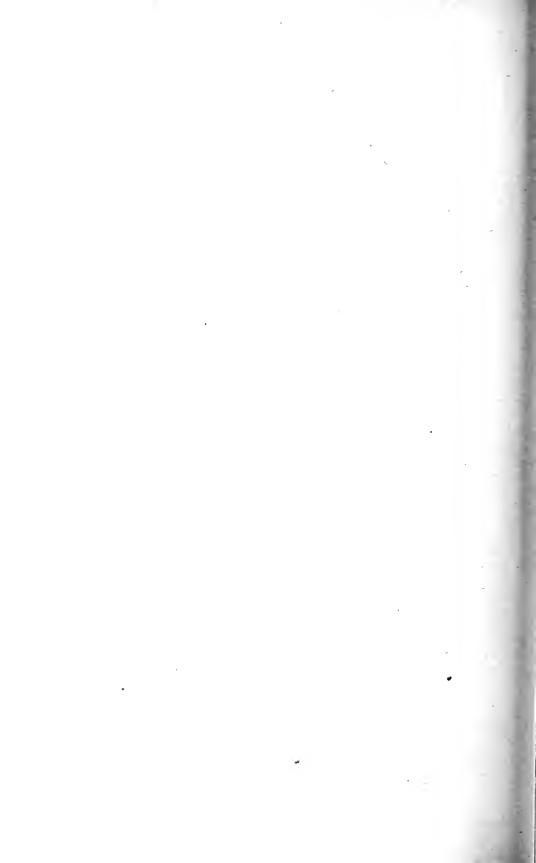
ENDING OCTOBER 31st, 1918.

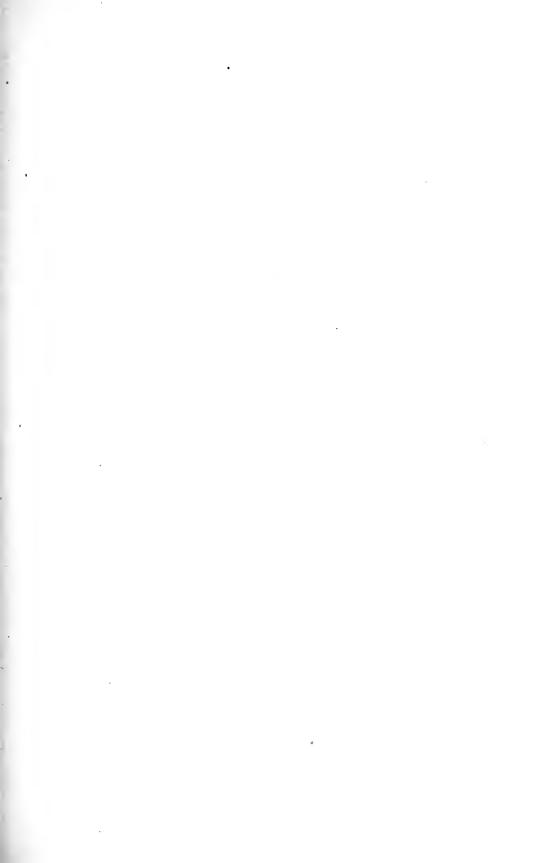
#### VOLUNTARY BRANCH.

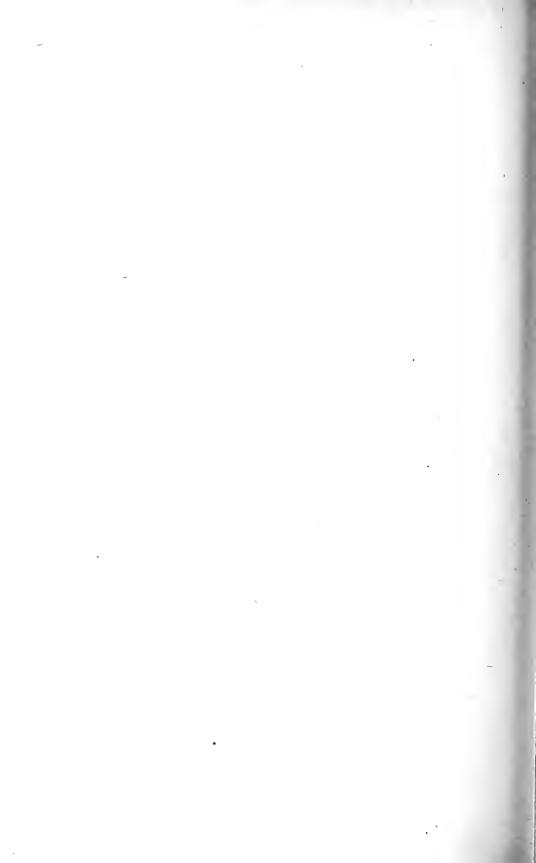
TABLE No. 1.

Showing movements of patients in the Hospital for the official year ending October 31st, 1918.

_	Male.	Female.	Total.	Male.	Female	Total.
Capacity of Hospital for both Branches	75	75	150			
In Residence October 31st, 1917				27	38	65
Admitted during year 1918:  By Warrant  By Medical Certificate	1 86	81	1 167	87	81	168
Total number under treatment during year				114	119	233
Discharges during year:  As recovered	29 34 9	17 29 21	46 63 30			
Total number discharged during year Died Deported	72 2	67	139			
Eloped	3 3	8	3 11	80	82	162
Remaining in Hospital October 31st, 1918.				34	37	71
Total number admitted since opening of				1 705	784	2,579
Hospital	1,644	686	2,330	1,795	104	2,019
Total number died since opening of Hospital	51	28	<b>7</b> 9			
Hospital Total number eloped since opening of Hospital	39	3	42		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
Total number transferred since opening of Hospital	27	30	57	1,761	747	2,508
Total remaining in Hospital October 31st, 1918				34	37	71
Daily average population						











## PART II

OF THE

# FIFTY-FIRST ANNUAL REPORT

OF THE

Inspectors of Prisons and Public Charities of the Province of Ontario

CONTAINING REPORT ON THE

# Hospital for Feeble-Minded, Orillia

AND THE

# Hospital for Epileptics, Woodstock

BEING FOR THE YEAR ENDING 31st OCTOBER

1918

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO



#### TORONTO:

Printed and Published by A. T. Wilgress, Printer to the King's Most Excellent Majestv

1919

Printed by THE RYERSON PRESS

PARLIAMENT BUILDINGS.

TORONTO, January 15th, 1919.

To His Honour SIR JOHN STRATHEARN HENDRIE, C.V.O.,

Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

I beg to submit herewith the Fifty-first Annual Report upon the Hospitals for the Feeble-Minded and Epileptic of Ontario, being for the official year ending 31st October, 1918.

I have the honour to be,

Your Honour's most obedient servant,

WM. DAVID McPHERSON,

Provincial Secretary.

#### OFFICE OF THE

INSPECTOR OF PRISONS AND PUBLIC CHARITIES, ONTARIO,

PARLIAMENT BUILDINGS, TORONTO, January 15th, 1919.

SIR.—I have the honour to transmit herewith, to be presented to His Honour the Lieutenant-Governor, the Fifty-first Annual Report upon the Hospitals for the Feeble-Minded and Epileptics of Ontario, being for the official year ending 31st October, 1918.

I have the honour to be, Sir,

Your obedient servant,

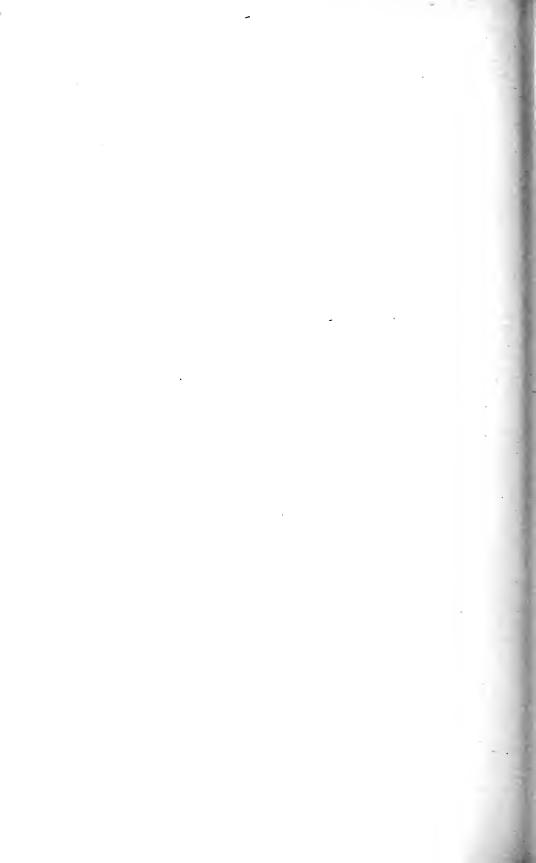
W. W. DUNLOP,

Inspector.

THE HONOURABLE WILLIAM DAVID McPHERSON, K.C., M.P.P.,
Provincial Secretary of the Province of Ontario,
Toronto.

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### HOSPITALS FOR FEEBLE-MINDED AND EPILEPTICS

On the 31st October, 1918, there were in the Hospitals for Feeble-Minded and Epileptics 1,192 patients divided as follows:

	Orillia.			Woodstock.	
Male.	Female.	Total.	Male.	Female.	Total
453	537	987	96	109	205

#### REVENUE.

	1917	1918
From paying patients	\$ c. 32,360 97	\$ c. 37,574 14
" Farm and Miscellaneous	6,660 76	9,028 52
	39,021 23	46,602 66

Showing an increase over 1917 of \$7,581.43

#### IMPROVEMENTS.

During the year improvements were made:

Orillia: The Kitchen Block, Bakery, Butcher Shop, etc., have been greatly improved.

Woodstock: A new silo was completed, the north farm tiled, poultry building built, fire escapes erected on each of the farm cottages.

W. W. DUNLOP.

Inspector.

TABLE No. 1. • Showing movements of patients in the Hospital for the year ending October 31st, 1918.

	1	Orillia Hospital	•		oodstoo Hospita			Total.	
·	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital	<b>55</b> 0	550	1,100	104	104	208	654	654	1,308
In Residence, Oct.31st.1917	443	549	992	101	110	211	544	659	1,203
Admitted during year 1918: By Warrant By Medical Certificate By transfers	4 94	42	4 136	23	14	37	117	56	173
Total number under treatment during year	541	591	1,132	124	124	248	665	715	1,380
Discharges during year: As recovered	9 4			 5 5		777	14 9	5 5	19 14
Total number discharged during year	13	6	19	10	4	14	23	10	33
Died Deported	72	47	119	18	11		90	58	148
Eloped Transferred	5 1	·····i					5 1	1	5 2
Total number admitted since opening of Hospital Total number discharged	1,523						,		3,516
since opening of Hospital Total number died since	160	103	263	124	81	205	284	184	468
opening of Hospital Total number deported	845	745	1.590	95	64	159	940	809	1,749
since opening of Hospital Total number eloped since	2	1	3	· • • • • • •			2	1	3
opening of Hospital Total number transferred	17		17				17		17
since opening of Hospital Total remaining in Hos-	49	31	80	4	3	7	53	34	87
pital, October 31st, 1918	450	537	987	96	109	205	546	646	1,192
Number of applications on file			752						752
Daily average population Collective days' stay of all patients in residence dur-	453	546	999	100	108	208	553	654	1,207
ing year	165,552	199,584	365,136	36,477	39,386	75,863	202,029	238,934	440,999

TABLE No. 2.

Showing social state and religion of patients admitted during the year and since opening of Hospitals.

	Admissions of Year.	In Residence.	Admissions since opening.
SOCIAL STATE.			
Single	172	1,096	3,316
Married	5	82	183
Widowed		. 14	15
Divorced			
Separated			
Unascertained			2
Totals	177	1,192	3,516
Religion.			
Baptists	9	57	160
Congregationalists		. 2	8
Church of England	52	260	742
Methodists	36	254	892
Presbyterians	36	241	656
Roman Catholics	16	165	531
Other Denominations	16	102	229
Unascertained	12	111	298
Totals	177	1,192	3,516

TABLE No. 3.

Showing Nativity of Patients admitted during the year and since opening of Hospitals.

	Admis	ssions of	Year.	Admissio	ns since	Opening.
Nativity.	Orillia Hospital.	Woodstock Hospital.	Total.	Orillia Hospital.	Woodstock Hospital.	Total.
Total Admissions	140	37	177	2,940	576	3,516
Total born in Canada	118	21	139	2,414	457	2,871
Armenia						5
Central America. China Denmark England France Finland	 11	14	25	188		264 5
Galicia				21	3	24
Holland				102		115
Japan				6		6
Roumania	3		4 2	11 65	1 12	15 77
Spain Sweden Turkey				5		 5
United States	4		4 3	48	10	58 70
Unascertained	3	•••••				
Totals	140	37	177	2,940	576	3,516

TABLE No. 4.

Showing the occupation of those admitted during the year and since the opening of the Hospital.

	Admit	ted this	Year.	Sinc	ce Openi	ng.
Occupation.	Orillia Hospital.	Woodstock Hospital.	Total.	Orillia Hospital.	Woodstock Hospital.	Total.
Professional:— Clergy, Military and Naval Officers, Physicians, Lawyers, Architects, Artists, Authors, Civil Engineers, Surveyors, etc				1	5	6
Commercial:— Bankers, Merchants, Accountants, Clerks, Salesmen, Stenographers. Typewriters, etc	ļ l	5	อ้	3	32	35
Agricultural and Pastoral: Farmers, Gardeners, Stock Men, etc.		1	1	6	51	57
Mechanics at Outdoor Vocations:— Railway and Stationery Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers, Painters, Police, etc		2	2	2	19	21
Mechanics, etc., at Sedentary Vocations:— Shoemakers, Bookbinders, Compositors, Weavers, Tailors, Seamstresses, Bakers, Factory Workers, etc				17	36	53
Domestic Service:— Waiters, Cooks, Servants, etc	2	2	4	56	41	97
Education and Higher Domestic Duties:— Governesses, Teachers, Students, Housekeepers, Nurses, etc		8	8	63	85	148
Miners, Marine Engineers, Railway Employees, Seamen, etc				1	1	2
Laborers		3	3	22	81	103
No Occupation	138	14	152	2,769	215	2,984
Unascertained		2	2		10	10
Totals	140	37	177	2,940	576	3,516

TABLE No. 5.

Showing the Counties and Districts from which patients have been admitted during the year, and since opening of Hospitals.

						1		arran	it cases.				
	Admitte		Adm	itted s	since	-				-			ng in
Counties	during ye	ar.	0]	pening	ç. ———		dmitt ing y		Admitted openin		re	esider	ice.
and Districts.	Orillia Hospital. Woodstock Hospital.	Total.	Orillia Hospital.	Woodstock Hospital.	Total.	Orillia Hospital.	Woodstock Hospital.	Total.	Orillia Hospital Woodstock Hospital.	Total.	Orillia Hospital.	Woodstock Hospital.	Total.
Algoma District Brant Bruce Carleton Dufferin Dundas Durham Elgin Essex Frontenac Glengarry Grenville Grey Haldimand Haliburton Hastings Huron Kent Lambton Lanark Leeds Lennox and Ad-	7 3 1 2 1 1 3 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 8 27 72 2 33 1 1 1 1 2 2 3 2 2 1	70 101 18 188 46 34 57 98 17 25 100 29 4 27 73 64 58 55 19	3 13 7 4 2 10 1 6 9 11 8 22 3 3	79 115 29 19 47 64 102 17 27 110 30 82 75 64 77 234			1	1 9 11 2 4 5 29	77 19 9 111 2 4 4  5 5 5 5 29 11 188 6 6 14 12 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	6 3	1 9 9 1 1 1 1 5 5 5 6 6 1 1 2 2 2 2 1	8 21 16 41 8 5 5 15 14 26 6 8 3 4 4 5 30 15 19 21 7 10
dington Lincoln Middlesex Muskoka District Nipissing District Norfolk Northumberland Ontario Oxford Parry Sound Dist Peel Perth Peterborough Prescott Prince Edward Rainy River Dist Renfrew Russell Simcoe Stormont Sudbury Temiskaming Thunder Bay Dist Victoria Waterloo Welland Wellington Wentworth York Unascertained	2 2 1 3 2 1 3 1 1 1 2 2	3 3 4 1 1  1 	40 25 104 42 31 26 46 80 66 11 37 45 5 46 23 5 46 11 189 21 1 3 4 44 52 20 53 147 639 40	10 40 1 5 7 7 5 10 29 1 2 15 6 6  3 18 7 7  4 11 17 4 11 17 4 11 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	35 144 43 366 33 51 12 12 139 600 599 16 26 6 48 14 207 28 15 699 24 798 184 798			1	3	88 88 88 82 69 99 23 11 11 57 4 11 57	111 111 114 20 66 177 222 177 100 166 122 18 55 33 11 111 166 55 12 12 62 310 66	12 11 11 14 48 8 11 2 2 1 3 3 2 4 2 2 1 5 16 60 60 2 2	16 45 21 7 18 26 25 11 18 16 21 9 7 4 4 16 8 60 5 11 12 3 15 18 16 8 8 60 8 16 17 18 18 18 18 18 18 18 18 18 18
Totals	140 37	177	2,940	576	3,516	1		-1	368 26	394	987	205	1,192

TABLE No. 6.

Periods of treatment of those who died during the year.	Hospital.  Woodstock Hospital.	22-25-25-25-25-25-25-25-25-25-25-25-25-2	65 6
	Woodstock Hospital.		119
Periods of treatment of those who were discharged unimproved during the year.	Arillia.	21	1-
Periods of treatment of those who were dis- charged improved during the year.	Woodstock Hospital,		7
Peri treatmer who w charged during	Orillia Lespital.	- 21 -22-2121	ล
ls of of those re dis- ecovered te year.	Woodstock Hospital.		
Periods of treatment of those who were dis- charged recovered during the year.	Orillia IstiqaoH		
Length of tresidence of those remaining in Hospitals on Oct. 31st, 1918.	Woodstock Hospital.		2021
Leng residence remain Hospi Oct. 31k	Orillia Hospital.	5.75.75.34.88.88.88.88.88.88.88.88.88.88.88.88.88	987
Alleged duration of attack prior to admission.	Woodstock Hospital.	- 3131 - 31 + 15 × 13 13	37
Periods.		Under 1 month  From 1 to 2 months  2	Totals

TABLE No. 7.

Showing the general movement and result of treatment of patients in the Hospital for Feeble-Minded, Orillia, during each of the thirty-nine years from the 1st January, 1879, to the 31st October, 1918.

	Averag ber of re	Si.p	daily num- atients in dence.	Numba	umber of patie admitted each year.	tients ch	Number dische proved proved	of parged and u	tients N im- inim- year.	Number of who died yea		ents Pe	ercenta upon resi	patients Percentage of deaths in each upon number r.		Number remain pital of ea	Number of patients remaining in Hos- pital at the end of each year.	ients Hos- end r.
	Male.	Female.	Total.	Male.	Female	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Маје.	Lemale	Total.	Male.	Female.	Total.
Average five years—1879 to 1883	87	84	171	18	16	34	63	1	က	9	7	13 6	6.25 7	69.7	6.95	96	91	187
Average five years— 1884 to 1888	122	109	231	18	18	36	61	<b>c</b> 1	4	10	7	17 8	8.13 6	6.19	7.20	123	113	236
Average five years— 1889 to 1893	221	183	404	42	36	78	63	61	4	12	16	28 5	5.55 8	8.33	6.87	216	192	408
Average nve years— 1894 to 1898	322	264	586	44	38	888	40	4, 4	∞ <b>c</b>	24	87 8 87 8	47 7	7.28 8	8.52	7.84	330	270	600
1900	351	300	651	£ 5	2 93 4 93	7.5	o 41	. ro	 	24	2 7				9.04	357	297	654
1901	354	300	654	88	22.5	55	<b>∞</b>		တင့	333	16	48	9.12		7.36	350	302	652
1902	349	307	929	62.5	200	209	D 4	٦ ٣	T0	22.6	10	-	-	_	0.70 4 49	348 348	349	669
Average five years	351	305	929	35	328	67	9	ာက	- 6	30	18	_			7.25	352	311	663
1904	350	350	700	39	4. c	85	ကဖ	01 c	α	233	18 96	41 6 7	6.37	4.94	5.65 7.41	361	364	725
1906	375	377	752	43	9	83	מים	14		40	88				8.15	376	385	761
1907	380	390	770	35	31	99	7	က ေ	10	27	19	2.5	5.48		5.16	383	392	775
A verage five vears	369	375	744	9 9	9 K 20 T 20 T	25	ט יט	4 m	- ∞	272	23				6.64	376	378	754
*1909	390	386	776	53	28	52	11	က၊	14	15	81				4.26	392	394	786
1910	384	383	787	200	× ×	4, 8, 80 8,	ه م	-0	21 4	32	13		9.00	33.	3.128	397 417	200	087 808
1912	412	400	812	10	62	84	) r=	າ ຄາ	1 00	17	17			-	1.18	415	405	817
1913	411	404	815	37	35	75	2	-	က	34	27				7.48	414	409	823
Average five years	402	393	795	 66	92.5	53	41	က	<u></u>	ನಿನ	8 5			-	7.5	407	397	804
1914	410	405	815 825	4.2	24 L	9.0	o.	no =	× <	120	77		72.7		8.14 2.75	410	410	831
1016	410	308	824	# 07	23.5	200	:-	+ <del>-</del>	# LC	37	30				88	432	396	828
1917	432	502	939	47	184	231	1	מי	12.	242	22				4.95	443	549	366
1918	453	546	666	86	42	140	13	9	19	75	47		6.61	8.61 11	11.09	450	537	286
Average five years	427	453	881	48	63	116	20	4	6	36	33		-	- [	7.36	432	460	892
* Mon months anding Actobar 2	tohor 2	21ct 100	0															

* Ten months ending October 31st, 1909.

TABLE No. 8.

Showing the general movement and result of treatment of patients in the Hospital for Epileptics, Woodstock, during each of the years from the 1st April, 1906, to the 31st October, 1918.

1	*! 720 T	13	ಣ	က	_	90	20	9	_	6	10	9	_	+0
Number of patients remaining in Hospital at the end of each year.	·[BloT	45	55	103	151	3 168	3 198	3 196	3 211	3 209	3 205	200	211	205
Number of patients remaining in Hospital at the end of each year.	Female.	19	35	77	51	- 78	96	33	106	108	103	105	110	109
R E HH B	Male.	56	38	59	20	90	102	103	105	101	102	101	101	98
of on lents.	Total.	6.67	5.48	1.94	2.68	3.22	4.30	11.11	5.34	7.58	8.74	5.91	12.5	13.94
Percentage of deaths upon number residents.	Female.	10.53	5.71	0.	2.27	2.94	2.25	11.46	6.60	6.60	7.71	3.96	6.54	10.2
Perc dea numbe	Male.	3.85	5.26	3.39	3.39	3.45	6.18	10.78	3.84	8.57	9.90	7.84	18.80	18.00
re- on	Total.	:	1.92	4.65	:	1.32	:	:	:	:	:			:
Percentage of re- coveries upon admission.	Female.		0.	15.38		0.	:	:	:	:	:			:
Pereen eove adı	પ્રાથીલ.		3.33	0.	:	2.63	:		:	:	:		:	:
of tho eh	Total.	613	4	61	ಣ	70	×	33	11	16	8	12	56	Ŝi
mber (ients will in ea year.	Female.	- 2	61	:	-	<b>53</b>	N	11	1-	7	×	-	1-	=
Number of patients who died in each year.	Male.	-	c)	61	¢1	က	9	11	<b>寸</b>	6	10	×	19	18
	Total.	10	16	6	21	21	19	83	11	13	51	2	5	<b></b>
Number of patients dis- charged im- proved and unimproved each year.	Female.	22	က	63	1-	7	9	∞	ಣ	ဘ	13	7	4	7
Nur patie char prov nnin eac	Male.	5	13	7	14	14	13	155	×	ıc	t-	73	×	10
of re- in tr.	Total.		7	63	:	-	:	:	:	:	:	:	:	:
Number of patients re- covered in each year.	Female.	:	:	61	:	:	:	:	:	:	:	:	:	:
Nur patic cove	Male.	:	-	:	:	-	:	:	:	:	:	:		:
of sach	Total.	58	55	43	45	92	57	<b>=</b>	37	27	36	25	÷	37
Number of patients admitted each year.	Female.	56	22	13	15	38	97	16	8	17	28	13	16	<b>=</b>
Nur pa admir	Male.	33	30	30	27	38	31	27	7	10	28	2	27	83
ily e.	Total.	35	28	85	112	155	186	194	306	210	506	203	208	208
Average daily number of patients in residence.	Female,	14	e,	40	48	89	89	95	106	105	105	101	107	108
Aver nur pa in re	Male.	18	32	45	64	87	97	66	105	105	101	102	101	100
		1906 (Nine months)	1907	1908	*1909	1910	1911	1912	1913	1914	1915	1916	1917	1918

*Ten months ending October 31st, 1909.

TABLE No. 9.
DEATHS IN HOSPITALS.

Hospital.	No. of deaths.	Daily average population.	references of deaths to daily average population.
Orillia	119 29	999 208	11.09 12.26
Totals	148	1,207	12.26

TABLE No. 10.

The following table shows the number of beds in each of the Hospitals, number in residence, and applications on file at close of official year.

	N	Number of beds.	sds.	Number 31st	Number in residence on 31st October, 1918.	onee on 918.	Numb	Number of vacancies.		Оуе	Over population	ion.	Appli	Applications on file.	n file.
Asylums.	Male.	Male. Female.	Total.	Male.	Female.	Total.	Male.	Total. Male. Female. Total. Male. Female. Total. Male. Female. Total. Male. Female. Total.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Orillia Woodstock	550 104	550 104	$\frac{1,100}{208}$	450 96	537 109	987 205	100 8	E :	= ∞		22	53	752		752
Totals	654	654	1,308	246	9+9	646 1,192	108	13	121		5	ro			

TABLE No. 11.

Showing the number of officers and employees in each and all of the Hospitals, classified according to the duties performed.

Occupation.	Orillia Hospital.	Woodstock Hospital.	Total.
Superintendents	1	1	2
Associate Physicians Bursars	2	1	9
Stenographers	1	1	2
Storekeepers	1		ī
latronsssistant Matrons	1	1	2
Cooks)	1		1
Aundresses	22	5	27
eamstresses)			
akersailors and Shoemakers	1		1
aundryman	1	**********	2
ingineer and Assistants	$\hat{2}$	1	3
tokers. ricklayers and Masons	1	1	5
arpenters	1		1
ainters	î		î
armers armers' Assistants	1	1 5	2
ardeners		1	11
niel Attendants (males)			-
upervisors (males) ( ttendants (males) (	41	15	56
ittendants (females) )			
eachers	4		1
Totals	95	34	129

TABLE No. 12.

Statement of revenue from paying patients and from farm and miscellaneous sources for the year ending October 31st, 1918.

Hospital.	No. of paying patients.	From paying patients.	From farm and Miscellaneous.	Totals.
Orillia		\$ c. 17,817 83 19,756 31	\$ c. 4,641 33 4,387 19	\$ c. 22,459 16 24,143 50
Totals		37,574 14	9,028 52	46,602 66

TABLE No. 13.

Showing the expenditure on maintenance under the different headings of the estimates for the year ending October 31st, 1918.

Heading of Estimates.	Orillia Hospital.	Woodstock Hospital.
Medicines Groceries Heat and Light Clothing Laundry Office Farm Contingencies	\$ c. 1,588 61 48,959 03 19,594 67 14,355 47 4,152 44 962 74 5,680 36 1,422 71	\$ c. 589 31 14,866 36 8,725 87 397 53 1,472 85 269 79 5,455 53 317 88
Total expenses	96,716 03	32,085 12
Salaries Grand Totals	42,990 63 139,706 66	19,256 23 51.341 35

### NOTES ON PER CAPITA STATEMENT.

Attached hereto is a statement of the cost of maintenance per patient per day for the twelve months ending October 31st, 1918, in the ten hospitals mentioned, as compared with the year 1917, being based on actual consumption.

It follows out the order of the sub-divisions of appropriations voted by the Legislature, and is calculated to two places of decimals of a cent. The figures in black-faced type represent totals.

Invoices for all purchases, properly certified by the Bursar and the Store-keeper, as to accuracy and receipt of goods, are checked in the Department before being submitted to the Treasury for payment.

A system of Daily Requisitions for all supplies, such as provisions, is carried out and these requisitions are forwarded to the Department semi-weekly. In case of coal, the amount consumed on each shift is weighted and weekly report of consumption made by the engineer.

Under headings "Provisions" and "Clothing" is shown only consumption by patients—the value of such supplies to officers, attendants, nurses, and employees being included in the account "Employees' Meals and Uniforms" under the heading "Salaries."

Quarterly inventories of stock are taken at each Institution, and are checked with the ledger accounts of the Department.

Returns are made of all products of the Farm and Garden, as received, charges being made against the cost of maintenance, and the Farm and Garden given credit for the same: for this purpose a uniform price list is in use for all Institutions, regardless of size or fertility of farm. At the end of the year the value per patient per day of such products—fruits, vegetables, feed and fodder, meat and eggs—is deducted from the gross per capita cost and appears in the statement as "Farm Recoveries."

TABLE Comparative Statement of Average Maintenance Cost per Capita

	Brock	ville.	Hami	lton.	King	ston.
	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.
Days' residence of patients			478.932 1.312.14		202,925 535.96	
MEDICINES. Medicines and Medical comforts	Cents53	Cents. .48 .48	Cents. .35	Cents. .32 .32	.46	.55
PROVISIONS Breakfast Foods and Cereals Butter Coffee and Tea Eggs Flour, Bread, etc Fruit and Vegetables—Fresh "Canned and Dried Milk Potatoes Salt, Spices, Pickles, etc Sugar and Syrup Unenumerated Groceries Butchers' Meat Fish and Fowl	17.90 .57 2.36 .58 .65 3.84 .78 .30 .10 1.20 4.00	.36 2.30 .40 .57 3.11 .51 .82 1.20 .66 .11	18.73 .66 3.36 .55 .99 3.36 .45 .95 1.44 .63 .08 1.15 1.29 3.23	.40 2.92 .50 .96 3.34	20.49 .53 2.90 .36 .61 3.72 .98 .93 1.18 .85 .17 1.42 1.38 4.10 1.36	.41 2.66 .33 .45 3.07 .70 .98 1.31 1.02 .13 1.20 3.45
FUEL, LIGHT AND WATER. Coal and Wood. Electricity Gas Oil, Candles, Matches, etc Water	12.73 11.08 .09 .36 .10	8.36	7.82 6.16 .49 .23 .06	4.58 .54 .24 .01	17.58 17.47 	11.11
CLOTHING	3.12 2.40 .72	3.41 2.63 .78	2.57 2.25 .32	1.88 1.53 .35	3.57 2.99 .58	
LAUNDRY AND CLEANING Brushes, Brooms and Mops Miscellaneous Expenses Soap	1.27 .13 .28 .86	.99 .15 .29 .55	.74 .12 .17 .45	. <b>59</b> .11 .15 .33	1.26 .24 .38 .64	.21 .20
GENERAL REPAIRSFurniture and FurnishingsPlant	5.20 5.02 .18	2.05 1.32 .73	2.17 1.93 .24	1.81 1.26 .55	4.30 3.89 .41	2.95
OFFICE EXPENSES Miscellaneous Items. Postage Telephone and Telegraph.	.51 .16 .23 .12	.19	.29 .09 .11 .09	.32 .14 .10 .08	.37 .11 .15	.37 .15 .12 .10
SALARIES. Supt. and Physicians Bursar and Assistants. Matron and Assistants. Engineer and Assistants Artisans, not Domestic Farm and Garden.	1.09 2.40	1.78 1.55 2.88 2.17 1.04	1.49 2.56 1.39 .69	13.94 1.30 1.44 2.57 1.23 .76 1.50	$ \begin{array}{c} 1.58 \\ 2.19 \\ 2.51 \end{array} $	2.09 1.96 2.30
Teachers Attendants and Nurses Temporary Assistance	8.78				10.30	

No. 14.

per Day for the Twelve Months ending 31st October, 1918.

Lon	don.	Mim	ico.	Oril	llia.	Pene	tang.	Toro	onto.	Woods	stock.
This Year.	Last Year.	This A A	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.
433,622	425,667	240,439	237,583	365,499	313,158	132,962	133,117	374,507	360,249	75,536	76,411
1,188.00	1,116.21	658.74	650.91	1,001.35	940.16	364.28	365,39	1,026.05	986.99	206.95	209.35
Cents23 .23	.21	Cents62 ,62	Cents. .54 .54	Cents. .43 .43	.55	Cents. .21 .21	Cents. .15 .15	Cents. .40 .40	Cents. .37 .37	Cents. .78	Cents · .87 .87
16.19     .46     2.72     .73     .23     3.26     .74     .89     1.35     .46     .07     1.22     1.09     2.82	15.36 .41 2.59 .64 .29 2.86 .25 .50 1.61 .40 .06 1.23 .88 3.24	18.50 .73 3.02 .46 .48 3.69 .83 .41 1.39 .23 .09 1.14 .76 4.55	15.56 .55 2.72 .36 .35 2.98 .62 .67 1.31 .24 .08 1.00 .80 3.51	12.14 .61 1.34 .45 .35 3.55 .41 .35 .75 .31 .07 .93 1.01	3.40 .48 .53 .97 .13 .07 .92 .73	3.47 .38 .51	12.15 .28 2.21 .47 .01 2.93 .54 .45 1.42 .53 .03 .40 .77 1.67		17.96 .33 2.80 .48 .62 2.76 .47 1.00 1.78 1.24 .08 .99 .93 3.77	18.11 .42 3.19 .49 .08 3.75 .32 1.57 2.83 .72 .04 1.39 .68 1.75	16.03 .31 3.21 .41 .07 2.66 .87 1.03 2.72 1.08 .01 1.15 .40 1.28
.65 9.58 8.95 .45 .12 .06	.40 7.81 7.12 .55 .12 .02	.72 11.41 10.83 .48	.37 7.20 6.71 .40	.55 10.39 9.73 .52 	6.94 6.24 .54	.96 12.37 10.27 .21	7.66 5.37 .11 	1.42 10.86 8.75 .33 .49 .06 1.23	.71 5.39 3.66 .20 .62 .05	.88 10.24 7.28 .63  .01 2.32	.83 9.35 5.72 .74  2.86
3.22 2.43 .79	2.93 2.41 .52	2. <b>79</b> 2.43 .36	2.14 1.75 .39	4.45 3.42 1.03	3.34 2.47 .87	3.71 2.70 1.01	3.02 2.14 .88	1.95 1.62 .33	1.09 .75 .34	.62 .41 .21	.64 .46 .18
1.36 .16 .28 .92	.98 .18 .20 .60	1.33 .21 .27 .85	1.05 .18 .28 .59	1.14 .18 .14 .82	.86 .13 .11 .62	.62 .12 .15 .35	.55 .10 .20 .25	1. <b>75</b> .14 .65 .96	1.10 .13 .24 .73	1.87 .13 .92 .82	1.3 <b>7</b> .13 .61 .63
$2.75 \\ 2.50 \\ .25$	2.82 2.17 .65	2.89 2.67 .22	2.15 1.59 .56	2.85 2.41 .44	2.76 1.98 .78	2.38 2.30 .08	1.81 1.12 .69	4.90 4.62 .28	4.37 3.81 .56	1.98 1.85 .13	2.43 1.61 .82
.32 .13 .11 .08	.33 .16 .10 .07	.35 .11 .12 .12	.40 .13 .14 .13	.28 .09 .14 .05	.25 .07 .13 .05	.17 .04 .06 .07	.18 .06 .05 .07	.21 .06 .06	.30 .14 .05 .11	.36 .08 .12 .16	.34 .09 .14 .11
17.99 1.36 1.42 2.68 1.99 .99	16.80 1.32 1.31 2.75 2.04 .85 1.59	18.80 2.23 1.23 2.39 1.75 .87 1.89	18.65 2.64 1.15 2.50 1.96 .82 1.92	11.77 1.58 .97 2.34 .94 .57 1.09	.52 .90 .35	20.94 2.78 2.14 3.13 1.90 2.11 2.43	19.27 2.79 2.02 2.71 1.90 1.97 2.35	16.43 1.87 1.65 2.53 1.40 .52 .60	1.96 1.60 2.28 1.07 .63	25.49 5.29 2.68 3.85 1.19 1.04 5.14	5.23 $2.56$ $3.71$
7.82	$6.83 \\ .11$	8.40	7.66	3.87	3.24	5.90	5.53	7 60	6.54	6.20	$5.62 \\ .08$

TABLE Comparative Statement of Average Maintenance Cost per Capita

	Brock	ville.	Ham	ilton.	King	ston.
	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.
Days' residence of patients			478,932 1,312,14			
ALLOWANCES Employees' Meals Uniforms Other Allowances		Cents. 5.70 5.39 .16 .15	<b>5.49</b> 5.29 .19	Cents. 4.21 3.89 .27 .05	Cents. 6.15 5.84 .26 .05	Cents. 5.79 5.60 .18 .01
FARM AND GARDEN. Feed and Fodder. Miscellaneous Farm Expenses Seeds, etc.	5.88 4.48 1.12 .28	5.00 3.60 1.00 .40	3.63 .64	4.23 3.19 .63 .41	2.68 .49	3.44 2.67 .49 .28
CONTINGENCIES Amusements, Religion, Education Elopers, Cost of Recovery. Freight, Duties, etc Ice Incidental Expenses. Officers' Travelling Expenses.	.77 .18 .02 .10 .04 .34	.65 .17 .02 .13 .04 .26	.14 .36	.82 .08 .01 .11 .18 .39	.16 .01 .14	.76 .11 .02 .15 .01 .45
Per Capita cost per day, less Salaries	27.90	25.52		18.15	28.30	26.59
Less total recovery per Capita per day	20.21	16.66	19.31	18.10	16.81	15.36
Net per Capita burden payable by Province	55.60	47.60	38.81	34.51	64.03	53.23

N.B.—The accompanying is a Comparative Statement of the cost of maintenance per patient per day for the twelve months ending 31st October, 1918, in the nine Hospitals for the Insane, as compared with the twelve months ending 31st October, 1917, based on actual consumption and calculated to two places of decimals of a cent. The figures in black-faced type represent totals.

Under the headings "Provisions" and "Clothing" is shown the actual consumption by

patients—the value of such supplies to officers, attendants, nurses and employees being included under the heading "Allowances."

Where no charge is shown for light or water, these are included in the cost of coal.

No. 14—Concluded.

per Day for the Twelve Months ending 31st October, 1918.—Concluded.

Lon	don.	Min	nico.	Oril	lia.	Penc	tang.	$\mathbf{T}$	4	Woods	stock.
This Year	Last Year.	This Year.	Last Year,	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.
433,622	425,667	240,439	237,583	365,492	343,158	132,962	133,417	371,507	360,249	75,536	76,411
1,188.00	1,116.21	658.74	650.91	1,001.35	940.16	264.28	365.39	1,026.05	986.99	206.95	209.35
Cents. 4.85 4.45 .35 .05	Cents. 4.55 4.25 .27 .03	Cents. 5.84 5.32 .40	Cents. 4.84 4.40 .28 .16	Cents. 3.49 3.33 .15 .01	Cents. 3.39 3.25 .11 .03	Cents. 5.02 4.50 .30 .22	Cents. 4.75 4.41 .20	Cents. 4.33 3.96 .29 .08	Cents. 4.31 4.03 .26 .02	Cents. 7.86 7.23 .12 .51	Cents. 6.97 6.46 .18
4.99 3.69 .72 .58	4.25 3.22 .58 .45	3.83 2.84 .79 .20	3.35 2.28 .72 .35	2.26 1.83 .35 .08	2.25 1.66 .42 .17	4.57 3.69 .62 .26	4.65 4.07 .45 .13	.41 .17 .22 .02	.25 .13 .11 .01	12.02 8.78 2.07 1.17	10.21 8.17 1.30 .74
.40 .09 .03 .04	.35 .09 .01 .04 	.53 .11 .02 .05 .12 .23	.49 .11 .01 .04 .13 .20	.39 .06 14 13 .06	.32 .07 .12 11 .02	.56 .07 .19 	.52 .04 	.62 .08 	.75 .07 .01 .17 .31 .16	.30 .12 	.05
39.04 22.84 61.88	35.04 21.35 56.39	42.25 24.64 66.89	32.88 23.49 56.37	34.33 15.26 49.59	29.09 14.37 43.46	37.86 25.96 63.82	30.69 24.02 54.71	41.65 20.76 62.41	31.58 18.98 50.56	46.28 33.35 <b>79.63</b>	41.49 31.29 <b>72.7</b> 3
20.58 41.30	18.06 38.33	19.02 47.87	18.39 37.98	8.91 40.68	7.10 36.36	8.17 55.65	9.01 <b>45.70</b>	14.01 48.40	14.83 35.73	42.97 <b>36.66</b>	38.03 34.71

TABLE Comparisons, Appropriations, Expenditures, Consumption, Population

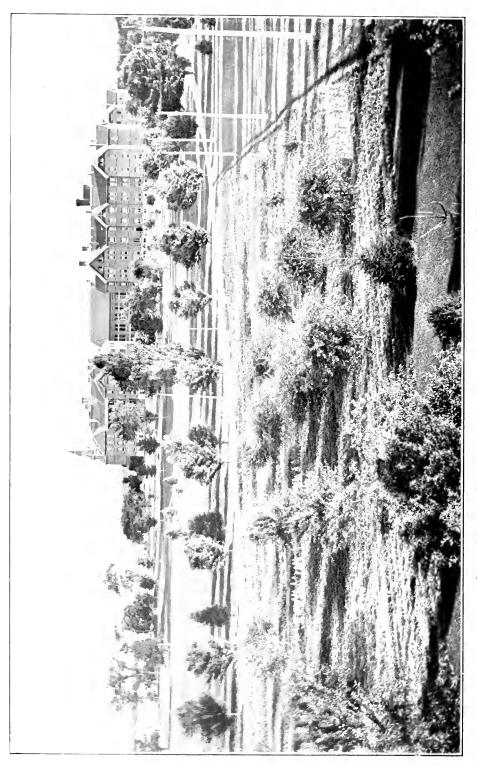
<del></del>	Brockville.	Hamilton.	Kingston.
Days' residence of patients,		478,932	202,925
Average number of patients	776.80	1.312.14	555.96
MedicinesAppropriation	\$1,800 00	\$1,800 00	\$1,800 00
Expenditure		1,642 08	935 55
Consumption	$\frac{1,495}{50}$	1,642 08	935 55
ProvisionsAppropriation		98,000 00	45,000 00
Expenditure	66,831 87	97,061 02	42.213 64
Consumption		89.716 37	41.577 15
Fuel, Light and Water. Appropriation		55,000 00	40.000 00
Expenditure Consumption		52,652 58	38,468 29
Clothing, etcAppropriation	36,105 19	37,457 96	35,665 75
Expenditure	10,000 00	12,000 00	9,000 00
		11,207 05	7,260 90
Consumption	8,841 08	12,290 23	7,236 98
Expenditure	4.200 00	4,000 00	3,000 00
		3.935 25	2.712 56
Consumption	3,609 23	3.563 60	2,562 03
Repairs, etcAppropriation	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • •
Expenditure	11.500.05	10 207 00	0.501.01
Consumption	14,152 51	10,397 98	8.731 24
		$2.000\ 00$	1.500 00
Expenditure		1,394 57	773 88
Consumption	1.458 92	1,396 40	752 88
Salaries Appropriation	68,057 00	83,600 00	58,950 00
Expenditure	60.241 99	70,663 30	44,939 40
Consumption	79.088 83	96,974 29	57,422 34
Farm, etcAppropriation	10,000 00	15,500 00	7.00000
Expenditure	9,880 44	15,439 51	6.283 54
Consumption	16,686 67	21.53372	7.610 84
ContingenciesAppropriation	2,600 00	3,850 00	2.550 00
Expenditure		3,367 77	1.481 04
Consumption	2,175 15	3,367 77	1,550 72
Total MaintenanceAppropriation	211,157 00	275.750 00	168.800 00
Expenditure	193,641 99	257,363 13	145,068 80
Consumption	214,949 13	278.340 40	164,045 48
Capital AccountsAppropriation Expenditure	32,350 00 <b>31,138 37</b>	31,100 00 27,863 30	20.300 00 17,921 14
Grand Totals Appropriation	243,507 00	306,850 00	189,100 00
Expenditure	224,780 36	285,226 43	162,989 94
REVENUE COLLECTIONS.			
From paying patients this year to date	32,547 42 28,172 40	63,061 49 52,343 49	23,018 42 22,224 25
Patients' Revenue per capita this year cents		13.17	11.34
last '' cents	9.91	11.25	10.67
From Farm and Misc. Sales this year	\$9.600 88	5,123 95	1.560 29
last "	6,035 34	15,721 81	1,622 67
Farm and Misc. Revenue per capita this yearcents	$\frac{3.39}{2.12}$	1.07 3.37	.77 .78
M-4-1 D		(0 405 44	04 550 55
Total Revenue this yearlast ''	\$42,148 30 34,207 74	68,185 44 68,065 30	24,578 71 23,846 92
Total Revenue per capita per day this yearcents	14.87	14.24	12.11
" last "cents	12.03	14.62	11.45
Farm Production Consumption this yearcents	5.34 4.63	5.07 3.48	4.70 3.91
Total Recovery per capita this yearcents	20 21 16.66	19.31 18.10	16.81 15.36

No. 15. and Revenue for the Twelve Months ending 31st October, 1918.

London.	Mimico.	Orillia.	Penetang.	Toronto.	Woodstock
423,622	240,439	365,492	132,962	374,507	75,536
1,188.00	658,74	1,001.35	364,28	1,026.05	206,95
\$1,800 00	\$1,500 00	\$2,100 0	\$750,00	\$2,000 00	\$900,05
1,103 78	1,496 79	1,588 61	278,74	1,526 87	589 31
1,006 28	1,496 79	1,588 61	278,74	1,498 87	589 31
73,000 00	50,000 00	49,000 00	22,500,00	90,000 00	15,000,00
72,925 75	47,036 98	48,959 03	21,641,19	89,485 38	14,856 36
70,200 86	44,487 82	44,377 65	17,644,01	76,966 38	13,674 63
52,000 00	28,000 00	21,000 00	15,600,00	35,000 00	9,000,00
45,516 58	27,604 76	19,594 67	13,961,96	33,380 04	8,725 87
41,503 02	27,433 37	37,993 82	16,446 31	•	7,737 22
15,250 00	7,000 00	16,000 00	6,000 00		2,000 00
15,240 73	6,700 03	14,355 47	5,354 66		397 53
13,970 52	6,714 14	16,220 22	4,939 34		470 69
7,000 00	3,000 00	4,250 00	1,500 00		1,500 00
6,084 27	2,892 78	4,152 44	1,018 27		1,472 85
5,891 83	3,191 85	4,149 16	821 02		1,408 24
1	6,940 06 1,200 00 841 98 841 98 841 98 55,575 00 45,213 87 59,253 57 5,000 00 4,986 63 9,211 06 2,200 00 1,277 57 1,277 57 153,475 00 138,051 39 160,848 17 18,000 00 13,527 52	10,421 86 1,200 00 962 74 962 24 55,702 00 42,990 63 55,761 11 6,500 00 5,680 36 8,370 03 1,800 00 1,422 71 1,425 59 157,552 00 139,706 66 181,270 29 21,500 00 17,218 83	3,161 59 600 00 229 79 229 79 32,143 00 27,844 60 34,517 93 5,500 00 5,296 65 6,070 80 1,150 00 740 33 740 33 740 33 85,743 00 76,366 19 84,850 76 11,300 00 10,125 00	18,353 93 1,500 00 790 87 791 41 70,852 00 61,505 74 77,726 08 1,500 00 1,492 09 1,562 40 3,500 00 2,399 07 2,330 35 219,352 00 205,218 29 233,758 34 26,700 00 25,807 39	1,498 43 500 00 269 79 269 79 22,026 00 19,256 23 25,191 65 5,500 00 5,455 53 9,078 11 1,000 00 317 88 229 38 57,426 00 51,341 35 60,147 47 14,300 00 12,310 33
286,360 00	171,475 00	179,052 00	97,043 00	246,052 00	71,726 00
266,128 74	151,578 91	156,925 49	86,491 19	231,025 68	63,651 68
<b>59,117</b> 46 52,353 30	29,085 65	17,817 83	2,874 85	50,513 96	19.756 31
	26,512 70	14,487 59	2,908 29	52,046 03	17,872 88
13.63	12.10	4.82	2.16	13.49	26.15
12.30	11.16	4.22	2.18	14.45	23.39
\$10,688 93	\$529 79	\$4,641 33	\$1,376 48	\$1,727 58	\$4,387 19
8,946 73	3,216 52	2,417 21	2,553 40	902 41	4,243 55
2.47	.22	1.27	1.04	.46	5.81
2.10	1.35	.70	1.91	.25	5.55
\$69,806 39	\$29.615 44	\$22,459 16	\$4,251 33	\$52,241 54	\$24,143 50
61,300 03	29,729 22	16,904 80	5,461 69	52,948 44	22,116 43
16.10	12.32	6. <b>09</b>	3.20	13.95	31.96
14.40	12.51	4.92	4.09	14.70	28.94
4.48	6.70	2.82	4.97	. <b>06</b>	11.01
3.66	5.88	2.18	4.92	.13	9.08
20.58	19.02	8.91	8.17	14.01	42. <b>97</b>
18.06	18.39	7.10	9.01	14.83	38.02

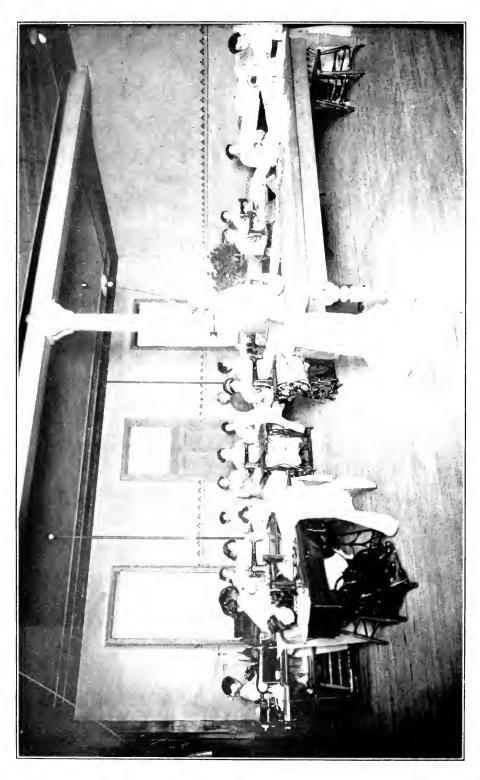


Main Building, Orillia.

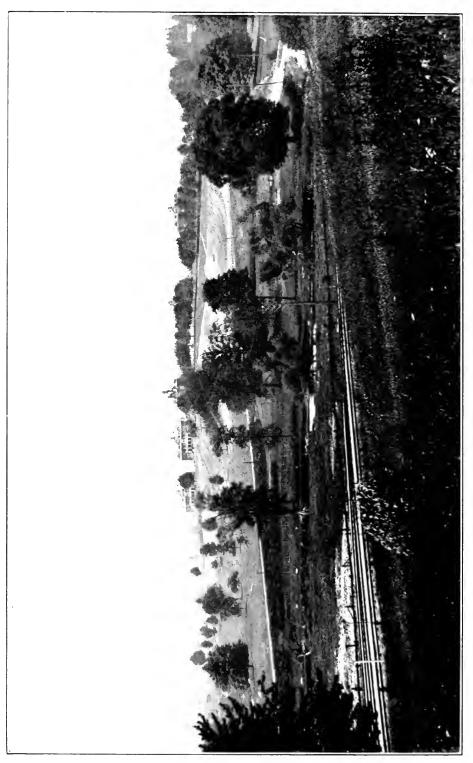


General View of Main Building and Grounds Overlooking Lake, Orillia.

Farm, Orillia Hospital.



May-bay, Orillia Hospital.



Bird's-eye View of Buildings and Grounds. Woodstock.

Cottages, Woodstock.

The Pond, Woodstock.

#### APPENDIX

TO FIFTY-FIRST ANNUAL REPORT UPON THE HOSPITALS FOR THE INSANE, CONTAINING THE ANNUAL REPORTS OF THE MEDICAL SUPERINTENDENTS OF THE HOSPITAL FOR IDIOTS, ORILLIA, AND THE HOSPITAL FOR EPILEPTICS, WOODSTOCK.

W. W. Dunlop, Esq.,

Inspector

Parliament Bldgs., Toronto, Ont.

Sir.—I have the honour to present the annual report of the Hospital for Feeble-Minded, for the year ended Oct. 31st. 1918. The movement of the population is set forth in the following table:

	Male.	Female.	Total.	Male.	Female.	Total.
		· · · · · · ·			,	-
Capacity of Hospital	550	550	1.100			
In Residence Oct. 31st, 1917				443	549	992
Admitted during year 1918— By Warrant By Medical Certificate	4 94	42	136	98	42	140
Discharges during year— " Improved	9	3 3	12 7	541	591	1,132
Total No. discharged during year	13	6	19			
Died Eloped Transferred	72 5 1	1	119 5 2	91	54	145
Remaining in Hospital Oct. 31st, 1918				450	537	987

War conditions have made it difficult for us to keep our Institution up to its normal state of efficiency. The labour question has been an ever present difficulty. With the scale of wages permitted we have been unable during the past year to keep our staff at ordinary strength and, in many instances, we have had to accept the services of people who were unsuited to the work. No doubt the fact that Orillia had four large munition factories, with male and female labour earning war wages, rendered it more difficult for us to get help than some of the institutions differently situated. On this account we have but little progress to report. The most generous estimate of our work would be that we have been marking time. On account of the scarcity of labour we were forced to leave unoccupied one flat of our new cottage for boys, with accommodation for fifty patients. As a consequence the male population reported on the 31st Oct., 1918, 450, is 86 short of the accommodation provided.

On the female side we are still providing for the insane population sent us from Whitby on Feb. 9, 1917. The occupation of our new cottage for girls by the insane group from Whitby closed the doors against the reception of feeble-minded patients for which admission had been pressed. We are grateful to be able to record that the friends of those who should have received attention when our new cottage was ready, most cordially accepted the situation that war conditions imposed. When we explained that the hospital at Whitby was needed for invalided returned soldiers, we did not recieve a single protest against the decision of the Department to make room, at all costs, for the stricken soldiers from the front. Now that the war is about over we are hopeful that this building will be soon

restored to its original purpose. If it is, we shall be able to satisfy demands for the care and treatment of the most urgent cases.

Always the question of employment is a serious one in an institution of this character. We have gathered here the flotsam and jetsam of the human sea. Take Toronto as our chief recruiting centre: From Toronto we have received the incorrigibles from the Industrial School at Mimico, Sunnyside Orphanage. Boys' Home, Protestant Boys' Orphanage, C.A.S. and the Alexandria Industrial School. But more numerous and more difficult to manage are the waifs and strays from the streets and the side lines. Out of this mass of human wastage there is much that offers prospects of improvement. They come to us, many of them untrained and undisciplined. Given a fair chance, they can be made in this Institution, useful and reasonably happy. As I have often said in these reports and as I now most emphatically repeat:—On the industrial department of this, or any other institution of its kind, depends largely the measure of its usefulness and the measure of its success in the management of the children committed to its care. These children must have attractive employment. To suggest that they be allowed to eke out their existence in idleness, is to woefully misconceive the essentials for the happiness and comfort of our defectives and society's duty to them. The girls and the boys in this place who are happy and contented and give the least trouble are the girls and boys who are regularly employed. Therefore, may I urge, now that the war is over and we are entering on a new era, that opportunities be given us to extend the industries of this Hospital. I know I am safe in saying that according to the enlargement of our industrial activities permitted by the Department we shall add to the efficiency of the service we render to the unfortunates committed to our care and, at the same time, lessen the burden of their maintenance upon the Province.

The death rate for the past year has been extraordinarily high. In the first place the reason is to be found in the class of patients that have been admitted during war time. A very large proportion of the admissions have been frail physically as well as mentally. Many of them have been brought to us in an almost dying condition. Towards the close of the year we had a severe epidemic of influenza. It spread throughout our entire Institution and quickly marked as its own many of those who were weak in resistive power. I think it is within the mark to say that not ten per cent of the deaths recorded during the year were cases that had ordinary physical vitality.

Adverting to the number of patients who have come to us with a lease of life early and definitely set, we might cite the fact that twenty-four of those who died had been less than a year in the hospital. At the other end of the scale a similar result is revealed. We had thirty-nine deaths of patients who had been over twenty years in Government Hospitals; two of these had been forty-one years, one forty, one thirty-nine and one thirty-eight.

The building programme has gone on quite satisfactorily, considering the condition of the labour market. We are now within sight of the end of the reconstruction period, which will make this Institution one of the most convenient and well equipped on the continent of America. The new laundry has been in operation for a couple of months and is regarded as one of the most attractive and efficient industries of the kind in any hospital of the Province. There are several things yet to be done in connection with it; but these will come in due time. The work on the kitchen block, store, bakery, butcher-shop, cold storage, pantries and allied conveniences has gone on steadily and the early summer of 1919 should see

us in occupation of these new departments. We are looking forward gladly to the day when the workmen shall leave us and we can invite our friends to come and view the enlarged and reconstructed Hospital for the Feeble Minded.

At the beginning of the new era, which happily is opening to us, I would beg the privilege of expressing my thanks to the good men and women who have stayed loyally with us in times when selfish interests would have attracted them elsewhere. Not only have our people been faithful to their duty here, but they have not neglected their duty to the common cause. I was surprised the other day in looking over the records to find that this Hospital, with less than one hundred employees, had subscribed over \$4,000.00 to patriotic movements and had purchased war bonds to the extent of \$32,000.00. It has been a trying time to many of our people, but I think we are all disposed to forget the burden and sacrifice in the joy that is ours in turning our faces to the new day. We beg to thank our staff for all they have done, not only during the past year, but during the progress of the great war.

Since the last report was issued Miss Eva Bonnell has taken the position of matron and during the year Dr. Wickware, of Ottawa, and Dr. Mason, of Mimico, have occupied the position of assistant medical director.

I have the honour to be,

Sir.

Your obedient servant,

J. P. Downey

Superintendent.

TABLE No. 1-ORILLIA.

Showing movements of patients in the Hospital for the official year ending Oct. 31st, 1917.

550 4 94	550	1,100 4 136	443	549	992
94		-	443	549	992
94		-		1	
		100	98	42	140
		•••••	541	591	1,132
9	3	12 7			
13	6	19			
5	47	5			
1	1	2	91	54	145
			450	537	987
160	103	263	1.523	1,417	2,940
845	745	1,590			
2	1	3			
		17	4 000		4 0 7 0
			1,073	880	1,953
			450	537	987
165,552	546 199,584	999 365,136			
	13 72 5 1 160 845 2 17 49 453	13 6 72 47	9     3     12       13     6     19       72     47     119       5     1     1     2        5     1     5         5       1     1     2              1       49     31     80            453     546     999       165,552     199,584     365,136	9     3     12       72     47     119       5     1     1     2     91        450        1.523       160     103     263       845     745     1.590       2     1     3       17     49     31     80     1,073        450       453     546     999       165,552     199,584     365,136	9     3     12        13     6     19       72     47     119        5     1     1     2     91     54        450     537        1.523     1,417       160     103     263       845     745     1.590       2     1     3       17     49     31     80     1,073     880       8      450     537       453     546     999       165,552     199,584     365,136

TABLE No. 2.—ORILLIA.

Showing social state and religion of patients admitted during the year and since opening of Hospital.

	Admi	ssions of	Admissions of year. In residence.						ince
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
SOCIAL STATE.									
Single	98	41	, 139	449	478	927	1,510	1,339	2,849
Married		1	1	1	47	48	11	65	76
Widowed					12	12	•••••	13	13
Divorced									
Separated									• • • • • •
Unascertained					•••••			2	2
Total	98	42	140	450	537	987	1,523	1,417	2,940
RELIGION.									
Baptists	4	2	6	18	21	39	65	50	115
Congregationalists					1	1	4	3	7
Church of England	26	12	38	91	113	204	291	302	593
$Methodists \dots \dots \dots$	20	12	32	82	132	214	367	367	734
Presbyterians	20	7	27	89	101	190	275	262	537
Roman Catholies	10	1	14	76	74	150	275	208	483
Other Denominations	8	3	11	41	45	86	101	86	187
Unascertained	10	2	12	53	50	103	145	139	284
Total	98	42	140	450	537	987	1,523	1,417	2,940

TABLE No. 3—ORILLIA.

Showing nativity of patients admitted during the year and since opening of Hospital.

<b>V</b>	Admi	issions of	Year.	Admissions since opening.				
Nativity.	Male.	Female.	Total.	Male.	Female.	Total.		
Total Admissions	98	42	140	1,523	1,417	2,94		
Total born in Canada	78	40	118	1,249	1,165	2,41		
Armenia		 						
AssyriaAustria			• • • • • • • •	4	7.			
Australia Belgium								
Bulgaria Central America								
China Denmark								
England	9	2	11	94 3	94 2	18		
Finland								
				12		2		
Greece Holland								
HungaryIreland				50	52	10		
Italy								
Macedonia				3	3			
Norway								
Roumania	3		3	6	5	1		
ScotlandSouth America	1		1	34	31	(		
Spain				3	$ \cdots \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot$	! i		
TurkeyUnited States	4		4	·····27	21			
West Indies	3		3	38	32			
Unascertained					1,417	2.94		

#### TABLE No. 4-ORILLIA.

Showing the Occupation of those admitted during the year and since the opening of Hospital.

	Admi	tted this	Year.	Si	nce Openi	ng.
Occupation.	Male.	Female.	Total.	Male.	Female.	Total.
Professional:— Clergy, Military and Naval Officers, Physicians, Lawyers, Architects, Artists, Authors, Civil Engineers, Surveyors, etc.					1	1
Commercial:—  Bankers, Merchants, Accountants, Clerks, Salesmen, Stenographers, Typewriters, etc			••••	3		3
Agricultural and Pastoral:— Farmers, Gardeners, Stock Men, etc.				6		6
Mechanics at Outdoor Vocations:— Railway and Stationary Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers, Painters, Police, etc.				2		2
Mechanics, etc., at Sedentary Vocations:— Shoemakers, Bookbinders, Compositors, Weavers, Tailors, Seamstresses, Bakers, Factory Workers, etc				; ;	17	17
Domestic Service: Waiters, Cooks, Servants, etc		2	2		56	56
Education and Higher Domestic Duties:— Governesses, Teachers, Students, Housekeepers, Nurses, etc				1	62	63
Miners, Marine Engineers, Railway Employees, Seamen, etc				1		1
Laborers		1		22		22
No Occupation	98	40	138	1,488	1,281	2,769
Unascertained						
Totals	98	42	140	1,523	1,417	2,940

TABLE No. 5.—ORILLIA. *

Showing the Counties and Districts from which patients have been admitted during the year, and since opening of Hospital.

Counties		lmitt ing y			tted s cening			mitte ng ye	ed	nt cas Admit ope				mair in sider	
and Districts.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	fotal.	Male.	Female.	Total.	Male.	Female.	Total.
Algoma District Brant Bruce Barleton Oufferin Dundas Durham Elgin Essex Frontenac Glengarry Grenville Grey Haldimand Halton Hastings Huron Kent Lambton Lanark Leeds Lennox and Add'tn Lincoln Middlesex Muskoka District Norfolk Northumberland Ontario Oxford Parry Sound Dist. Pecl Perth Peter borough Prescott Prince Edward Rainy River District Renfrew Russell Simcoe Stormont Stadbury Thunder Bay Dist Temiskaming Victoria Waterloo Welland Wellington Wentworth			1 4 2 7 3 1 1 1 1 1 2 1 1 1 1 1 2 2 1 1 1 1 1 1	15 26 37 53 7 12 13 14 53 12 13 14 53 12 13 14 53 12 13 14 15 16 16 16 16 16 16 17 18 18 19 19 19 19 19 19 19 19 19 19	$\begin{array}{c} 16 \\ 19 \\ 33 \\ 48 \\ 11 \\ 67 \\ 223 \\ 45 \\ 511 \\ 48 \\ 45 \\ 12 \\ 27 \\ 29 \\ 24 \\ 81 \\ 21 \\ 48 \\ 22 \\ 14 \\ 38 \\ 22 \\ 14 \\ 38 \\ 22 \\ 14 \\ 38 \\ 22 \\ 6 \\ 30 \\ 44 \\ 14 \\ 26 \\ 79 \\ 7 \\ 1 \\ 1 \\ 2 \\ 21 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 1 \\ 25 \\ 25$	31 45 70 1011 18 46 34 46 34 46 57 73 64 55 1000 29 27 73 64 55 1000 25 104 42 31 1 26 80 66 111 189 21 45 22 20 21 47 45 21 47 52 20 21 47 52 20 21 47 52 20 21 47 52 20 21 47 52 20 21 47 52 20 21 47 52 20 21 47 52 20 21 47 52 20 21 47 52 20 21 47 52 20 20 20 20 20 20 20 20 20 20 20 20 20			1	3 1 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2 4 5 2 1 1 5 3 3 3 3 4 1 1 3 7 2 1 1 1 5 5 2 2 5 5 7 1 1 1 1 2 2 5 2 7 1 2 8 8	5 1 9 9 111 2 2 9 5 5 1 8 8 5 5 9 9 4 4 7 7 3 3 4 4 9 9 12 9 9 9 12 9 9 12 9 12 9 12 12 12 12 12 12 12 12 12 12 12 12 12	3 10 5 5 14 1 1 7 7 4 6 6 14 4 5 1 1 1 1 8 8 7 7 8 9 3 3 4 4 4 5 5 6 6 6 6 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 3 2 4 4 8 8 5 6 6 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	77 122 122 377 38 5 5 15 122 200 10 11 11 11 11 11 11 11 11 11 11 11 1
York		1 13		338	19	1				2	1		1 1 3 450	6	-

#### TABLE No. 7.—ORILLIA

Showing hereditary tendency to Insanity in patients admitted during the year and since the opening of the Hospital.

	Admi	tted during	Year.	
	Male.	Female.	Total.	
Paternal Branch	8	2	10	
Maternal Branch	17	8	25	
Paternal and Maternal Branches	8	4	12	
Collateral Branches	19	5	24	
No Hereditary Tendency	28	14	42	
Unascertained	18	9	27	
Totals	98	42	140	

TABLE No. 8—ORILLIA.
Showing summary of Probational discharges during the year.

	Male.	Female.	Total.
Number Granted Probational Discharge	13	6	19
Discharged, Recovered while on Probation			
" Improved	2		2
" Unimproved "	2	1	3.
Died			
Returned to Hospital	2	1	3
Absent on Probation on October 31st, 1918	7	4	11
	13	6	19

#### TABLE No. 9-ORILLIA

Showing the causes of death of patients who died during the year and since the opening of the hospital.

	Diec	l during y	ear.	Sir	ice Openii	ıg.
Cause of Death.	Male.	Female.	Total,	Male.	Female.	Total.
Specific Infectious Diseases:— Typhoid-Fever	1 7	2 4	3 11	18 9	19 11	37 20
Diphtheria Erysipelas Senticaemia		1	1	3 2 3 6	10 3 3 7	13 5 6 13
Dysentery Syphilis Tuberculosis Other Infections	30	10	10	22 3 216 8		42 3 402 17
Constitutional Diseases:— Rheumatism Arthritis Deformans Diabetes Mellitus				1 1 2		1 1 2
Diseases of the Digestive System:  Mouth, salivary glands  Pharynx  Tonsils  Œsophagus					1	1 3
Diseases of the Intestines:— Diseases of the Liver				10 2 33	5 1 22	15 3 55
Diseases of the Respiratory System:—  Diseases of the Nose and Larynx  Bronchi  Lungs  Pleura	1	1 6	$\begin{array}{c} 2\\ 1\theta\\ 1\end{array}$	3 13 56 10	2 9 69 2	22 125 125
Diseases of the Circulatory System:  Diseases of the Pericardium.  Heart  Arterio-sclerosis.	2	4	6	2 64 2	1 60 2	3 124 4
Aneurism  Diseases of the Blood and Ductless Glands:— Anæmia Pernicious Auæmia Leukæmia Exophthalmic Goitre				8 4	972	17 11 2
Diseases of the Genito-Urinary System			1	21	7	28
Totals -Carried Forward	. 59	31	. 90	523	469	992

#### TABLE No. 9-ORILLIA-Continued.

Showing the causes of death of patients who died during the year and since the opening of the hospital.

	Die	d during y	ear.	Si	nce Openii	ng.
Cause of Death.	Male.	Female.	Total.	Male.	Female.	Total.
-						
Totals—Brought Forward	59	31	90	523	469	992
Diseases of the Nervous System:  Diseases of the Nerves	2		2	10 5 2	6 6 9	16 11 11
lesions)	2	2	4	16	20	36
Hysteria) Epilepsy		6	12	1 119	3 100	4 219
Mental Diseases:— Exhaustion of Acute Mental Disease. " "Chronic " "General Paresis				1 - 52	1 1 39	1 2 91
Intoxications:— Alcoholism Morphinism Metallic Poisoning Heat Stroke						
Debility of Old Age	1	5	6	92	71	163
Accident	· · · · · · · · ·		•••••	5	4	9
Suicide						
Surgical Diseases	2	1	3	17	11	28
Gynæcological Diseases		• • • • • • • • • • • • • • • • • • • •	.			<i></i> .
Malignant New Growths, or Cancer	• • • • • • • • •	1	1	2	4	6
Totals	72	÷7	119	845	745	1,590

#### TABLE No. 10-ORILLIA.

Showing form of mental disease of patients admitted, discharged and died during the year.

	A	dmi	tted.	D	iseha	rged.		Die	ed.
Mental Disease.	Male.	Female.	Total.	Male	Fernale	Total.	Male,	Female.	otal.
Infection Psychoses:—									
(a) Fever Delirium (b) Infection Delirium (c) Post Infection Psychoses									
Exhaustion Psychoses:—  (a) Collapsed Delirium  (b) Acute Confusional Psychoses  (c) Neurasthenia									
Intoxication Psychoses:—  (a) Acute Intoxications  (b) Chronic "									
(a) Alcoholism (acute and chronic) (b) Delirium Tremens					• • •				
(e) Alcoholic Hallucinatory Dementia (f) "Paranoia(g) "Paresis						 			 
(h) Morphinism	• • • •	•••		• • • •			• • • •		
Thyroigenous Psychoses:  (a) Mixædematous Psychoses  (b) Cretinism				• • • •			• • • •		
Dementia Præcox:—  (a) Hebaphrenic.  (b) Catatonic.  (c) Paranoid.								1	1
General Paresis									
Organic Dementias:—  (a) Cerebral Sclerosis  (b) Huntingdon's Chorea									
(c) Multiple Sclerosis									
(f) Arterio Sclerotic Psychoses		• • • •			• • • •				
(a) Melancholia (b) Pre-senile Delusional Psychoses (c) Senile Dementia		···· i	· · · · · · · · · · · · · · · · · · ·			••••			 i
Manic Depressive Psychoses. —  (a) Manic States								1	1 1 3
Carried Forward									10

TABLE No. 10-ORILLIA-Continued.

Showing form of mental disease of patients admitted, discharged and died during the year.

	Ac	lmit	ted.	Dis	char	ged.	Died.		
Mental Disease.	Male.	Female	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Brought Forward		1	1				1	9	10
Paranoia			ļ						
Psychoses from Constitutional Neuroses:—  (a) Epileptic Psychoses	1	1	2					1	1
States of Deficient Mental Development:—  (a) Imbecility	75 22	28 12	103 34	9	3 2	12 6	26 45	15 22	41 67
Not Diagnosed									
Not Insane									
Totals	98	42	140	13	6	19	72	47	119

TABLE No. 11—ORILLIA.

Periods.	Alleged duration of insanity prior to admission.	Length of residence of those remaining in Hospital on Oct. 31st, 1918.	Periods of treatment of those who were discharged recovered during the year.	Periods of treat ment of those who were discharged improved during the year.	Periods of treatment of those who were discharged unimproved during the year.	Periods of treat. ment of those who died during the year.
Under 1 month		2			2	3
From 1 to 2 months		7			1	3
2 · 3 · ·		10		1		4
3 4		7			1	1
4 5		10				3
5 6		6				1
6 9		34		2	1	3
9 12		38			1	6
· 12 · 18 · ·		29		1		12
'' 18 months to 2 years		159		3	1	8 3 3 3
'' 2 to 3 years		48		1		3
'' 3 '' 4 ''		33		2		3
'' 4 '' 5 ''		48		2		
2 10		158				16
'' 10 '' 15 ''		130				10
'' 15 '' 20 ''		87				11 29
" 20 years and upwards.		181				29
Totals		987		12	7	119

#### ANNUAL REPORT OF THE MEDICAL SUPERINTENDENT FOR THE YEAR ENDING OCTOBER 31st, 1918.

To W. W. DUNLOP, Esq.,

Inspector of Hospital for Insane and Epileptics,

Parliament Buildings, Toronto, Canada.

Sir,-I have the honour to submit to you the Thirteenth Annual Report for the Hospital for Epileptics, for the year ending October 31st, 1918.

We had remaining in residence November 1st, 1917, 211 patients. We admitted during the year 23 males and 14 females, total 37 patients. Total number under treatment during the year 248, being 124 males and 124 females. Total number discharged during the year 14, being 10 males and 4 females. Discharged improved, 7; discharged unimproved, 7. Total number who died during the year 29, being 18 males and 11 females. We had remaining in residence October 31st. 1918, 205 patients.

#### Improvements.

Fire Escapes have been built in each of the four cottages, which will give us more avenues of escape in case a fire should break out in any of our buildings.

A hennery has been built 64x16 feet in dimensions. This is an up-to-date building for poultry. With this completed, we expect to be able to supply the institution with eggs and fowl.

This year we found it necessary to build another silo to meet our fodder requirements, and one was built with capacity for holding one hundred tons of ensilage.

We laid during the year 1280 rods of tile on the north farm, which puts this in good condition for cropping, and should increase the grain yield.

The exterior of two buildings was painted during the year, and a number of the rooms and corridors in the different cottages were also painted.

#### FARM AND GARDEN.

Returns from these were extra good except the potato crop, which was not up to the average, owing to the effect of blight. The garden returns were sufficient to meet our requirement during the summer months, and an ample supply for storage.

The following table shows our return from farm with the acreage given for each crop:-

64 (	aeres	Hay	100	tons
		Corn		
5	44	Mangels	4,600	bushels
		Barley		
		Spring Wheat		
		Oats		

#### Patients.

The hospital has been filled to the utmost capacity. Quite a percentage have made satisfactory improvement, and a number have been discharged during the year as improved.

#### Conclusion.

In conclusion, Sir, I wish to acknowledge your courtesy and promptness in all matters pertaining to the equipment and general work of the hospital.

I have the honour to remain.

Your obedient servant.

J. J. Williams.

Medical Superintendent.

# ANNUAL STATISTICAL REPORT OF THE OPERATIONS OF THE HOSPITAL FOR EPILEPTICS, WOODSTOCK, FOR THE YEAR ENDING OCT. 31st, 1918.

#### TABLE No 1-WOODSTOCK.

Showing movements of patients in the Hospital for the official year ending Oct. 31st, 1918.

	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital	104	104	208			
In Residence Oct. 31st, 1917				101	110	211
Admitted during year 1918 — By Warrant By Medical Certificate	$\begin{array}{c} \cdots \vdots \\ 25 \end{array}$	14	37	23	14	37
Total number under treatment during year				124	124	248
Discharges during year:— As recovered	5 5	$\frac{2}{2}$	77			
Total number discharged during year Died		11				
ElopedTransferred				28	15	43
Remaining in Hospital, Oct. 31st, 1918				96	109	205
Total number admitted since opening of Hospital	124	81	205	319	257	576
Total number died since opening of Hospital	95 	64	159			
	4	3	7	223	148	371
Total remaining in Hospital, Oct. 31st, 1918				96	109	205
Daily average population	99.93 36,477	107.90 39,386	207.84 75,863			

#### TABLE No, 2-WOODSTOCK.

Showing social state and religion of patients admitted during the year and since opening of Hospital.

	Adm	issions of	Year.	Ir	Residen	e.	Adı	nissions s opening.	ince
	Male	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
SOCIAL STATE.									
Single	20	13	33	84	85	169	261	206	467
Married	3	1	1	10	24	34	56	51	107
Widowed				2		2	2	••••	2
Divorced				•••••					
Separated									
Unascertained									
Totals	23	14	37	96	109	205	319	257	576
RELIGION.									
Baptists	2	1	8	7	11	18	22	23	45
Congregationalists				1		1	1		1
Church of England	10	4	14	25	31	56	77	72	149
Methodists	2	2	4	11	29	40	81	77	158
Presbyterians	5	1 1	9	28	23	51	70	49	119
Roman Catholics		2	2	8	7	15	28	20	48
Other Denominations	1	1	5	11	5	16	32	10	42
Unascertained				5	3	8	8	6	14
Totals	23	14	37	96	109	205	319	257	576

#### TABLE No. 3-WOODSTOCK.

Showing nativity of patients admitted during the year and since opening of Hospital.

Nativity.	Admi	issions of	Year,	Admissions since opening.				
Nativity.	Male.	Female.	Total.	Male.	Female.	Total.		
Total Admissions	23	14	37	319	257	570		
Total born in Canada	13	8	21	256	201	457		
Armenia								
Assyria								
Austria				1		1		
AustraliaBelgium								
Bulgaria								
Central America								
China								
Denmark								
England	8	6	14	36	10	70		
France								
Finland								
Galicia								
Germany								
Greece								
Holland								
Hungary					<u>.</u> .			
Ireland				6	7	1		
Įtaly								
Japan								
Macedonia								
Other British Possessions								
Norway Roumania								
Russia					٠			
Scotland			1		5	1		
South America				'				
Spain								
Sweden								
Turkey								
United States		1		8	2	1		
West Indies								
Unascertained								
Totals	23	14	37	319	257	57		

#### TABLE No. 4-WOODSTOCK.

Showing the occupation of those admitted during the year and since the opening of Hospital.

	Adm	itted this	year.	S	ince openir	ıg.
Occupation.	Male.	Female.	Total.	Male.	Female.	Total.
		Ţ				
Professional:— Clergy, Military and Naval Officers, Physicians, Lawyers, Architects, Artists, Authors, Civil Engineers, Surveyors, etc		.		5		5
Commercial:-  Bankers, Merchants, Accountants, Clerks, Salesmen. Stenographers, Typewriters. etc	2	3	5	25	7	32
Agricultural and Pastoral:— Farmers, Gardeners, Stock Men, etc	1		1	51		51
Mechanics at Outdoor Vocations:  Railway and Stationary Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers, Painters, Police, etc.  Mechanics, etc., at Sedentary Vocations: Shoemakers, Bookbinders, Compositors, Weavers, Tailors, Seam-	2		2	19		19
stresses, Bakers, Factory Workers, etc	• • • • • • •			20	16	36
Domestic Service:— Waiters. Cooks. Servauts, etc	1	1	2	4	37	41
Education and Higher Domestic Duties:— Governesses, Teachers, Students, Housekeepers, Nurses, etc	4	4	8	15	70	85
Miners, Marine Engineers, Railway Employees, Seamen, etc.				1		1
Laborers	3		3	81	\	81
No occupation	8	6	14	88	127	215
Unascertained	2		2	10		10
Totals	23	14	37	319	257	576

#### TABLE No. 5-WOODSTOCK.

Showing the Counties and Districts from which patients have been admitted during the year, and since opening of Hospital.

		lmit ing y		Adn	itted open	since		lmitt	ed		itted	since		main in siden	
Counties and Districts.							dur	ing y	ear.	(	peni	ng.			
and Districts.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Algoma District Brant Bruce Carleton Dufferin Dundas Durham Elgin Essex Fronenac Glengarry Grenville Grey Haldimand Halton Hastings Huron Kent Lambton Lanark Leeds	3  2  1 		2 1  1  1 1	2   11   5   6   6   6   1   3   8   5   4   1   1   5   6   6   8   4   1   2   2   2	2 8 4 8 5 5 5 2 2 1 6 6 1 3 3 4 4 10 1 3 3	19 9 14 11 3 13 7 10 10 9 11 8 22 23				i		i 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	21 21 22 1 22 1 22		1 9 4 4 5 5
Lennox and Addington Lincoln Middlesex Muskoka District Nipissing District Norfolk Northumberland Ontario Oxford Parry Sound Dist Peel Petrborough Present	1 2 1 1 1	1  1 1	1 1 1	7 26  1 4 2 1 16  13 3	1 3 14 1 4 3 9 13 1 1 1 2 3	10 40 1 5 7 5 10 29 1 2 15				1			 1 4  1 5 1	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 12 1 1 1 1 4 8 1 2 4 3
Prescott Prince Edward Rainy River Dist. Renfrew Russell Simcoe Stormont Thunder Bay Dist. Victoria Waterloo Welland Wellington Wentworth York Unascertained	1 8	   1 6	  1  2 14		1 1 1 1 8 2 7 3 1 7 20 80 1	1 2 3 18 7 4 11 17 4 12 37 159 6				1 1 2 1 1		3 1 2 1,		1 1 1 1 1 1 1 10 34 1	1 2 5 2 2 4 2 1 5 16 60 2 205
Totals	23	14	37	319	257	576	• • • •	• • • •	• • • •	19	ĩ	26	96	108	200

#### TABLE No. 6-WOODSTOCK.

Showing the assigned causes of Insanity in the cases admitted during year.

Causes.	Men.	Women	Total.	Pr	Inherited Predisposition.				
				Men.	Women.	Total.	Un-		
oral:—									
Adverse Conditions (such as loss									
of friends, business troubles, etc.) Mental Strain, Worry and Over-				• • • • • •		• • • • • •			
work (not included in above)	1		1						
Religious Excitement									
Love Affairs, including seduction.									
Fright and Nervous Shock	1	1	2						
nysical:—							1		
Alcoholism									
Sexual Excess									
Venereal Diseases									
Masturbation									
Insolation									
Accident or Injury Pregnancy	3	2	5				• • • • •		
Perturition and Buomanium	• • • • • •			• • • • •			• • • • •		
Parturition and Puerperium Lactation	• • • • • •			• • • • • •					
Climacteric Period									
Fevers									
Privation and Overwork									
Epilepsy									
Other Convulsive Diseases									
Diseases of Brain and Skull									
Senility	1		1				• • • • •		
Exophthalmic Goitre							• • • • •		
Epidemic Influenza				• • • • • •					
Lose of Special Sense									
Uræmia									
Other Auto-infection	1	1	2						
Other Auto-infection	$\frac{1}{2}$		$\overline{2}$						
ereditary:									
Congenital Defect				1		1			
Unascertained	9	7	16	4	1	5			
Not Insane									
Totals	19	12	31	5	1	6			

#### TABLE No. 7-WOODSTOCK.

Showing hereditary tendency to Epilepsy in patients admitted during the year and since the opening of the Hospital.

	Admit	ted during	Since Opening.			
,	Male	Female.	Total.	Male.	Female.	Total
Paternal Branch			1	17 21	14 14	31 35
Paternal and Maternal Branches Collateral Branches				6	8	14 31
No Hereditary Tendency	13	77	20 16	202 56	163 44	$\frac{31}{365}$ $100$
Total	23	14	37	319	257	576

#### TABLE No. 8-WOODSTOCK.

Showing summary of Probational Discharges during the year.

		_				Male.	Female.	Total.
Number granted Probation	nal Dis	charge .		 		2		2
Discharged, Recovered wh		Probatio	n	 				
Discharged, Improved	6 6			 	.			<b></b>
Discharged, Unimproved		• •		 		2		2
Died	6.4			 			1	
Returned to Hospital		• •		 		1	14	15
Absent on Probation on O				 		-	(	

#### TABLE No. 9-WOODSTOCK.

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

	Die	d during y	ear.	Sin	nce Openia	ng.
Cause of Death.	Male.	Femal.	Total.	Male.	Female.	Total.
Specific Infectious Diseases:— Typhoid Fever						
Influenza						
DiphtheriaErysipelas						
Septicæmia						
Syphilis Tuberculosis					1	4
Constitutional Diseases:— Rheumatism						
Arthritis Deformans				• • • • • • • • •		
Diseases of the Digestive System:— Mouth, salivary glands						
Pharynx Tonsils						
Œsophagus					1	1
Diseases of the Intestines:  Diseases of the Liver  Diseases of the Pancreas						
Diseases of the Peritoneum					1	1
Diseases of the Respiratory System:  Diseases of the Nose and Larynx						
Diseases of the Bronchi	1	3	<u>†</u>	2 8 	$ \begin{array}{c} 2\\10\\\dots\end{array} $	18 18
Diseases of the Circulatory System:— Diseases of the Pericardium					·	
Diseases of the Heart				4	3	7 1
Aneurism						
Diseases of the Blood and Ductless Glands:— Anæmia				2	2	-4
Pernicious Anæmia Leukæmia Exophthalmic Goitre.			• • • • • • •			
Diseases of the Genito-Urinary System						
Carried Forward	1	3	4	20	21	41

#### TABLE No. 9-WOODSTOCK.-Continued.

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

	Die	d during y	ear.	Si	nce Openia	ng.
Cause of Death.	Male.	Female.	Total.	Male.	Female.	Total.
Brought Forward	1	3	4	20	21	41
Diseases of the Nervous System:-						
Diseases of the Nerves						
Diseases of the Meninges					1	
Organic Diseases of the Brain (Tumor, Abscess, Embolism, Thrombosis, Hemorrhage and other gross lesions)		2	2	7	3	10
alysis Agitans, Chorea, Eclampsia, Hysteria) Epilepsy			22	$\begin{array}{c} 2 \\ 62 \end{array}$	36	98
Mental Diseases:— Exhaustion of Acute Mental Dis-				1		
ease Exhaustion of Chronic Mental Dis-				1		1
ease				2	3	5
General Paresis		• • • • • • • • •				
Intoxications:—						
Alcoholism						
Metallic Poisoning						
Heat Stroke						
Debility of Old Age						
Accident						
Suicide			1			
Surgical Diseases						
Gynæcological Diseases						
Malignant New Growths, or Cancer	1		1	1	1	2
Totals	18	11	29	95	64	159

#### TABLE No. 10-WOODSTOCK.

Periods.	Alleged duration of insanity prior to admission.	Length of residence of those remaining in Hospital on Oct. 31st, 1918.	Periods of treatment of those who were discharged recovered during the year.	Periods of treatment of those who were discharged improved during the year.	of the dur	ment of those who died during the year.
Under 1 month	1 2 1 2 1 2 1 8 5	1 1 2 4 4 6 9 10 13 15 17 13 14 64 32		1 1 1 1 2 1	1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 2 1 3 13 7
Totals	37	205		7	7	29

## Feeble-Minded in Ontario

#### TWELFTH REPORT

FOR THE YEAR ENDING OCTOBER 31st

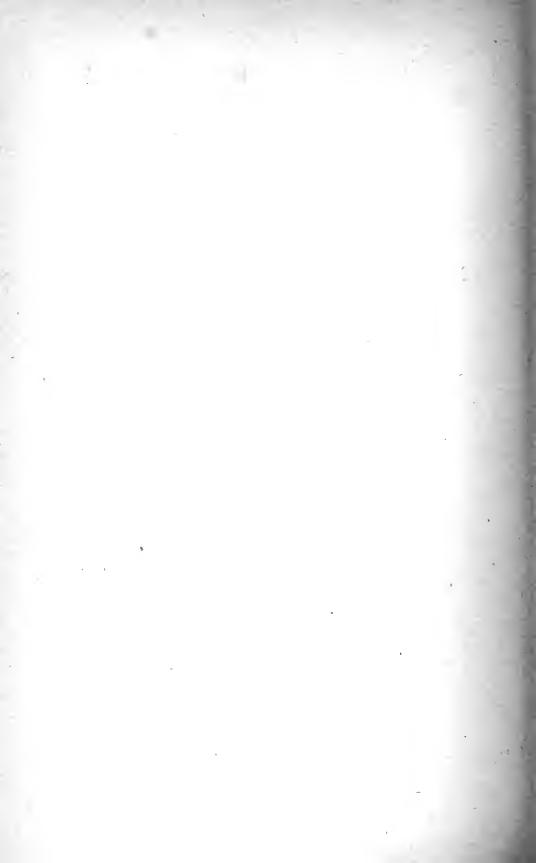
1917

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO



#### TORONTO:

Printed and Published by A. T. WILGRESS, Printer to the King's Most Excellent Majesty 1918



PARLIAMENT BUILDINGS, TORONTO, March 22, 1918.

To His Honour Sir John Strathearn Hendrie, C.V.O., a Colonel in the Militia of Canada, etc., etc., etc.

Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

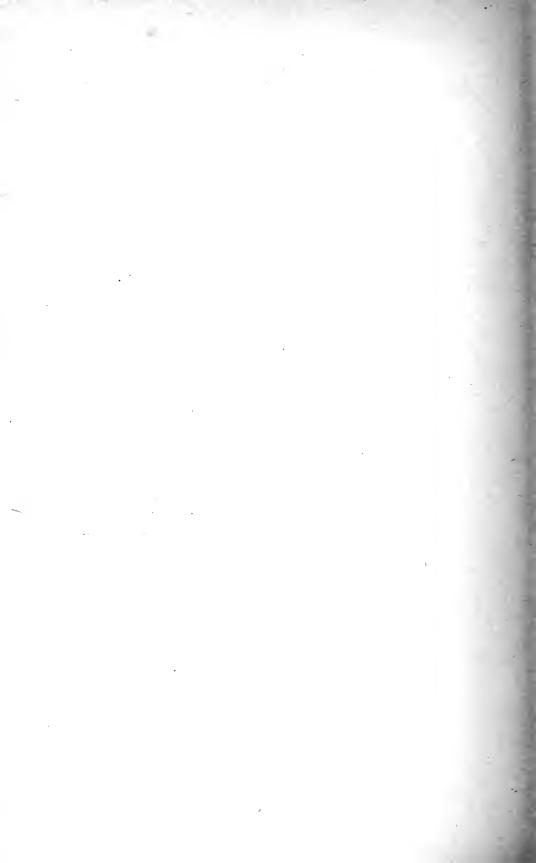
I beg to submit herewith the Twelfth Annual Report on the Feebt-minded in Ontario for the year ending October 31st, 1917.

I have the honour to be,

Your Honour's obedient servant,

WM. D. MCPHERSON.

Provincial Secretary.



Office of the Inspector of the Feeble-minded, Ontario,
Parliament Buildings, Toronto, March 18th, 1918.

SIR.-

I have the honour to transmit herewith, to be presented to His Honour the Lieutenant-Governor, the Twelfth Annual Report of the Feeble-minded in Ontario for the year ending October 31st, 1917.

I have the honour to be, Sir,

Your obedient servant,

HELEN MACMURCHY,

Inspector.

HONOURABLE WM. D. McPHERSON, K.C., M.P.P.,

Provincial Secretary of Ontario.



### TWELFTH ANNUAL REPORT ON THE CARE OF THE FEEBLE-MINDED IN ONTARIO

During the last ten years the essential facts of the situation in regard to dependent and delinquent members of the body politic have been becoming clearer. Democracy is beginning to think that for its own sake it must take care of those who are not fit for full citizenship or for parenthood. The removal of all political disabilities has directed more attention to inherent disabilities that cannot be removed.

The philanthropist knows that in some at least of the failures of life, the trouble has been not that these men and women will not be useful and independent citizens but that they and their children cannot be useful and independent citizens. They have not sense enough. Hence our charitable institutions increase and multiply.

The social reformer, whether interested chiefly in Prison Reform or in the cure of the so-called Social Evil. or in Venereal Disease knows now that it is the cause, not the symptoms that we should attack, and no one cause of these great evils can be more completely proved than Mental Defect. It is not the only cause, but no other single cause is a greater obstruction to every effort towards Social Reform.

The day of wondering and supposing and guessing has gone by. Mental defect is not a hypothesis. It is a fact. What are we going to do about it?

The time has gone by when we thought it was any use trying to deal with the burdens and problems of social life on any wholesale plan.

"Take my word for it, Sammy, the poor in a lump is bad" is nobody's motto now. We know that every human being should be dealt with as a human being, that is, as we would like to be dealt with ourselves, and that kindly consideration should be given to the desires and capabilities of each one as an individual.

"We recognize now that the success of efforts for the economic or social reconstruction of an individual depends chiefly upon that individual's personal resources and that among these resources none compare in its importance with his mentality. With a normal mind, severe physical and economic handicaps may be overcome; with a mind that is defective from birth or that has been damaged by disease, the best planned efforts at reonstruction are doomed to failure. Already there is abundant evidence that feeblemindedness, mental disease and other maladjustments underlie an enormous proportion of the cases of dependency, criminality and inebriety which heavily tax the city's resources."*

### EMPLOYMENT FOR MENTAL DEFECTIVES IN A SUITABLE INSTITUTION.

Mental defectives have great industrial possibilities. Given only adequate supervision of the right kind, an officer with a genius for encouragement, and with some knowledge of simple industrial occupations can develop the powers of the inmates of an institution adapted for mental defectives to a wonderful extent. Of course farm and garden work is the most successful employment of all for mental defectives.

^{*}Dr. Herman M. Adler, Assistant Professor Psychiatry, Havard University.

Out in the world very few mental defectives can support themselves. Their standards are low, or none; they cannot keep a place any time; they have not the habits of punctuality, regularity and industry indispensable to success, and they have neither the knowledge nor the ambition that commands success. It is not their fault, they are only children.

C. S. Rossy, Industrial Psychologist to Sing Sing prison, finds that of 150 mentally defective men who had been confined in state institutions, 37 had been common laborers: £2 had done house and hotel work, such as acting as butlers, waiters, cooks, etc.: 20 had worked as chauffeurs, drivers and teamsters; 7 had been farmers: £2 had worked as shop hands; 5 as rag pickers and peddlers; 7 as tailors and pressers: 30 engaged in mechanical trades.

"The following data with regard to their mental ages were determined by the application of the Yerkes-Bridges point scale; of these 150 men, three possessed a mentality of seven years: 14 a mentality of eight years: 29 a mentality of nine years: 22 a mentality of ten years: 69 a mentality of eleven years; and 13 a mentality of twelve years.

"In correlating the mental ages of these individuals with the types of occupations in which they had engaged we find that the subjects possessing the highest development of intellectual ability had been ngaged as chauffeurs, clothing cutters, electricians, nurses, and painters. Most of the subjects having a low grade intelligence had been working as shop hands, farmers, laundry-men and peddlers. Of the peddlers, not one had a mentality of over ten years. For the group of common laborers and the group of factory hands, the average mentality in each case was also ten years. A fairly high mentality was found among men with trades, such as shoemaking, carpentry and bricklaying.

"If we use these statistical data as a basis for a conjecture, we can say that, of the adult mental defectives engaged in economic activities, 15 per cent, are found doing factory work. In almost every manufacturing concern we meet cases of intellectual defectiveness, and these are, as a rule, the most costly employees to the factory. They are unsystematic in their methods of work, neglectful, and forgetful of their duties; they show little sense of responsibility, are noted for their lack of punctuality, and evince a readiness to leave their tasks irrespective of consequences, at the slightest dissatisfaction. On account of this instability, the intellectually defective employee always causes the company an increase in the natural turnover of labor, and likewise an increase in the expense of maintenance.

Railway companies and other employers of large numbers of men, are beginning to realize that it would save money, prevent accidents, and add to the efficiency of the work, if, in connection with the employment office, every applicant for employment were carefully examined as to his mental and physical condition, as well as his social history, so that the applicant can be placed at work for which he is really fitted, and in which he can succeed, or, if not fitted for the work, may be spared failure and trouble. If only employment offices could in some way make the knowledge so obtained available for the good of the individual and the public, a great deal would be gained."

#### WHAT IS THE NUMBER OF THEM?

One of the most important questions in regard to dependent or delinquent members of any community is—"What is their number, and what percentage do they form of the entire population?" This has been considered by practically

every inquiry or commission concerned with such questions. A considerable body of evidence on this point was gathered by King Edward's Royal Commission, appointed in Great Britain in 1904. These results are authoritative and well-known.

### MODERN DEVELOPMENTS.

There is slowly developing the model of a new type of Institution for Mental Defectives, with an "out-patient" department, as it were, in the organization of which special provision could be made for the safety, care and education of Mental Defectives who are of the type that may be allowed to remain at home with safety and advantage to themselves and the community, provided they have the care, guardianship and supervision which they require.

This can be done in co-operation with schools, social agencies and families.

### ETIOLOGY.

Research into the causation of mental defect is slowly proceeding. The results of an examination *of 1,134 feeble-minded inmates of the Michigan Home and Training School show that 240, or 21.16 per cent. present "the characteristics of various glandular syndromes. Of these glandular cases in the feeble-minded, heredity stands out as the foremost factor in the etiology."

It is also stated that glandular disease coexists with the feeble-mindedness, and is not the cause, but may determine the increase of both somatic and mental defect; and, in the glandular types of feeble-mindedness, cases treated for the

glandular trouble have shown both physical and mental improvement.

### PREVENTIVE WORK.

There is a general feeling in the community, especially among those who work for the reclamation of young offenders, that preventive work does not receive sufficient attention, especially in regard to young girls and boys on the streets.

In some of the cities of Ontario, women have been appointed police officers, and their attention is frequently directed to girls and boys who are quite young, and whose conduct causes anxiety. If they had the necessary authority and qualifications, and were required to study these cases from a preventive point of view, and assist the families and friends of the children whose future is thus in danger, a great deal of benefit would result; and any who might be mental defectives could be recognized and properly cared for before they have become delinquents.

### THE GRAND JURY.

On the 17th of November, 1916, Mr. W. A. Littlejohn, City Clerk, Toronto, forwarded to Mr. J. K. Macdonald, President of the Children's Aid Society, an extract from the Presentment of the Grand Jury at a recent sitting of the Court of Criminal Assize, which included the following reference to mental defectives:

"We would recommend that the children who are mentally defective, now in the Children's Aid Society Home, be removed to the proper institution."

^{*}McCord and Havnes, N.Y. Medical Journal, Mar. 31, 1917.

### INCENDIARISM.

It is not often that a year passes without a record of incendiary fires in this

Province, started by some mentally defective person,—often a child.

On the 18th April, 1917, a mentally defective boy, who had been repeatedly before the Juvenile Court in one of our cities, was seen around a small barn within the limits of the city, and a few minutes afterwards the barn was on fire; a horse being so injured in the fire that it had to be destroyed.

Shortly before this, and not far away from the home of the same mentally defective boy, another fire was started, and but for the bravery of a young man

who put it out, a large part of that city might have been destroyed.

After the fire on the 18th April, this mentally defective boy confessed that he had set fire to both these buildings. When the Fire Chief of the city visited the boy, he confessed that he had caused five other fires in addition to the two already mentioned, and gave a clear explanation of how, when, and where he did so.

The boy appeared to be gentle and good-natured, and when asked why he had caused these fires, he replied that it was "In the show" that the idea came into his mind, mentioning the names of the two films which, according to his story, had created this longing in his mind. This statement he repeated to the Judge of the Juvenile Court, saying he "Wanted to see the fire reels."

The boy was sent to an Industrial School on May 8th, 1917.

· water

5 44 mg

### PROVINCIAL ASSOCIATION FOR THE CARE OF THE FEEBLE-MINDED.

The Annual Meeting was held in the City Hall, Toronto, on February 1st, 1917, the President, Col. J. E. Farewell, K.C., of Whitby in the Chair. Col. Farewell in his Presidential address made an able and effective plea for the objects of the Association. Dr. J. T. Page, the Chief Medical Immigration Inspector, spoke on "Feeble-mindedness in Relation to Immigration," advocating reforms in the Medical Immigration Service, so that mentally defective persons should not be allowed to enter Canada, as they do now. Reports from the Auxiliary Associations at Toronto, Hamilton, Ottawa were given and the following officers elected:-

Hon, President	Dr. P. H. Bryce, Ottawa.
President	DR. F. J. Conboy, Toronto.
1st Vice-Pres	MRS. A. M. HUESTIS, Toronto
3rd " "	MISS ROSE PATTON, Ottawa.
	J. R. McNeillie, Lindsay.
	DR. C. M. HINCKS, Toronto.

A large deputation from the Association waited upon the Premier, Sir William H. Hearst, at the Parliament Buildings. The President of the Association, Dr. F. J. Conboy, the Secretary, Dr. C. M. Hincks and the President of the Toronto Association, Dr. C. K. Clarke, made addresses on the need for the care and control of Mental Defectives in Ontario, and laid before the Premier a plan to establish an Industrial Farm and School Colony for Toronto.

The Premier "pointed out to the deputation certain matters in the scheme

presented by them that appeared to merit further consideration."

After further discussion and consideration the Premier promised that the request would receive the consideration of the Government and on February 13th, 1917, the following communication was made by the Premier to the Association.

"So far as your request for financial aid is concerned, the Government is prepared and willing to meet your demand and make a grant of \$50.00 per annum for each pupil maintained in an Institution of the character mentioned in the communication referred to and more particularly described in the address of your self and others on occasion of the deputation above referred to.

This payment will, of course, be subject to proper control and inspection by the Government. The points mentioned and particularly one of them, to my mind. present real difficulties, and I am anxious to hear further from you with respect to them. The Government is most anxious not to place any obstacles in the way of your laudable desire to make all progress possible towards the solution of this most important and difficult problem.

Assuring you of the deep interest of myself and colleagues in the important work you have in hand and wishing you all success in the completion of the best scheme possible, I am,

Yours sincerely,

(Signed) W. H. HEARST.

On June 20th, 1917, another deputation from the Provincial Association for the care of the Feeble-minded waited upon the Hon. W. D. McPherson, Provincial Secretary, and Hon. Dr. Pyne, Minister of Education, to ask that a Royal Commission be appointed on the Care of the Feeble-minded in Ontario, to ascertain the number of mentally defective persons and the menace caused by them, and to prepare the necessary legislation.

Dr. Conboy spoke of the need, menace, burden, and numbers in asylums,

prisons, reformatories, charities and schools.

Mr. Wills of Hamilton; Col. Farewell of Whitby; Dr. Bryce of Ottawa: Rev. Canon Plumptre: Rev. Father Minehan, and Mrs. Huestis of Toronto, also spoke.

Hon. Mr. McPherson said that he would bring the request before the Government as soon as possible, and suggested that the Association should take steps, with similar associations in other provinces, to bring this matter before the Dominion Government, so that the immigration of mentally defective persons might be prevented.

### THE TORONTO BRANCH.

The Toronto Branch of the Provincial Association for the Care of the Feebleminded was formed in April, 1916, by a number of citizens interested in the question, including, besides members representing the Public Charities. Settlements, and Social Workers, the Medical Profession, the Local Council of Women, the Board of Education, etc., the members of the Advisory Committee on the Feebleminded, appointed, in April 20th, 1915. After an enthusiastic organization meeting held in the Council Chamber of the City Hall, sub-committees were formed and continued their work throughout the summer.

A plan involving utilization of part of the land of the Municipal Farms and co-operation between the Provincial Government and the City of Toronto to provide for the care of mental defectives in Toronto was one of the results of this work. The City Council, the Board of Education and the Board of Control gave support to this plan and promised their assistance in carrying it out.

On Thursday, November 23rd, 1917, a Committee of the Association waited on the Hon. Dr. Pyne, Minister of Education, to lay before him a plan for the eare of mentally defective children in Toronto. The members of the Committee present were—Dr. C. K. Clarke, Mr. J. K. Macdonald, Mrs. Huestis, Dr. C. M. Hincks and Dr. Gordon Bates.

The proposal of the Committee was that some part of the Municipal Farms should be appropriated to the purpose of earing for feeble-minded children, both boys and girls: that provision be made for 500 girls and 500 boys: that the institution be placed under the Superintendent of the Municipal Farms; that the City contribute for maintenance \$100.00 per year per pupil: that the City erect the buildings; that the Government give a grant of \$50.00 per year per capita for maintenance.

The Minister promised that consideration would be given to this proposal.

It was further pointed out that the proposal was to establish institutions of the Industrial Farm Colony Type, one for boys and one for girls. The boys' buildings would be in the neighborhood of the Industrial Farm for Men, in Markham Township, and the girls would be located on the eastern portion of the Women's Industrial Farm. The Toronto City Council, it was stated, had consented to set apart sufficient land for this purpose. The Board of Education was willing to give \$100.00 per annum for the maintenance and support of each pupil it sent. An effort would also be made to get the Separate Schools to contribute. The deputation asked the Provincial Government for a grant of \$50.00 per pupil, per annum.

At the Session of the Legislature in 1917 the City of Toronto was granted permission to erect suitable buildings for an institution for the care of feeble-minded children on the Industrial Farm and to issue debentures to the amount of not more than \$150,000 to meet the cost of the work, without submitting a by-law to the ratepayers.

The Toronto Association has had a successful year and has carried on its efforts to educate the public through the press, and also by means of public meetings, regular meetings of the Executive and the Association, sometimes in co-operation with the Academy of Medicine and other organizations, and also by publications. One of the publications contains the following:

"The first year's work was crowned with success and justified the existence of the Association. Financial assistance has been given by it to the Psychological Laboratory of the University of Toronto, to carry on important investigations in connection with the problem. Through the press and on the platform the public has been aroused to a realization of the gravity of the situation. When the Association requested the City Council to set aside \$150.000 and two tracts of land for the establishment of farm colonies for the care of 500 mentally defective children, the request was granted. The Provincial Legislature was prevailed upon to provide \$50.00 per pupil per annum towards maintenance charges.

The local situation demands that the adult problem be solved, that laws concerning mental defectives be amended, that Police Court procedure include a mental examination as a part of the routine handling of cases. It behooves the Provincial Legislature to appoint a Royal Commission for the investigation and solution of the whole problem as it affects Ontario. It is the duty of the Dominion Government to see to it that defective immigrants are barred out of Canada."

### THE ACADEMY OF MEDICINE.

The Section of State Medicine of the Academy of Medicine held an open meeting on the 30th of November, 1916, at which addresses were given by Dr. C. K. Clarke, Dr. C. M. Hincks, Miss Brooking, Superintendent of the Alexandra Industrial School, Miss M. J. Clarke, of the Central Neighborhood House, Prof. Peter Sandiford of the Faculty of Education, University of Toronto, Dr. F. J. Conboy, Dr. Horace Brittain, and the Inspector of Feeble-minded.

Dr. Gordon Bates, chairman of the Section, presided, and there was a large attendance.

The results of the work of the Psychiatric Clinic at the Toronto Hospital were placed before the audience. There have now been 1,445 persons examined at this clinic, and out of this number 59 were found to be incendiaries, 285 habitual thieves, and 120 inclined to homicide. Dr. Conboy presented the suggestions of the Association for the care of the Feeble-minded, Toronto Branch, as follows:—

- 1. "The establishment of two institutions of the Industrial Farm Colony type, with buildings on the cottage plan, one for boys and one for girls, accommodating in all about 500 pupils; buildings to be simple, inexpensive, and as fire-proof as possible; location of Boys' Colony to be on the second concession of Markham, one and a quarter miles east, and three quarters of a mile north of the Men's Industrial Farm Building and half a mile north of the site set aside for the Aged Men's Home; location of Girls' Colony to be on Bathurst Street one and a quarter miles east of the Women's Farm Building which is on Dufferin street. The site for the Aged Women's Home is midway between the Women's Farm building and the Girls' Farm Colony.
- 2. Both these sites are now owned by the city, and we are asking the City Council to set aside a sufficient amount of land for this purpose, to erect the necessary buildings, and to place the colonies under the Industrial Farm management.
- 3. As a large number of pupils will come from the Public Schools, we request them to appoint a psychiatrist, who will act in conjunction with the Chief Inspector, and determine what pupils shall be allowed to attend the farm colony. We also ask the Board of Education to contribute \$100 per annum for each pupil sent to the colony.
- 4. That the Separate School Board be urged to make the necessary provision for sending the feeble-minded of the Separate Schools to the colony, and pay \$100.00 per pupil per annum for maintenance."
- 5. That the Provincial Government, having provided in auxiliary classes, Sec. 13, for a special grant for this purpose, fix the amount of the grant at \$50.00 per annum for each pupil in the institution."
- Dr. Horace Brittain, Secretary of the Board of Municipal Research, said that probably \$35,000 of public money was lost in the effort to teach mentally subnormal children in the public schools of Ontario. The following resolution was passed:— /
- "Resolved that this meeting of the Section of State Medicine in the Academy of Medicine express its appreciation and hearty endorsation of the work undertaken and results achieved by the Toronto Branch of the Provincial Association for the Care of the Feeble-minded, and desires to go on record as advocating

increased institutional care for the mentally defective at the earliest possible date. It is also moved that a copy of this resolution be forwarded to

- 1. The Mayor of Toronto and members of the Board of Control.
- 2. The members of the Board of Education.
- 3. The members of the Provincial Cabinet.

### THE HAMILTON BRANCH.

The Hamilton Branch of the Provincial Association for the Care of the Feeble-minded, was organized on May 16th, 1917, at a large and influential meeting in the City Hall, presided over by the Mayor. The Hamilton Press rendered great assistance to the cause of the Mentally Defective by giving excellent reports of the meeting and treating the subject in the way which its importance deserves.

The Hamilton Herald says: "The desire, long felt in the city, that something should be done in the matter of caring for the feeble-minded, took a practical form last night, when a representative meeting of citizens was held in the Council

Chamber."

The Hamilton Times says: "Doctors, lawyers, elergymen and men in many other walks of life, together with numerous ladies, gathered in the council chamber of the City Hall last evening. They went there with the desire to hear about the feeble-minded, and departed after listening to Dr. Helen MacMurchy, Provincial Inspector of Feeble-minded, and Dr. Clarence M. Hincks, Honorary Secretary of the Provincial Association, and setting the wheels in motion for a local branch of the association. Mayor Booker presided."

The Hamilton Spectator gives the addresses of Mr. John Allan, M.P.P., Mrs. Robert Evans, Mrs. P. D. Crerar, Rev. W. H. Sedgwick, Sherriff Middleton.

and Mr. T. H. Wills, and concludes the report as follows:

"Mr. T. H. Wills made an excellent speech. The problem under discussion, he said, was a moral cancer in the body politic and should be dealt with as such. Mr. Wills then moved the following resolution, which was seconded by Mrs. Robert Evans: That in the opinion of this meeting of representative citizens, it is advisable and in the best interests of the City, that a local branch of the Provincial Association for the Care of the Feeble-minded be formed and that a committee for that purpose be forthwith nominated.

Mr. T. H. Wills, unanimous approval of whose valuable work was expressed by hearty applause, was made convenor of the committee, Rev. W. H. Sedgwick

and Dr. Glassco being the mover and seconder of the motion."

A further meeting to complete the organization was held on June 4th, 1917, Mr. John Allan, M.P.P. being in the Chair.

A Constitution and By-laws were adopted and the following officers elected:

President	JUDGE GAULD.
Vice-Presidents	MRS. ROBERT EVANS,
6	Mrs. P. D. Crerar.
	MRS. URQUHART,
	SHERIFF MIDDLETON,
	Dr. G. S. Glassco,
	W. H. LOVERING.
Hon. Treasurer	MISS HILDA SAVAGE.
Hon Secretary	T. H. Wills

The following committees were appointed: Educational, Medical, Finance, Publicity, Membership, Legislation, every member of the general committee being placed upon one or more of these standing committees.

A resolution in favor of a Royal Commission to inquire into the whole question of mental deficiency so far as it affects the Province of Ontario, was unanimously adopted, and the President and John Allan, M.L.A. were appointed to wait on the Provincial Secretary to ascertain the Government proposals on this question.

On July 13th, 1917, a deputation of the Hamilton Association waited upon the Board of Education. The deputation was headed by Judge Gauld, the President of the Association, and Mr. T. H. Wills, Sceretary, who addressed the Board on the work and plans of the Association.

Trustees Cunningham, McIlwraith and Hutchison were appointed a committee to consider the requests made by the Association, that a psychiatric clinic on the lines of that conducted at the Toronto General Hospital be established for the examination and classification of children who may be thought to be more or less mentally defective, and that the Board of Education and the Separate School Board be asked to co-operate by facilitating such examination: and also by providing such accommodation as may be required for the training of such mental defectives in special classes.

### THE OTTAWA BRANCH.

The Ottawa Branch of the Provincial Association for the Care of the Feeble-minded was organized in Eebruary, 1917. Arrangements were made to establish a Central Clinic at Ottawa for the examination of mentally defective children at the General Protestant Hospital, Rideau Street, under the direction of Dr. Argue and Dr. Gliddon. The Clinic was opened on March 9th, 1917.

The Association has secured a grant of \$150.00 for the necessary equipment.

### THE PSYCHIATRIC CLINIC.

The Psychiatric Clinic, held every week in connection with the Social Service Department of Toronto General Hospital has again increased and extended its work during the year, as the following statistics and quotations from the Annual Report will show.

"We co-operate extensively with outside organizations, giving such help as is required from a medical institution, that is to give a physical, mental, or moral diagnosis that would enable them to deal intelligently with these problems. This includes such organizations as the Department of Public Health, the courts, the relief societies, the churches, the schools, employment bureaus, and all other agencies working for human betterment.

### PSYCHIATRIC WORK.

otal number of cases Diagnosis—					 	•		 		•	 •	 •	 •		•	 Ī	
Moron			 	 	 			 								 	
Imbecile																	
Idiot		٠.	 ٠.		 		٠.	 						 		 	
Insane				 	 		٠.	 					 				
Backward				 	 		٠.	 						 		 	
Epileptic			 		 			 									
Deaf and Dum	b.,		 	 	 			 	 		 						
Cretin			 	 	 			 			 			 			
Normal			 	 	 				 		 	 		 			

2

#### Source of Case-

	222
Juvenile Court	662
Institutions—The Haven, Industrial Refuge, Presbyterian	
Home, Protestant Orphanage, Boys' Home, Girls' Home	149
	143
Out-Patient and In-Patient Dept. of General Hospital	
Medical Inspection of Schools	58
Children's Aid Society	57
Dept. of Public Health	51
•	51
Private Source	
Social Agencies	21
Patriotic Fund and Military Authorities	26
Out of town	12
out of town	1.2
Of the total number of 1.549, there are from	
of the total number of 1,943, there are from	
Canada	783
	371
England	
Russia	104
Scotland	84
United States	38
Ireland	28
Poland	18

During the past year a Psychological laboratory was inaugurated at the University of Toronto with Doctor C. K. Clarke as chief of the staff, and associated with him are Dr. C. M. Hincks, Professor W. G. Smith, and Members of the Staff of Psychology of the University.

Italy
Wales
Galicia

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The function of the Laboratory is to investigate cases of juvenile mental abnormality referred from the Psychiatric Clinic, and to try out methods of treatment for these cases and note results. All findings are at the disposal of students interested in mental abnormality.

The Juvenile Court has sent to the Psychiatric Clinic 662 cases, and of these 489 who were formerly considered incorrigible, bad or immoral, are now recognized as feeble-minded and not responsible for their actions; but with this diagnosis of feeble-mindedness the Judge of the Court meets one of his greatest problems."

"In three years at the Psychiatric Clinic, over 2.498 people have been examined, 491 of whom were insane and 1.835 feeble-minded. Only 255 of these have been placed in institutions. Many of the remainder figure continually in Juvenile Court, Police Court, the Jail Farm, the Mercer, the Haven, the Rescue Homes, the Hospitals, and Sanitoria, to the detriment of these institutions and to their own hurt.

In two and a half years there have been 351 babies illegitimately born in the Burnside Hospital."

It may be noted that applications are becoming much more frequent for the care of mentally defective children who are quite young, perhaps because more is known about this subject than was the case a few years ago.

### MENTAL DEFECT AND VENEREAL DISEASE.

The Statement presented to the Conservation Commission, Dominion Government, by the Faculty of Medicine, of the University of Toronto, on this subject, which is closely connected with the subject of Mental Defect, has helped materially to awaken public opinion. The Academy of Medicine has also given its influence to this movement, the Presidential Address this year containing reference to it and to the well known fact that a great proportion of unfortunate women afflicted with these diseases "are definitely feeble-minded." The proper care of mental defectives would help to put an end to Venereal Disease.

### ONTARIO MEDICAL ASSOCIATION.

At the thirty-seventh Annual Meeting the following Resolution was passed: Resolved: "That the Ontario Government should appoint a Royal Commission to make inquiry into the subject of the care of the feeble-minded and insane in the Province of Ontario to the end that more adequate means may be a opted for dealing with the problem of prevention and of scientific treatment of the insane and feeble-minded."

### ONTARIO WOMEN'S INSTITUTES.

At the annual convention of the Women's Institutes for Western Ontario, in London, November 16th, 1917, a resolution was passed in regard to the urgent necessity to care for all feeble-minded children and adults, especially those who are suffering from certain diseases.

### SYNOD OF THE DIOCESE OF TORONTO.

On Sunday, June 17th, 1917, at the request of the Bishop of the Diocese of Toronto, Canon Plumptre and other clergymen referred from the pulpit to the great need of having provision made for the care of the feeble-minded. Canon Plumptre said that a resolution of the Synod on this subject had already been presented to the Government and urged his congregation to do all in their power to influence public opinion in this direction as the Government could only act in compliance with the wishes of the people.

The following is the resolution referred to, passed by the Synod on June

8th, 1917:

"That this Synod heartily endorses the proposals of the Provincial Association for the Care of the Feeble-minded that a Commission be appointed by the Government for the investigation of the whole subject."

### SOCIAL SERVICE COUNCIL OF CANADA.

On February 9th, 1917, the Social Service Conneil of Canada pa-sed the following resolution:—

"That the Ontario Government be earnestly urged without delay to provide adequate protection for the care of the feeble-minded, and in particular for the care of feeble-minded women of child-hearing age."

### THE TORONTO CONFERENCE OF THE METHODIST CHURCH.

The Conference at its Annual Meeting in June, 1917 passed the following resolution:—

"We affirm the principle of segregation for the feeble-minded. It is a necessity in the interests of public morals that all feeble-minded boys and girls should be placed in institutions under the most helpful and scientific supervision."

### CANADIAN MEDICAL ASSOCIATION.

At the Annual Meeting of the Canadian Medical Association in Montreal, June 15th, 1917, the following resolution was passed in the meeting of the Section of Medicine:—

"That inasmuch as proper provision for the suitable training and permanent care of mentally defective persons is urgently needed, not only in the best interests of such persons and their families, but for the National Welfare, this section would therefore request the General Council to take whatever action they may deem advisable in this matter, such as appointing a special committee to report upon this subject at the next Annual Meeting of the Canadian Medical Association."

### CANADIAN PUBLIC HEALTH ASSOCIATION.

The influence of Mental Defectives on the Public Health was one of the subjects discussed at the Annual Meeting of the Association in Ottawa on September 28th, 1917. A paper on the above subject was presented by the Inspector of Feebleminded and a general discussion took place in which Dr. C. J. Hastings of Toronto, and others, supported the view that the influence of Mental Defectives on the work of Public Health was to increase the cost of such work and decrease its deficiency.

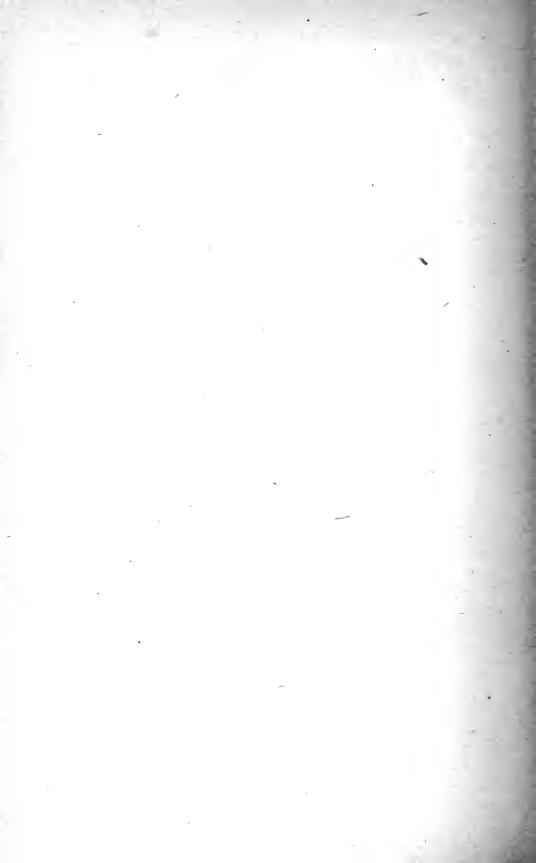
### CANADIAN CONFERENCE OF CHARITIES AND CORRECTION.

At the Annual Meeting at Ottawa on September 24th, 1917, the need of legislation dealing with the Feeble-minded was presented in a paper by Dr. C. M. Hincks of Toronto, and carefully discussed by the meeting, the general feeling being that further legislation is necessary.

### THE UNIVERSITIES.

The Canadian Universities have greatly helped to create public opinion as to the importance and necessity of caring for mental defectives. Members of the staff of McGill University, Montreal; Professor Carrie Derick, Dr. Gordon Mundie and others; the Department of Pedagogy at Queen's University, through the Dean, Professor Coleman, and the University of Toronto, through the President and the Alumnae Association, have organized lectures and given their patronage and influence to the movement, thus rendering it vastly more effective and acceptable to the general public. The action of the Department of Psychology of the University in relation to the work of the Toronto Branch of the Ontario Association for the Care of the Feeble-minded is a striking instance of this.





# Feeble-Minded in Ontario

### THIRTEENTH REPORT

FOR THE YEAR ENDING OCTOBER 31st

1918

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO



#### TORONTO:

Printed by
WILLIAM BRIGGS,
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TORONTO.

PARLIAMENT BUILDINGS, TORONTO.

To His Honour Sir John Strathearn Hendrie, K.C.M.G., C.V.O.,

Lieutenant-Governor of the Province of Ontario.

### MAY IT PLEASE YOUR HONOUR:

I beg to submit herewith the Thirtcenth Annual Report of the Feeble-Minded in Ontario, for the year ending October 31st, 1918.

I have the honour to be,

Your Honour's most obedient servant.

WM. DAVID McPHERSON,

Provincial Secretary.



Office of the Inspector of the Feeble-Minded, Ontario, Parliament Buildings, Toronto, December 19th. 1918.

Sir,—I have the honour to transmit herewith, to be presented to His Honour the Lieutenant-Governor, the Thirteenth Annual Report on the Feeble-Minded in Ontario for the year ending October 31st, 1918.

I have the honour to be,

Sir,

Your obedient servant.

Helen MacMurchy,

Inspector.

Hon. William David McPherson, K.C., M.P.P., Provincial Secretary of Ontario.



### THE FEEBLE-MINDED IN ONTARIO

## Thirteenth Annual Report

There has been a marked increase of interest in Social Work and Legislation during the past year, and the glorious victories of the Autumn of 1918 have stimulated this interest. The tide of public opinion has turned strongly towards measures of Reconstruction and Social Reform.

The most important event of the year in Ontario in reference to the care of the Feeble-minded was the appointment of the Hon. Mr. Justice Hodgins as a Royal Commissioner on November 11th, 1917, under the Public Enquiries Act, to consider and enquire into the existing methods of dealing with imbecile, feeble-minded and mentally defective persons in the province, with power to suggest amendments to existing legislation, or other measures which will, in his opinion, improve present conditions. The Commissioner was also instructed to enquire into and report on the prevalence of venereal diseases in their relationship to the treatment of the feeble-minded, and generally with regard to their extent and consequences, and suggest any measures which, in his judgment, will restrict as far as possible the evil consequences of these diseases.

Mr. Justice Hodgins held a number of sittings in Toronto and elsewhere in regard to venercal diseases, and an Act for the Prevention of Venercal Disease was passed at the Session of the Legislature, 1918.

#### Refuges.

In Industrial Refuges for Women and other Refuges where a number of feebleminded inmates are cared for, praiseworthy efforts are often made to teach and train the mentally defective inmates as far as the circumstances of the Home will allow.

At the Haven, Toronto, the Board of Directors have engaged a teacher who comes one evening a week and is assisted by four or five young ladies who instruct the inmates in small classes. The total attendance is 35. The work done is excellent, and the improvement in some of the girls who are seriously mentally defective is wonderful.

The Board of Education, Toronto, has helped very much in this work by providing evening classes in the Industrial Refuge, Belmont Street.

## PROVINCIAL ASSOCIATION FOR THE CARE OF THE FEEBLE-MINDED.

The Annual Meeting of the Association was held at Toronto General Hospital on the 26th of February, 1918, and was well attended, a number of representatives from different parts of the Province being present.

A large deputation of the Association waited on the Premier, Sir William Hearst, when the problem of the Care of the Feeble-Minded was presented to the Government by the Rev. Canon Plumptre, of Toronto, Mrs. P. D. Crerar, of Ham-

ilton, Mr. J. O. McCarthy, of Toronto, and others, who spoke to the following resolutions:

"It is hereby resolved that a deputation be appointed to wait upon the Premier and members of the Provincial Cabinet to present the following views.

"To urge upon the Government the great extent of this problem in cities and centres and in rural districts, and the need of immediate action: to express the view that this problem should be dealt with by the Provincial Government and not left to uncertain and scattered action by the municipalities.

"That the Government should provide such custodial institutions as are necessary: that a proper share of the cost of building these institutions should be col-

lected by direct taxation from the municipalities.

"That the municipalities be required to pay for the maintenance of all students and inmates up to 18 or 21 years of age: that the Government should assume the maintenance of such adult cases as require continued custodial care.

"That there should be such supervision of the issuing of marriage licenses as would prevent the marriage of certain disordered and feeble-minded persons."

In reply the Prime Minister said the problem was deserving of the most serious consideration, and the Government had appointed a Commissioner to report upon the matter, not only from a custodial and curative standpoint, but also from the standpoint of financial responsibility. "As soon as that report is received," said the, "it will receive not only our thought and consideration, but action along the lines that we feel should be taken."

#### THE TORONTO BRANCH.

The Annual Meeting of the Toronto Branch of the Association was held in Toronto General Hospital on Monday, June 3rd, 1918.

The principal speaker was Dr. E. E. Southard, of the Boston Psychopathic

Hospital, who gave an address on the different types of Mental Deficiency.

Captain Gordon Bates, the Secretary, reported that the Committee appointed by the Toronto Branch to meet a committee appointed by the City Council had got as far as the plans for a building to be erected for the feeble-minded north of Toronto, but owing to the financial stringency had been unable to go ahead. Prof. T. R. Robinson reported a small balance in the Treasury, Dr. C. M. Hincks told of a membership of 176, Dr. O. J. C. Withrow gave the report of the Publicity Committee, and Mrs. A. M. Huestis that of the Committee on Policy. Dr. Hincks outlined the work of the National Committee for Mental Hygiene, and Mr. W. D. Gwynne reported for the legal sub-committee.

The following officers were elected: Honorary President, Dr. C. K. Clarke; President, Mrs. A. M. Huestis: Vice-Presidents, Prof. Peter Sandiford and Canon Plumptre: Treasurer, Prof. T. R. Robinson: Secretary, Capt. Gordon Bates. The conveners of sub-committees are: Policy, Dr. E. A. Bott; Membership, Mrs. J. B. Laidlaw: Publicity, Mr. R. E. Mills: Laws, Mr. W. D. Gwynne; and Finance, Mrs. W. B. Meikle.

The following important resolution was passed: "That the Committee on Policy of this, the Toronto Branch, meet the Executive of the Provincial Association for the Care of the Feeble-minded for conference, first on the advisability of

'enlarging the scope of the work of the two Associations; second, on the wisdom of changing the names of the two Associations to conform with that of the lately organized Committee on Mental Hygiene, and thus tend to bring the national work for mental hygiene under a definitely organized plan."

### THE HAMILTON BRANCH.

During the year steady progress has been made by the Hamilton Association under the direction of the President, Judge Gauld; the Honorary Secretary, Mr. T. H. Wills, and others.

The following is a summary by Mr. Wills of the work recently undertaken and accomplished by the Association:—

"The work of the local Association has been in the main devoted to educating public opinion on this all-important question; and an unobtrusive but effective press campaign has been steadily conducted with the object of keeping its various phases before the community.

A deputation waited upon the Board of Education to enlist their active co-operation in the matter of providing special classes with specially qualified teachers for such children as were considered mentally deficient.

A sub-committee was appointed by the Board to deal with this matter from time to time as necessity arose, with very satisfactory results.

The following measures may, in addition, fairly be claimed as resulting directly or indirectly from the formation of this local branch.

A series of fortnightly addresses on Community Welfare, including addresses from Dr. C. M. Hineks on "The Feeble-Minded Problem," Dr. C. K. Clarke on "The Venereal Problem," and Commissioner Boyd on "Juvenile Courts and Juvenile Delinquency."

The formation of an "Advisory Committee on Venereal Diseases."

The establishment of a Psychiatric Clinic with a subsidy from the City Council.

A census (taken by the principals) of the feeble-minded children in the City Public Schools.

A similar census in the public schools of the County of Wentworth.

The establishment of an additional class for mentally deficient children at the Adelaide Hoodless School.

A healthy public opinion strongly in favour of the establishment of a Juvenile Court has been created; and in the near future this, too, may be accomplished.

At the request of the local association the Hon. Mr. Justice Hodgins consented to hold a sitting of the Commission in this city, and heard evidence from competent authorities on the Venereal problem.

Evidence on the Feeble-minded problem has also been prepared, and is now in course of preparation, to be given at subsequent sittings.

### CANADIAN NATIONAL COMMITTEE FOR MENTAL HYGIENE.

Much interest has been taken in the American National Committee for Mental Hygiene by those in Canada who are working for the same objects, which are thus briefly stated by the President of the Committee, Dr. Lewellys F. Barker, of Johns Hopkins:—

"The Committee hopes by investigation, by education, and by organization steadily to improve the brain power of the nation. It is striving to hasten the time when our people will be so begot and so reared that their minds will develop normally and harmoniously: when society will have less need than now for sanatoria, asylums, and prisons, and when all but an irreducible minority of those born to membership in the nation may think, feel and act in a way that will make them desirable citizens of that Better State which is our goal."

On February 25th, 1918, Mr. Clifford W. Beers, Secretary of the American National Committee, delivered a lecture on "Mental Hygiene" in St. James' Parish House, Toronto, to a large and representative audience. The next day a gathering took place at the residence of Mr. and Mrs. D. A. Dunlap, at which the organization of the Canadian National Committee for Mental Hygiene was approved of by all present and an organization committee appointed. It was announced that \$20,000,000 had already been subscribed for the work of the Canadian National Committee.

Dr. Hincks shortly afterwards visited Montreal, Ottawa, Quebec and other cities in the interests of the Association, and the Canadian National Committee was organized at a meeting held in Ottawa on April 26th, 1918, at which Sir William Peterson, Sir Robert Falconer, the Bishop of Ottawa, Col. Colin K. Russell, of Montreal, Major Page, of Quebec, Dr. Steele, M.P., Mrs. Adam Shortt, Mrs. J. B. Laidlaw and others were present.

The Report of the Nominating Committee, presented by Col. H. S. Birkett, of Montreal, and adopted unanimously, was as follows: President, Lt.-Col. Charles F. Martin, M.D., Montreal: Vice-Presidents, Lord Shaughnessy, Montreal; Sir Vincent Meredith, Montreal: Sir Lomer Gouin, Quebec; Sir Robert Falconer, Toronto, and Sir William Peterson, Montreal; Treasurer (subject to his acceptance). Sir Edmund Osler, Toronto: Executive Committee, Lt.-Col. C. K. Russell, Montreal, Chairman; Dr. J. D. Page, Quebec; Professor Dale, Montreal; Lt.-Col. Vincent Massey, Toronto; Dr. C. S. Porteous, Montreal: Dr. Peter Bryce, Ottawa; Dr. C. J. O. Hastings, Toronto; Dr. W. H. Hattie, Halifax: Professor Peter Sandiford, Toronto, and Lt.-Col. C. F. Martin: Medical Director, Dr. C. K. Clarke, Toronto: Associate Medical Director and Secretary, Dr. C. M. Hineks.

Two meetings of the executive have been held, the first during the Canadian Medical Association Meeting on May 29th, 1918, and the second on September 17th, 1918, when important business was presented and new work undertaken.

### PERMANENT CARE.

All who have any knowledge on the subject of the care of the feeble-minded agree that permanent care in a suitable institution is the happiest and best solution of the problem from every point of view. The problem really resolves itself into a problem of education, training and guardianship. The mentally defective eaunot "manage for themselves." How is the community going to manage for them? The right kind of institution is the happiest home for by far the majority of them. But there may be some who under proper guardianship might be of use in the community and might not be harmful.

During the year there has been a tendency to more careful estimation, by census and otherwise, of the number of mental defectives in the community as a whole. Recent American investigations have tended to confirm earlier estimates that the ratio of mentally defective persons to the whole population is 3 in 1,000,

and further that the number of mentally defective persons is increasing more rapidly than the number of normal persons in the ratio of two to one, or even three to one.

### THE REAL SITUATION.

It is more and more clearly seen that if mental capacity is below a certain level, the individual cannot, at any period of life, stand alone as an independent citizen, and therefore we should not pretend that he can do so. Whatever his age may be, he is unequal to the tasks which his fellows are able to perform easily enough. He is unable to adjust himself to life, to learn or profit by any advance made by the community, to acquire self-control, or to bring to bear any proper judgment on his affairs. On the other hand, such persons may have special ability in some one thing, such as the care of other young mental defectives in an institution, or the making of lace, or the care of horses, or stoking a furnace, or gardening, or farm work, or cleaning, or wood-working, or carpentering, or dish-washing, or waiting on table, or polishing, or ordinary manual labour. The progress made in turning to good account people who formerly were the waste products of humanity is a great gain. But we must "catch them young." It is hard to teach the mental defective who is a confirmed idler. He might just as well have learned habits of work and self-respect if we had appointed someone to teach him.

### PROGRESSIVE MEASURES.

Among the progressive measures which are now being considered in Ontario and elsewhere for the care of the feeble-minded are:—

1. The registration, under proper authority, of all feeble-minded persons not being cared for in suitable institutions and the provision of suitable supervision for those who can live in the community.

2. The provision of Auxiliary Classes in the Public and Separate Schools in large centres for the benefit of mentally defective children.

3. Provision for the examination, where desirable, of children and adults by physicians who are experts in the diagnosis of mental defect.

4. The development of School Medical Inspection, to include special supervision of Auxiliary Class work.

5. Medical examination, where desirable, of all persons brought before Juvenile and criminal Courts.

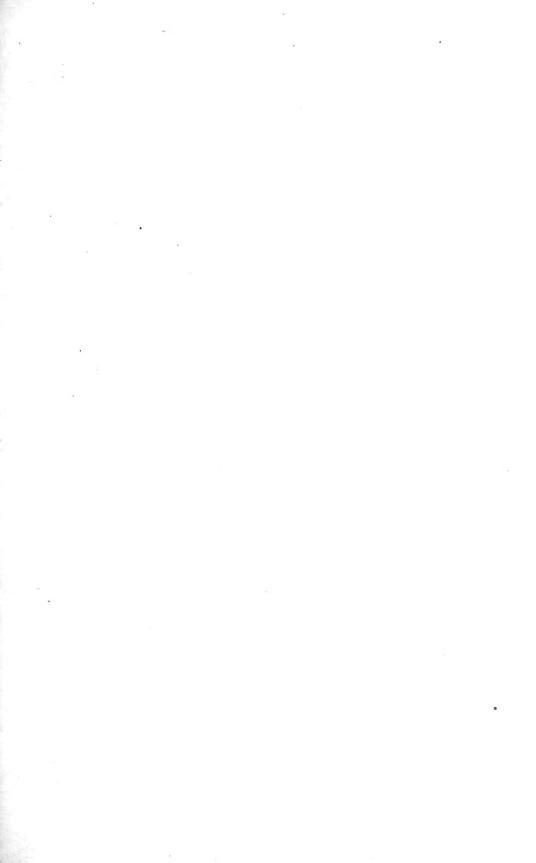
6. Mental examination by experts of all persons admitted to orphanages, refuges, industrial schools, reformatories, Houses of Refuge, Prison Farms, Public Charities and other penal, charitable or reformatory institutions, and the adoption of suitable measures for the improvement and training of such persons, according to their mental capacity.

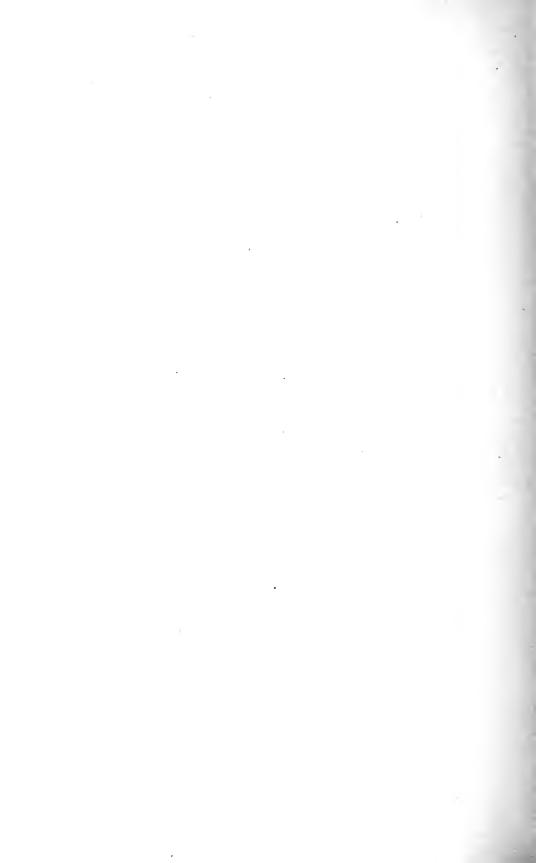
7. The reorganization of community work for dependent, delinquent and defective persons, especially in childhood and youth, on the basis of better knowledge of the facts in each individual case, classification, training and preparation for citizenship where that is possible, and care and permanent control where citizenship is not possible.

### RECONSTRUCTION.

The people of Ontario, and most of all those who are interested in making Ontario and Canada a better place to live in, have many reasons for encouragement, and not the least is the help of general public opinion about the problem of the Feeble-minded.

The solution of this problem will be one of the blessings of the Reconstruction period, for, to quote the words of the Fourth Annual Report of the Board of Control (Lunacy and Mental Deficiency), published a few weeks ago, in London, "No reconstruction scheme will be complete without ample provision for the protection of the mentally defective."









### FORTY-NINTH ANNUAL REPORT

OF THE

INSPECTOR OF PRISONS AND PUBLIC CHARITIES

UPON THE

# Hospitals and Charitable Institutions

OF THE

### PROVINCE OF ONTARIO

BEING FOR THE YEAR ENDING 30th SEPTEMBER

1918

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO



TORONTO:

Printed and Published by A. T. WILGRESS, Printer to the King's Most Excellent Majesty
1919

Printed by THE RYERSON PRESS

### PARLIAMENT BUILDINGS,

Токохто, Dec. 4тн, 1918.

To His Honour Sir John Strathearn Hendrie, C.V.O., a Lieutenant-Colonel in the Militia of Canada, etc., etc., Lieutenant-Governor of the Province of Ontario.

### MAY IT PLEASE YOUR HONOUR:

I beg to submit herewith the Forty-ninth Annual Report upon the Hospitals and Charitable Institutions of Ontario, being for the official year ending September 30th, 1918.

I have the honour to be,

Your Honour's obedient servant,

W. D. McPherson,

Provincial Secretary.

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#### OFFICE OF THE

INSPECTOR OF PRISONS AND PUBLIC CHARITIES, ONTARIO.

PARLIAMENT BUILDINGS, TORONTO, NOV. 14TH, 1918.

SIR,—I have the honour to transmit herewith, to be presented to His Honour the Lieutenant-Governor, the Forty-ninth Annual Report upon the Hospitals and Charitable Institutions, etc., for the official year ending September 30th, 1918.

I have the honour to be, Sir,

Your obedient servant,

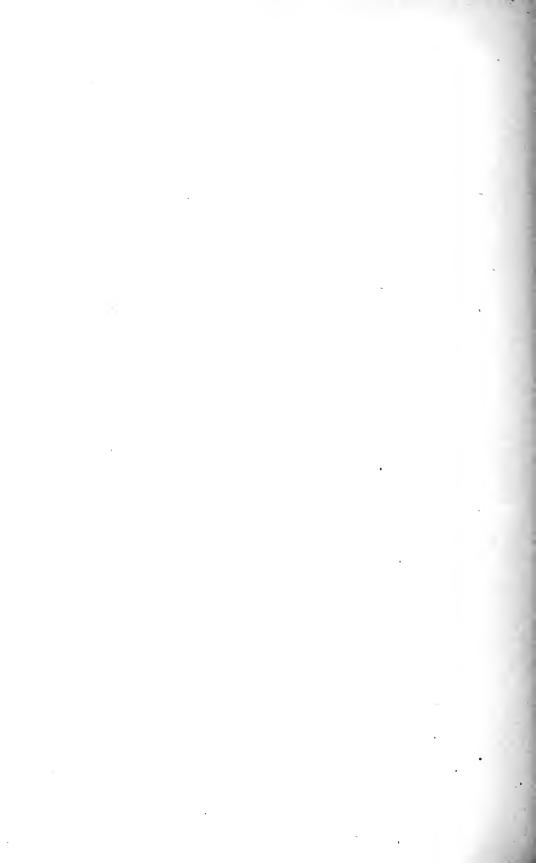
W. W. DUNLOP,

Inspector.

THE HONOURABLE W. D. McPherson, K.C., M.P.P.,

Secretary of the Province of Ontario,

Toronto.



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	Counties of	Leeds and Grenville
	County of	
	"	Middlesex
	"	Norfolk
	Counties of	Northumberland and Durham
		Ontario
	"	Oxford
	Counties of	Peel and Halton
		Perth
	"	Peterborough
	Counties of	Prescott and Russell
	County of	Prince Edward
	"	Simcoe
	Counties of	Stormont, Dundas and Glengarry
		Victoria
	"	Waterloo
	14	Welland
	**	Wellington
	44	Wentworth
		Yamla

# Hospitals and Charitable Institutions

In presenting the forty-ninth annual report on the Hospitals and Charitable Institutions for the year ending September 30th, 1918, I beg to state that there are at present in Ontario:

- 98 Public Hospitals, including 11 Sanatoria for Consumptives.
- 68 Private Hospitals.
- 39 Refuges.
- 31 Orphanages.
- 2 Convalescent Homes.
- 31 County Houses of Refuge.

These have, as far as possible, received official visits of inspection during the year, and those entitled to Government aid in accordance with the Statute have shared in the grants voted by the Legislature for Hospitals and Charities.

#### THE HOSPITALS.

The record of the year indicates the continued success and progress of the Hospitals of Ontario:

Number of patients in the hospitals, October 1st, 1917	5,732 98,339 8,360
Total number under treatment during year	112,431

The above figures do not include those who received medicine and treatment as outdoor patients.

Number of deaths during the year	5.04
Provincial grant to hospitals for the past year	<b>4384 659 03</b>

Provin	cial grant to i	ıospıta	us for the j	past year			\$384,652	95
Amour	nt received fro	m all	sources dur	ring the year			4,556.601	31
Subscr	iptions, donat	ions, e	tc., during	the year			712,219	83
Total	expenditure	for	hospitals	(including	capital	account,		

\$857,692.58) during the year ...... 5,763,924 36 Average cost for each patient per day ..... 2.27Percentage of Provincial grant to total maintenance expenditure..... 7.8

#### PROVINCIAL AID TO HOSPITALS.

1. A Provincial grant is made for all patients in a hospital during the first ten years of its existence at the rate of thirty cents per day, irrespective of what sum is contributed by the patients themselves.

2. After a hospital has been in existence for ten years the grant is paid only for patients for whose maintenance \$8.75 per week or less is contributed.

3. In all cases the limit is 120 days, and if the patients remain in the hospital

longer than that period the refuge rate of seven cents per day is allowed.

4. Children over one year and under twelve years are allowed for at the rate of seven cents per day.

5. No allowance is made for infants under one year of age.

## AID TO SANATORIA FOR CONSUMPTIVES.

1. A grant of \$4,000 on the erection and satisfactory equipment of the necessary buildings.

2. A grant of three dollars and fifty cents per week for the maintenance of each

indigent patient.

These grants to be in consideration of proper accommodation being provided, and only to assist in the maintenance of indigent patients coming from the Province of Ontario. There were 2,915 patients cared for in the eleven different Sanatoria for Consumptives during the past year.

## THE YEAR'S WORK IN THE HOSPITALS.

The number of patients cared for in the Public Hospitals of Ontario during the past year was 112,431.

The total expenditure for maintenance and equipment during the year was \$4,906,231.78.

### INSPECTIONS.

The usual inspection of each Hospital has been made and a report of the same transmitted to the Honourable the Provincial Secretary, and a copy of the report sent to each institution visited. Where criticism has been found necessary or where suggestions have been called for, they have in nearly every instance been received in a kindly spirit indicative of a desire to improve upon conditions mentioned.

With eighty-seven public hospitals located in different parts of the Province, it is now well recognized that a well established and conducted hospital confers an incalculable benefit on the community in which it exists. The remarkable progress that has been made in Ontario during recent years in establishing hospitals has developed an appreciation of the material advantage that such an institution is to the town or city in which it is located. It is only a very few years since, to secure proper hospital treatment, a long railway journey was necessary. Soon every county of Ontario will have its own hospital properly equipped for the care and treatment of medical and surgical cases, and thus every part of the Province will be afforded advantages which not long ago it was necessary to seek in the larger centres. To-day the medical and surgical equipment of many of our town hospitals is equal if not superior to that found in some of the older established institutions in the larger cities. The effect in every town where a public hospital has been established is seen not only in affording proper care

for the sick, but also fostering and developing an appreciation of scientific advantages to the medical profession that ultimately are of the greatest benefit to the whole community. From the standpoint of value to the country, hospitals undoubtedly rank first in the philanthropies of the age in which we live.

Plainly spoken criticism has to be expressed in report of inspection of some hospitals where, on account of the lack of proper accommodation, there has been found a disposition to crowd poor patients, admitted on municipal orders, into poorly ventilated wards and to reserve nearly all the best parts of the building for private and semi-private patients. The original idea—the care of the sick-poor—for which hospitals were established must not be lost sight of. The institution that fails to provide proper accommodation in suitable buildings for its patients should not be considered worthy to share either Government or Municipal grants. City hospitals should be compelled to afford as comfortable wards for their patients as are found at similar institutions in the towns of the Province.

The rate of maintenance at Ontario Hospitals is equal to if not less than at similar institutions in other portions of America, and criticism is seldom called for in regard to lack of economy in management. The expenditures under the different headings indicate such prudence and caution that enquiry often comes from other countries asking for information in respect to the methods employed to secure such results. Owing to the high cost of living the average daily cost per patient in our hospitals has arisen from \$1.13 in 1905 to \$2.27 in 1918, but when this rate is compared with the maintenance rates in hospitals in the United States there is certainly reason to feel satisfied with the comparison.

#### IMPROVEMENTS IN HOSPITALS.

## BROCKVILLE ST. VINCENT DE PAUL HOSPITAL.

The system of heating has been modernized and is controlled by a 75 h.p. steam boiler, thus effecting economy and more uniform heating. The interior and exterior of the building has been painted and general repairs have been attended to.

#### BRANTFORD GENERAL HOSPITAL.

A new wing has been added to the Nurses' Residence, affording accommodation for 27 nurses. A third engine room has been installed. The erection of an Isolation Hospital on the grounds is under consideration.

#### BELLEVILLE GENERAL HOSPITAL.

A Terrazo floor has been laid in operating room No. 2. An electric motor has been put in for operating the clevator. The second floor of nurses' quarters has been refurnished and redecorated. The roadway in the hospital grounds has been repaired under the supervision of the City Engineer, at a considerable outlay.

#### CHATHAM PUBLIC GENERAL HOSPITAL.

A new incinerator has been installed. The cottage for the help has been enlarged and remodelled. It is proposed to erect a new hospital to be known as the Soldier's Memorial Hospital, at an estimated cost of \$150,000.

### CHATHAM ST. JOSEPH'S HOSPITAL.

A new entrance porch costing about \$2,000 has been erected.

#### COBOURG GENERAL HOSPITAL.

The following improvements have been made: A complete X-ray equipment costing over \$4,000 has been installed. Surgical waggon fully equipped. Nurses' chart tables. "Toronto General" operating table. The hospital was also presented with a first class victrola.

## CORNWALL GENERAL HOSPITAL.

Two of the heating furnaces have been replaced; also the cylinder of the elevator has been renewed.

## CORNWALL HOTEL DIEU HOSPITAL.

The central heating plant has been completed during the past year, adding greatly to the comfort and cleanliness of the institution. An upright boiler has been put in for running the steam laundry. A new hardwood floor has been laid in the hospital kitchen, and the walls and ceiling have been painted white (vitralite). A concrete floor has been laid in the storeroom, also a new floor in sterilizing and anesthetic rooms.

## ESSEX COUNTY SANATORIUM.

Plans have been prepared and work is to commence at once on a separate residence for the physician-in-charge.

#### GALT GENERAL HOSPITAL.

A \$25,000 nurses' home has been donated and the present nurses' home is being converted into a maternity hospital at a cost of \$15,000.

#### GUELPH ST. JOSEPH'S HOSPITAL.

The building has been wired throughout and a new electric elevator installed. There are other minor improvements.

#### HAMILTON CITY HOSPITAL.

An addition has been made to the maternity building at a cost of \$25,000. A new admitting department has been provided. An enlarged dining-room for nurses and new sun-rooms. The ground floor in the new Alexandra wing has been fireproofed. Alterations are now being made in the Administration Building, which will provide new offices and rotunda. A nurses' home at Mount Hamilton Hospital has been completed, costing \$78,000.

#### HAMILTON ST. JOSEPH'S HOSPITAL.

The list of improvements is as follows: New refrigerating plant, costing \$2,800: a meat and bread slicer, \$175.00: a Hawleys' operating table; painting and decorating building including the operating and anesthetic room which has been done in enamel; new instruments, etc.

### HAILEYBURY PROVIDENCE HOSPITAL.

The prevalence of influenza epidemic called for greater accommodation and the Sisters gave up their own sleeping apartments and took up quarters in the unfinished part of the building. However, they have succeeded in finishing one wing of the fifth story and the staff will occupy the apartments there, thus providing more space for patients.

#### HAMILTON-THE MOUNTAIN SANATORIUM.

At the Grafton Infirmary two isolation wards have been provided and the bath and serving rooms have been entirely reconstructed. At the staff house a small refrigerator has been replaced by a large service room and a large built-in refrigerator. The shack for women has been enlarged to admit eight more beds, and the dressing-room greatly enlarged to enable patients to dress without crowding or confusion. A serving-room has been added in rear of this building so that trays can be taken directly to the patients without so much loss of heat as heretofore when the serving-room was some distance from the shacks. A serving-room is also being erected between the men's and traveller's shacks, in the male patients' quarters.

In addition to the above, nearly a mile of macadamized road was built throughout the grounds; and about the new infirmary the grounds have been graded and sodded and will be further beautified in a horticultural way. Four fire extinguishers, one for each floor of the hospital, have been provided.

#### KINGSTON GENERAL HOSPITAL

Improvements have been made to the buildings in refurnishing and fitting up the wards. Owing to the overcrowded condition of the hospital the superintendent's quarters have been taken over and equipped as a special ward. A larger hospital scheme is in contemplation and it is hoped that considerable progress will be made this year in its development.

#### LONDON ST. JOSEPH'S HOSPITAL.

An electric range has been placed in the kitchen, cost \$1,500, and two electric stoves have been presented to the hospital for use in two of the serving rooms. The Kay-Scheerer sterilizers are being replaced by new ones at a cost of about \$2,000.

## MATTAWA GENERAL HOSPITAL.

Several halls and rooms have been tiled and the walls enamelled; and the toilets have been replaced by more modern patterns. The operating and sterilizing rooms have had the wooden shelves replaced by glass ones. A substantial iron fence on a cement foundation, now enclose the premises.

#### NEW LISKEARD LADY MINTO HOSPITAL.

The influenza epidemic caused considerable outlay for extra beds and equipment, and the verandahs had to be fitted up to accommodate the increased number of patients.

## OTTAWA GENERAL PROTESTANT HOSPITAL.

A new X-ray plant has been installed costing \$5,500. It has been agreed to turn over to the city all the assets of the three of the hospitals, viz., St. Luke's, the Maternity, and the General Protestant, if the city will undertake to erect an up-to-date hospital and operate the same. The city has applied to the Legislature to be allowed to raise \$1,500,000 for this purpose, and the request has been granted.

## OTTAWA ROMAN CATHOLIC HOSPITAL.

The operating rooms and children's wards, damaged by fire, have been restored and greatly improved. The roof of the east wing has been converted into a sun garden for patients.

## OSHAWA GENERAL HOSPITAL.

The new surgical wing has accommodation for 25 patients on the first and second floors; the third floor is divided into operation rooms, doctors' room, dressing room, anesthetic room and laboratory. Sun rooms connect the old and new buildings. Other improvements are high pressure sterilizers, a new operating-room table, Gatch frame beds. metal bedside tables. All of these improvements were gifts from the citizens of the town. Five hundred dollars has also been contributed to equip a diet kitchen. The Ladies' Auxiliary has raised \$11,000 which enabled them to pay off the debt on the building.

## OWEN SOUND GENERAL AND MARINE HOSPITAL.

An X-ray machine and fluoroscope have been added to the equipment, costing \$3,000, and a small electric laundry outfit costing about \$400.

#### OTTAWA ROYAL SANATORIUM.

The City of Ottawa intends to increase the accommodation of this institution for thirty more patients, and application has been made to the Government of Ontario for permission to expend \$100,000 for this purpose.

#### OTTAWA MISERICORDIA HOSPITAL.

A large Kiosque has been built which keeps the children out of doors during the summer.

#### Peterborough Nicholls' Hospital.

A residence occupying large grounds has been purchased for a nurses' home. This releases a number of rooms in the main building which will now be available for patients.

## PETROLEA CHARLOTTE ENGLEHART HOSPITAL.

A maternity annex has been built and furnished complete by Mr. J. L. Englehart.

#### PETERBOROUGH ST. JOSEPH'S HOSPITAL.

Two electric elevators have been installed, one for patients and the other for food, at a cost of \$2,900. The nurses' home is to be enlarged.

#### PARRY SOUND GENERAL HOSPITAL.

The building has been completely re-wired, and the Knott, tube and conduit system installed. A stand pipe and chemical fire extinguishers have also been installed for fire protection. Improved toilet and bath facilities have been provided. A new electric washer for the laundry, and an electric cooking stove have been put in.

#### PARRY SOUND ST. JOSEPH'S HOSPITAL.

Three bathrooms have been equipped and a large verandah built for the comfort of the patients.

#### PORT ARTHUR ST. JOSEPH'S GENERAL HOSPITAL.

Two of the boilers of the steam plant have had underfeed stokers installed, costing \$4,000.

#### SAULT STE. MARIE GENERAL HOSPITAL.

The verandahs on the south and east side of the building have been converted into sun rooms, the western verandah has been rebuilt with brick intersections, and a new fire escape erected. The old furnace rooms have been converted into dining-rooms for nurses, maids and hired men. A Kewanee furnace has replaced the three old ones, giving more satisfactory results.

#### SARNIA GENERAL HOSPITAL.

The following improvements have been made: A new roof, a new Kewanee 50 h.p. boiler, a new washing machine, motor ambulance, and temporary nurses' home, incurring a total expenditure of \$10,850.00.

#### SUDBURY ST. JOSEPH'S HOSPITAL.

The installation of an X-ray equipment has proved very satisfactory both in fluoroscopy and radiography.

#### ST. CATHARINES CONSUMPTIVE SANATORIUM.

The laying of some hardwood floors and repainting of the institution inside and out, is the extent of work done during the year.

#### TORONTO-THE WOMEN'S COLLEGE HOSPITAL.

The new wing consists of three stories and basement, and is planned to form part of a larger scheme. In the basement is the Out-patient's Department, consisting of waiting room and lavatory, three clinical rooms and drug-room; there is also a pathological laboratory, three large store-rooms, soiled clothes room, and a boiler and fuel room. On the first floor is the public surgical department and one large ward of eight beds, and balcony; also semi-private wards on each side, and an observation ward, lavatory and service rooms. Between the old and new buildings is the dining-room for the staff. Second floor, accommodating the public obstetrical work, consists of a large ward of eight beds with balcony; two smaller wards, accouchment room, service rooms and lavatory; a babies' ward with balcony and two new bathrooms in old part of building. In the top flat is the operating department, which has large and small operating

rooms with anesthetic room between, doctors' wash room, sterilizing room, room for preparing dressings and an X-ray room. The new section is served with a fireproof staircase and a passenger elevator. A capacity of fifty beds for adult patients and twenty-five baby cots. A new nurses' home was purchased three doors north of the hospital.

## TORONTO-THE HOSPITAL FOR SICK CHILDREN.

Alterations have been made in the boiler room and additions to the boilers provided for. A considerable addition to the X-ray department is contemplated on account of a generous donation.

#### TORONTO FREE HOSPITAL FOR CONSUMPTIVES.

An up-to-date steam laundry plant has been installed. An addition has been made to the nurses' residence, comprising eight single rooms with bath-room, making a total of fifty-eight single rooms together with sitting-rooms, bath-rooms, dining-room and kitchen, all separated from the institution. A surgical room has been provided in the main building. A Pathescope moving picture machine has been provided in the main building, which provides weekly entertainment.

## TORONTO ORTHOPEDIC HOSPITAL.

A nurses' home has been provided outside of the building, which affords accommodation for ten more patients than formerly.

### WINDSOR HOTEL DIEU HOSPITAL.

The operating room has been remodelled and painted, and one more operating room added, making three in all; there are also anesthetic rooms and dressing rooms, total cost, \$5,000. A new X-ray apparatus has been installed, and two large rooms have been fitted up for it, at an outlay of \$3,000. A clinical laboratory has been fitted up at a cost of \$2,000. New fire escapes are being erected, fire-proof doors are being placed on all elevator shafts, and new fire extinguishers are in all the departments besides fire hose. A new dormitory has been fitted up for maids, costing \$2,000, which required an extension of plumbing and a new main pipe connection with the furnaces for heating the fourth floor; water supply for bath-rooms, and open skylights in the roof. A men's new surgical ward is nearly completed, at a cost of about \$1,500.

#### COUNTY HOUSES OF REFUGE.

There are now thirty-one Houses of Refuge in the Province of Ontario, with an average number of immates during the year of 1742. During the latter part of the year I had an opportunity of visiting a few of these institutions, and in nearly every instance I found these institutions well conducted and the immates provided with comfortable homes. As this was my first visit to these institutions, I had no knowledge of their previous conditions, and so was not in a position to compare conditions with previous years. In some instances criticisms were made and some improvements suggested. In nearly every ease these suggestions were received in a kindly manner, and I believe that an honest endeavour will be made to carry out the suggestions as indicated.

In some instances I noticed that there was no ward in the building as a hospital for the sick in the institution, nor yet was there a competent nurse to

look after them. Section No. 54 of the Official Regulations states as follows: "In every such public charity there shall be provided a quiet and comfortable ward or infirmary for men and a similar ward or infirmary for women, in which inmates who may at any time be ill or infirm may be cared for, and each Refuge must have a competent nurse to care for the sick and carry out the directions of the matron." This is very important, and I think this Regulation should be carried out in every institution.

Many of the Houses of Refuge in Ontario do credit to the counties which have erected and are maintaining them, and a great interest is taken in their management by the committee in charge. In nearly every instance, the superintendent and matron are well fitted for the position they hold. So much depends upon this and upon the human interest the superintendent and matron take in the aged and infirm inmates of the institution. The inmates should never be allowed to eare for themselves, but during the war on account of the great

scarcity of help, in many instances this had to be done.

While we have many splendid institutions throughout the Province. I am very sorry to say that there are yet a few of the counties which have not yet established a home for their indigent poor. I would like to draw the attention of these counties to the Act respecting Houses of Refuge which says that "The Corporation of every County which has not already established and creeted, shall forthwith establish and erect, and the Corporation of every County shall at all times maintain a House of Refuge for the reception of persons of the classes described in Section No. 14." It is the bounden duty of every county to establish a Refuge for its indigent poor. Now that the war is over, I hope they will take this matter into serious consideration.

The fire protection in an institution of this kind is of very great importance. Fire escapes are absolutely necessary and in an institution where the inmates are old and crippled, fire escapes should be constructed so as to afford easy access to the ground. In some instances I find the fire escapes inadequate and useless. In these instances I made certain recommendations, which I have every reason to believe will be carried out.

The result of the inspections I made during the past year, leads me to believe that an honest effort is being made to conduct the Houses of Refuge properly, and that everything is being done for the comfort and convenience of the inmates. A copy of each inspection was sent to the Honourable the Provincial Secretary and one to the Clerk of the county.

## CITY REFUGES RECEIVING GOVERNMENT AID.

There are now thirty-nine Refuges and Homes in the Province of Ontario, receiving Government aid. The total number of inmates in these Refuges during the year was 5101. The total expenditure for the maintenance of these Refuges for the year was \$587,338,06. Towards this expenditure the Government contributed \$71,220.77. This grant is computed at the rate of 7 cents per day per inmate. The balance of the expenditure is made up by contributions, municipal grants, etc.

During the year I visited a number of these Institutions and was very much pleased with the way they are managed. In nearly every instance they furnish a comfortable home for the old and helpless people committed to their care. In some instances criticisms were made and improvements suggested. The majority of these Institutions are carefully managed, and the inmates given every care and

attention. However, in some instances there is a tendency to overcrowding and imperfect ventilation. During the day the inmates should not be allowed to remain in the dormitories. These should be vacant during the day and the windows opened, so that the roooms may be thoroughly aired. The building should be of fireproof construction with proper facilities for escape in case of fire.

I think it is a mistake to encourage the establishment of these Institutions in the cities and towns of the Province. The only proper location is in the country, where the inmates may have the advantage of hygienic surroundings and the opportunity of engaging in open air work. The advantages that would be

experienced by removal to the country could hardly be estimated.

I find in many of these institutions the insane and feeble-minded; this is not as it should be. The insane should be placed in one of the Hospitals for the Insane where they could receive proper treatment for their particular mental condition. The feeble-minded should be removed to the Provincial Institution provided for those who are feeble-minded.

#### ORPHANAGES.

There are thirty-one Orphanages in the Province of Ontario receiving Government aid. The total expenditure for the maintenance of these charities during the year was \$314,092.03. The amount of Government grant received by these institutions was \$17,527.57. The number of children cared for at these institutions during the year, was 4,664, which was 431 more than last year. Although this is not a very hopeful sign, I find on inquiry that in many instances this increase in the number of inmates is ascribed to the fact that many of the children of the soldiers who are giving their services to their country, had to be provided for. After the war is over and the fathers return, we hope that many of these children will be returned to their homes.

My visits of inspection to a few of these institutions throughout the Province, lead me to believe that these institutions are with very few exceptions, conducted in a commendable manner. The domestic arrangements were found, in nearly every Orphanage, to be very carefully looked after. The children looked comfortable and happy, and seemed in every instance to be well cared for.

A great deal of credit is due to those in charge of these institutions, who give their time and very often their means, in order to look after these poor and unfortunate children. It has been said that the best institution is a poor substitute for a home. This is quite true, and there is a feeling abroad that some effort should be made to secure homes for these children where they would be in touch with the humanizing influences of home life and family affection. This might be done with a certain class of children, but institutions for the care of children will never be entirely abandoned, as there will always be a class of children who will always have to be maintained in our institutions no matter how extended the placing out system, because of the natural preference of foster parents for children of the better type.

#### FOOD PRODUCTION.

The Hospitals and Public Charities throughout the Province are to be congratulated upon their ready response to the call for more food production during the period of the war. Those who were fortunate enough to have a few acres of land, in many instances produced enough vegetables and fruit to supply the institutions for a year. This has been quite a help in keeping down the cost of

maintenance. The interest shown in this work by those interested augers well for the continuance of food production in our institutions, after the war is over.

## DENTAL SERVICE IN HOSPITALS.

The time has arrived when every hospital throughout the Province, particularly in its larger centres, should consider the advisability of establishing a dental service in connection with the hospital. This is considered necessary by many of the medical profession if the best interests of the hospital patients are to be served. This should be established upon the same basis as the medical and surgical service. This service could be made hygienic as well as curative. The medical profession are a unit to-day in believing that many of the ills that flesh is heir to are due to defective teeth and septic conditions in the oral cavity.

It was probably never clearly realized before the number of people who had defective teeth until we began examining recruits for overseas service. Thousands of men were rejected and this became so serious that the Militia Department opened dental clinics where these conditions were remedied and men made fit for service.

Medical inspection of schools has shown that at the initial inspection over 90 per cent, of the children have defective teeth which has a deteriorating influence on their school work besides being a menace to their health.

Many people cannot afford to pay for dental treatment and the teeth are neglected until their general health is impaired. For the deserving people of this class an outdoor dental clinic should be established in connection with the service where they could have free dental treatment. It is equally important that an adequate service should be given patients in the hospital. The various details of the service would have to be worked out according to the size and requirements of the particular community, but in any case the time is ripe for a beginning.

#### HOSPITAL ASSOCIATION.

I had the pleasure of attending the annual meeting of the American Hospital Association held at Atlantic City, September, 1918. The convention was very largely attended, about six hundred delegates being present.

All the papers and discussions were interesting and instructive, although dealing largely with war conditions in relation to our civic hospitals. One of the principal questions discussed was the problem of financing our institutions owing to the high cost of commodities and the shortage of domestic help. This has been a very serious problem in most hospitals during the war period.

A round table talk on matters affecting the smaller hospitals was very much appreciated.

These associations are very helpful to those engaged in hospital work, and I would like very much to see the Ontario Hospital Association revived, where those engaged in hospital work in this Province could get together and discuss matters which particularly affect hospitals in our own Province.

#### OFFICIAL REGULATIONS.

To those engaged in the management of Hospitals and Public Charities, attention is drawn to the fact that we have Official Regulations issued by the Department which are still in force, and which must be complied with. Boards of management and superintendents should make themselves familiar with these Regulations, so that they may conform to the wishes of the Department. In some cases this is not being done, and attention is drawn to this fact.

TABLE I.—Showing the general movements in each hospital separately.

Hospitals.	Location.	Capacity in beds.	Number remaining under treatment on 1st Oct., 1917.	Number admitted during the year ending 30th Sept., 1918.	Number of births in hospital during the year.	Total number under treatment during the year ending 30th Sept., 1918.	Number discharged during the year.	Number who died during the year.	Number remaining under treatment on 30th Sept., 1918.
Victoria Hospital Royal Victoria Hospital General Hospital General Hospital General Hospital Brant Sanitarium General Hospital Brant Sanitarium General Hospital St. Vincent de Paul Hospital Lady Minto Hospital General Hospital St. Joseph's Hospital Cottage Hospital Lady Minto Hospital Lady Minto Hospital Lady Minto Hospital General Hospital Lady Minto Hospital General Hospital Lady Minto Hospital General Hospital General Hospital Hotel Dieu Hospital Hotel Dieu Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital St. Joseph's Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital Gen	Chapleau Chatham Cobourg Cochrane Collingwood Cornwall Fergus Fort William Galt Goderich Gravenhurst Guelph Hamilton  "Haileybury Ingersoll Kenora Kincardine Kingston Kingsville Kitchener London "" Lindsay Mattawa Midland Niagara Falls New Liskeard North Bay Orangeville Orillia Oshawa Ottawa  "" Owen Sound Parry Sound Pembroke Peterborough Petrolea Petrolea Port Hope Renfrew St. Catharines St. Thomas Sannia SaultSte. Mar	140 25 26 36 30 20 20 20 20 20 20 20 20 20 20 20 20 20	59 30 12 13 14 17 18 18 18 18 18 18 18 18 18 18	0.8	20 63 3 114 25 58 89 26 31 3 38 29 39 16 200 100 20 20 20 20 20 20 20 20 20 20 20 20 2	133 133 134 1,221 2,095 44 1,036 1,145 216 217 216 217 217 217 217 217 217 217 217	117 578 1,130 220 1,1651 1,951 1,080 1994 1,080 1994 1,080 1994 1994 1994 1994 1994 1994 1994 199	8 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	84 409 114 480 108 327 167 89 411 108 327 815 108 327 815 108 327 815 108 327 815 108 327 815 108 327 815 815 816 816 817 817 818 818 818 818 818 818 818 818

TABLE I.—Showing the general movements in each hospital separately.—Concluded.

Hospitals.	Location.	Capacity in beds.	Number remaining under treatment on 1st Oct., 1917.	Number admitted during the year ending 30th Sept	Number of births in hospital during the year.	Total number under treatment during the year ending 30th Sept. 1918.		Number who died during the year,	Number remaining under treatment on 30th Sept., 1918.
Grace Hospital	Toronto	740 128	505 135	11.878 2,353	855 393	13.238 2,871	11,912	662 100	664 100
Hospital for Sick Children Orthopedic Hospital	******	250	183	4,865		5,048	4,487	359	202
The Preventorium		35 60	24 46	308		332 123	3.0	1	18
St. John's Hospital		40	19	332		351	314	11	41 26
St. Michael's Hospital	"	350	249	4,444	402	5.095	4.560	269	266
Wellesley Hospital	"	240	233	65		298	14	55	229
Western Hospital	"	75	57	1,698	212	1,967	1,863	32	72
Toronto Hospital for Incurables		253	166	4,020	514	1,700	4,236	278	186
Women's College Hospital		28	27	425	156	608	541	27	37
General Hospital	Walkerton	35	9	175	8	192	160	19	13
Toronto Free Hosp, for Con	Welland	50	27	1,146	40	1.213	1.126	65	22
Oueen Mary Hosp, for Children	<i>"</i> :::::}	390	317	453		770	264	181	325
Hotel Dieu Hospital	Windsor	150	46	1,525	175	1,746	1.559	131	56
General Hospital	Wingham	25	6	182	15	203	187	. 8	8
General Hospital	Woodstock	60	26	490	62	578	505	40	33
Totals for 1918 Totals for 1917	• • • • • • • • • • • • • • • • • • • •		5,732 5,287	98,339 91,013	8,360 7,365	112,431 103,365	100.318 92,583	5,669 5,651	6,444 5,43i
			1						

TABLE II.—Showing the collective stay in days of the adult and infant patients, also the average length of time each patient was under treatment.

Hospitals.	Location.	No. of patients, including infants born.	Collective stay of infants under one year of age.	Collective stay of adult patients.	Total collective stay of adults and infants.	Average stay of each patient, in-
Victoria Hospital Royal Victoria Hospital General Hospital General Hospital General Hospital General Hospital Brant Sanatorium General Hospital St. Vincent de Paul Hospital Lady Minto Hospital General Hospital St. Joseph's Hospital Cottage Hospital Cottage Hospital Cottage Hospital Cottage Hospital General and Marine Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital Royal Alexandra Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital St. Joseph's Hospital St. Joseph's Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital	Niagara Falls. New Liskeard. North Bay. Orangeville. Orillia. Oshawa. Ottawa.  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19.8 18.4 11.6 17.6 11.5 18.4 22.9 10.5 20.0 13.2 111.6 14.8 14.8 14.8 14.8 14.8 14.8 14.8 14.8

TABLE II.—Showing the collective stay in days of the adult and infant patients, also the average length of time each patient was under treatment.—Concluded.

Hospitals,	Location.	No. of patients. including infants born.	Collective stay of infants under one year of age.	Collective stay of adult patients.	Total collective stay of adults and infants.	Average stay of each patient, including infants.
St. Joseph's Hospital	Sudbury	1,755	1,237	31,035	32,272	12.6
General Hospital	Toronto	13,238	2,311	208,076	210,387	15.8
Grace Hospital		2,871	303	36,931	37,234	12.9
Hospital for Sick Children	"	5,048		70,153	70,153	13.8
Orthopedic Hospital	"	332	26	7,797	7.823	23.5
The Preventorium		123		16,268	16,268	13.2
St. John's Hospital		351	10	7.488	7.498	21.3
St. Michael's Hospital		5,095	894	92,070	92.964	18.2
Toronto Hospital for Incurables	"	298		85,693	85.693	253.8
Wellesley Hospital		1,967	2,564	21.267	23,831	12,1
Western Hospital	"	4,700	2	63,816	63,818	
Women's College Hospital			141	5,962 3,408	5,966 3,549	9.8
General Hospital	Walkerton		566	10,133	10,699	8.8
General Hospital	Welland	. 1,213	900	10,100	10,033	0.0
Toronto Free Hosp, for Consumptives	Weston	770		123,632	123.632	160.5
King Edward Sanatorium		110		100,000	140,00%	100.5
Queen Mary Hospital for Children	Windsor	1,746	1.905	18,989	20,894	11.9
Hotel Dieu Hospital			219	2,951	3,170	15.6
General Hospital	Woodstock		769	8.565	9.334	16.1
General Hospital	Woodstock	310			3,997	
Totals for 1918		112,431	109,887	2,099,894	2,209,781	19.6
Totals for 1917				1,884,856	1,984,461	19.2
10(01) 101 1011(	1		1 1			

TABLE III.—Showing the deductions which have to be made from the collective stay of patients for the protracted residence of incurables, lying-in cases, etc. For persons coming within these classes only seven cents per day is allowed.

Hospitals.	Location.	Collective days' stay, exclusive of infants under one year of age.	Deduct for incurables and lying-in cases for which only Refuge rate is allowed, also deduct the days stay of patients who paid over \$8.75 per week.	No. of days' stay for which hospi- tal allowance is made.
Victoria Hospital	Almonte	1,509	1,023	486
Victoria Hospital Royal Victoria Hospital General Hospital General Hospital General Hospital Brant Sanitarium	Belleville	16,133 15,637	8,984 8,353	7,149 7,284
General Hospital	Bowmanville Brantford	3,495	167	3.328
Brant Sanitarium	" " " " " " " " " " " " " " " " " " "	$\frac{29,059}{6,677}$	12,813	$16.246 \\ 6,677$
Brant Sanitarium General Hospital St. Vincent de Paul Hospital Lady Minto Hospital General Hospital St. Joseph's Hospital Cottage Hospital Cottage Hospital General and Marine Hospital General Hospital General Hospital Hotel Dieu Hospital McKellar General Hospital General Hospital General Hospital McKellar General Hospital General Hospital General Hospital General Hospital	Brantford  Brockville  Chapleau  Chatham	19,240	15,550	3,690
Lady Minto Hospital	Chapleau	$\frac{20,859}{3,174}$	13,107 832	7,752 $2,342$
General Hospital	Chatham	16,540	15,277	1,263
Cottage Hospital	Cobourg	12,292 $2,731$	10,682 34	1,610 2,697
Lady Minto Hospital	Cochrane	$\frac{5,020}{10,082}$	1,653	3,367
General Hospital	Cornwall	9,254	7.286 4.805	$2.796 \\ 4.449$
Hotel Dieu Hospital	Wongus	11,226 $7,532$	2,998 5,906	8,228 1,626
McKellar General Hospital	Fort William	22,908	15,818	7.090
General Hospital	Galt	15,033 $1,929$	10,177 1,326	4,906 603
Muskoka Cottage Sanitarium	Gravenhurst	20,672	1,5~0	20,672
Muskoka Free Hosp, for Cons General Hospital	Guelph	81,936 $21,914$	18,597	$81,936 \\ 3,317$
St. Joseph's Hospital	" " " " " " " " " " " " " " " " " " "	11,147	9,187	1,960
St. Joseph's Hospital	Hamilton	94,639 $28,729$	41,431 16,592	53,208 12,137
Mountain Sanitarium	14 TT-11-11-11-11-11-11-11-11-11-11-11-11-1	58,974		58,974
General Hospital	Ingersoll	$\frac{11,459}{3,216}$	1,994 317	9,465 2,899
General Hospital	Kenora	5,796	5,220	576
General Hospital	Kincardine	6,321 $1,572$	4,638	1,683 1,517
General Hospital	Kingston	59,131	41,869	17,262
Essex Health Association	Kingsville	35,725 $10,108$	20,292	15,433 10,108
Kitchener and Waterloo Hospital. General Hospital	Kitchener	12,205 $66,108$	11,118 47,003	1,087 19,105
St. Joseph's Hospital	London	30,118	26,623	3,495
General and Marine Hospital Muskoka Cottage Sanitarium Muskoka Free Hosp. for Cons. General Hospital St. Joseph's Hospital City Hospital City Hospital City Hospital City Hospital Mountain Sanitarium Providence Hospital General Hospital General Hospital General Hospital General Hospital Seneral Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital St. Joseph's Hospital General Hospital Essex Health Association Kitchener and Waterloo Hospital General Hospital St. Joseph's Hospital Queen Alexandra Sanitarium Victoria Home for Incurables	"	20,094 18,535	10,474	20,094 8,061
Victoria Home for Incurables. Ross Memorial Hospital General Hospital Lady Minto Hospital. General Hospital General Hospital General Hospital Gueen Victoria Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Protestant Hospital Roman Catholic Hospital Maternity Hospital	Lindsay	6,027	4,107	1,920
General Hospital	Mattawa	$9,269 \\ 3,167$	3,027 2,366	6,242 801
Lady Minto Hospital	New Liskeard	3,743	3,564	179
Queen Victoria Hospital	Niagara Falls	8,424 $5,314$	7,565 4,103	859 1,211
General Hospital	Orangeville	2,472	402	2,070
General Hospital	Oshawa	8,244 $7,406$	1,443	6,801 7,154
General Protestant Hospital	Ottawa	44,225	30,395	13,830
Maternity Hospital	"	$\frac{58,384}{7,485}$	37,243 5,871	21,141 $1,614$
Maternity Hospital Misericordia Maternity Hospital. Perley Home for Incurables. St. Luke's General Hospital. Boyal Sanatorium	"	16,361	13,378 9,296	3,183 6,361
St. Luke's General Hospital		15,657 $41,846$	33,624	8,222
Royal Sanatorium General and Marine Hospital General Hospital St. Joseph's Hospital General Hospital The Cottage Hospital General Hospital General Hospital	Owen Sound	$\frac{22,087}{9,057}$	321 8,111	21,766 $946$
General Hospital	Parry Sound	4,446	4,242	204
St. Joseph's Hospital	Pombroke	4,936 15,607	372 4,766	4,564 10,841
The Cottage Hospital	_ "	4,285	3,857	428
Nicholls' Hospital	Penetanguishene Peterborough	$\frac{1,379}{15,077}$	8,521	1,343 6,556
		7,892	3,863	4,029
Railway, Marine and Gen Hosp	Petrolea	$\frac{3,335}{10,522}$	314 947	$\frac{3,021}{9,575}$
ot. Joseph's Hospital		16,056	12,923	3,133
General Hospital Victoria General Hospital General and Marine Hospital	Port Hope Renfrew	$\frac{3,547}{7,516}$	4,000	2,866 3,516
General and Marine Hospital	St. Catharines	17,895	13,182	4,713 3,504
Amasa Wood Hospital	St. Thomas	$\frac{3,504}{8,349}$	3,521	4,828
General Hospital	Sarnia	11,301	8,592 13,391	2,709 5,304
Consumptive Sanatorium Amasa Wood Hospital General Hospital General Hospital General Hospital Royal Victoria Hospital Public Hospital	Bautt Bre. Marie	$\frac{18,695}{4,331}$	573	3.758
Public Hospital	Smith's Falls	$6,881 \\ 5,950$	931 1,613	5,950 4,337

TABLE III.—Showing the deductions which have to be made from the collective stay of patients for the protracted residence of incurables, lying-in cases, etc. For persons coming within these classes only seven cents per day is allowed.—Continued.

Hospitals.	Location.	Collective days' stay, exclusive of infants under one year of age.	Deduct for incurables and lying-in cases for which only Refuge rate is allowed, also deduct the days' who paid over \$7.00 per week.	No. of days' stay for which hospi- tal allowance is made.
General Hospital	Stratford	12,447	7,279	5,168
	Strathrov	3,562	512	3,020
St. Joseph's Hospital	Sudbury	31,035	17,612	13,425
General Hospital	Toronto	208,076	145,409	62,66
Frace Hospital	"	36,931		
Hospital for Sick Children		70,153	28,451	8,48
Orthopedic Hospital			30,538	39,61
The Preventorium		7,797	7,727	71
	44	16,268		16,26
		7,488	627	6,86
		92,070	46,439	15,63
Coronto Hospital for Incurables		85,693	53,332	32,36
Wellesley Hospital		21,267	21,017	25
Western Hospital		63,816	48,439	15,37
Women's_College Hospital		5,962	39	5,92
General Hospital	Walkerton	3,408	2,689	71
}eneral Hospital	Welland	10.133	602	9,53
Coronto Free Hos. for Con	Weston	)		
King Edward Sanatorium	**	123,632	1,206	122.42
Queen Mary Hosp, for Children	"	1,	1,1400	144114
Hotel Dieu Hospital	Windsor	18,989	7,350	11,63
General Hospital		2.951	2,615	33
General Hospital		8,565	4.968	3.59
Totals for 1918		2.099.894	1,070,475	1,029,41
Totals fer 1917		1,884,856	711.253	1,173,60

## TABLE IV.—Relative to income of Hospitals.

Hospitals.	Location.	Amount received from municipali- ties as a grant and for patients' maintenance.	Amount received from patients for board.	Amount received as income from property or investments belonging to hospital.	Subscriptions and donations of private individuals and incidental receipts.	Total receipts from all sources other than the Government grant.
St. Joseph's Hospital C. E. Englehart Hospital Ry., Marine & Gen. Hosp. St. Joseph's Hospital General Hospital General Hospital General Hospital General and Marine Hospital General and Marine Hospital General Hospital General Hospital General Hospital General Hospital General Hospital Foyal Victoria Hospital Public Hospital St. Francis' Hospital General Hospital General Hospital	Port Arthur Port Hope Renfrew St. Catharines St. Thomas Sarnia Sault Ste. Marie Smith's Falls Stratford	5,888 26 700 00 1,655 02 8,218 00 3,276 25 6,487 50 2,800 00 2,420 75 243 00 1,550 00 4,445 00	16,579 04 21,979 62 7,094 26 9,863 39 21,128 50 679 50 15,570 76 19,400 78 24,519 41 7,399 91 15,111 61 3,910 00 19,159 87	2,040 00 578 96 2,575 61 1,440 00 63 25 259 14 1,549 11 260 00 90 00 10,474 65 306 96 560 00 48 35 14 30 316 61 1,458 18 976 34 25 00	4,112 50  995 02 1,454 08 2,309 85 555 61 7,094 28 424 71 792 78 44,897 56 1,495 51 21,804 54 4,897 56 1,495 51 21,804 54 4,727 50 4,727 50 4,727 50 6,169 13 7,750 63 4,227 74 60 50 6,169 13 7,750 63 4,227 74 25,213 57  440 00 168 57 1,741 26 411 03 1,873 84 2,335 99 1,755 66 1,873 84 2,335 99 1,755 66 1,873 84 1,873 84 1,873 84 1,873 84 1,873 84 1,873 84 1,873 84 1,873 84 1,873 84 1,873 84 1,873 84 1,873 84 1,873 84 1,873 84 1,873 84 1,873 84 1,873 84 1,873 84 1,873 84 1,873 84 1,873 84 1,873 86 1,977 87 1,977 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077 97 1,077	\$ c. 4.708 55 17,553 85 18.306 8.70 19.1 14.492 11.1 10.320 13.1 15.994 81.1 14.492 15.1 14.492 15.1 14.492 15.1 14.60 16.1 16.0 16.0 16.0 16.0 16.0 16.0 1
General Hospital	Strathroy	1.374 50	5,481 18		1,036 40	7,892 08

TABLE IV.—Relative to income of Hospitals.—Concluded.

Hospitais.	Location,	Amount received from municipali- ties as a grant and for patients' maintenance.	Amount received from patients for board.	Amount received as income from property or investments belonging to hospital.	Subscriptions and donations of private individuals and meidental receipts.	Total receipts from all sources other than the Government graut.
St. Joseph's Hospital General Hospital Grace Hospital Hospital for Sick Children. Orthopedic Hospital The Preventorium St. John's Hospital Toronto Hos. for Incurables. Wellesley Hospital Western Hospital Western Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital	Toronto.  " " " " Walkerton. Welland. Weston. " " Windsor. Wingham.	65,545 18 11,306 40 1,811 25,527 09 37,380 20 37,160 48 1,449 62 1,710 00 2,000 00 127,518 51 1,813 25 700 00	21,308 79 126,102 12 107,092 69 11,688 70 5,252 34; 15,843 74 8,765 15 22,615 97	\$ C. 2,200 60 51,639 09 2,586 84 2,619 18 163 95 \$1 00 3,308 23 573 49-	93,715 11 8,222 65 331 38 1,924 17 7,131 30 41,350 74 14,513 86 379 66 878 63 1,647 86	\$ c. 44,834 54 680,332 87 79,300 62 79,300 62 194,646 54 24,941 36 116,640 77 23,139 44 169,415 98 103,047 98 17,840 97 7,840 97 19,491 66 381 47 7,860 17 17,668 85
Totals for 1918 Totals for 1917			2,508,157 21 2,002,576 05		712,919 83 332,923 09	4.556,601 31 3,368,901 11

## TABLE V.—Showing the basis on

	THE TO SHOW	ing the basis of
Hospitals.	Location.	Collective days' stay upon which Hospital grants are based.
Trinkania Tramital	Mmonte	400
Victoria Hospital Royal Victoria Hospital General Hospital General Hospital General Hospital	AlmonteBarrie	486 7,149
General Hospital	Belleville	7,284
General Hospital	Bowmanville	3,328
General Hospital	Brantford	16,246
General Hospital	Brockville	3,690
St. Vincent de Paul Hospital	Chapleau	7,752
General Hospital General Hospital St. Vincent de Paul Hospital Lady Minto Hospital General Hospital St. Joseph's Hospital Cottage Hospital Lady Minto Hospital Lady Minto Hospital General and Marine Hospital General Hospital Hotel Dieu Hospital Royal Alexandra Hospital McKellar General Hospital General Hospital	Chatham	2,342 1,263
St. Joseph's Hospital	Cobourg.	1,610
Cottage Hospital	Cobourg	2,697
Lady Minto Hospital	Cochrane	3.367
General and Marine Hospital	Collingwood	2,796
Hotel Dieu Hospital	Cornwatt	4,449 8,228
Royal Alexandra Hospital	Fergus	1,626
McKellar General Hospital	Fort William	7,090
General Hospital General and Marine Hospital General Hospital	Galt	4,906
General and Marine Hospital	Goderich	603
General Hospital	Guelph	3,317
St. Joseph's Hospital City Hospital		1,960 53,208
St. Joseph's Hospital	44	12,137
Providence Hospital	HaileyburyIngersoll.	9,465
General Hospital	Ingersoll	2,899
City Hospital St. Joseph's Hospital Providence Hospital General Hospital General Hospital St. Joseph's Hospital General Hospital General Hospital	Kenora	576
St. Joseph's Hospital	Kincardine	1.683
General Hospital	Kingston	1.517 17,262
Hotel Dieu Hospital		15.433
Kitchener and Waterloo Hospital	Kingston. Kitchener.	1.087
Hotel Dieu Hospital Kitchener and Waterloo Hospital General Hospital	London	19,105
	"	3,495
Victoria Home for Incurables	Lindsay	8,061 1,920
Victoria Home for Incurables Ross Memorial Hospital General Hospital General Hospital General Hospital	Mattawa	6,242
General Hospital	Midland	801
	Niagara Falls	859
Lady Minto Hospital Queen Victoria Hospital	Niagara Falls New Liskeard North Bay	179
Queen Victoria Hospital	North Bay	1,211
General Hospital	Orangeville	2,070 6,801
General Hospital General Hospital	Oshawa	7,154
Canaral Protestant Hospital	Ottawa	13,830
Roman Catholic Hospital  Maternity Hospital	44	21,141
Maternity Hospital	" "	1,614
Misericordia Maternity Hospital Perley Home for Incurables	"	3,183
Perley Home for incurables	44	6,361 8,222
St. Luke's General Hospital General and Marine Hospital General Hospital	Owen Sound	946
General Hospital	Parry Sound	204
General Hospital St. Joseph's Hospital General Hospital	_ "	4,564
General Hospital	Pembroke	10.841
Cottage Hospital		428 1,343
Nicholls' Hospital	Deterhorough	6,556
Ct Locoph's Hospital	"	4,029
Charlotte E. Englehart Hospital	Petrolea	3,021
Charlotte E. Englehart Hospital Railway, General and Marine Hospital St. Joseph's Hospital Conservation	Petrolea Port Arthur Port Hope Renfrew	9,575
St. Joseph's Hospital	Port Hone	3,133 2,866
General Hospital	Renfrew	3,516
General and Marine Hospital	St. Catharines	4,713
Victoria General Hospital General and Marine Hospital Amasa Wood Hospital	St. Thomas	4,828
General Hospital General Hospital	SarniaSault Ste. Marie	2,709
General Hospital	saurt Ste. Marie	5,304
Royal Victoria Hospital Public Hospital St. Francis' Hospital	Smith's Falls.	5,758
St. Francis' Hospital	16	4,337
General Hospital	Stratiord	5,168
General Hospital	Strathroy	3.020
St. Joseph's Hospital	Sudbury	13,423 62,667
General Hospital	Toronto	8,480
Grace Hospital  Hospital for Sick Children	"	39,615
Orthopedic Hospital	**	70
Orthopedic Hospital St. John's Hospital St. Michael's Hospital		6,861
St. Michael's Hospital	"	45,631
Toronto Hospital for Incurables		32,361 250
Wellesley Hospital Western Hospital	44	15,377
Women's College Hospital		5,923
General Hospital	Walkerton	719
General Hospital	Welland	9,531
Hotel Dieu Hospital	Windsor	11.639 336
General Hospital	Woodstock	3,597
	1	
Totals for 1918		666,994
Totals for 1917	1	837,755

\$ c. 145 80 2,144 70		cases for Hospital treatment.			Legislature o 1918.
2,144 70		\$ c.		\$ c.	\$ c.
	208	14 56 10 92			$\begin{array}{c} 160 \ 36 \\ 2.155 \ 62 \end{array}$
	156 546	38 22			2,223 42
2,185 20 998 40	167	11 69			1,010 09
4,873 80	4,297	300 79			5,174 59
1,107 00	3,885	271 35			1,378 95
2,325 60	2,633	184 31	110	523 75	2,509 91 1,255 26
702 60	413 1,981	28 91 138 67	410		517 57
378 90 483 00	438	30 66			513 66
809 10	34	2 38			811 48
1,010 10	930	65 10	723		1,978 95
838 80	1,299	90 93			929 73 1,368 95
1,334 70 2,468 40	775 1,056	54 25 73 92			2,542 32
487 80	1,242	86 94			574 74
2,127 00	1,965	137 55	124	155 00	2,419 55
1,471 80	4,504	315 28			1,787 08
180 90	14	98			181 88 1,003 29
995 10	127	8 89 12 46			600 46
588 00 15,962 40	178 15,228	1,065 96			17,028 36
3,641 10	1,017	71 19			3,712 29
2,839 50	1,319	92 33	675	843 75	3,775 58
869 70	317	22 19			891 89
172 80	2,036	142 52	467 450	583 75 562 50	899 07 1,246 88
504 90	2,564	179 48 3 85			458 95
455 10 5,178 60	55 10,467	732 69			5,911 29
4,629 90	6,970	487 90			5,117 80
326 10	203	14 21			340 31
5,731 50	13,574	950 18			6,681 68 1,136 07
1,048 50	1,251	87 57			3,151 48
2,418 30 576 00	10,474 426	733 18 29 82			605 82
1,872 60	103	7 21	9,3	1,241 25	3,121 06
240 30	85	5 95			246 25
257 70	402	28 14			285 84
53 70			. 161	205 00 122 50	258 70 487 55
363 30	25	1 75 28 14	98		649 14
621 00 2,040 30	402 372	26 04			2.066 34
2,146 20	252	17 64			2,163 84
4,149 00	4,663	326 41			4,475 41
6,342 30	13,127	918 89			7,261 19
484 20					484 20 1,842 01
954 90	12,673	887 11 65) 72			2,559 02
1,906 30 2,466 60	9,296 3,047	213 29			2,679 89
283 80	28	1 96			285 76
61 20	197	13 79	65	81 25	156 24
1,369 20	366	25 62	6	7 50	1,402 32
3,252 30	1,222	85 54			3,337 84 131 97
128 40	51 36	3 57 2 52			405 42
402 90 1,966 80	1,117	78 19			2,044 99
1,208 70	379	26 53			1,235 23
906 30	314	21 98			928 28
2,872 50	839	58 10	117	146 25 697 50	3,076 85 1,735 19
939 90	1,397	97 79 47 67	558	021 30	907 47
859 80 1,054 80	314	21 98			1,076 78
1,413 90	1,995	139 65			1,553 55
1,448 40	310	21 70			1,470 10
812 70	1,761	123 27			935 97 2,250 97
1,591 20	211	14 77	516 162	645 00 202 50	1,358 67
1,127 40	411 931	28 77 65 17	104	200 30	1,850 17
1,785 00 1,301 10	213	14 91			1,316 01
1,550 40	1,185	82 95			1,633 35
906 00	542	37 94			943 94
4,026 90	1,752	122 64	1,554	1,942 50	6,092 04 19,298 71
18,800 19	7,123	498 61			2,600 56
2,544 00 11 884 50	808 7,690	56 56 538 30			12,422 80
11,884 50 21 00	1,247	87 29			108 29
2,058 30	627	43 89			2,102 19
13,689 30	6,214	434 98			14,124 28
9,708 30	53,332	3,733 24			13,441 54
75 00	1 021	490 00	••		75 00 4,743 37
4,613 10 1,776 90	1,861	130 27 2 73			1,779 63
215 70	825	57 75			273 45
	602	42 14			2.901 44
2,859 30		23 94			3,515 64
2,859 30 3,491 70	342				
2,859 30 3,491 70 100 80	75	5 25			
2,859 30 3,491 70		5 25 45 08			106 05 1,124 18

TABLE V.—Showing the basis on which statutory aid is granted.—Continued.

Name of Institution.	Location.	Stay of Patients in weeks at \$3.00 rate.	Amount of Grant at \$3.00 per week.	Stay of Patjents in weeks at \$3.50 rate.	Amount of Grant at \$3.50 per week.	Amount Payable to each Institution for year 1918.
Brant Sanatorium  Muskoka Free Hospital for Consumptives Mountain Sanatorium Essex Health Association. Queen Alexandra Sanator'm Royal Sanatorium Consumptive Sanatorium The Preventorium Toronto Free Hospital for Consumptives Queen Mary Hospital for Children	Gravenhurst Hamilton Kingsville London Ottawa St. Catharines. Toronto	4,050 2-7 565 6-7	\$ c. 1,461 85 16,489 29 12,150 86 1,697 58 4,008 43 4,631 15 891 42 3,504 42	466 4-7 6,208 5-7 4,374 4-7 878 1-7 1,534 3-7 1,535 5-7 203 3-7 1,155 6-7	\$ c. 1,633 00 21,739 50 15,311 00 3,073 50 5,370 50 5,480 90 712 00 4,045 50 32,136 50	\$ c. 3,094 85 38,219 79 27,461 86 4,771 08 9,378 93 10,111 15 1,603 42 7,549 92 57,059 22
Totals for 1918 Totals for 1917		23,252 4-7 41,946 3-7	69,757 72 134,839 32	25,569 2-7	89,492 56	159,250 22 134,839 32

TABLE VI.—Showing the cost of maintaining the Hospitals, also the average daily cost per patient, etc.

Hospitals.	Location.	Collective days' stay, exclusive of infants under one year of age.	Cost of dietaries	Salaries, fuel, light, medicine, bedding and all other expenditure on maintenance account	Total expenditure for maintenance.	Average cost of each patient per day.
Victoria Hospital Royal Victoria Hospital General Hospital General Hospital General Hospital Brant Sanatorium General Hospital St. Vincent de Paul Hospital Lady Minto Hospital St. Joseph's Hospital Cottage Hospital Cottage Hospital Cottage Hospital Cottage Hospital Cottage Hospital Cottage Hospital Cottage Hospital General And Marine Hospital General and Marine Hospital General Hospital Hotel Dieu Hospital Royal Alexandra Hospital Royal Alexandra Hospital General Hospital General Hospital General Hospital General Hospital General Hospital St. Joseph's Hospital St. Joseph's Hospital Mountain Sanatorium Providence Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital St. Soseph's Hospital St. Joseph's Hospital St. Joseph's Hospital General Hospital General Hospital General Hospital General Hospital Essex Health Association Kitchener and Waterloo Hosp.	Almonto	1,509	\$ c. 1,201 88	\$ c. 3,857 06	\$ c. 5,058 94	3.35
Royal Victoria Hospital	. Barrie	16,133	5,467 21	12,007 85	17,475 09	1.08
General Hospital	Belleville	15,637 3,495	8,533 14 3,064 14	16.599 69 7.910 91	25,132 83 10,975 05	1.60 3.13
General Hospital	Brantford	29,059	20,159 54	58,593 73	78,753 37	2.71
Brant Sanatorium	Brockville	6.677	5,275 00 $11,470 42$	11.982 61 17.275 14	17,257 61 28,745 56	2.58
St. Vincent de Paul Hospital		20,859	14,964 69	17,225 07	32,189 76	1.56 1.86
Lady Minto Hospital	Chapleau	$\frac{3.174}{16.540}$	2,001 66 11,131 16	3,909 77 21,886 71	5,911 43 33,017 87	1.99
St. Joseph's Hospital	. Chatham	12,292	9,477 59	12,856 81	22,331 40	1.81
Cottage Hospital	Cochrane	2,731 5,020	2.541 94 2,049 53	$6.121 \ 51$ $6.582 \ 51$	8,663 45 8,632 94	3.17
General and Marine Hospital	. Collingwood	10.082	6,181 84	10,122 29	16.304 13	1.61
General Hospital	. Cornwall	9,254 $11.226$	5,205 15 8,232 51	13,743 60 10,881 21	18,948 75 19,113 75	2.04 1.70
Royal Alexandra Hospital	Fergus	7,539	5,337 17	10,956 32	16.293 - 49	2.16
McKellar General Hospital	· Fort William	22,908 15,083	$\begin{array}{r} 45,150 \ 11 \\ 10.873 \ 66 \end{array}$	40,000 77 15,188 30	55.150 88 26,061 96	1.73
General and Marine Hospital	Goderich	1.929	1,560 96	4.646 70	6,207,66	3.22
Muskoka Cottage Sanatorium	Gravenhurst	20.672 81,936	37,120 66 76,681 48	33,807 98 ' 131,932 23	70,928 64 208,613 71	3.43
General Hospital	Guelph	21.914	14,619 17	36,753 16	51.372 33	2.34
St. Joseph's Hospital		11.147 94,639	10,890 43 73,218 62	13,128 95 $193,275 65$	24.019 38 266,494 27	2,15 2,81
St. Joseph's Hospital	· Hamilton	28,729	20,237 76	28.224 56	48,462 32	1.68
Mountain Sanatorium		58,974 11,459	32,806 26 8,486 00	47,751 16 14,483 00	80,557 42 22,969 00	1.36
General Hospital	Halleybury	3.216	2,440 72	5.821 74	8.262 46	\$.56
General Hospital	Kenora	$\frac{5,796}{6,321}$	3,018 44 2,629 57	6.618 69 4.585 99	9,637 13 7.218 56	1.66
General Hospital	Kincardine	1,572	937 52	4.304 58	5.212 10	3.33
General Hospital	· Kingston	59,131 35,725	13,726 31 22,886 44	59,125 00 32.345 89	102,51 34 55,232 33	1.73
Essex Health Association	. Kingsville	10,108	4.874 99	10.833 12	-15.708 11	1.55
Kitchener and Waterloo Hosp	Kitchener	12,205 66,108	8.5a0 06 58,875 30	20.959 00 123,990 21	29,509 06 182,865 51	2.41
St. Joseph's Hospital	London	30,118	29.104 00	46.046 31	75.150 31	2.49
Queen Alexandra Sanatorium		*76.997 18.535	56.971 52 6.533 21	76,064 69 8,900 20	133,036 21 15,433 44	1.72
Ross Memorial Hospital	Lindsay	6,027	5,009 83	11.366 62	16.376 45	2.71
General Hospital	. Mattawa	0.269 3,167	3,194 78 1,300 05	7,279 90 6,595 53	9,474 68 7,895 68	1.02
General Hospital	Niagara Falls	5,424	6.471 33	13.830 53	20,201 86	2.41
Lady Minto Hospital	. New Liskeard	3.743 5.314	2,488 89 4,236 78		7,930 48 13,347 29	2.12 2.53
General Hospital	. North Bay	2.472	2,198 48	3,827 08	6,0%5 56	2.43
General Hospital	. Orillia	8,244 7,406	4.156 26 4.803 16	9,371 75	13.538 01 17.680 08	1.64
General Protestant Hospital	Ottawa	44.225	31.550 57	76,050 55	107.601 12	2.43
Roman Catholic Hospital	1	58,384 7,485	28.739 71 6.168 46	77.950 86 14.371 19	106,690 57 20,539 65	2.74
Misericordia Maternity Hosp		16,561	10,350 61	13,650 63	21,001 27	1.45
General Hospital Hotel Dieu Hospital Essex Health Association Kitchener and Waterloo Hosp. General Hospital St. Joseph's Hospital Queen Alexandra Sanatorium Victoria Home for Incurables. Ross Memorial Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Protestant Hospital Misericordia Maternity Hosp. Perley Home for Incurables Royal Sanatorium St. Luke's General Hospital General Hospital General Hospital General Hospital General Hospital St. Joseph's Hospital General Hospital C. E. Englehart Hospital St. Joseph's Hospital C. E. Englehart Hospital C. E. Englehart Hospital General Hospital C. Sanatorium St. Joseph's Hospital C. Sanatorium St. Joseph's Hospital C. Sanatorium St. Joseph's Hospital C. Sanatorium St. Joseph's Hospital C. Sanatorium St. Joseph's Hospital C. Sanatorium St. Joseph's Hospital C. Sanatorium St. Joseph's Hospital C. Sanatorium St. Joseph's Hospital C. Sanatorium St. Joseph's Hospital C. Sanatorium St. Joseph's Hospital C. Sanatorium St. Joseph's Hospital C. Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium Sanatorium		15.657 22,087	4,424 39 9,587 20	11,291 42 30,183 58	15,715 51 39,770 78	1.00
St. Luke's General Hospital		41,846	32,018 85	59,884 08	91,902 93	.) .).)
General and Marine Hospital	. Owen Sound	9,057	8.717 75 3.971 29	11,535 95 5,331 33	20.253 70 9.3 5 61	2.09
St. Joseph's Hospital	. rarry sound	4,446 4,936	3,800 75	3.89245	7.698 30	1.55
General Hospital	. Pembroke	15,607	7,843 31 3,890 46	12,983 38	20,826 69 13,002 89	1.33
The Cottage Hospital	Penetang	4,285 1,379	1,753 59	3.291 33	5.011 52	3.65
Nicholls' Hospital	. Peterborough	15,077	11.376 26	26.524 26	38,200 53 12,977 72	
C. E. Englehart Hospital	. Petrolea	7,892 3,885	4,72+61 2,833-79	8.218 11 7.664 75	10,498 54	3.15
Railway, Marine and Gen. Hosp	. Port Arthur	10.522	7.555 65	18.247 96	26,106 61 33,628 00	2.45
General Hospital	Port Hope	16,056 3,547	9.441 63 2.204 04	24.156 37 7.459 30	9,663 34	2.73
Victoria General Hospital	. Renfrew	7.516	4,491 03	11,831 96	16.3:0.99	2.17
Consumptive Sanatorium	. St. Catharines	17.895 3.504	2,162 07		39.889 89 6,261 26	
Amasa Wood Hospital	. St. Thomas	8.319	9,247 20	17,410 21	26,657 41	3.19
General Hospital	. Sarnia	11.301 $18.695$	9,638 76		\$4,690 07 41,991 95	2.19 2.24
Royal Victoria Hospital	louis services	4,331	3.051 65	10.680 82	13,730 47	3.17
General and Marine Hospital Consumptive Sanatorium Amasa Wood Hospital General Hospital General Hospital Royal Victoria Hospital Public Hospital St. Francis' Hospital General Hospital	. Smith's Falls	6.881 5.950	6.463 43 6.337 81	4.717 60	21.166 46 11,055 41	3.07
Conoral Hognital	Stratford	12,447			25.166 27	2.00

^{*} This includes military patients.

TABLE VI.—Showing the cost of maintaining the Hospitals, also the average daily cost per patient, etc.—Concluded.

Hospitals.	Location.	Collective days' stay, exclusive infants under o' year of age.	Cost of dietaries.	Salaries, fuel, light, medicine, bedding and all other expenditure on maintenance account.	Total expenditure for maintenance.	Average cost of each patient per day.
St. Joseph's Hospital General Hospital Grace Hospital Hospital Hospital Hospital Hospital Torthogodic Hospital The Preventorium St. John's Hospital St. Michael's Hospital Toronto Hospital for Incurables Wellesley Hospital Western Hospital Women's College Hospital General Hospital General Hospital Wing Edward Sanatorium Queen Mary Hosp. for Con. Wing Edward Sanatorium Hospital General Hospital Gueen Hospital Western Hospital Wing Edward Sanatorium Hospital Hospital Gueen Hospital Hospital Hospital	trathroy udbury oronto.  "" "" "" "" "" "" "" "" "" "" "" "" "	3.562 31,035 208,076 36,931 70,153 77,197 16,268 92,070 85,693 21,267 63,816 5,962 2,408 10,133 } 123,632 18,989 2,951 8,565	\$ c. 2.777 43 18.136 00 171.418 50 28.295 40 4.965 02 5.428 67 8.409 04 71.807 94 38.809 38 36.529 95 4.971 95 2.316 06 6.067 12 78.349 57 15.292 66 1.686 34 7.227 6	\$ c. 5.324 93 25.2456 86 70.336 84 184.546 89 23.307 64 9.369 78 15.404 88 115.741 59 74.212 90 74.212 90 126.690 34 12.450 21 5.807 137 15.699 10 162.173 02 17,443 99 6.658 54 8.051 54	\$ c. \$,102,36 756,875,36 98,632,24 225,724,13 28,272,66 14,798,45 23,813,92 193,549,53 113,021,44 94,601,32 167,385,84 94,601,32 167,385,84 94,601,32 17,422,16 8,136,49 21,766,22 240,522,59 32,736,65 8,345,22 18,043,21 4,906,231,76	\$ c. 2.27 1.47 3.49 2.66 3.21 3.62 3.18 2.10 1.32 4.44 2.62 2.92 2.34 1.94 1.72 2.82 2.10

TABLE VII.—Showing the proportion of maintenance of Hospitals paid by the Government.

	Governn	ileire,				
Hospitals.	Location.	Revenues on main- tenance account, exclusive of Gov- ernment grant.	Government grant in aid of mann- tenance.	Total revenue for maintenance.	Total expenditure for maintenance.	Percentage of Government grant to total expenditure for maintenance.
Victoria Hospital Royal Victoria Hospital General Hospital General Hospital General Hospital Brant Sanatorium General Hospital St. Vincent de Paul Hospital Lady Minto Hospital Cottage Hospital Cottage Hospital Cottage Hospital Lady Minto Hospital Cottage Hospital Lady Minto Hospital General Hospital Hospital Hotel Dieu Hospital Hotel Dieu Hospital Hoval Alexandra Hospital General Hospital Hoxel Hospital Hoxel Hospital Hoxel Hospital Hoxel Hospital Hoxel Hospital General Hospital General Hospital General Hospital General Hospital St. Joseph's Hospital St. Joseph's Hospital St. Joseph's Hospital St. Joseph's Hospital General Hospital St. Joseph's Hospital St. Joseph's Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital St. Joseph's Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital Ceneral Hospital Ceneral Hospital Ceneral Hospital Ceneral Hospital Ceneral Hospital Ceneral Hospital Ceneral Hospital Ceneral Hospital Ceneral Hospital Ceneral Hospital Ceneral Hospital Ceneral Hospital Ceneral Hospital Ceneral Hospital Ceneral Hospital Ceneral Hospital Ceneral Hospital Ceneral Hospital Ceneral Hospital Ceneral Hospital Ceneral Hospital Ceneral Hospit	Fergus. Fort William. Galt. Goderich. Gravenhurst. Guelph. Hamilton.  "Haileybury. Ingersoll. Kenora.  Kincardine. Kincardine. Kingstoll. Kenora.  Lindsay. Mattawa. Midland. Niagara Falls. North Bay. Orangeville. Orillia. Oshawa. Ottawa.  """  Owen Sound. Parry Sound. Pembroke. Penetang. Petrolea. Port Hope. Roderich.	9,676 98 24,846 86 30,457 98 8,701 60 15,419 87	\$ c. 350 39 4.491 02 4.1850 28 903 19 4.1855 90 3.015 43 1.061 01 2.515 43 1.061 01 2.515 43 2.516 55 2.516 55 2.516 55 2.516 55 2.516 55 2.516 55 2.516 55 2.516 55 2.516 55 2.516 55 2.516 55 2.516 55 2.516 55 2.516 55 2.516 55 2.516 55 2.516 55 2.516 55 2.516 55 2.516 55 2.516 55 2.516 55 2.516 55 2.516 55 2.516 55 2.516 55 2.516 55 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56 2.516 56	\$ C. 5,058 94 22,021 92 21,255 94 11,283 94 11,283 92 11,283 92 11,283 92 11,283 92 11,283 92 12,248 93 12,248 93 12,248 93 12,248 93 12,248 93 12,248 93 12,248 93 12,248 93 13,248 93 12,248 93 13,248 93 14,248 93 15,322 13 16,448 93 15,322 13 16,448 93 15,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 16,156 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90 29,305 11 20,498 54 16,322 90 20,836 63 34,688 63 34,688 63 34,688 63 34,688 63 34,688 63 34,688 63 34,688 63 38,890 83	8.9 19.9 4.8 5.2 6.5 8.7 4.6 6.5 8.7 4.6 9.5 8.1 10.2 2.6 8.5 8.1 10.2 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2
General Hospital Victoria General Hospital General and Marine Hospital Consumptive Sanatorium Amasa Wood Hospital General Hospital General Hospital Royal Victoria Hospital Public Hospital St. Francis' Hospital	Port Hope Renfrew St. Catharines St. Thomas Sarnia Sault Ste.Marie	8,701 60 15,419 87 38,392 27 4,660 68 22,480 45 23,957 09 38,261 42		16,322 99 39,889 89 6,258 40 24,479 46 24,794 01 41,327 22		5.5 3.7 25.5 7.5 3.3 7.3

^{*} This include: Military patients,

TABLE VII.—Showing the proportion of maintenance of Hospitals paid by the Government.—Concluded.

Hospitals.	Location.	Revenues on main- tenance account, exclusive of Gov- ernment grant.	Government grant in aid of main- tenance.	Total revenue for maintenance.	Total expenditure for maintenance,	Percentage of Government grant to total expenditure for maintenance.
General Hospital General Hospital St. Joseph's Hospital General Hospital Grace Hospital Hospital Grace Hospital Hospital for Sick Children Orthopedic Hospital The Preventorium St. John's Hospital St. Michael's Hospital Toronto Hospital for Incurables Wellesley Hospital Western Hospital Western Hospital General Hospital General Hospital General Hospital General Hospital General Hospital Gueen Mary Hosp. for Con. King Edward Sanatorium Queen Mary Hosp. for Children Hotel Dieu Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital	Walkerton Welland Weston Windsor Wingham Woodstock	44,834 56 680,322 83 79,300 20 194,646 50 24,941 30 11,640 78 23,139 41 169,415 98 103,047 96 126,102 12 158,767 03 13,408 98 7,840 97 19,491 60 166,381 49 30,035 17 7,860 17 17,068 82 4,556,601 31	\$ c. 1,241 73 6,266 40 25,060 43 5,528 00 18,639 48 383 65 6,836 15 1,514 90 16,247 18 9,973 48 9,973 48 1,257 92 1,257 92 47,306 15 2,706 59 212 67 1,122 47 382,946 97 335,615 50	\$ C. 28.109 93 8.519 29 51:100 96 705:383 26 84.828 20 213:285 98 25:324 95 18.476 93 24:654 31 185:663 16 113:021 44 126:137 22 169:556 35 14:666 18 8.152 84 22:163 59 213:687 64 32:741 76 8.072 84 18:191 29 4.939:548 28 3,704:516 61	\$ c. 25.166 27 8.102 27 8.102 27 8.102 29 45.772 40 726.875 38 221 225.724 13 28.272 40 28.272 40 28.272 60 113.021 44 17.422 16 8.136 49 21.766 22 243.522 59 32.736 65 8.345 22 18.043 21 4.906,231 78 3.813.848 19	4.2 7.7 13.6 3.4 5.6 8.2 1.3 46.2 6.3 8.3 8.8 12.2 19.6 8.2 2.5 6.4 7.80 11.3

TABLE VIII.—Showing the comparative cost per patient daily in the different Hospitals in periods of five years.

Hospitals.	Location.	1905	1910	1915	1916	1917	1918
		\$ c.	ŝ c.	\$ c.	\$ c.	\$ c.	\$ c.
Vletoria Hospital	Almonte		1.23	2.50	1.05	2.53	3,35
Vletoria Hospital	Almonte Barrle Belleville	1.63	1.14	1.31	1.21	2.09	1.08
	Bowmanville			1.73	1.99	2.31	3.13
General Hospital Brant Sanatorium General Hospital	Brantford	.78	1,19	1.75 1.90	1.92	2.21	2.71 2.58
	Brockville	1.39	1.12	1.47	2,19	1.69	1.19
St. Vincent de Paul Hospital	Chapleau	.81	1.16	1.18 2.67	1.39	1.61	1 56 1 86
Lady Minto Hospital	Chatham	10.	1.00	1.61	1.63	1.74	1.99
General Hospital St. Joseph's Hospital Cottage Hospital Lady Minto Hospital General and Marine Hospital General Hospital Hotel Dieu Hospital	Cohourg Cochrane	.72	.82 1.66	1.52	1.65 1.73	2.63	3.17
Lady Minto Hospital	Cochrane				2.16	2.31	1.71
General and Marine Hospital	Collingwood	.90	1.01	1.34	1.40	1.29	$\frac{1.61}{2.04}$
Hotel Dieu Hospital	Cornwall	,53	.75	.96	1.13	1.37	1.70
Hotel Dieu Hospital  Royal Alexandra Hospital  McKellar General Hospital	Fergus Fort William	1.08	1.52	2.16 1.90	2.43 1.64	2.37	2.16 2.40
General Hospital	Galt	1.12	1.55	1.19	1.70	2.02	1.73
General and Marine Hospital	Goderich	) = == (	1.73	2.05 4.71	2.31 3.00	2.36 3.22	3.22
Muskoka Cottage Sanatorium Muskoka Free Hospital for Cons	Gravenhurst	2.05	1.14	1.62	1.67	2.27	2.54
General Hospital	Guelph	1.16 .84	.95 1.03	1.43	2.02 1.16	2.43	2.34 2.15
City Hospital	Hamilton	1.14	1.37	• 1.53	1.63	1.87	2.81
General Hospital St. Joseph's Hospital City Hospital St. Joseph's Hospital Mountain Sanatorium	Guelph		1.02 .99	1.24	1.28	1.37	1.68 1.36
Providence Hospital	Hailorbury			1.97	1.59	1.68	2.00
General Hospital	Ingongoll		2.19	1.74	2.21	2.36 2.24	2.56 1.66
General Hospital St. Joseph's Hospital	Kenora	2.26	1.19	1.43	1.15	1.00	1 14
General Hospital	Kincardine	79	2.35	3.83	4,33 1,41	3.09 1.67	3.23 1.73
General Hospital General Hospital Hotel Dieu Hospital	Kincardine Kingston	.55	.65	1.03	1.09	1.43	1.54
Mowat Sanatorium				1.26	1,32	1.75	1.55
Essex Health Association Kitchener and Waterloo Hospital	Kingsville Kitchener	1.04	1.64	1.53	1.75	1.89	2.41
General Hospital	London	1.26 1.23	1.62	2.10 1.66	2.17 1.83	2.62 2.08	2.76
St. Joseph's Hospital				1.10	1.13	2.34	1.72
Victoria Home for Incurables		1.89	1.52	1.94	1.72	1.91	.83 2 71
Ross Memorial Hospital General Hospital General Hospital Lady Minto Hospital General Hospital Queen Victoria Hospital General Hospital General Hospital General Hospital	Lindsay Mattawa	.96	.91	.61	87	7.71	1.02
General Hospital	Midland	2.10	1.74	1.56	2.17 1.96	1.42	2.49 2.41
General Hospital	New Liskeard Niagara Falls		1.54	2.01	2.19	2.19	2.12
Queen Victoria Hospital	North Bay	1,00	1 07	1.80 2.00	1.85 2.84	2.69	2.53
General Hospital	Orangeville Orillia		1.12	1.40	1.48	1.52	1.64
General Protestant Hospital	Orillia Oshawa Ottawa	1.29	8.23 1.28	1.46	1.58 2.50	2.17	2.38 2.43
Roman Catholic Hospital	ottawa	81	1.02	1.04	1.44	1.44	1.82
Maternity Hospital	44	2.03	1.97	2,24	2.25	2.74 1.02	2.74
refley frome for incurables	"		1 20	1.73			1.00
St. Luke's General Hospital Royal Šanatorium	"	.87	1.62	1.49	1.88	1.89	1.80
Royal Sanatorium	Owen Sound		1.11	1.87	1.67	2.56	2 23
General Hospital St. Joseph's Hospital	Parry Sound			1.50	.67	2.15 1.27	2.09 1.55
General Hospital	Pembroke	.53	1.12	2.00	1.48	1.08 2.27	1.33
The Cottage Hospital	Penetang	Į.		2.47	2.06	3.35	3.65
General Hospital Nicholls' Hospital St. Joseph's Hospital	Peterborough	1.95	1.73	1.90	1.77	2.20 1.33	2.58 1.64
St. Joseph's Hospital	Petrolea			2.25	2.12	2.82	3.15
Railway, Marine and General Hosp	Port Arthur	1.09	1.84	1.70	1.56	1.88	2.48
St. Joseph's Hospital	Port Hope			2,21	1.69	2.12	2.72
Victoria General Hospital	Renfrew	1.49	1.11	1.30	1.33 1.70	$\frac{1.78}{2.12}$	2.17
General and Marine Hospital Consumptive Sanatorium	St. Catharines		1.14	.96	1.53	1.35	1.78
Amasa Wood Hospital	St. Thomas	1.92 1.63	1.97	2.15 1.28	1.76	1.84 2.62	3.19
General Hospital General Hospital	Sarnia Sault Ste.Marie.	.90	1.14	1.81	1.33	2.05	2.24
Royal Victoria Hospital				2.04	2.92	2.19	3.17
Public Hospital St. Francis' Hospital	Smith's Falls		.72	1.37	1.18	1.32	1.87
	Strotford	1.17	1.23	1.81	1.70	2.42	2.02
General Hospital St. Joseph's Hospital General Hospital	Sudbury	1.08	1.06	1.23	1.17	1.44	1.47
General Hospital	Tcrento	1.28	1.41	2.04	2.30	2.66	3.49

TABLE VIII.—Showing the comparative cost per patient daily in the different Hospitals in periods of five years.—Concluded.

Hospital-	Location.	1905	1910	1915	1916	1917	1918
		\$ c.	\$ c.	8 c.	8 c.	\$ c.	8 c.
race Hospital	Toronto		1,39	1.81	1.94	2.26	2.66
ospital for Sick Children	"	1.25	1.53	2.26	2,35	2.51	3.2
rthopedic Hospital	**	1.10	1.39	1.64	1.35	2.54	3.6
he Preventorium	"			.75	.84	.97	.91
t. John's Hospital						3.11	3.1
t. Michael's Hospital		.90	1.00	1.56	1.57	1.95	2.10
oronto Hospital for Incurables							1.3
[ellesley_ Hospital							4.4
estern Hospital					1.88	2.08	2.6
'omen's College Hospital						2.55	2.9
eneral Hospital	Walkerton	2.66	2.27	1.55	2.21	2.56	2.3
eneral Hospital	Welland			1.27	,95	1.31	2 1
oronto Free Hos, for Consumptives			1.35)				
ing Edward Sanatorium			1.47	1.61	1.65	1.99	1 9
ueen Mary Hospital for Children							١
otel Dieu Hospital	Windsor		1.04	1.76	1.61	2.02	1.7
eneral Hospital				2.28	2.38	2.47	2.8
eneral Hospital	Woodstock	1.87	1.34	1.42	1.56	1.97	2.1
Averages		1.13	1.26	1.64	1.71	2.02	2.2

## SEPARATE REPORTS.

## VICTORIAN HOSPITAL, ALMONTE.

The following summaries show the operations of the Hospital during the official year:

Movements of Patient	8.		Expenditures.	Jai.
Number under treatment, 1st October, 1917 Admitted Births in Hospital		5 98 30	Butter and eggs	7 87 2 81 8 86 3 20
Total number under treat- ment	:	133	Potatoes and other vegetables 3- Groceries and provisions not	3 25 4 01
Discharged		1 <b>17</b> 8		1 88 2 06
ber, 1918		8	ances 6-	1 79
Sex.	]	133		2 50
Male		47 86	and cleaning appliances 4	<b>9</b> 97
Revenue.	1	L33		1 18 1 60
From the Province of Ontario From the Town of Almonte From the County of Lanark From other municipalities From endowments, invest-	\$350 200 100 160	$\begin{array}{c} 00 \\ 00 \end{array}$	Contingencies         126           Repairs, ordinary         96           Ice         38           Printing, stationery, etc.         65	86 41 5 21 8 50 8 30
ments, etc	<b>37</b> 0	39	0	9 92
- maintenance and treatment. From subscriptions, donations and bequests from private	<b>2.22</b> 3	34	Total	
individuals	1,337 317			
Total	\$5,058	94		

## ROYAL VICTORIA HOSPITAL, BARRIE.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients.	
Number under treatment, 1st October, 1917 Admitted Births in Hospital	19 552 63
Total number under treatm-	634
Discharged	578 22
ber, 1918	634

Sex.	
Male	257 377
	634
Revenue.	
From the Province of Ontario From the Town of Barrie From the County of Simcoe From other municipalities From patients for maintenance From endowments, investments, etc From subscriptions, donations	\$4,491 02 641 25 500 00  14,699 85 482 50
and bequests from private individuals	539 14 671 16
Total	\$22,024 92

## ROYAL VICTORIA HOSPITAL, BARRIE.—Continued.

Expenditures.		• Fuel	1,246	21
		Electric light, gas, oil and	,	
D 1 1 1	01 (05 00		0.51	4.
Butchers' meat	, ,	candles	271	
Butter and eggs	1,039 70	Water	164	86
Flour, bread and meal	611 99	Ice supply	26	63
Milk	587 08	Salaries and wages	4.186	70
Tea and coffee		Electric power elevator	80	
Potatoes and other vegetables	721 - 67	Contingencies	818	99
Groceries and provisions, not		Repairs, ordinary	2.097	71
• /	1,470 92	Taxes and insurance	130	-
enumerated	*		130	00
Drugs and medicines	540 54	Surgical instruments		
Medical and surgical appli-		_		
ances	1.233 87	Total \$	17 475	09
	- /	10(α1 φ	11,110	00
Beer, wine and spirits	<b>50</b> 00			
Bedding, napery and general		Government grant for 1918	\$2,155	62
house furnishings	699 63			
	300 30			
Brooms, brushes, mops, soap				
and cleaning appliances	459 95			
-				

## GENERAL HOSPITAL, BELLEVILLE.

The following summaries show the operations of the Hospital during the official year:

Movements of patients	·.	Expenditures.		
Number under treatment, 1st		Butchers' meat	\$2,246	06
October, 1917	30	Butter and eggs	1.561	
Admitted	1.077	Flour, bread and meal	983	
Births in Hospital	114	Milk	1.350	
Births in Hospital	114	Tea and coffee	242	
Total number under treat-		Potatoes and other vegetables.	601	
ment	1,221	Groceries and provisions not	001	30
Discharged	1,130	enumerated	1 547	24
Died	51	Drugs and medicines	1.085	
Under treatment, 30th Sptem-	91	Medical and surgical appli-	1,000	00
ber, 1918	40	ances	1,373	83
ber, 1918	40	Beer, wine and spirits	1,010	
_	1,221	Bedding, napery and general		
sex.	1,221	house furnishings	1.078	52
sea.		Brooms, brushes, mops, soap	1,010	02
Male	550	and cleaning appliances	386	07
Female	671	Fuel	2,831	
remaie	011	Electric light, gas, oil and	2,001	11
-	1,221	candles	660	55
Danamya	1,221	Clothing for patients		50
Revenue.		Ice supply	129	
From the Drawings of Ontonia	\$1.696 28	Salaries and wages	6,972	
From the Province of Ontario	1,600 00	Contingencies	741	
From the City of Belleville	400 00	Repairs, ordinary	772	
From County of Hastings From patients for mainten-	400 00	Stationery and printing	185	
ance and treatment	27.680 05	Taxes, insurance and interest.	381	
Income from endowments, in-	21,000 00	Taxes, insurance and interest.		
vestments, etc	149 00	Total	\$25 132	83
From subscriptions, donations	149 00	10(a1	Ψ=0,±0=	00
and bequests from private		Government grant for 1918	\$2 223	42
individuals	801 80	dovernment grant for 1010	ψ <u>υ,</u> σωο	
From other sources	1.148 86			
riom other sources	1,140 00			

Total ......\$33,475 99

#### GENERAL HOSPITAL, BOWMANVILLE.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients		Expenditures.	
Number under treatment, 1st October, 1917 Admitted Births in Hospital	12 215 25	Butchers' meat       \$723 15         Butter and eggs       579 06         Flour, bread and meal       202 40         Milk       332 70         Tea and coffee       \$2 80	)
Total under treatment	252	Potatoes and other vegetables 95 90 Groceries and provisions not	
Discharged	220 23	enumerated	
ber, 1917	9	ances	
	252	Beer, wine and spirits 80 25 Bedding, napery and general	
Sex.		house furnishings 719 68 Brooms, brushes, mops, soap	3
Male Female	$\begin{array}{c} 93 \\ 159 \end{array}$	and cleaning appliances 10 70 Fuel	1
	252	Light: gas, oil and candles	3
Revenue.		Stationery, printing, postage, etc	
From the Province of Ontario	\$963 19	Contingencies 956 33	3
From Town of Bowmanville From County of Durham	$800 00 \\ 300 00$	Repairs, ordinary         224 30           Laundry         374 70	)
From patients for maintenance and treatment	7,961 23	Taxes and insurance 24 64 Hay and straw	
From subscriptions, donations, and bequests from private		Water supply 48 33	-
individuals From all other sources	152 00 1,106 90	Total\$10,975 05	)
Total	<del></del>	Government grant for 1918 \$1,010 09	)

## GENERAL HOSPITAL, BRANTFORD.

The following summaries show the operations of the Hospital during the official year:

	- •	- 0	•
Movements of Patients.		Revenue.	
Number under treatment, 1st		From the Province of Ontario \$4,1	35 90
October, 1917	95	From the City of Brantford 32,8	32 65
Admitted	1,835	From the County of Brant 1,5	00 00
Births in the Hospital	165	From other municipalities 2	50 00
		From patients for maintenance	
Total number under treat-			33 60
ment	2,095	Income from endowments, in-	
	ĺ	vestments, etc	1 89
Discharged	1.851	From subscriptions, donations	
Died	128	and bequests from private	
Under treatment, 30th Septem-			22 00
ber, 1918	1 <b>1</b> 6	From all other sources 2,6	54 67
	2,095	Total \$79,2	30 71
	_,,,,,		
sex.		Expenditures.	
Male	875	Butchers' meat \$5,2	99 83
Female	1,220		69 88
remate	1,220		02 20
	2.095		04 26
	4,000	MIII 2,0	V = 20

#### GENERAL HOSPITAL, BRANTFORD.—Continued.

Tea and coffee	865 10	Electric light, gas, oil, candles 844 06
Potatoes and other vegetables	2.097 30	lce
Groceries and provisions not	2,000.00	Salaries and wages 20,335 19
enumerated	3.120 97	Taxes and insurance 118 69
Drugs and medicines	4,631 55	Printing, stationery, etc 832 54
Medical and surgical appli-		Contingencies 8,687 40
ances and surgical instru-		Repairs, ordinary 682 77
ments	3,882 48	Hay and straw 497 26
Beer, wine and spirits	223 75	Coffins and funerals
Bedding, napery and general		
house furnishings	2.572 71	Total \$78,753 27
Brooms, brushes, mops, soap		
and cleaning appliances		Government grant for 1918 \$5,174 59
Fuel	13,713 33	I fam.

#### THE BROCKVILLE GENERAL HOSPITAL.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients	
Number under treatment, 1st October, 1917 Number admitted Births in Hospital	36 926 74
Total number under treat- ment	1,036
Discharged	$\begin{array}{c} 954 \\ 36 \end{array}$
ber, 1918	46
	1,036
Sex.	
Male	572 464
Revenue.	1,036
From the Province of Ontario From the Town of Brockville From the Counties of Leeds	\$1.061 04 2.000 00
and Grenville	• • • • •
the Province	23,755 05
From property belonging to the Hospital	1,152 34
From subscriptions, bequests and donations from private individuals	2,357 13
Total	\$30,325 56

## Expenditures.

Da penattures.	
Butchers' meat	
Butter and eggs	2,300 81
Flour, bread and meal	1,055 17
Milk	1,452 10
Tea and coffee	185 72
Potatoes and other vegetables Groceries and provisions not	336 40
enumerated	2,507 31
Drugs and medicines	869 63
Medical and surgical appli-	
ances	957 38
Bedding, napery and general	
house furnishings	878 58
Brooms, brushes, mops. soap	440.05
and cleaning appliances	146 97
Fuel	2,596 53
Electric light, gas, oil, candles	1,032 87
Water supply	104.05
Ice supply	134 35
Salaries and wages	7,381 10
Taxes and insurance	117 65
Contingencies	691 60
Repairs, ordinary	1,193 48
Ambulance	194 50
Printing, stationery, etc	35 75
Laundry expenses	1,044 75
Surgical instruments	
	200 545 50
Total	\$28,745 56
Government grant for 1918	\$1,378 95
1	

## ST. VINCENT DE PAUL HOSPITAL, BROCKVILLE.

The following summaries show the operations of the Hospital during the official year:

Movements of Patient	s.	Expenditures.	
Number under treatment, 1st	4.5		52 57
October, 1917	47		33 67
Admitted	1,075		1 20
Births in Hospital	63		3 46
-			31 <b>2</b> 2
Total number under treat-			3 61
ment	1,185	Groceries and provisions not	
			2 95
Discharged	1,080		1 48
Died	47	Medical and surgical appli-	
Under treatment, 30th Septem-			7 32
ber, 1918	58	Bedding, napery and general	
-			5 61
	1,185	Brooms, brushes, mops, soap	
Sex.		and cleaning appliances 6'	9 06
		Fuel 3,5	6 42
Male	510		0 39
Female	675		1 76
-		Clothing for sisters, including	
	1,185	boots and shoes 21	5 29
Revenue.		Ice supply 27	6 00
			8 45
From the Province of Ontario	\$2,931 35		8 43
From the Town of Brockville	2,000 00		5 06
From other municipalities	252 75		4 50
From paying patients	21,882 01		9 31
From subscriptions, bequests	- ,		5 00
and donations from private			1 00
individuals	1.977 45		6 00
From other sources, not enum-	_,		
erated	3,266 16	Total \$32.18	9 76
Total	\$32,309 72	Government grant for 1918 \$2,50	9 91

## LADY MINTO HOSPITAL, CHAPLEAU.

The following summaries show the operations of the Hospital during the official year:

The following dammarios show the	орегиен	and of the Hospital dalling the oliteral year.
Movements of Patients.		Revenue.
Number under treatment, 1st October, 1917 Admitted Births in Hospital	9 176 27	From the Province of Ontario \$454 47 From the Town of Chapleau
Total number under treat- ment	212	and bequests from private individuals
Discharged	194 8	Total \$8,234 69
ber, 1918	10 212	Expenditures.
Sex.	1	Butchers' meat and fish       \$356 89         Butter and eggs          Milk       175 60
Male Female	138 74	Tea and coffee  Potatoes and other vegetables  Groceries and provisions not
	212	enumerated

## LADY MINTO HOSPITAL. CHAPLEAU.—Continued.

Drugs and medicines)	100 - 7	1 Ice	60 00
Surgical and medical appliances	199 51	Sa'aries and wages Taxes and insurance, tele-	2,889 25
Beer, wine and spirits		phone and power	225 00
Bedding, napery and general		Stationery, printing, etc	$15 \ 25$
house furnishings	43 94	Contingencies	24 40
Fuel	151 50	Repairs, ordinary	
Brooms, brushes, mops, soap		Hay and straw	:
and cleaning appliances	156 89	_	
Electric light, gas, oil and		Total	\$5,911 43
power	76-58		
Water supply	67 - 50	Government grant for 1918	\$1,255 26

## GENERAL HOSPITAL, CHATHAM.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients.	Expenditures.
Number under treatment, 1st October, 1917 Admitted Births in Hospital	Butchers' meat \$2,234 28 31 Butter and eggs 518 25 899 Flour, bread and meal 930 53 58 Milk 1,719 18 Tea and coffee 902 55
Total number under treat- ment	Potatoes and other vegetables 674 06 Groceries and provisions not enumerated
Discharged	893 Drugs and medicines 842 10 46 Surgical instruments 951 18 Beer, wine and spirits
ber, 1918	Bedding, napery and general house furnishings 2,870 64 Brooms, brushes, mops, soap
Sex.	and cleaning appliances
MaleFemale	574 Salaries and wages 9,366 46 Insurance and interest 53 70 Contingencies 640 42
Revenue.	Repairs, ordinary 3,371 80 Laundry 1,207 00
	Total\$33,017 87
From the County of Kent From other municipalities of	Government grant for 1918 \$517 57
From subscriptions, donations and bequests from private	244 59
individuals From all other sources	······

Total ......\$35,063 82

#### Expenditures.

Butchers' meat	\$2,234	28
Butter and eggs	518	25
Flour, bread and meal	930	53
Milk	1,719	18
Tea and coffee	902	55
Potatoes and other vegetables	674	06
Groceries and provisions not		
enumerated	4,152	31
Drugs and medicines	842	10
Surgical instruments	951	18
Beer, wine and spirits		
Bedding, napery and general		
house furnishings	2,870	64
Brooms, brushes, mops, soap		
and cleaning appliances		
Fuel	1,284	28
Electric light, gas, oil, candles	1,229	<b>1</b> 3
Ice	70	00
Salaries and wages	9,366	46
Insurance and interest	53	
Contingencies	640	42
Repairs, ordinary	3,371	80
Laundry	1,207	00
Total	<b>\$</b> 33,017	87
		1

## ST. JOSEPH'S HOSPITAL, CHATHAM.

The following summaries show the operations of the Hospital during the official year:

Movements of Patient	S.
Number under treatment, 1st Cctob r, 1917 Admitted Births in Hospital	$\frac{39}{747}$
Total under treatment	875
Discharged	
Sex.	875
Male	326 549
Revenue.	875
From the Province of Ontario From the City of Chatham From the County of Kent From patients for maintenance and treatment	420 40
Total	\$22,488 93

Expenditures.		
Butchers' meat	\$1,867	17
Butter and eggs	2,174	05
Flour, bread and meal	1,426	37
Milk	938	61
Tea and coffee	486	18
Potatoes and other vegetables	474	50
Groceries and provisions not		
enumerated	2,080	71
Drugs and medicines	600	
Medical and surgical appli-		
ances	419	25
Beer, wine and spirits	19	60
Bedding, napery and general		
house furnishings	1,097	12
Brooms, brushes, mops, soap		
and cleaning appliances	595	66
Fuel	1,529	66
Light: electric, gas, oil, can-		
dles	242	56
Ice supply	180	00
Salaries and wages	3,043	85
Taxes, insurance and interest	1,209	50
Contingencies	503	66
Repairs, ordinary	3,281	94
Advertising, printing and post-	,	
age	133	08
Total	\$22,334	40
Government grant for 1918	\$513	66

# COTTAGE HOSPITAL, COBOURG.

Movements of Patients.	
Number under treatment, 1st October, 1917 Admitted Births in Hospital	14 174 28
Total number under treat-	216
Discharged	194 12
ber, 1918	10
Sex.	· 216
Male	$\begin{matrix} 84 \\ 132 \end{matrix}$
	216

Revenue.		
From the Province of Contario From the Town of Cobourg	\$854 42	
From the Counties of North- umberland and Durham From other municipalities in	500	
the Province	200 5,970	
From endowments, investments, etc		
etc	1,420 33	
Total	\$9,022	22

## COTTAGE HOSPITAL, COBOURG.—Continued.

Expenditures.		Fuel	887	
		Water	72	01
Butchers' meat and fish	\$669 71	Electric light, gas, oil	246	34
Butter and eggs	482 59	Salaries and wages	2,946	63
Flour, bread and meal	333 54	Contingencies	559	46
Milk	374 95	Repairs, ordinary	107	80
Tea and coffee	156 62	Printing, stationery, postage,		
Potatoes and other vegetables	<b>56 4</b> 0	etc	105	72
Groceries and provisions not		Ice	40	00
enumerated	356 04	Insurance	70	18
Drugs and medicines	106 95	Clothing for patients		
Medical and surgical appli-		Wine and spirits		
ances	405 77	-		_
Bedding, napery and general		Total	\$8,663	45
house furnishings	540 24	Government grant for 1918	\$811	48
Brooms, brushes, mops, soap				
and cleaning appliances	144 78			
S	ı			

# LADY MINTO HOSPITAL, COCHRANE.

Movements of Patients		Expenditures.		
Number under treatment, 1st October, 1917 Admitted Births in Hospital	17 225 31	Butchers' meat  Butter and eggs  Flour, bread and meal  Milk  Tea and coffee	\$489 364 291 295 23	85 78
Total number under treat- ment	<b>27</b> 3	Potatoes and other vegetables. Groceries and provisions not	234	80
Discharged	249 14	enumerated	349 160	
Under treatment. 30th September, 1918	10	pliances	311 7	$\begin{array}{c} 76 \\ 12 \end{array}$
Sex.	273	Bedding, napery and general house furnishings Brooms, brushes, mops, soap	310	55
Male Female	151 122	and cleaning appliances  Fuel  Electric light, gas, oil, candles  Laundry	105 704 206 593	20 71
Revenue.	273	Clothing for patients  Ice	$\frac{64}{3.570}$	50
From the Province of Ontario From the Town of Cochrane From patients themselves for maintenance and treatment. From property belonging to Hospital. endowments, etc	\$758 38 250 00 3,367 25	Taxes and insurance Hay and straw Contingencies Printing, stationery, etc. Repairs, ordinary Coffins and funerals	260 17 51 74 74	
From subscriptions, donations, and bequests from private individuals	2,050 90	Total	\$8,632	04
From other sources	258 95	Government grant for 1918	\$1,978	95
Total	\$6,685 48	,		1

#### GENERAL AND MARINE HOSPITAL, COLLINGWOOD.

The following summaries show the operations of the Hospital during the official year:

Number of births in the Insti-	33 97 33
Total number under treatment 4	73
Died	18 27 28
Sex.	73
	01 72
Revenue,	73
Received from the Province of Ontario	$\begin{array}{c} 00 \\ 00 \\ 90 \end{array}$

Expenditures.		
Butchers' meat	\$1,531	06
Butter and eggs	1,211	92
Flour, bread and meal	654	
Milk	843	09
Tea and coffee	315	
Potatoes and other vegetables	191	
Groceries and provisions not	201	• 0
enumerated	1,433	48
Drugs and medicines	759	
Medical and surgical appli-	•••	
ances	822	93
Beer, wine and spirits	13	
Bedding, napery and general		
house furnishings	488	79
Brooms, brushes, mops, etc	217	91
Fuel	2.084	93
Electric light, gas, oil, candles	171	- 0
Water supply	89	21
lce	110	00
Salaries and wages	4,224	13
Contingencies	326	
Repairs, ordinary	801	64
Taxes and insurance	12	75
Total	\$16,304	13

Government grant for 1918 .. \$929 73

## GENERAL HOSPITAL, CORNWALL.

The following summaries show the operations of the Hospital during the official year:

Total under treatment, 1st	
October, 1917	25
Admitted	503
Births in Hospital	38
Total number under treat-	
ment	<b>5</b> 66
Discharged	509
Died	25
Under treatment, 30th Septem-	
ber, 1918	32
	566
N. S. S. S. S. S. S. S. S. S. S. S. S. S.	73-
Sex.	
Male	242
Female	324
	566

Movements of Patients.

From the Province of Ontario	\$1,161	83
From the Town of Cornwall	825	00
From the Counties of Stor-		
mont, Dundas and Glengarry	1,000	00
From other municipalities in		
the Province	500	00
From paying patients them-		
selves	12,429	87
From subscriptions, donations,		
etc	7,047	
From other sources	255	19
Total	\$23,219	63
Expenditures.		

Revenue.

Butchers' meat and fish	\$1,305	08
Butter and eggs	1,085	37
Flour, bread and meal	618	02
Milk	848	00
Tee and coffee	154	68

## GENERAL HOSPITAL, CORNWALL.—Continued.

Potatoes and other vegetables	257 83	Salaries and wages	4,320 86 1,469 25
Groceries and provisions not enumerated	936 17	Contingencies	67 08
Drugs and medicines	510 26	Repairs, ordinary	1,889 76
Medical and surgical appliances	1.214 10	telephone, etc	482 64
Surgical instruments	100 29	Ice	42 00
Beer, wine and spirits Bedding, napery and general	2 <b>5</b> 00	Insurance and interest Hay and straw	100 21
house furnishings	327 48	Clothing for patients	
Brooms, brushes, mops, soap and cleaning appliances	176 21		
Fuel	2,575 44	Government grant for 1918	\$1,388 95
Electric light, gas, oil, candles	443 02		

## HOTEL DIEU HOSPITAL, CORNWALL.

Movements of Patients	3.	Expenditures.		,
Number under treatment, 1st October, 1917 Admitted Births in Hospital	38 744 29	Butchers' meat and fish Butter and eggs Flour bread and meal Milk Tea and coffee	\$2,600 1,301 802 649 554	73 44 15
Total number under treat- ment	811	Potatoes and other vegetables Groceries and provisions not enumerated	422 1,903	
Discharged	73 <b>4</b> 40	Drugs and medicines Medical and surgical appli-	822	14
Under treatment, 30th September, 1918	37	ances		22 17 22
_	811	Bedding, napery and general house furnishings	712	63
Sex.	280	Brooms, brushes, mops, soap and cleaning appliances	$\frac{423}{2,361}$	
Male Female	431	Fuel Electric light, gas, oil and candles	505	
	811	Ice	112 1,216	27
Revenue.		Taxes and insurance Contingencies	1,302	
From the Province of Ontario From the Town of Cornwall	\$2,506 55 825 00	Repairs, ordinary	2,019	
From the Counties of Stor- mont, Dundas and Glengarry	1,000 00	Hay and straw	62 173	
From other municipalities in the Province From paying patients, them-	500 00	Total	\$19,113	75
selves	7,295 86	Government grant for 1918	\$2,542	32
etc	5.362 87 $1,731 41$			
Total	\$19.221 69			

## ROYAL ALEXANDRA HOSPITAL, FERGUS.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients.		Expenditures.		
Number under treatment, 1st October, 1917 Admitted Births in Hospital	$24 \\ 295 \\ 16$	Butchers' meat Butter and eggs Flour, bread and meal Milk	\$1,034 978 552 550	$\frac{06}{92}$
Total under treatment	335	Tea and coffee	$\substack{130 \\ 1,076}$	
Discharged	$\begin{array}{c} 297 \\ 23 \end{array}$	Groceries and provisions not enumerated  Drugs and medicines  Medical and surgical appli-	$1,015 \\ 626$	91
ber, 1918	15	Surgical instruments	$\begin{array}{c} 610 \\ 565 \end{array}$	
Sex.	335	Bedding, napery and general house furnishings Brooms, brushes, mops, soap	1,374	
MaleFemale	136 199 	and cleaning appliances Fuel Electric light, gas, oil, candles Ice supply Salaries and wages	$   \begin{array}{r}     259 \\     1,451 \\     248 \\     25 \\     3.201   \end{array} $	17 12 50
Revenue.		Water supply	40 427 414	
From the Province of Ontario From the County of Welling- ton	\$373 90 1.893 00	Hay, straw and feed Printing and stationery Freight and express	59 3 <b>4</b> 1 161	
From other municipalities From patients for maintenance	25 00	Taxes and insurance Telephone	82 138	$\frac{94}{28}$
and treatment  From subscriptions, donations and bequests from private	13,727 32	Total	927 \$16,293	
individuals  From all other sources	50 00 374 71	Government grant for 1918	\$574	74
Total	\$16,443 93			•

# MCKELLAR GENERAL HOSPITAL, FORT WILLIAM.

The following summaries show th	ie operane	ms of the frospital during the on	OIGI Jee	
Movements of Patients.		Revenue.		į
Number under treatment, 1st October, 1917	64	From the Province of Ontario	\$3,385	78
Admitted	2,243	liam		
Number of births in Hospital	200	From other municipalities From paying patients		
Total number under treat-		Subscriptions, donations, etc		
ment	2,507	Cther sources	20	00
Discharged	$\frac{2,361}{79}$	Total	\$53,322	73
Under treatment, 30th September, 1918	67	Expenditures.		
		Butchers' meat	\$2,996	71
	2.507	Flour, bread and meal		
Sex.		Milk		
		Butter and eggs		
Male	1,300	Tea and coffee	618	15
Female	1,207	Potatoes and other vegetables Groceries and provisions not		17
	2.507	enumerate1		53

# McKELLAR GENERAL HOSPITAL, FORT WILLIAM .- Continued

	_ 1100111111	2, 1 Old William. Continued.		
Drugs and medicines  Medical and surgical appliances  Beer, wine and spirits  Bedding, napery and general house furnishings  Brooms, brushes, mops, soap and cleaning appliances and laundry	11 00	Contingencies Repairs, ordinary Interest Water supply Fish Electric light, gas, oil, etc X-ray supplies Local improvement tax	1,196 2,690 59 499 571 772 265 448	83 34 42 55 80 43
Fuel	8,977 06 1,560 75 524 48	Total		

## GALT HOSPITAL, GALT.

Movements of Patient.	s.	Expenditures.		
Number under treatment, 1st October, 1917 Admitted Number of births in the Institution	46 683 100	Butchers' meat Butter and eggs Flour, bread and meal Milk Tea and coffee	\$2,120 1,247 1,048 1,661	95 03 30
Total number under treat- ment	829	Potatoes and other vegetables Groceries and provisions not enumerated Drugs and medicines	129 4,666 1,052	52
Discharged Died Under treatment, 30th September, 1918	739 52 38	Medical and surgical appliances	712 168	92
Sex.	829	Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances	323 438	
Male	319 510	Fuel Electric light, gas. oil, candles Water supply Ice	2,491 741 236 340	55 71
Revenue,	829	Salaries and wages Taxes and insurance Contingencies	6,637 672 381	84 11
From the Province of Ontario From the Town of Galt From the County of Waterloo From other municipalities	\$1,450 43 3,000 00 2,000 00 100 00	Repairs, ordinary Printing, stationery, etc Telephone Hay and straw	694 111 106 78	20
From paying patients themselves	18,454 24	Total		
vestments, etc	400 00 187 66	Government grant for 1918	\$1,787	08
From other sources	4,709 90	~		
Total	\$30,302 23	l .		

#### GENERAL AND MARINE HOSPITAL, GODERICH.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients		Expenditures.		
Number under treatment, 1st October, 1917 Admitted Births in Hospital	2 138 30	Butchers' meat  Butter and eggs  Flour, bread and meal  Milk  Tea and coffee	\$235 364 169 205 53	$\frac{60}{50}$
Total number under treat-	170	Potatoes and other vegetables Groceries and provisions not	117	89
Discharged	$^{154}_{7}$	enumerated	415 58	55 26
Under treatment, 30th September, 1918	9	ances	449	
bei, 1010	170	Surgical instruments  Bedding, napery and general		
Sex.		house furnishings Brooms, brushes, mops, soap	7	58
Male Female	65 105	and cleaning appliances Fuel Electric light, gas, oil, candles	147 931 107	83
Revenue.	170	Water supply	1,983	$\frac{00}{50}$
From the Province of Ontario From the Town of Goderich	$\begin{array}{ccc} \$234 & 01 \\ 500 & 00 \end{array}$	Insurance	25	$\frac{50}{00}$
From the County of Huron From other municipalities	500 00	Contingencies	288 404	
From patients themselves for maintenance and treatment.	3,635 60	Rent Telephone		00
From endowments, investments, etc	<b>75</b> 00	Total	\$6.207	66
and bequests from private individuals	302 50 1,193 01	Government grant for 1918	\$181	SS
Total	\$6,440 12			

## GENERAL HOSPITAL, GUELPH.

Movements of Patients.	•	Sex.	
Number under treatment, 1st October, 1917	53 1.401	MaleFemale	691 883
Admitted	120		. 1.574
Total number under treatment	1,574 1,469 45 60 1,574	Revenue.  Received from the Province of Ontario	\$3,183 11 3,143 25 668 75

## GENERAL HOSPITAL, GUELPH.—Continued.

From paying patients 41	726	32		Beer, wine and spirits	22	50
						00
	801	00		Bedding, napery and general		
From other sources, not enum-				house furnishings	557	17
erated 1	579	34		Brooms, brushes, mops, etc	1,164	04
crated	0.0	•			8.341	
				Fuel	, .	
Total\$51	,101	77		Electric light, gas, oil, candles	1,939	09
				Water supply	128	44
Expenditures.				Hay and straw	712	14
mapenarares.					154	
				Ice		
Butchers' meat \$5,	049	21		Salaries and wages	13,799	98
Butter and eggs 3.	441	91		Taxes, insurance and interest.	3,482	93
Flour, bread and meal 1.	660	50		Repairs, ordinary	995	03
Milk	33	94		Contingencies	2.169	67
	453	22		Printing, stationery, etc	252	88
Potatoes and other vegetables.	525	94		Clothing for patients	• • • •	
Groceries and provisions not				_		
-	454	34		Total	351 372	33
	101	01	ě	Total	901,012	00
Drugs and medicines, surgical						_
instruments and appliances 3.	034	15		Government aid for 1918 \$	1,003 <b>9</b> :	9

## ST. JOSEPH'S HOSPITAL, GUELPH.

Movements of Patients	·.	Expenditures.		
Number under treatment, 1st October, 1917 Admitted	45 753	Butchers' meat and fish Butter and eggs Flour, bread and meal	1,399	70
Births in Hospital	41	Milk		
Total number under treat-		Tea and coffee		
ment	839	Groceries and provisions not enumerated		00
Discharged	779	Drugs and medicines	1,080	
Died	24	Medical and surgical appli-	570	56
ber, 1918	36	Surgical instruments	250	00
_	839	Beer, wine and spirits Bedding, napery and general		
Male	259	furnishings		57
Female	580	and cleaning appliances	725	
_	839	Fuel Electric light, gas, oil, candles		00
Revenue.		Water supply	65 ( 1.890 (	
From the Province of Ontario	1	Taxes, interest and insurance	221	95
From the City of Guelph From the County of Welling-	1,703 75	Contingencies	9703 $1.6203$	
from other municipalities of	2,042 00	Ice supply	52	
the Province		Printing, stationery, etc	225	
From paying patients Subscriptions, donations, etc Other sources	$\begin{array}{r} 17,037 \ 73 \\ 436 \ 00 \\ 734 \ 75 \end{array}$	Total	\$24,019	38
Total		Government aid for 1918	\$600 4	46

## CITY HOSPITAL, HAMILTON.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients.	Expenditures.
Number under treatment, 1st       276         October, 1917	Butchers' meat
Total number under treatment 6,951	Potatoes and other vegetables 3,201 91 Groceries and provisions not enumerated
Discharged       6,342         Died       339         Under treatment, 30th September, 1918       270	Drugs and medicines       5,191 18         Medical and surgical appliances       13,740 01         Laboratory       1,870 37         Beer, wine and spirits       336 28
6.951 $Sex.$	Bedding, napery and general house furnishings 12.022 30 Brooms, brushes, mops, soap and cleaning appliances 3,932 09
Male 3,349 Female 3,602 6,951	Fuel       54,822       51         Electric light, gas, oil and candles       3,817       36         Water supply       2,947       23
Revenue.  From the Province of Ontario \$18.848 34	Staff library       107 86         Salaries and wages       76,576 84         Insurance and taxes       1,454 95         Contingencies       2,872 31
From the City of Hamilton 136,125 10 From the County of Wentworth From patients for maintenance	Repairs, ordinary       6,114       35         Clothing for patients       242       95         X-ray       3,315       14         Merchandise, printing and
and treatment 98,993 96 From other sources  Total\$253,967 40	postage
	Total\$266,494 27  Government grant for 1918 \$17,028 36

#### ST. JOSEPH'S HOSPITAL, HAMILTON.

The following summaries show th	ie operatio	ons of the Hospital during the o	Micial year:
Movements of Patients.		Sex.	
Number under treatment, 1st October, 1917	83	MaleFemale	
Admitted	$\frac{1,946}{180}$		2,209
Total number under treat-	2,209	Revenue.	
Discharged	2,011 110	From the Province of Chtari From the City of Hamilton . Income from endowments, in	. 2,533 05
Under treatment, 30th September, 1918	88	vestments, etc From paying patients them	
	2,209	selves	đ
		bequests in cash From all other sources	
		Total	. \$48,528 66

# ST. JOSEPH'S HOSPITAL, HAMILTON .- Continued.

Expenditures.		Fuel	7,235 27	7
Butchers' meat and fish	\$5,166 51	Electric light, gas, oil and candles	822 96	3
Butter and eggs	4,481 05	Water supply	312 33	3
Flour, bread and meal	$2,246\ 16$	Clothing for patients, includ-		
Milk	2,401 26	ing boots and shoes	320 <b>9</b> 0	)
Tea and coffee	806 96	Ice supply	712 80	)
Potatoes and other vegetables	1,55564	Salaries and wages	5,521 45	-
Groceries and other provisions		Taxes, insurance and interest		_
not enumerated	3,580 18	Contingencies	492 32	_
Drugs and medicines	2,038 07	Repairs, ordinary	1,481 31	
Medical and surgical appli-		Printing, stationery, etc	404 33	3
ances	2,238 $23$	Coffins and funerals		
Surgical instruments	608 53			-
Beer, wine and spirits	119 07	Total	\$48,462 32	2
Bedding, etc	3,425 39			
Brooms, brushes, mops, soap		Government grant for 1918	\$3,712 29	9
and cleaning appliances	590 42			

# PROVIDENCE HOSPITAL, HAILEYBURY.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients		
Number under treatment, 1st October, 1917	33	Butchers' a
Admitted	739	Flour, brea
Births in Hospital	33	Milk Tea and c
Total number under treat-		Potatoes a
ment	805	Groceries
ment	000	enumerat
Discharged	744	Drugs, me
Died	31	Medical a
Under treatment, 30th Septem-	01	ances a
ber. 1918	30	ments
Der, 1916		Beer, wine
	805	Bedding, r
Sex.	000	house fu
× 0		Brooms, b
Male	359	Fuel
Female	446	Electric lis
-		Water sup
	805	Printing, s
Revenue.		Hay and s
		Ice
From Government of Ontario	\$3,403 00	Salaries an
From Town of Haileybury	551 25	Taxes and
From patients for mainten-		Repairs, o
ance and treatment	19,716 00	Contingen
From other municipalities	604 00	Clothing f
From subscriptions, bequests		Surgical i
and donations of private in-		
dividuals	270 00	Total
From other sources	4,457 50	
Income from endowments, etc.	803 00	Governmen
Total	\$29.804.75	

#### Expenditures.

Butchers' meat	\$2,025 0	0
Butter and eggs	1,212 0	0
Flour, bread and meal	787 0	0
Milk	1.505 0	0
Tea and coffee	985 0	0
Potatoes and other vegetables	464 0	0
Groceries and provisions not		
enumerated	1,508 0	0
Drugs, medicines	1.547 0	00
Medical and surgical appli-	_,	
ances and surgical instru-		
ments	1,744 0	0
Beer, wine and spirits		
Bedding, napery and general		
house furnishings	695 0	0
Brooms, brushes, etc	507 0	00
Fuel	2,439	0
Electric light, gas, oil, candles	718	
Water supply		
Printing, stationery, etc	273 (	
Hay and straw		0 (
Ice	180 (	0
Salaries and wages	3,315	
Taxes and insurance		
Repairs, ordinary	1,445 (	
Contingencies	542 (	00
Clothing for patients	467	
Surgical instruments		
Suigical instruments		_
Total	\$22,969 (	00
Government grant for 1918	\$3,775	58 '

#### GENERAL HOSPITAL, INGERSOLL.

The following summaries show the operations of the Hospital during the official year:

Number under treatment, 1st	
October, 1917         1           Admitted         1	13 56 31
Total number under treatment 2	00
	$\begin{array}{c} 62 \\ 21 \end{array}$
ber, 1918	17
Sex.	00
	84 16
Revenue.	00
From the County of Oxford 500 From patients themselves for maintenance and treatment. From subscriptions, donations, and bequests from private individuals	00 00 60 22
From other sources 264	06

Expenditures.		
Butchers' meat	\$.94	63
Butter and eggs	331	48
Bread	190	11
Milk	268	80
Tea and coffee		
Potatoes and other vegetables	54	76
Groceries and provisions not		
enumerated	900	89
Drugs and medicines	457	24
Medical and surgical appli-		
ances	58	75
Bedding, napery and general		
house furnishings	706	32
Brooms, brushes, mops, soap		
and cleaning appliances	11	-
Fuel	1,295	
Electric light, gas, oil, candles	130	
Salaries and wages	2,210	
Insurance and taxes	154	
Contingencies	120	
Repairs, ordinary and additions	514	-
Ice	60	
Water	65	
Advertising and printing		93
Beer, wine and spirits	• • •	• • •
Total	\$8,262	46
Government grant for 1918	\$891	89

#### GENERAL HOSPITAL, KENORA.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients.	
Number under treatment, 1st October, 1917 Admitted Number of births in Hospital	$\begin{array}{c} 17 \\ 215 \\ 20 \end{array}$
Total number under treat-	252
Discharged	226 12
ber, 1918	$\frac{14}{252}$
Male	135 117
	252

#### Revenue.

From the Province of Ontario From the Town of Kenora	1,000 00
From other municipalities From paying patients Subscriptions, donations, etc	6,637 50
Care of lumber and railway camp cases From other sources	1,558 15
Total	\$10,170 63

#### Expenditures.

Potatoes and other vegetables	\$125	50
Butchers' meat and fish	809	17
Butter and eggs	220	50
Bread	325	
Milk	273	77
Groceries and provisions not		
enumerated flour and meal	1.264	50

GENERAL HOSPITAL, KENORA.—Continued.

GENERAL	HOSTITAL,	MEMOICA. Communea.	
Drugs and medicines and surgical appliances Surgical instruments Beer, wine and spirits Bedding, napery and general house furnishings Fuel Electric light, gas, oil and candles and water Ice Salaries and wages	600 83 257 00  60 10 1,568 66  58 00 2,733 56	Contingencies Repairs, ordinary Insurance Stationery, postage, etc. Hay and straw Clothing for patients Brooms, mops, etc.  Total  Government aid for 1918	
ST. J0	SEPH'S HOS	EPITAL, KENORA.	
The following summaries show	the operation	ns of the Hospital during the offic	nal year:
Movements of Patients	s. 1	Expenditures.	
Number under treatment, 1st October, 1917 Admitted Births in Hospital	13 145 5	Butchers' meat and fish Butter and eggs Flour, bread and meal Milk Tea and coffee	\$607 12 556 27 305 65 487 13 16 68
Total number under treat- ment	163	Potatoes and other vegetables Groceries and provisions not	173 17
Discharged	133 13	enumerated	483 55 112 90 5 60
ber, 1918	17	Beer, wine and spirits and	188 30
Sex.	163	mineral water  Bedding, napery and general	1 75
MaleFemale	70 93	house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel	224 13 63 45 1,437 00
Revenue.	163	Electric light, gas, oil and candles	74 79
From the Province of Ontario From the Town of Kenora From Dominion Government. From patients themselves for maintenance and treatment. From subscriptions, donations and bequests of private individuals	1,039 00 389 25 4,575 15 789 12	Clothing for patients Ice Salaries and wages Insurance Contingencies Repairs, ordinary Hay and straw Printing, stationery, etc. Coffins and funerals	134 59 50 00 910 40 41 39 104 59 135 50 965 55 55 73 83 50 \$7,218 56
Total	\$9,179 89	Total	
CENTE		Government grant for 1918	\$1,245 50
		YAL, KINCARDINE. ons of the Hospital during the offi	cial vear:
Movements of Patien		Discharged	139
Number under treatment, 1st October, 1917	6	Died	9
Admitted	130		155
		1	

Total number under treat-

## GENERAL HOSPITAL, KINCARDINE.—Continued.

	,			
sex.		Milk Tea and coffee	100	
Male	63	Potatoes and other vegetables	17	50
Female	92	Groceries and provisions not		
_		enumerated	163	
	155	Drugs and medicines	121	31
		Medical and surgical appli-		
Revenue.		ances	54	29
		Bedding, napery and general	000	0.4
From the Province of Ontario	\$394 67	house furnishings	333	34
From the Town of Kincardine		Brooms, brushes, mops, soap	41	0=
From patients for mainten-	0.551 00	and cleaning appliances	802	65
ance and treatment	2,751 32	Fuel	155	
From subscriptions, donations,		Electric light, gas, oil, candles		
and bequests from private individuals	268 00	Beer, wine and spirits	99	00
From other sources	192 50	Salaries and wages	1.987	
From County of Bruce	1,810 00	Contingencies	165	
From County of Bruce	1,810 00	Repairs, ordinary	443	
Total	\$5.416.49	Hay and straw	118	
1001	ψο,110 10	Printing and postage		25
- Expenditure.		Taxes and insurance		00
Butchers' meat	\$300 61 202 56	Total	\$5,242	10
Flour, bread and meal	$\begin{array}{ccc} 252 & 55 \\ 152 & 55 \end{array}$	Government grant for 1918	\$458	95

## GENERAL HOSPITAL, KINGSTON.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients Number under treatment, 1st	
October, 1917	129
Admitted	3,277
Births in Hospital	129
Total number under treat-	
ment	3.535
Discharged	3,302
Died	123
Under treatment, 30th Septem-	
ber, 1918	110
_	3,535
Sex.	0,000
Male	1,955
Female	1,580
-	3,535
Revenue.	0,000
From the Province of Ontario	\$4,336 28
From the City of Kingston	15.000 00
From the County of Frontenac	2.300 00
From other municipalities in	
the Province	1,170 00
From paying patients them-	_,
selves for treatment	74.853 48
Subscriptions, donations and	,
bequests	4.195 45
From all other sources not	-,
enumerated	1,973 68
	103 828 89

## Expenditures.

Expenaitures.		
Butchers' meat	\$8,883	09
Butter and eggs	9,406	20
Flour, bread and meal	3.699	95
Milk	5,870	71
Tea and coffee	1,615	85
Potatoes and other vegetables	2,587	39
Groceries and provisions not		
enumerated	11.663	15
Drugs and medicines	3,762	29
Surgical instruments and ap-		
pliances	5.914	26
Beer, wine and spirits	453	05
Bedding, napery and general		
house furnishings	3.451	22
Brooms, brushes, mops, soap		
and cleaning appliances	1,302	
Fuel	8.698	80
Electric light, gas, oil and		
candles	4,336	
Water supply	670	
Ice	108	
Salaries and wages	17,312	
Insurance and taxes	313	
Contingencies	8,089	
Repairs, ordinary	3.633	
Printing, stationery, etc	1,068	
Clothing for patients	9	00
	100.051	0.4
Total\$	102.851	34
Government grant for 1918	\$5,911	29

## HOTEL DIEU HOSPITAL, KINGSTON.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients	•	Expenditures.		
Number under treatment, 1st Getober, 1917 Admitted Births in Hospital	83 1,888 105	Butchers' meat	\$5,359 3,777 2,593 3,059	37 35
Total number under treat-	2.076	Tea and coffee	682 1,792	
Discharged	1,915 93	enumerated	5,621 1,447	
Under treatment, 30th September, 1918	68	ances	$2,550 \\ 76 \\ 903$	11
Sex.	2,076	Bedding, napery and general house furnishings Brooms, brushes, mops, soap	3,832	
Male Female	943 1,133	and cleaning appliances Fuel Light: gas, oil and candles	855 5,174 2,752	53
Revenue.	2.076	Water supply Ice Salaries and wages	595 231 4,134	59 70
From the Province of Ontario From the City of Kingston From the County of Frontenac	\$4,943 18 5,000 00 1,550 00	Taxes and insurance Hay and straw Contingencies	863 222 1,424	$\frac{19}{52}$
From other municipalities From patients themselves for maintenance and treatment.	200 00	Repairs, ordinary Printing, stationery, etc. Clothing for patients	6,883 371	22
Subscriptions, donations and bequests	421 25	Total		
erated	7,329 38 \$52,820 57	Government grant for 1918	\$5,117	80

#### KITCHENER AND WATERLOO HOSPITAL, KITCHENER.

The following summaries show th	e operations	of the Hospital during the on	.ciai yea	11.
Movements of Patients.		Revenue.		
Number under treatment, 1st October, 1917	39	From the Province of Ontario From the Town of Kitchener.	2,000	00
Admitted	871 73	From the County of Waterloo. From the Town of Waterloo From patients for mainten-	800	
Total number under treat- ment	983	ance and treatment From subscriptions, donations and bequests from private	24,768	40
Discharged	890 53	individuals	2,313	
Under treatment, 30th September, 1918	40	Total	\$37,073	68
Sex.	983	Expenditures.		
		Butchers' meat	\$1,704	82
Male	414	Butter and eggs	1,127	75
Female	569	Flour, bread and meal		
		Milk	1,453	
	983	Tea and coffee	166	13

#### KITCHENER AND WATERLOO HOSPITAL, KITCHENER.-Continued.

Potatoes and other vegetables Groceries and provisions not	$262 \ 05$	Electric light, gas, oil and candles		4.1
	0.00= 00		-,	
enumerated	2,825 39	Ice supply		
Drugs and medicines	1,477 48	Salaries and wages	8,449	75
Medical and surgical appli-		Insurance and taxes	76	25
ances	2,101 45	Contingencies	1,298	53
Beer, wine and spirits		Repairs, ordinary	928	56
Bedding, napery and general		Water supply	210	69
house furnishings				
Brooms, brushes, mops, soap		Total	\$29,509	06
and cleaning appliances	644 28			,
Fuel	4,580 60	Government grant for 1918	\$340	31

## GENERAL HOSPITAL, LONDON.

The following summaries show the operations of the Hospital during the official year:

**Movements of Patients.**

Expenditures.**

Number under treatment, 1st October, 1917 Admitted Births in Hospital	182 3,404 247
Total number under treat-	3,833
Discharged	3,456 $185$
Under treatment, 30th September, 1918	192
sex.	3,833
Male Female	1,611 2,222
Revenue.	3,833
From the Province of Ontario From the City of London From the County of Middlesex, in payment of patients From paying patients themselves	\$9,631 40 73,551 83 6,007 07 77,562 37
From income from property or investments	750 69  25.213 57
-	192,716 93

Expenditures.	
Butchers' meat	56
Butter and eggs 12,420	50
Flour, bread and meal 4,653	94
Milk 7,110	57
Tea and coffee 1,879	22
Potatoes and other vegetables 3,242	65
Groceries and provisions not	
enumerated 10,908	86
Drugs and medicines 8,692	75
Surgical instruments 829	52
Medical and surgical appli-	
ances 9,220	
Beer, wine and spirits 414	50
Bedding, napery and general	
house furnishings 7,878	58
Brooms, brushes, mops, soap	
and cleaning appliances 1,608	33
Fuel 27,607	
Light: gas, oil and candles 2.281	54
Water 1,123	67
Ice 1,073	77
Salaries and wages 45.168	80
Insurance 1,938	66
Contingencies 3,553	77
Repairs, ordinary 4.059	14
Printing and stationery 1,277	52
Laundry 7,261	85
Total\$182,865	51
Government grant for 1918 \$6.681	68

#### ST. JOSEPH'S HCSPITAL, LONDON.

The following summaries show the operations of the Hospital during the official year:

**Morements of Patients** 1 Discharged** 1825

Motements of Patients.	
Number under treatment, 1st	
October, 1917	90
Admitted	1,741
Births in Hospital	156
Total number under treat-	
ment	1.987

of the Hospital aaring the om	Oldi John.
Discharged	1,825
Died	62
Under treatment, 30th Septem-	
ber, 1918	100
-	
	1.987

-,-

# ST. JOSEPH'S HOSPITAL, LONDON.—Continued.

	, 2501.20211 0011111111111111111111111111111		
Sex.	Drugs and medicines Medical and surgical		78
Male	759 ances		84
Female 1	Beer, wine and spirits.		
	Bedding, napery and ge		10
. 1	house furnishings		70
1			10
Dananna	Brooms, brushes, mops,		4.0
Revenue.	and cleaning appliance		
	Fuel		
From the Province of Ontario \$1,55	62 Light: gas, oil and candl	les 1,734	88
From other municipalities 2.26	50 Water	373	91
From paying patients 71,07	74 Telephone	104	00
Subscriptions, donations, etc	Ice	430	60
Other sources	Salaries and wages	9.321	17
	- Insurance, taxes and inte		
Total \$74,90	86 Contingencies		
ν ν ν ν ν ν ν ν ν ν ν ν ν ν ν ν ν ν ν	Repairs, ordinary		
Expenditures.	Printing, stationery, pos		00
Dapenateures.	etc		19
Butchers' meat \$6.83			
		1,150	94
Butter and eggs 6,05		222.422	
Flour, bread and meal 2,62		\$75,150	31
Milk 5,21	1		
Tea and coffee \$1	50 Government grant for 19	18 \$1,136	07
Potatoes and other vegetables 1,02	13		
Groceries and provisions not			
enumerated 6.53	17	•	
	•		

## VICTORIA HOME FOR INCURABLES, LONDON.

The following summaries show the operations of the Hospital during the official year:

**Movements of Patients.**

**Expenditures.**

more ments of lattents	٠.	
Number under treatment, 1st October, 1917		53 27
Total number under treat- ment		80
Discharged		$\begin{array}{c} 6 \\ 24 \\ 50 \end{array}$
ber, 1918		80
Male Female		33 47
Revenue.		80
From the Province of Contario From the City of London From other municipalities in	\$1.342 1,369	
the Province  From paying patients themselves  From subscriptions, donations,	11,609	 65
etc	578 168	
Total	\$15,069	42

Expenditures.		
Butchers' meat and fish Butter and eggs Flour, bread and meal	\$1,128 1,460 880	56
Milk	1,006	-
Tea and coffee		
Potatoes and other vegetables		
Groceries and provisions not enumerated	2.057 $190$	
Medical and surgical appli-		
ances	• • • •	
Surgical instruments		
Beer, wine and spirits	• • • •	
Bedding, napery and general house furnishings	898	64
Brooms, brushes, mops, soap and cleaning appliances	167	26
Fuel	1.627	
Electric light, gas, oil and	1,02.	00
candles	336	64
Tce	16	10
Salaries and wages	4,975	35
Taxes and insurance		18
Contingencies	61	10
Repairs, ordinary	478	14
Clothing for patients		
Hay and straw	• • • •	
Printing and postage	23	
Water supply	125	03
Total	<b>\$</b> 15, <b>4</b> 33	44

Government grant for 1918 .. \$3,151 48

#### THE ROSS MEMORIAL HOSPITAL, LINDSAY.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients	
Number under treatment, 1st	16
October, 1917	378
Admitted	47
Births in Hospital	41
Total number under treat-	
ment	441
Discharged	393
Died	30
ber, 1918	18
<del>-</del>	441
Sex.	112
Male	189
Female	
-	441
Revenue.	111
From the Province of Ontario	\$940 58
From the Town of Lindsay	600 00
From the County of Victoria.	1.100 00
From other municipalities	1,100 00
From patients themselves for	
maintenance and treatment.	8,725 15
Income from endowments	2.575 61
Subscriptions, donations and bequests of private individ-	2.010 01
uals	65 50
From other sources not enum-	00 00
erated	1,675 76
Total	012 000 00
Total	\$19,052 60

Expenditures.		
Butchers' meat	\$1,370	33
Butter and eggs	1,190	82
Flour, bread and meal	446	37
Milk	675	06
Tea and coffee	170	20
Potatoes and other vegetables	344	95
Groceries and provisions not		
enumerated	812	10
Drugs and medicines	913	56
Medical and surgical appli-		
ances	996	
Surgical instruments	23	60
Beer. wine and spirits	13	15
Bedding, napery and general		
house furnishings	639	90
Brooms, brushes, mops, soap		
and cleaning appliances	334	
Fuel	1.341	33
Electric light, gas, oil and		
candles	83	
Water supply	85	0.0
Clothing for patients, includ-		
ing boots and shoes		78
Ice	150	
Salaries and wages	4,707	
Contingencies	1,358	56
Repairs, ordinary	389	
Taxes and insurance	102	
Stationery, postage, etc	222	93
Total	\$16.376	45
Government grant for 1918	\$605	82

#### GENERAL HOSPITAL, MATTAWA.

Movements of Patients.	
Number under treatment, 1st October, 1917 Admitted	$\frac{22}{275}$
Total number under treatment	297
Discharged	270 5
ber. 1918	22 297

Sex.		
Male	:	200 97
	-	297
Revenue.		
From the Province of Ontario	\$4,038	97
From Town of Mattawa From patients for mainten-	75	0.0
ance and treatment From subscriptions, bequests	3,422	04
and donations of private in-		
dividuals	$\frac{279}{1.572}$	
From other sources	1,512	ĤÜ
Total	\$9,387	01

## GENERAL HOSPITAL, MATTAWA .- Continued.

	Brooms, brushes, etc	90 25
	Fuel	670 80
\$750 00	Electric light, gas, oil, candles	150 00
312 00	Water supply	115 60
285 90	Printing, stationery, etc	110 00
291 60	Hay and straw	136 00
269 00	1ce	34 00
165 40	Salaries and wages	1,225 00
	Taxes and insurance	165 75
120 88	Repairs, ordinary	3,762 00
212 67		35 00
	Clothing for patients	188 35
30 00	Coffins and funerals	
225 48	-	
• • • • • •	Total	\$9,474 68
129 00	Government grant for 1918	\$3,121 06
	312 00 285 90 291 60 269 00 165 40 120 88 212 67 30 00 225 48	Water supply   Printing, stationery, etc.

## GENERAL HOSPITAL, MIDLAND.

Movements of Patients	s.
Number under treatment, 1st October, 1917 Admitted Births in Hospital	8 216 24
Total number under treat- ment	248
Discharged	$\begin{array}{c} 232 \\ 9 \end{array}$
ber, 1918	7
Sex.	248
Male	124 124
Revenue.	248
From the Province of Ontario From the Town of Midland From the County of Simcoe From other municipalities From patients themselves for maintenance and treatment. From subscriptions. donations and bequests from private individuals	\$623 29  500 00  6,280 46 21 65 
Total	\$7,425 40

Expenditures.		
Butchers' meat	\$273	98
Butter and eggs	323	67
Flour, bread and meal	178	50
Milk	35	88
Tea and coffee	30	40
Potatoes and other vegetables	68	67
Groceries and provisions not		
enumerated	388	95
Drugs and medicines	301	91
Surgical instruments and ap-		
pliances	252	12
Beer, wine and spirits	8	75
Bedding, napery and general		
house furnishings	64	02
Brooms, brushes, mops, soap		
and cleaning appliances	17	63
Fuel	312	23
Light: electric, gas, oil and		
candles	51	98
Water supply	21	70
Ice	44	00
Salaries and wages	2,175	10
Printing, stationery, etc	45	08
Contingencies	1,119	71
Repairs, ordinary	1,293	48
Taxes and insurance	25	50
Laundry	590	39
Hay and straw	271	93
Total	\$7,895	58
Government grant for 1918	\$246	25

## LADY MINTO HOSPITAL, NEW LISKEARD.

Movements of Patients		Expenditures.	
Number under treatment, 1st		Butchers' meat	\$531 91
October, 1917	8	Butter and eggs	378 64
Admitted	181	Flour, bread and meal	307 10
Births in Hospital	23	Milk	263 52
_		Tea and coffee	45 78
rotal number under treat-		Potatoes and other vegetables	292 58
ment	212	Groceries and provisions not	202 00
ment	212	enumerated	619 36
Discharged	194	Drugs and medicines	226 96
Died	12		226 96
Under treatment, 30th Septem-	12	Medical and surgical appli-	100 04
	6	ances	139 24
ber, 1918	σ	Beer, wine and spirits	
_	010	Bedding, napery and general	
Ø	212	house furnishings	$233 \ 36$
Sex.		Brooms, brushes, mops, soap	
		and cleaning appliances	91 78
Male	110	Fuel	718 00
Female	102	Electric light, gas, oil and	
-		power	110 44
	212	Ice supply	48 40
Revenue.		Salaries and wages	2,893 05
		Repairs, ordinary	714 20
From the Province of Ontario	\$755 55	Laundry	40 22
From the Town of New Lis-		Printing, stationery, etc	210 69
keard	100 00	Taxes and insurance	
From other municipalities	100 00	Contingencies	65 25
From Victorian Order	450 00	Nurses' Home Fund	
From patients for maintenance		_	
and treatment	4,507 18	Total	\$7,930,48
From subscriptions, donations	, , ,		ψ.,σου το
and bequests from private		Government grant for 1918	\$258 70
individuals	508 45	dovernment grant for 1010	φ <b>2</b> 00 ισ
From other sources	1.376 64		
	_,0,0		
Total	\$7,797 82		
	T.,	T .	•

GENERAL HOSPITA	AL, NIAGARA FALLS.			
The following summaries show the operations of the Hospital during the official year:				
Movements of Patients.	Revenue.			
Number under treatment, 1st       27         October, 1917       27         Admitted       517         Births in Hospital       89         Total under treatment       633         Discharged       579         Died       29         Under treatment, 30th September, 1918       25	From the Province of Ontario \$1,148 03 From the Town of Niagara Falls			
Sex.  Male	Total			

## GENERAL HOSPITAL, NIAGARA FALLS .- Continued.

Milk	695 03	Fuel	2,167 67
Tea and coffee	198 33	Electric, light, gas, oil, candles	175 30
Potatoes and other vegetables	190 99	Ice supply	191 80
Groceries and provisions not		Salaries and wages	4,530 03
enumerated	2,343 33	Contingencies	1,897 03
Drugs and medicines	1,360 03	Repairs, ordinary	819 51
Medical and surgical appli-		Taxes and insurance	628 94
ances	1.17462	Water supply	47 72
Surgical instruments	98	Printing and postage	96- 10
Beer, wine and spirits		Interest on mortgage	300 00
Bedding, napery and general		-	
house furnishings	292 38	Total	\$20,301 86
Brooms, brushes, mops, soap			
and cleaning appliances	148 42	Government grant for 1918	\$285 84
		•	

## QUEEN VICTORIA MEMORIAL HOSPITAL, NORTH BAY.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients	·.	Expenditures.		
Number under treatment, 1st	10	Butchers' meat	\$856 48	
October, 1917	10	Butter and eggs	710 62	
Admitted	407	Flour, bread and meal	472 12	
Births in Hospital	52	Milk	595 63	
-		Tea and coffee	216 50	
Total number under treat-		Potatoes and other vegetables	573 16	j
ment	439	Groceries and provisions not		
	1	enumerated	812 28	j
Discharged	438	Drugs and medicines	422 19	j
Died	12	Surgical instruments and ap-		
Under treatment, 30th Septem-		pliances	1,051 44	ŧ
ber, 1918	19	Bedding, napery and general	,	
ber, 1910		house furnishings	475 84	
	469	Brooms, brushes, mops, soap		
Sex.	100	and cleaning appliances	172 99	ı
Neo.		Fuel	1,345 05	
Male	226	Electric light, gas, oil, candles	127 71	
Female	243	Water supply	37 50	
remaie		Ice	65 00	
_	469	Salaries and wages	3.523 81	
Dananna	403	Contingencies	1.130 87	
Revenue.	,	Repairs, ordinary	560 44	
Form the Description of Outonic	e1 000 CF	Beer, wine and spirits	100 75	
From the Province of Ontario	$\frac{$1.092}{1.200}$	Taxes and insurance	29 85	
From the Town of North Bay	$\frac{1,200}{35}$ $\frac{25}{50}$	Printing and postage	167 12	
From other municipalities	59 90	Surgical instruments		
From patients themselves for	0.540.50	Surgical instruments		
maintenance and treatment	8,740 70	Total	Q12 / 17 90	ì
Subscriptions, donations, etc	1,750 86	Total	919,771 20	,
Total	\$12.819 98	Government grant for 1918	\$487 55	,

## GENERAL HOSPITAL, ORANGEVILLE.

Movements of Patients.		Discharged	125 15
Number under treatment, 1st October, 1917	9	Under treatment, 30th September, 1918	9
Admitted	123 17		149
Total number under treat-	149		

GENERAL HO	OSPITAL,	ORANGEVILLE.—Continued.	
Sex.		Tea and coffee	255 77
		Potatoes and other vegetables	45 20
Male	49	Groceries and provisions not	00= 10
Female	100	enumerated	835 18 400 60
_	149	Medical and surgical appli-	400 00
	110	ances	
Revenue.		Beer, wine and spirits	
		Bedding, napery and general	
From the Province of Ontario.	\$483 57	house furnishings	506 - 34
From the Town of Orangeville	100 00	Brooms, brushes, mops, soap	
From the County of Dufferin.	300 00	and cleaning appliances	170 99
From other municipalities		Fuel	367 63
From patients for maintenance and treatment	5,589 27	Light: Gas, oil and candles Water	64 70
From endowments, invest-	0,000 21	Ice supply	13 75
ments, etc.		Salaries and wages	1,297 00
From subscriptions, donations,		Laundry	507 21
and bequests from private		Contingencies	
_ individuals	199 25	Repairs, ordinary	223 50
From other sources	• • • • • •	Printing, stationery and post-	50.40
Total	ec 679 00	Taxes and insurance	52 40 43 25
10tai	\$0,072 09	Telephone	25 71
Expenditures.	,	Rent of rooms	154 00
200700000000000000000000000000000000000		-	
Butchers' meat	\$320 36	Total	\$6,025 56
Butter and eggs	364 56		
Flour, bread and meal	95 39	Government grant for 1918	\$649 14
Milk	282 02	1	
CEN		CDIMAL ODILLIA	
GE.V.	ERAL HU	SPITAL, ORILLIA.	
m			
The following summaries show	the opera	tions of the Hospital during the offi	cial year:
The following summaries show  Movements of Patient.	_	tions of the Hospital during the offi $Expenditures$ .	cial year:
	_	Expenditures.	
Movements of Patient.	_	Expenditures.  Butchers' meat	\$693 59
Movements of Patient.  Number under treatment, 1st October, 1917	s. 17 580	Expenditures.  Butchers' meat Butter and eggs	\$693 59 481 92
Movements of Patient.  Number under treatment, 1st October, 1917	s. 17	Expenditures.  Butchers' meat Butter and eggs Flour, bread and meal	\$693 59
Movements of Patient.  Number under treatment, 1st October, 1917  Admitted Births in Hospital	s. 17 580	Expenditures.  Butchers' meat Butter and eggs	\$693 58 481 92 602 06
Movements of Patient.  Number under treatment, 1st October, 1917  Admitted Births in Hospital  Total number under treat-	58. 17 580 88	Expenditures.  Butchers' meat Butter and eggs Flour, bread and meal Milk Groceries and provisions not enumerated	\$693 58 481 92 602 06 750 30 1,628 40
Movements of Patient  Number under treatment, 1st October, 1917  Admitted  Births in Hospital  Total number under treatment	58. 17 580 88 685	Expenditures.  Butchers' meat	\$693 58 481 92 602 06 750 30
Movements of Patient  Number under treatment, 1st October, 1917  Admitted Births in Hospital  Total number under treatment  Discharged	58. 17 580 88 685 640	Expenditures.  Butchers' meat	\$693 58 481 92 602 06 750 30 1,628 40 365 62
Movements of Patient  Number under treatment, 1st October, 1917  Admitted Births in Hospital  Total number under treatment  Discharged Died	58. 17 580 88 685	Expenditures.  Butchers' meat	\$693 58 481 92 602 06 750 30 1,628 40
Movements of Patient.  Number under treatment, 1st October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died Under treatment, 30th Septem-	58. 17 580 88 685 640 23	Expenditures.  Butchers' meat Butter and eggs Flour, bread and meal Milk Groceries and provisions not enumerated Drugs and medicines Medical and surgical appliances Bedding, napery and general	\$693 59 481 92 602 06 750 30 1,628 40 365 62 1,173 35
Movements of Patient  Number under treatment, 1st October, 1917  Admitted Births in Hospital  Total number under treatment  Discharged Died	58. 17 580 88 685 640	Expenditures.  Butchers' meat Butter and eggs Flour, bread and meal Milk Groceries and provisions not enumerated Drugs and medicines Medical and surgical appliances Bedding, napery and general house furnishings	\$693 58 481 92 602 06 750 30 1,628 40 365 62
Movements of Patient.  Number under treatment, 1st October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died Under treatment, 30th Septem-	58. 17 580 88 685 640 23	Expenditures.  Butchers' meat Butter and eggs Flour, bread and meal Milk Groceries and provisions not enumerated Drugs and medicines Medical and surgical appliances Bedding, napery and general	\$693 58 481 92 602 06 750 30 1,628 40 365 62 1,173 35 456 89
Movements of Patient.  Number under treatment, 1st October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died Under treatment, 30th Septem-	58. 17 580 88 685 640 23 22	Expenditures.  Butchers' meat Butter and eggs Flour, bread and meal Milk Groceries and provisions not enumerated Drugs and medicines Medical and surgical appliances Bedding, napery and general house furnishings Brooms, brushes, mops, soap	\$693 58 481 92 602 06 750 30 1,628 40 365 62 1,173 35 456 89
Movements of Patient  Number under treatment, 1st October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died Under treatment, 30th September, 1918  Sex.	58. 17 580 88 685 640 23 22 685	Expenditures.  Butchers' meat Butter and eggs Flour, bread and meal Milk Groceries and provisions not enumerated Drugs and medicines Medical and surgical appliances Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and	\$693 58 481 92 602 06 750 30  1,628 40 365 62  1,173 35 456 89 21 30 1,888 29
Movements of Patient  Number under treatment, 1st October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died Under treatment, 30th September, 1918	58. 17 580 88 685 640 23 22 685 285	Expenditures.  Butchers' meat Butter and eggs Flour, bread and meal Milk Groceries and provisions not enumerated Drugs and medicines Medical and surgical appliances Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles	\$693 58 481 92 602 06 750 30  1,628 40 365 62  1,173 35 456 89 21 30 1,888 29 321 77
Movements of Patient  Number under treatment, 1st October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died Under treatment, 30th September, 1918  Sex.  Ma'e	58. 17 580 88 685 640 23 22 685	Expenditures.  Butchers' meat Butter and eggs Flour, bread and meal Milk Groceries and provisions not enumerated Drugs and medicines Medical and surgical appliances Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water supply	\$693 58 481 92 602 06 750 30  1,628 40 365 62  1,173 35 456 89 21 30 1,888 29 321 77 62 13
Movements of Patient  Number under treatment, 1st October, 1917 Admitted Births in Hospital  Total number under treatment Discharged Died Under treatment, 30th September, 1918  Sex.  Ma'e Female	58. 17 580 88 685 640 23 22 685 285	Expenditures.  Butchers' meat Butter and eggs Flour, bread and meal Milk Groceries and provisions not enumerated Drugs and medicines Medical and surgical appliances Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water supply Beer, wine and spirits	\$693 58 481 92 602 06 750 30  1,628 40 365 62  1,173 35 456 89 21 30 1,888 29 321 77 62 13
Movements of Patient  Number under treatment, 1st October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died Under treatment, 30th September, 1918  Sex.  Ma'e	58. 17 580 88 685 640 23 22 685 285 400	Expenditures.  Butchers' meat Butter and eggs Flour, bread and meal Milk Groceries and provisions not enumerated Drugs and medicines Medical and surgical appliances Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water supply Peer, wine and spirits Salaries and wages	\$693 58 481 92 602 06 750 30  1,628 40 365 62  1,173 35 456 89 21 30 1,888 29 321 77 62 13
Movements of Patient  Number under treatment, 1st October, 1917 Admitted Births in Hospital  Total number under treatment Discharged Died Under treatment, 30th September, 1918  Sex.  Ma'e Female	685 685 685 685 685 685	Expenditures.  Butchers' meat Butter and eggs Flour, bread and meal Milk Groceries and provisions not enumerated Drugs and medicines Medical and surgical appliances Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water supply Beer, wine and spirits	\$693 58 481 92 602 06 750 30  1,628 40 365 62  1,173 35 456 89 21 30 1,888 29 321 77 62 13 3,251 63 29 54
Movements of Patient.  Number under treatment, 1st October, 1917 Admitted Births in Hospital  Total number under treatment Discharged Died Under treatment, 30th September, 1918  Sex.  Ma'e Female  Revenue.	685 685 685 685 685 685	Expenditures.  Butchers' meat Butter and eggs Flour, bread and meal Milk Groceries and provisions not enumerated Drugs and medicines Medical and surgical appliances Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water supply Beer, wine and spirits Salaries and wages Taxes and insurance Contingencies Repairs, ordinary	\$693 58 481 92 602 06 750 30  1,628 40 365 62  1,173 35 456 89 21 30 1,888 29 321 77 62 13 3,251 63 29 54 298 00 544 37
Movements of Patient.  Number under treatment, 1st October, 1917 Admitted Births in Hospital  Total number under treatment ment  Discharged Died Under treatment, 30th September, 1918  Sex.  Ma'e Female  Revenue.  From the Province of Ontario From the Town of Orillia From the County of Simcoe.	58.  17 580 88 685 640 23 22 685 400 685	Butchers' meat Butter and eggs Flour, bread and meal Milk Groceries and provisions not enumerated Drugs and medicines Medical and surgical appliances Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water supply Beer, wine and spirits Salaries and wages Taxes and insurance Contingencies Repairs, ordinary Printing, stationery, etc.	\$693 58 481 92 602 06 750 30  1,628 40 365 62  1,173 35 456 89 21 30 1,888 29 321 77 62 13 3,251 63 29 54 298 00 544 37 903 86
Movements of Patient.  Number under treatment, 1st October, 1917 Admitted Births in Hospital  Total number under treatment Discharged Died Under treatment, 30th September, 1918  Sex.  Ma'e Female  Revenue,  From the Province of Ontario From the Town of Orillia From the County of Simcoe. From patients themselves for	685 640 23 22 685 400 685 \$1,592 40 500 00	Expenditures.  Butchers' meat Butter and eggs Flour, bread and meal Milk Groceries and provisions not enumerated Drugs and medicines Medical and surgical appliances Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water supply Beer, wine and spirits Salaries and wages Taxes and insurance Contingencies Repairs, ordinary	\$693 58 481 92 602 06 750 30  1,628 40 365 62  1,173 35 456 89 21 30 1,888 29 321 77 62 13 3,251 63 29 54 298 00 544 37 903 86
Movements of Patient.  Number under treatment, 1st October, 1917 Admitted Births in Hospital  Total number under treatment Discharged Died Under treatment, 30th September, 1918  Sex.  Ma'e Female  Revenue.  From the Province of Ontario From the Town of Orillia From the County of Simcoe From patients themselves for maintenance and treatment.	58.  17 580 88 685 640 23 22 685 400 685 \$1,592 40 500 00	Butchers' meat Butter and eggs Flour, bread and meal Milk Groceries and provisions not enumerated Drugs and medicines Medical and surgical appliances Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water supply Beer, wine and spirits Salaries and wages Taxes and insurance Contingencies Repairs, ordinary Printing, stationery, etc. Ice supply	\$693 58 481 92 602 06 750 30  1,628 40 365 62  1,173 35 456 89 21 30 1,888 29 321 77 62 13 3,251 63 29 54 298 00 544 37 903 86 55 00
Movements of Patient.  Number under treatment, 1st October, 1917 Admitted Births in Hospital  Total number under treatment Discharged Died Under treatment, 30th September, 1918  Sex.  Ma'e Female  Revenue.  From the Province of Ontario From the Town of Orillia From the County of Simcoe. From patients themselves for maintenance and treatment. From subscriptions. donations	685 640 23 22 685 400 685 \$1,592 40 500 00	Butchers' meat Butter and eggs Flour, bread and meal Milk Groceries and provisions not enumerated Drugs and medicines Medical and surgical appliances Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water supply Beer, wine and spirits Salaries and wages Taxes and insurance Contingencies Repairs, ordinary Printing, stationery, etc.	\$693 58 481 92 602 06 750 30  1,628 40 365 62  1,173 35 456 89 21 30 1,888 29 321 77 62 13 3,251 63 29 54 298 00 544 37 903 86 55 00
Movements of Patient.  Number under treatment, 1st October, 1917 Admitted Births in Hospital  Total number under treatment ment  Discharged Died Under treatment, 30th September, 1918  Sex.  Ma'e Female  Revenue,  From the Province of Ontario From the Town of Orillia From the County of Simcoe. From patients themselves for maintenance and treatment. From subscriptions, donations and bequests from private	58.  17 580 88 685 640 23 22 685 400 685 \$1,592 40 500 00 500 00 12,103 69	Expenditures.  Butchers' meat Butter and eggs Flour, bread and meal Milk Groceries and provisions not enumerated Drugs and medicines Medical and surgical appliances Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water supply Beer, wine and spirits Salaries and wages Taxes and insurance Contingencies Repairs, ordinary Printing, stationery, etc. Ice supply Total	\$693 59 481 92 602 06 750 30  1,628 40 365 62  1,173 35 456 89 21 30 1,888 29 321 77 62 13 3,251 62 13,29 54 298 00 544 37 903 86 55 00
Movements of Patient.  Number under treatment, 1st October, 1917 Admitted Births in Hospital  Total number under treatment Discharged Died Under treatment, 30th September, 1918  Sex.  Ma'e Female  Revenue.  From the Province of Ontario From the Town of Orillia From the County of Simcoe. From patients themselves for maintenance and treatment. From subscriptions. donations	685 640 23 22 685 400 685 \$1,592 40 500 00	Butchers' meat Butter and eggs Flour, bread and meal Milk Groceries and provisions not enumerated Drugs and medicines Medical and surgical appliances Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water supply Beer, wine and spirits Salaries and wages Taxes and insurance Contingencies Repairs, ordinary Printing, stationery, etc. Ice supply	\$693 59 481 92 602 06 750 30  1,628 40 365 62  1,173 35 456 89 21 30 1,888 29 321 77 62 13 3,251 62 13,29 54 298 00 544 37 903 86 55 00

..... \$15,154 25

#### GENERAL HOSPITAL, OSHAWA.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients	•	Expenditures.		
Number under treatment, 1st October, 1917 Admitted Number of births in Hospital	22 632 71	Butchers' meat and fish Butter and eggs Flour, bread and meal Milk Tea and coffee	\$729 644 581 865 273	80 50 37
Total number under treat- ment	725	Potatoes and other vegetables Groceries and provisions not	91 1,616	
Discharged	663 43	enumerated  Drugs and medicines  Medical and surgical appli-	548	
Under treatment, 30th September, 1918	19	ances	687	
Sex.	725	Bedding, napery and general house furnishings Brooms, brushes, mops, soap	174	31
Male	342 383	and cleaning apliances Fuel Electric light, gas, oil, candles	$248 \\ 2,923 \\ 644$	47
remale	725	Water supply	$\frac{167}{132}$	08 00
. Revenue.		Salaries and wages  Contingencies  Repairs, ordinary	5,895 171 831	58
From the Province of Ontario From the Town of Oshawa	600 00	Surgical instruments Printing, stationery and post-		
From the County of Ontario. From paying patients Subscriptions, donations, etc	$\begin{array}{c} 600 \ 00 \\ 15,159 \ 66 \\ 116 \ 50 \end{array}$	Taxes and insurance	161 2 <b>9</b> 1	
From all other sources		Total	\$17,680	08
Total	\$18,245 57	Government aid for 1918	\$2,163	84

#### GENERAL PROTESTANT HOSPITAL, OTTAWA.

	Revenue.
	From the Province of Ontario \$3,912 09
120	From the City of Ottawa 18,516 50
2547	From the County of Carleton. 1.500 00
	From other municipalities 880 00
	From patients themselves for
	maintenance and treatment 69,944 55
2,667	Income from endowments, in-
	vestments, etc
2,406	Subscriptions, donations and
123	bequests of private individ-
	· uals 7.749 45
138	From other sources not enum-
	erated 3,288 40
2.667	
	Total\$105 790 99
	Expenditures.
1.239	
1,428	Butchers' meat \$8.210 93
	Butter and eggs 5.975 31
2,667	Flour, bread and meal 3.414 02
	2.667  2.667  2.406 123  138  2.667  1.239 1,428

## GENERAL PROTESTANT HOSPITAL, OTTAWA.—Continued.

Milk	5,448	26	Electric light, gas, oil, candles 1,074 35
Tea and coffee	886	71	Water supply 848 52
Potatoes and other vegetables	1,768	95	Clothing for patients, includ-
Groceries and provisions not			ing boots and shoes 162 65
enumerated	5,846	39	lce 251 64
Drugs and medicines	4,115	82	Salaries and wages 28,364 58
Medical and surgical appli-			Taxes and insurance 316 00
ances	11,483	26	Contingencies 4,553 87
Surgical instruments	617	19	Repairs, ordinary 3,310 92
Beer, wine and spirits	730	76	Interest 1,292 60
Bedding, napery and general			Printing, stationery, etc 1,116 90
house furnishings	2,558	04	
Brooms, brushes, mops, soap			Total\$107,601 12
and cleaning appliances	2,022	27	
Fuel	13,231	18	Government grant for 1918 \$4,475 41
			•

## ROMAN CATHOLIC HOSPITAL, OTTAWA.

The following summaries show	the operation	ns of the Hospital during the offic	ial year	r:
Movements of Patients	3.	Expenditures.		
Number under treatment, 1st October, 1917 Admitted Births in Hospital	124 3,082 2	Butchers' meat Butter and eggs Flour, bread and meal Milk Tea and coffee	\$6,268 4,312 3,834 4,604 1,966	23 27 89
Total number under treatment	3.208	Potatoes and other vegetables Groceries and provisions not	2,939	68
Discharged	2,884 134	enumerated	4,814 4,967 4,038	31
ber, 1918	190	Surgical instruments  Beer, wine and spirits	4,248 954	71
Sex.	3,208	Bedding, napery and general house furnishings Brooms, brushes, mops, soap	5,017	07
Male Female	1,588 1,620	and cleaning apliances  Fuel  Electric light, gas, oil, candles	2,487 8,399 3,981	83
Revenue.	3,208	Water supply	564	79
From the Province of Ontario From the City of Ottawa	22.244 90	Ice	500 22.009	00
From the County of Carleton. From other municipalities From patients themselves for	200 00	Taxes and insurance  Contingencies  Repairs, ordinary and addi-	4,921 2,608	
maintenance and treatment. Income from property Subscriptions, donations and	63.948 07	tions	53,507 1,853 663	75 56
bequests of private individ- uals	36,894 00	Radiographic Dept	4,266 20,000	00
enumerated	7,815 58 28,340 00	Total\$1  Government grant for 1918		4
Total\$	166,036 22	Government grant for 1918	φ1,201 .	19

#### MATERNITY HOSPITAL, OTTAWA.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients	3.	Expenditures.		
Number under treatment, 1st October, 1917 Admitted Number of births	36 596 571	Butchers' meat Butter and eggs Flour, bread and meal Milk Tea and coffee	\$1,772 1,456 596 828 201	45 13 28
Total number under treatment	1,203	Potatoes and other vegetables Groceries and provisions not enumerated	764	44
Discharged	$\frac{1,151}{21}$	Drugs and medicines Medical and surgical appli-	684	60
Under treatment, 30th September, 1918	31	ances	246 1,989	-
	1,203	house furnishings	336	49
Sex.		and cleaning appliances Fuel	$150 \\ 1.132$	
Male	310	Gas, oil, candles and electric	,	
Female	893	light Water supply	575 209	
Revenue.	1,203	Beer, wine and spirits		
Revenue.		Ice	$\frac{152}{5.616}$	
From the Province of Ontario	\$542 80	Stationery, printing, etc	222	
From the City of Ottawa	2.300 00	Contingencies	432	
From the County of Carleton.	75 00	Repairs, ordinary	1,807	95
From paying patients them-		Taxes and insurance	5	02
selves	20,617 91	Laundry	780	69
From subscriptions and dona-	200 40	m	***	
From other sources	699 43	Total	\$20,539	65
		Government grant for 1918	\$484	20
Total	324,235 14			

#### MISERICORDIA MATERNITY HOSPITAL, OTTAWA.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients.	
Number under treatment, 1st October, 1917 Admitted Births in Hospital	135 240 253
Total number under treat-	628
Discharged	412 81
ber, 1918	135
	628
Sex.	
Male	181 447
1	628

From the Province of Ontario	\$2,469	73
From the City of Ottawa	3,593	75
From the County of Carleton.	50	00
From patients themselves for		
maintenance and treatment.	3,146	70
Subscriptions, donations and		

Revenue.

 Subscriptions, donations and bequests
 3,099 89

 From other sources not enumerated
 12,453 77

 Total
 \$24,813 84

#### Expenditures.

Butchers' meat	\$1,097	19
Butter and eggs	1,323	96
Flour, bread and meal	1,932	15
Milk	2,888	49
Tea and coffee	31	00
	876	90

## MISERICORDIA MATERNITY HOSPITAL, OTTAWA.—Continued.

Groceries and provisions not enumerated	2,200 95	Hay and straw	262	23
Drugs and medicines	386 79	ing boots and shoes	2.376	36
Medical and surgical appli-		Ice	255	
ances	154 44	Salaries and wages	2.533	20
Surgical instruments	9 74	Taxes and insurance	215	30
Beer, wine and spirits	70 62	Contingencies	179	47
Bedding, napery and general		Repairs, ordinary	662	92
house furnishings	1,350 24	Printing, stationery, etc	145	25
Brooms, brushes, mops, soap		Coffins and funerals	33	50
and cleaning appliances	374 84	_		
Fuel	3, <b>5</b> 60 <b>19</b>	Total	\$24.001	27
Light: gas, oil and candles	593 43		, ,	
Water supply	486 66	Government grant for 1918	\$1,842	01

#### ST. LUKE'S GENERAL HOSPITAL, OTTAWA.

Movements of Patient	s.	Expenditures.		
Number under treatment, 1st October, 1917	90	Butchers' meat	\$8,246 8,817	03
Admitted	$\substack{2,665\\3}$	Flour, bread and meal	2,540 4,343	43
Total number under treat-	9.750	Tea and coffee  Potatoes and other vegetables	$973 \\ 1,876$	
ment	2,758	Groceries and provisions not enumerated	5,221	
Discharged	2,532 94	Drugs and medicines  Medical and surigcal appli-	3,759	
Under treatment, 30th September, 1918	132	ances Surgical instruments	4,122 49	80
-	2,758	Beer, wine and spirits Bedding, napery and general	234	58
sex.		house furnishings Brooms, brushes, mops, soap	2,324	53
		and cleaning appliances	1,074	
MaleFemale	$\frac{1,921}{837}$	Fuel Gas, oil, candles and electric	10,667	48
· -	2.758	light	1,904	08 10
	2,198	Salaries and wages	23,521	
Revenue.		Taxes, insurance and interest Contingencies	$749 \\ 2.941$	
From the Province of Ontario	\$2,387 59	Repairs, ordinary	8.155	
From the City of Ottawa From the County of Carleton.	9,829 55 $200 00$	Printing and postage Clothing for patients	373	
From paying patients them-		Total		-
selves	72,574 22 $260$ 00			b
From subscriptions and donations	6.120 62	Government grant for 1918	\$2,679	02
From other sources				
Total	\$94,102 82			

## THE PERLEY HOME FOR INCURABLES, OTTAWA.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients	8.	Expenditures.	,
Number under treatment, 1st		Butchers' meat	1.107 43
October, 1917	40	Butter and eggs	616 60
	24		600 39
Admitted		Flour, bread and meal	
Births in Hospital		Milk	501 21
		Tea and coffee	101 65
Total number under treat-		Potatoes and other vegetables	
ment	64	Groceries and provisions not enumerated	
Discharged	10	Drugs and medicines	
Died	10	Medical and surgical appli-	
Under treatment, 30th Septem-	10	ances	
	44	Surgical instruments	
ber, 1918	44		• • • • •
-		Beer, wine and spirits	
	64	Bedding, napery and general	
Sex.		house furnishings	
		Brooms, brushes, mops, soap	
Male	24	and cleaning appliances	70 03
Female	40	Fuel	1,653 08
-		Light: gas, oil and candles	247 40
	54	Water supply	
Revenue.		Ice	96 60
20000000		Salaries and wages	4,586 58
From the Province of Ontario	\$1,036 91	Taxes and insurance	389 83
From the City of Ottawa	2.875 00	Hav and straw	,
From the County of Carleton.	2,019 00	Contingencies	848 19
		Repairs, ordinary	270 52
From other municipalities			
From patients themselves for		Printing, stationery, etc	
maintenance and treatment.	4,175 50	Clothing for patients	
Subscriptions, donations and		Bank overdraft paid up	2,838 77
bequests	8,287 33		
From other sources not enum-		Total	\$15,715 81
erated	1,549 11		
-		Government grant for 1918	\$2,559 02
Total	\$17.923 85		

## GENERAL AND MARINE HOSPITAL, OWEN SOUND.

The following summation enough	с орегиего	no or the mospital adming the one	.0141 300	
Movements of Patients.		Revenue.		٠
Number under treatment. 1st		From the Province of Ontario	\$486	43
October, 1917	31	From the Town of Owen Sound	1,000	00
Admitted	650	From the County of Grey	1.000	0.0
Births in Hospital	75	From other municipalities	,	
- In Troopied		From patients themselves for		• 0
Total number under treat-		maintenance and treatment		81
ment	756	From subscriptions, bequests		-
1110210	,	and donations of private per-		
Discharged	706	sons		05
Died	17	From all other sources not	,	
Under treatment, 30th Septem-		enumerated		0.0
ber. 1918	33	-		
		Total	\$21.561	29
	756		4-2,002	
Ser.	,00	Expenditures.		
Male	409	Butchers' meat and fish	\$1.979	63
Female	347	Butter and eggs		
remate		Flour, bread and meal		
	756		953	
	199	Milk	200	91

GENERAL AND MAR	RINE HOSPI	TAL, OWEN SOUND.—Continued.	
Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Drugs and medicines Medical and surgical appliances Beer, wine and spirits Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel	282 90 360 21 3,435 49 1,051 47 814 10  311 55 1,256 09	Electric light, gas, oil lce Salaries and wages Insurance and interest Contingencies Repairs, ordinary Printing, stationery, etc. Freight and cartage  Total  Government grant for 1918	658 68 83 07 5,004 84 112 51 37 50 686 09 487 05 1,033 00 \$20,253 70 \$285 76
GENERA	L HOSPITA	AL, PARRY SOUND.	
The following summaries show	the operatio	ns of the Hospital during the offic	ial year:
Movements of Patients		Expenditures.	
Number under treatmen* 1st October, 1917	14 252 18	Butchers' meat Butter and eggs Flour, bread and meal Milk Tea and coffee	\$932 59 994 49 284 80 41 92 115 84
Total number under treat- ment	284	Potatoes and other vegetables Groceries and provisions not enumerated	247 22 1,357 43
Discharged	260 9 15	Drugs and melicines  Medical and surgical appliances  Surgical instruments	715 80 371 75 108 13
-	284	Beer, wine and spirits Bedding, napery and general house furnishings	42 40 341 48
Ser.  Male  Female	195 89	Brooms, brushes, mops, soap cleaning	120 52 615 96 134 41 123 50
Revenue.	284	lce supply	$\begin{array}{r} 36 \ 00 \\ 197 \ 69 \\ 2,033 \ 18 \\ 207 \ 70 \end{array}$
From the Province of Ontario From Town of Parry Sound . From paying patients Subscriptions, donations, etc Cther sources	\$638 30 77 50 6,875 65 1,250 00 564 16	Repairs, ordinary	145 00 32 00 20 55 85 25
Total	\$9,405 61	Total	
· car iocediic	GENERAL E	HOSPITAL, PARRY'SOUND,	
		ons of the Hospital during the office	cial vear:
Movements of Patients  Number under treatment, 1st October, 1917	s. 13	Discharged Died Under treatment, 30th September, 1918	362 15
Admitted	$\begin{array}{c} 333 \\ 46 \end{array}$	-	392
Total number under treat- ment	392		

ST. JOSEPH'S GENER	AL HOSPIT	AL, PARRY SOUND Continued.	
Sex.		Milk	168 65
Now.		Tea and coffee	326 20
Male	219	Potatoes and other vegetables	222 16
Female	173	Groceries and provisions not	
remaie	110	enumerated	1,028 65
	392	Drugs and medicines	81 77
	394	- 0	01 11
70		Surgical instruments and ap-	450.99
Revenue.		pliances	459 22
		Beer, wine and spirits	21 00
From the Province of Ontario	\$1,110 30	Bedding, napery and general	
From the Town of Parry		house furnishings	273 87
Sound		Brooms, brushes, mops, soap	
From other municipalities of		and cleaning appliances	60 75
the Province		Fuel	1,000 33
From patients themselves for		Electric light, gas, oil, candles	153 10
maintenance and treatment.	7,220 10	Water supply	92 28
From subscriptions, donations	í l	Salaries and wages	1,219 25
and bequests from private		Ice supply	20 00
individuals	31 00	Contingencies	121 43
From all other sources	146 75	Repairs, ordinary	226 95
Trom an other sources		Printing and postage	46 60
Total	\$8 508 15	Hay and straw	81 08
10td1	φυ,500 19	Taxes and insurance	
Then an diturna		Clothing for patients	35 00
Expenditures.		Clothing for patients	33 00
- 11	0000 50	Total	\$7,693 20
Butchers' meat	\$830 72	Total	\$1,000 40
Butter and eggs	571 02	~	01 400 00
Flour, bread and meal	653 35	Government grant for 1918	\$1,402 32
GENE	RAL HOSPI	TAL, PEMBROKE.	
		ns of the Hospital during the offi	cial vear
			ciai jeai.
Movements of Patients	·.	Expenditures.	
			01 001 00
Number under treatment, 1st		Butchers' meat	\$1,934 32
Number under treatment, 1st October, 1917	41	Butter and eggs	1,166 44
	41 889		1,166 44 765 08
October, 1917		Butter and eggs	1,166 44 765 08 226 30
October, 1917	889	Butter and eggs	1,166 44 765 08 226 30 429 95
October, 1917	889	Butter and eggs	1,166 44 765 08 226 30
October, 1917	889	Butter and eggs	1,166 44 765 08 226 30 429 95
October, 1917	889	Butter and eggs	1,166 44 765 08 226 30 429 95
October, 1917	948	Butter and eggs	1,166 44 765 08 226 30 429 95 632 95
October, 1917	889	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated	1,166 44 765 08 226 30 429 95 632 95 2,688 27
October, 1917 Admitted	948 842	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines	1,166 44 765 08 226 30 429 95 632 95 2,688 27 295 80
October, 1917  Admitted	948 842 51	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appli-	1,166 44 765 08 226 30 429 95 632 95 2,688 27 295 80 591 07
October, 1917 Admitted	948 842	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances	1,166 44 765 08 226 30 429 95 632 95 2,688 27 295 80 591 07 209 35
October, 1917  Admitted	948 842 51	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances Beer, wine and spirits	1,166 44 765 08 226 30 429 95 632 95 2,688 27 295 80 591 07
October, 1917  Admitted	948 842 51	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances Beer, wine and spirits Bedding, napery and general	1,166 44 765 08 226 30 429 95 632 95 2,688 27 295 80 591 07 209 35 141 19
October, 1917	948 842 51	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances Beer, wine and spirits Bedding, napery and general house furnishings	1,166 44 765 08 226 30 429 95 632 95 2,688 27 295 80 591 07 209 35
October, 1917  Admitted	948 842 51	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances Beer, wine and spirits Bedding, napery and general house furnishings Brooms, brushes, mops, soap	1,166 44 765 08 226 30 429 95 632 95 2,688 27 295 80 591 07 209 35 141 19 376 68
October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died Under treatment, 30th September, 1918	948 842 51 55	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances Beer, wine and spirits Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances	1,166 44 765 08 226 30 429 95 632 95 2,688 27 295 80 591 07 209 35 141 19 376 68 163,42
October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died Under treatment, 30th September, 1918  Sex.  Male	948 842 51 55 948	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances Beer, wine and spirits Bedding napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel	1,166 44 765 08 226 30 429 95 632 95 2,688 27 295 80 591 07 209 35 141 19 376 68 163 42 2,957 82
October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died Under treatment, 30th September, 1918	948 842 51 55	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances Beer, wine and spirits Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and can-	1,166 44 765 08 226 30 429 95 632 95 2,688 27 295 80 591 07 209 35 141 19 376 68 163 42 2,957 82
October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died Under treatment, 30th September, 1918  Sex.  Male	948 842 51 55 948 431 517	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances Beer, wine and spirits Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles	1,166 44 765 08 226 30 429 95 632 95 2,688 27 295 80 591 07 209 35 141 19 376 68 163 42 2,957 82 481 23
October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died Under treatment, 30th September, 1918  Sex.  Male	948 842 51 55 948	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances Beer, wine and spirits Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water	1,166 44 765 08 226 30 429 95 632 95 2,688 27 295 80 591 07 209 35 141 19 376 68 163 42 2,957 82 481 23 115 84
October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died Under treatment, 30th September, 1918  Sex.  Male	948 842 51 55 948 431 517	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances Beer, wine and spirits Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water Hay and straw	1,166 44 765 08 226 30 429 95 632 95 2,688 27 295 80 591 07 209 35 141 19 376 68 163 42 2,957 82 481 23 115 84 394 51
October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died Under treatment, 30th September, 1918  Sex.  Male	948 842 51 55 948 431 517	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances Beer, wine and spirits Bedding napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water Hay and straw Clothing for patients, includ-	1,166 44 765 08 226 30 429 95 632 95 2,688 27 295 80 591 07 209 35 141 19 376 68 163 42 2,957 82 481 23 115 84 394 51
October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died Under treatment, 30th September, 1918  Sex.  Male Female	948 842 51 55 948 431 517	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances Beer, wine and spirits Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water Hay and straw Clothing for patients, including boots and shoes	1,166 44 765 08 226 30 429 95 632 95 2,688 27 295 80 591 07 209 35 141 19 376 68 163 42 2,957 82 481 23 115 84 394 51 401 08
October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died Under treatment, 30th September, 1918  Sex.  Male Female	948 842 51 55 948 431 517 948 .	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances Beer, wine and spirits Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water Hay and straw Clothing for patients, including boots and shoes Ice	1,166 44 765 08 226 30 429 95 632 95 2,688 27 295 80 591 07 209 35 141 19 376 68 163 42 2,957 82 481 23 115 84 394 51 401 08 52 20
October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died Under treatment, 30th September, 1918  Sex.  Male Female  Revenue.  From the Province of Ontario	948 842 51 55 948 431 517 948 .	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances Beer, wine and spirits Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water Hay and straw Clothing for patients, including boots and shoes	1,166 44 765 08 226 30 429 95 632 95 2,688 27 295 80 591 07 209 35 141 19 376 68 163 42 2,957 82 481 23 115 84 394 51 401 08 52 20 4,176 00
October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died  Under treatment, 30th September, 1918  Sex.  Male Female  Revenue.  From the Province of Ontario From the County of Renfrew	889 18 948 842 51 55 948 431 517 948 .	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances Beer, wine and spirits Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water Hay and straw Clothing for patients, including boots and shoes Ice Salaries and wages Contingencies	1,166 44 765 08 226 30 429 95 632 95  2,688 27 295 80 591 07  209 35 141 19  376 68  163,42 2,957 82  481 23 115 84 394 51  401 08 52 20 4,176 00 339 83
October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died Under treatment, 30th September, 1918  Sex.  Male Female  Revenue.  From the Province of Ontario From the County of Renfrew From Town of Pembroke	\$89 18 948 842 51 55 948 431 517 948 . \$2,545 62 1,386 25 1,500 00	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances Beer, wine and spirits Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water Hay and straw Clothing for patients, including boots and shoes Ice Salaries and wages Contingencies	1,166 44 765 08 226 30 429 95 632 95  2,688 27 295 80 591 07  209 35 141 19  376 68  163,42 2,957 82  481 23 115 84 394 51  401 08 52 20 4,176 00 339 83
October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died Under treatment, 30th September, 1918  Sex.  Male Female  Revenue,  From the Province of Ontario From the County of Renfrew From Town of Pembroke From other municipalities	948 948 842 51 55 948 431 517 948 . \$2.545 62 1,386 25 1,500 00	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances Beer, wine and spirits Bedding napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water Hay and straw Clothing for patients, including boots and shoes Ice Salaries and wages Contingencies Repairs, ordinary	1,166 44 765 08 226 30 429 95 632 95  2,688 27 295 80 591 07  209 35 141 19  376 68  163,42 2,957 82  481 23 115 84 394 51  401 08 52 20 4,176 00 339 83 495 07
October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died Under treatment, 30th September, 1918  Sex.  Male Female  Revenue.  From the Province of Ontario From the County of Renfrew From Town of Pembroke From other municipalities From patients themselves	\$89 18 948 842 51 55 948 431 517 948 . \$2,545 62 1,386 25 1,500 00	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances Beer, wine and spirits Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water Hay and straw Clothing for patients, including boots and shoes Ice Salaries and wages Contingencies Repairs, ordinary Taxes and insurance	1,166 44 765 08 226 30 429 95 632 95  2,688 27 295 80 591 07 209 35 141 19 376 68 163,42 2,957 82 481 23 115 84 394 51 401 08 52 20 4,176 00 339 83 495 07 936 11
October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died  Under treatment, 30th September, 1918  Sex.  Male Female  Revenue.  From the Province of Ontario From the County of Renfrew From Town of Pembroke From other municipalities From patients themselves From subscriptions, bequests	\$89 18 948 842 51 55 948 431 517 948 . \$2.545 62 1,386 25 1,500 00 14,361 20	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances Beer, wine and spirits Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water Hay and straw Clothing for patients, including boots and shoes Ice Salaries and wages Contingencies Repairs, ordinary Taxes and insurance Printing, stationery, etc.	1,166 44 765 08 226 30 429 95 632 95  2,688 27 295 80 591 07 209 35 141 19 376 68  163,42 2,957 82  481 23 115 84 394 51  401 08 52 20 4,176 00 339 83 495 07 936 11 218 63
October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died  Under treatment, 30th September, 1918  Sex.  Male  Female  Revenue.  From the Province of Ontario From the County of Renfrew From Town of Pembroke From other municipalities From patients themselves and donations of private in-	\$89 18 948 842 51 55 948 431 517 948 . \$2,545 62 1,386 25 1,500 00  14,361 20	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances Beer, wine and spirits Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water Hay and straw Clothing for patients, including boots and shoes Ice Salaries and wages Contingencies Repairs, ordinary Taxes and insurance	1,166 44 765 08 226 30 429 95 632 95  2,688 27 295 80 591 07 209 35 141 19 376 68  163,42 2,957 82  481 23 115 84 394 51  401 08 52 20 4,176 00 339 83 495 07 936 11 218 63
October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died Under treatment, 30th September, 1918  Sex.  Male Female  Revenue.  From the Province of Ontario From the County of Renfrew From Town of Pembroke From other municipalities From patients themselves From subscriptions, bequests and donations of private individuals	\$89 18 948 842 51 55 948 431 517 948 . \$2,545 62 1,386 25 1,500 00  14,361 20 808 45	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances Beer, wine and spirits Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water Hay and straw Clothing for patients, including boots and shoes Ice Salaries and wages Contingencies Repairs, ordinary Taxes and insurance Printing, stationery, etc. Hardware	1,166 44 765 08 226 30 429 95 632 95  2,688 27 295 80 591 07 209 35 141 19 376 68 163,42 2,957 82 481 23 115 84 394 51 401 08 52 20 4,176 00 339 83 495 07 936 11 218 637 55
October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died  Under treatment, 30th September, 1918  Sex.  Male  Female  Revenue.  From the Province of Ontario From the County of Renfrew From Town of Pembroke From other municipalities From patients themselves and donations of private in-	\$89 18 948 842 51 55 948 431 517 948 . \$2,545 62 1,386 25 1,500 00  14,361 20	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances Beer, wine and spirits Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water Hay and straw Clothing for patients, including boots and shoes Ice Salaries and wages Contingencies Repairs, ordinary Taxes and insurance Printing, stationery, etc.	1,166 44 765 08 226 30 429 95 632 95  2,688 27 295 80 591 07 209 35 141 19 376 68 163,42 2,957 82 481 23 115 84 394 51 401 08 52 20 4,176 00 339 83 495 07 936 11 218 637 55
October, 1917 Admitted Births in Hospital  Total number under treatment  Discharged Died Under treatment, 30th September, 1918  Sex.  Male Female  Revenue.  From the Province of Ontario From the County of Renfrew From Town of Pembroke From other municipalities From patients themselves From subscriptions, bequests and donations of private individuals	\$89 18 948 842 51 55 948 431 517 948 . \$2,545 62 1,386 25 1,500 00 14,361 20 808 45 250 47	Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Surgical instruments Drugs and medicines Medical and surgical appliances Beer, wine and spirits Bedding, napery and general house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil and candles Water Hay and straw Clothing for patients, including boots and shoes Ice Salaries and wages Contingencies Repairs, ordinary Taxes and insurance Printing, stationery, etc. Hardware	1,166 44 765 08 226 30 429 95 632 95  2,688 27 295 80 591 07 209 35 141 19 376 68  163,42 2,957 82  481 23 115 84 394 51  401 08 52 20 4,176 00 339 83 495 07 936 11 . 218 63 637 55  \$20,826 69

## COTTAGE HOSPITAL, PEMBROKE.

The following summaries show the operations of the Hospital during the official year:

	-			
Movements of Patients	•	Expenditures.		
Number under treatment, 1st		Butchers' meat	\$716	28
	7	Butter and eggs	565	
October, 1917	317	Flour, bread and meal	283	
Admitted			480	
Births in Hospital	30	Milk		00
		Tea and coffee		-
Total number under treat-		Potatoes and other vegetables	<b>1</b> 66	0.9
ment	354	Groceries and provisions not		
		enumerated	1,601	
Discharged	332	Drugs and medicines	722	91
Died	12	Medical and surgical appli-		
Under treatment, 30th Septem-		ances	293	85
ber, 1918	10	Surgical instruments	299	38
		Beer, wine and spirits	2	00
	354	Bedding, napery and general		
Sex.	001	house furnishings	556	04
Sew.	1-4-4-	Brooms, brushes, mops, soap		
Male	186	and cleaning appliances	31	65
Female	168	Fuel	1,150	
remale	103	Electric light, gas, oil and	1,100	• •
_	354	candles	191	74
<b>D</b> a	594			80
- Revenue.		Water supply	4,335	
		Salaries and wages	4,555	
From the Province of Ontario	\$468 81	Taxes and insurance		
From the County of Renfrew.	637 82	Hay and straw	:::	
From Town of Pembroke	1,000 00	Contingencies	515	
From patients themselves for		Repairs, ordinary		34
maintenance and treatment.	7,429 69	Ice supply		80
From endowments, invest-		Printing, postage, etc		09
ments, etc	80 00	Clothing for patients	6	00
From subscriptions, donations				
and bequests from private		Total	\$13,002	89
individuals	1.582 89		,	
From other sources	1,550 00	Government grant for 1918	\$131	97
From other sources	1,000 00	dovernment grant for 1919	,	1
Total	19 7/0 91	·	-	ager a
iotai	712,140 AL	1		

#### GENERAL HOSPITAL, PENETANGUISHENE.

The following summaries show th	ie operatio	ons of the Hospital during the om	ciai year.
Movements of Patients.		Revenue.	
Number under treatment, 1st	5	From the Province From the Town of Penetang.	\$253 <b>31</b> 300 <b>00</b>
October, 1917	169	From the County of Simcoe	500 00
Births in Hospital	41	From other municipalities	300 00
Diffus in Hospital		From patients themselves for	
Total number under treat-		maintenance and treatment.	1.446 80
ment	215	From subscriptions, donations	1,119 00
Ment	210	and bequests from private	
Discharged	161	individuals	2.120 71
Died	51	From other sources	450 01
Under treatment, 30th Septem-	~~	Trom other boards	
ber, 1918	3	Total	\$5.070 83
<del></del>	215	Expenditures.	
Sex.			
		Butchers' meat	\$506 55
Male	74	Butter and eggs	
Female	141	Flour, bread and meal	:::::=
		Milk	164 57
	215	Tea and coffee	
0			

#### GENERAL HOSPITAL, PENETANGUISHENE .- Continued.

Potatoes and other vegetables		Light: gas, oil and candles	50 56
Groceries and provisions not		Salaries and wages	1,131 44
enumerated	1,082 47	Taxes and insurance	
Drugs and medicines		Contingencies	82 59
Medical and surgical appli-		Laundry, etc	407 20
ances	338 57	Ice	
Beer, wine and spirits		Repairs, ordinary	252 70
Bedding, napery and general		Printing and postage	553 27
house furnishings		_	<del></del>
Brooms, brushes, mops, soap		Total	\$5,044 92
and cleaning appliances			
Fuel	475 00	Government grant for 1918	\$405 42
		0	

#### THE NICHOLLS' HOSPITAL, PETERBOROUGH.

The following summaries show the operations of the Hospital during the official year:

**Movements of Patients.**

**Expenditures.**

Number under treatment, 1st October, 1917 Admitted Births in Hospital	40 1,096 134
Total number under treat- ment	1,270
Discharged	1,163 71 36
Sex.	1,270
Male	523 747
Revenue.	1,270
From the Province of Ontario From the City of Peterborough From patients themselves for maintenance and treatment.	\$1,921 16 670 00 23,430 89
From property belonging to Hospital, endowments, etc From subscriptions, donations, and bequests from private individuals	10,474 65 500 00
Total	\$36.996 70

Expenditures.		
Butchers' meat	\$2,564	92
Butter and eggs	2.145	56
Flour, bread and meal	965	83
Milk	1,567	32
Tea and coffee	375	15
Potatoes and other vegetables	706	24
Groceries and provisions not		
enumerated	3,051	24
Drugs and medicines	1,402	55
Surgical instruments and ap-		
pliances	2,307	
Beer, wine and spirits	319	55
Bedding, napery and general	0.007	0.0
house furnishings	3,237	33
Brooms, brushes, mops, soap	281	56
and cleaning appliances	5.347	-
Fuel Electric light, gas, oil, candles	636	
Water supply	56	
Clothing for patients	• • • •	
Ice	145	
Salaries and wages	10,456	
Taxes and insurance	436	
Hav and straw		
Contingencies	608	56
Printing, stationery, etc	250	78
Repairs, ordinary	1,337	70
	200.000	
Total	\$38,200	52
Government grant for 1918	\$2,044	99

#### ST. JOSEPH'S HOSPITAL, PETERBOROUGH.

The following summaries show the operations of the Hospital during the official year:

	Number under treatment, 1st
18	October, 1917
628	Admitted
37	Births in Hospital

S	of the Hospital during the omeial	year.
	Discharged	627
	Died	24
	Under treatment, 30th Septem-	32
	ber, 1918	32

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ST. JOSEPH'S HOSPITAL, I	PETERBOROUGH.—Continued.
Sex.	Groceries and provisions not
~~~	enumerated
Male 299	Drugs and medicines 478 23
Female	Medical and surgical appli-
	ances 921 04
683	Beer, wine and spirits 75 15
•	Bedding, napery and general
Revenue.	house furnishings 530 49
	Brooms, brushes, mops, soap
From the Province of Ontario \$1,680 90	and cleaning appliances 72 91
From the City of Peterborough 431 00	Fuel 2,079 27
From patients themselves for	Electric light, gas, oil and
maintenance and treatment 11,874 89	power 507 80
From subscriptions, donations	Water supply 122 75
and bequests from private	Hay and straw 245 65
individuals	Clothing for sisters
From all other sources 549 76	Salaries and wages 2,086 99
M14500 55	Printing, stationery, etc
Total\$14,536 55	- Control of the cont
Thurst did was	Taxes and insurance
Expenditures.	Ice supply
Butchers' meat \$944 17	Surgical instruments 150 00
Butter and eggs 807 00	Surgical institutions
Flour, bread and meal 514 00	Total\$12,977 72
Milk	10ta1
Tea and coffee	Government grant for 1918 \$1,235 23
Potatoes and other vegetables 708 72	dovernment grant for 1010 \$1,200 20
Totatoos and other vegetasies 100 12	1
	
	EHART HOSPITAL, PETROLIA.
The following summaries show the operation	ons of the Hospital during the official year:
Movements of Patients.	Expenditures.
1	Butchers' meat and fish \$386 88
Number under treatment, 1st	Butter and eggs 627 23
October, 1917 9	Flour, bread and meal
Admitted	Milk 53 80
Number of births in Hospital 12	Tea and coffee
Title work or and her treat	Potatoes and other vegetables
Total number under treat-	Groceries and provisions not
ment 180	enumerated 1.765 88
Discharged 155	Drugs and medicines 677 83
	Medical and surgical appli-
Died	ances
Onder treatment, soth Septem-	Reer wine and spirits

Number under treatment, 1st	
October, 1917	9
Admitted	159
Number of births in Hospital	12
Total number under treat-	
ment	180
Discharged	155
Died	16
Under treatment, 30th Septem-	
ber, 1918	9
	180
Sex.	
Male	$\frac{67}{113}$
Female	113
	180
Revenue.	
From the Province of Contario	\$821 56
From the Town of Petrolia	1.000 00
From the County of Lambton.	
From paying patients	5.624 07
Subscriptions, donations, etc	2,025 00
From other sources	1.02791
Total	\$10.498 54

;	of the Hospital during the off	icial year:
	Expenditures.	
	Butchers' meat and fish Butter and eggs Flour, bread and meal Milk	\$386 88 627 23 53 80
	Tea and coffee	
	Groceries and provisions not	
	enumerated	1.765 88 677 83
	Medical and surgical appli-	
	ances	
	house furnishings	322 00
	Brooms, brushes, mops, soap	
	and cleaning appliances	
	Fuel Electric light, gas, oil, candles	
	Water supply	
	Hay and straw	
	Salaries and wages	
	Contingencies	
	Repairs, ordinary	
	Laundry	
	Printing, stationery and post-	
	age	
	Maintenance of grounds	
	Ice	
	Taxes and insurance	66 80
	Total	\$10.498 54
	Government aid for 1918	\$928 28

RAILWAY, MARINE AND GENERAL HOSPITAL, PORT ARTHUR.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients	· .	Expenditures.	
Number under treatment, 1st October, 1917 Admitted Births in Hospital	16 774 56	Flour, bread and meal 83	2 21 9 49 2 90 9 10
Total number under treat-	846		7 30 4 62
Discharged	786 35	Drugs and medicines 80 Surgical and medical appli-	3 03 4 37
Under treatment, 30th September, 1918	25	Beer, wine and spirits 10 Bedding, napery and general	0 67 3 39
Sex.	846	Fuel	4 74 6 60
Male Female	541 305	Electric light, gas, oil, candles Water supply	9 22 7 25 9 89
Revenue.	846	Salaries and wages 8,38 Taxes and insurance 48	0 80 5 76 8 64
From the Province of Ontario From the City of Port Arthur From patients themselves for	\$2,563 24 5,888 26	Contingencies	3 48 1 99 5 11
maintenance and treatment. From subscriptions, donations and bequests from private	16,579 04	Nurses' books	3 48 1 87 7 60
individuals From other sources Bank overdraft	152 86 306 96 1,919 74	Total	6 61
Total	\$27,410 10	Government grant for 1918 \$3,07	6 85

ST. JOSEPH'S HOSPITAL, PORT ARTHUR.

Movements of Patients.		Revenue.	
Number under treatment, 1st October, 1917 Admitted	29 882	From the Province of Ontario \$2,362 From the City of Port Arthur 4,869 From patients themselves for	36
Births in Hospital Total number under treat-	92	maintenance and treatment. 21,979 From subscriptions, donations and bequests from private	62
ment	1.003	individuals	
Discharged Died	919 33	Total\$32,820	72
Under treatment, 30th September, 1918	51	Expenditures.	
	1.003	Butchers' meat and fish \$2,546 Butter and eggs 1,463	
Sex.		Flour, bread and meal 1,472 Milk	
Male	$\frac{528}{475}$	Tea and coffee	
	1.003	Groceries and provisions not enumerated 220	00

ST. JOSEPH'S HOSPITAL, PORT ARTHUR.-Continued.

Drugs and medicines Surgical and medical appli-	971 18	Taxes and insurance, tele- phone and power 544 89
ances		
ances	1,519 00	Stationery, printing, etc 170 98
Beer, wine and spirits	120 27	7 Contingencies
Bedding, napery and general		Repairs, ordinary 1,621 50
house furnishings	1,899 49	
Fuel	10,608 69	
Brooms, brushes, mops, soap		Surgical instruments
and cleaning appliances	368 74	Telephone and power
Electric light, gas, oil and		Coffins and funerals 40 00
power	199 15	<u> </u>
Water supply	154 74	4 Total\$33,628 00
Ice	153 45	
Salaries and wages	5,047 30	

GENERAL HOSPITAL, PORT HOPE.

The following summaries show the operations of the Hospital during the official year:

٥.
14 244 33
291
255
28
8
291
132
159
291
\$1,050 63
300 00
300 00
100 00
= 22 00
560 00
7.004.90
7,094 26
307 00
40 34
\$9,752 23

Movements of Patients.

Butter and eggs 543 Bread 267 Milk 130 Tea and coffee 26	45 50 30
Bread 267 Milk 130	50 30
Milk 130	30
rea and conee 26	44
Potatoes and other vegetables 182	
Groceries and provisions not	
enumerated 495	69
Drugs and medicines, medical	
and surgical appliances 661	98
Bedding, napery and general	
house furnishings 217	55
Brooms, brushes, mops, soap	
and cleaning appliances 121	24
Fuel 1,747	05
Light, gas, oil and candles 247	82
Salaries and wages 3,264	22
Insurance and taxes 118	85
Contingencies 92	40
Repairs, ordinary 444	29
Ice 42	60
Water 82	15
Printing, stationery, postage. 141	42
Hay and straw 191	46
Beer, wine and spirits 86	27

Expenditures.

VICTORIA GENERAL HOSPITAL, RENFREW.

The following summaries show the operations of the Hospital during the official year:

Movements of Patient	s.
Number under treatment, 1st October, 1917 Admitted Births in Hospital	28 502 68
Total number under treat- ment	598
Discharged	534 33 31
Sex.	598
Male	296 302
Revenue.	598
From the Province of Ontario From the Town of Renfrew From the County of Renfrew From other municipalities From patients for maintenance and treatment From subscriptions, donations and bequests from private individuals Bank overdraft	\$903 12 600 00 930 02 125 00 9,863 39 778 20 3,123 26
Total	\$16,322 99

Expenditures.		
Butchers' meat \$	833	68
Butter and eggs	620	80
Flour, bread and meal	719	17
Milk	896	93
Tea and coffee	85	70
Potatoes and other vegetables	81	71
Groceries and provisions not		
	253	04
Medical and surgical appli-		
	506	25
Surgical instruments	12	76
	148	33
Bedding, napery and general		
	895	56
Fuel	718	72
	382	56
Water supply	24	
Ice supply	89	15
	517	
Laundry	8	
	160	
	240	
Brooms, brushes and cleaning		
Clothing for patients	5	25
Total \$16,	322	99
Government grant for 1918 \$1,	076	78

GENERAL AND MARINE HOSPITAL, ST. CATHARINES.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients	S.
Number under treatment, 1st October, 1917 Admitted Births in Hospital	39 1,173 233
Total number under treat- ment	1,445
Discharged	$\frac{1,298}{96}$
Under treatment, 30th September, 1918	51
sex.	1,445
Male	599 846
1	1,445

Revenue.

From the Province of Ontario	\$1,497	62
From the City of St. Cathar-		
ines	6,500	00
From the County of Lincoln.	1,718	00
From other municipalities		
From patients themselves for		
maintenance and treatment.	24,128	50
From endowments, invest-		
ments, or other property		
belonging to the Hospital	48	35
From subscriptions, bequests		
and donations of private		
persons	4,164	00
From all other sources not		
above enumerated	1,833	42
-		
Total	\$39,889	89

GENERAL AND MARINE HOSPITAL, ST. CATHARINES.—Continued.

Expenditures.		Bedding, napery and general	
		house furnishings 1,509 5.	5
Butchers' meat and fish	\$4,081 51	Brooms, brushes, mops, soap	
Flour, bread and meal	2,573 11	and cleaning appliances 842 7	3
Butter and eggs	1,504 80	Fuel 5,951 1	2
Milk	2,214 32	Electric light, gas, oil, candles 802 1	8
Tea and coffee	389 80	Water supply 95 4	0
Potatoes and other vegetables		Ice 448 3	5
and fruit	725 - 09	Salaries and wages 9,486 00	0
Groceries and provisions not		Taxes and insurance 370 38	
enumerated	3,586 06	Contingencies 347 8	5
Drugs and medicines	1,518 70	Repairs, ordinary 1,763 43	3
Medical and surgical appli-		Printing, stationery, etc 174 23	
ances	1,287 40		
Surgical instruments	203 11	Total\$39,889 89	9
Beer, wine and spirits	14 75	, , , , , , , , , , , , , , , , , , , ,	-
-		Government grant for 1918 \$1,553 53	5

AMASA WOOD HOSPITAL, ST. THOMAS.

Movements of Patients	3.	Expenditures.		
Number under treatment. 1st		Butchers' meat	¢1 477	Ω1
October, 1917	37		\$1,477	
Admitted	934	Butter and eggs	737	
Births in the Hospital	169	Flour, bread and meal Milk	578	
Births in the Hospital	100	Tea and coffee	1,286	
Total number under treat-			294	
ment	1,140	Potatoes and other vegetables	743	20
Discharged	1,041	Groceries and other provisions	4 1 9 0	0.0
Died	60	not enumerated	4.130	-
Under treatment, 30th Septem		Drugs and medicines	2,665	10
ber, 1918	39	Medical and surgical appli-	58	0.0
ber, 1016		ances		63
	* 1,140	Beer, wine and spirits	23	
	1,140	Bedding, etc.	1.581	
Sex.		Brooms, brushes, mops, soap	1.551	94
Sca.		and cleaning appliances	1,962	0.0
Male	428	Fuel	1,962 $1,491$	
Female	712		1,491 $1,027$	
- Cmare		Electric light, gas, oil, candles Water supply	76	
	1,140	Ice	74	
	1,110	Ambulance expenses	70	
		Salaries and wages	5,710	
Revenue.		Taxes and insurance	43	
necenae.		Contingencies	1.360	
From the Province of Ontario	\$1 999 01	Repairs, ordinary	318	
From the City of St. Thomas	6.487 50	Printing, stationery, etc	874	
From paying patients them-	0,101 00	Coffins and funerals	314	
selves	15 570 76	Comms and runerars		• •
Other sources		Total\$2	26.657	41
_		10001	.0,001	AT T
Total \$	324,479 46	Government grant for 1918 \$	\$1,470	10

GENERAL HOSPITAL, SARNIA.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients		Expenditures.		
Number under treatment, 1st October, 1917 Admitted Births in Hospital	35 578 106	Butchers' meat Butter and eggs Flour, bread and meal Milk Tea and coffee	\$2,957 2,064 762 921	20 85 85
Total number under treat- ment	719	Potatoes and other vegetables Groceries and provisions not enumerated	525 2,406	73
Discharged	$\begin{array}{c} 613 \\ 56 \end{array}$	Drugs and medicines Surgical instruments and appliances	357 1,540	
ber, 1918	50	Beer, wine and spirits Bedding, napery and general	68	
Sex.	719	house furnishings Fuel Electric light, gas, oil and	970 1,137	
Male Female	299 420	candles	711 $2,681$ 150	69
Revenue.	719	Salaries and wages Insurance Contingencies	4,492	80 00
From the Province of Ontario From the Town of Sarnia	\$836 92 2,000 00	Repairs, ordinary	1,619 133	10 10
From the County of Lambton From patients themselves for maintenance and treatment.	800 00 19,400 78	Nurses' furnishings Nurses' home	238 491	
From property belonging to the Hospital	1,458 18	Total	•	
From subscriptions, donations, and bequests from private individuals	298 13	Government grant for 1918	\$935	97
Total	\$24,794 01			

GENERAL HOSPITAL, SAULT STE. MARIE.

The following summaries show the	e operatioi	is of the Hospital during the omeial year.
Movements of Patients.	}	Revenue.
Number under treatment, 1st October, 1917 Admitted Births in Hospital	30 82 4 54	From the Province of Ontario \$3,065 80 From the City of Sault Ste. Marie
Total number under treat-	908	From other municipalities 630 75 From patients themselves for maintenance and treatment. 24,519 41 Subscriptions, donations and
Discharged	832 42	bequests of private individuals
Under treatment, 30th September, 1918	34	erated 9,002 67
	908	Total\$41,327 22
Sex.		Expenditures.
Male Female	579 329 908	Butchers' meat \$2,928 49 Butter and eggs 1,039 20 Flour, bread and meal 1,022 14

GENERAL HOSPITAL, SAULT STE. MARIE.—Continued.

Milk	1,114 93	Water supply 179 17
Tea and coffee	1,498 20	Clothing for patients, includ-
Potatoes, vegetables and fruit	$732 \ 50$	ing boots and shoes 2,067 11
Groceries and provisions not		Ica
enumerated	3.272 - 01	Salaries and wages 3,336 10
Drugs and medicines	2,934 55	Contingencies 1990 40
	2,004 00	Contingencies
Medical and surgical appli-		Repairs, ordinary 13,051 55
ances	877 - 00	Taxes and insurance 445 37
Beer, wine and spirits	274 50	Printing, stationery, etc 224 64
Bedding, napery and general		Hay and straw 6 97
house furnishings	2,457 66	1145 4114 50144
	2,401 00	CD 1 1
Brooms, brushes, mops, soap		Total\$41,991 95
and cleaning appliances	727 12	
Fuel	2,136 52	Government grant for 1918 2,250 97
Electric light, gas, oil and	,	3,200 01
candles	383 07	
Canulos	909 01	

ROYAL VICTORIA HOSPITAL, SAULT STE. MARIE.

		Expenditures.		
Movements of Patients	•			
•		Butchers' meat	\$795	24
Number under treatment, 1st		Butter and eggs	730	
October, 1917	12	Flour, bread and meal	232	
Admitted	396	Milk	520	
Births in the Hospital	39	Tea and coffee		
Diffus in the Hospital	00			25
Total number under treet		Potatoes and other vegetables	175	00
Total number under treat-	4.45	Groceries and other provisions		
ment	447	not enumerated	506	
		Drugs and medicines	442	72
Discharged	408	Medical and surgical appli-		
Died	23	ances	370	53
Under treatment 30th Septem-		Surgical instruments	148	27
ber, 1918	16	Beer, wine and spirits		
		Bedding, etc.		
	477	Brooms, brushes, mops, soap		
		and cleaning appliances	48	20
Sex.		Fuel	843	
~~.		Electric light, gas, oil, candles	188	
Male	268	Water supply		63
Female	179	Ice		38
Temale	113			
_	447	Ambulance expenses	F 440	
	447	Salaries and wages	5,443	
D	•	Taxes and insurance	1,811	
Revenue.		Contingencies	1,104	
7		Repairs, ordinary		50
From the Province of Ontario		Printing, stationery, etc	145	71
From the City of Sault Ste.		-		
Marie	\$243 00	Total	\$13,132	47
From paying patients them-				
selves	7,399 91	Government grant for 1918	\$1,358	67
Other sources	2,970 00			
<i>-</i>				
Total\$	10,612 91	I		

PUBLIC HOSPITAL, SMITH'S FALLS.

	_		-	
Movements of Patient	8.	Expenditures.		
Number under treatment, 1st October, 1917	21	Butchers' meat	\$1.500 1.474	
Admitted	424	Flour, bread and meal	572	
Births in Hospital	65	Milk	148	
Directo III II Depresa		Potatoes and other vegetables	1.151	
Total number under treat-		Groceries and provisions not	-,	-
ment	510	enumerated	1,406	57
		Tea and coffee	209	50
Discharged	463	Drugs and medicines	794	72
Died	24	Medical and surgical appli-		
Under treatment, 30th Septem-		ances	1,427	92
ber, 1918	23	Surgical instruments	21	89
-		Bedding, napery and general		
	510	house furnishings	952	23
Sex.		Brooms, brushes, mops, soap		
		and cleaning appliances	136	
Male	189	Fuel	2.643	
Female	321	Light: Gas, oil and power	311	
-		Laundry	1.872	
	510	Ice	100	
Revenue.		Salaries and wages	5,084	
		Taxes and insurance		23
From the Province of Ontario	\$1,687 63	Contingencies	404	
From the Town of Smith's		Repairs, ordinary	424	
Falls	1,200 00	Printing, stationery, etc	230	
From patients themselves for		Hay and straw	9.0	
maintenance and treatment.	15,111 61	Beer, wine and spirits	26	
From subscriptions, donations		Water supply	18 193	
and bequests from private	0.400.40	Interest and exchange	193	34
individuals From other sources	$\begin{array}{r} 3,406 & 40 \\ 588 & 40 \end{array}$	Total\$	91 166	A.G.
From endowments, invest-	588 40	10tai	21,100	4.0
ments, etc	976 34	Government grant for 1918	\$1.850	17
Total	\$22,970 38			

ST. FRANCIS' HOSPI	TAL, SMITH'S FALLS.			
The following summaries show the operation	The following summaries show the operations of the Hospital during the official year:			
Movements of Patients.	Revenue.			
Number under treatment, 1st 25 October, 1917 25 Admitted 453	From the Province of Ontario \$1,484 64 From the Town of Smith's Falls for patients' mainten-			
Births in Hospital 45	ance S00 00 From the County of Lanark			
Total number under treatment 523	From paying patients them- selves			
Discharged 475 Dled 21 Under treatment 30th Septem-	and donations of private in- dividuals			
ber, 1918 27 523	Total\$11,074 61			
Sex.	Expenditures.			
Male 216 Female 307 523	Butchers' meat \$1.925 degrees Butter and eggs 1.058 degrees Flour, bread and meal 952 0ge			

ST. FRANCIS HOSPITAL, SMITH'S FALLS.—Continued.

Milk	1,023 00	Electric light, motor service	328 64
Tea and coffee	456 00	Water	31 - 25
Potatoes and other vegetables	279 - 26	lce	70 00
Groceries and provisions not		Salaries and wages	1,280 82
enumerated	643 67	Taxes, insurance and interest	23 97
Drugs and medicines	181 75	Stationery, postage, etc	169 40
Medical and surgical appli-		Repairs, ordinary	155 00
ances	134 - 56	Contingencies	145 69
Surgical instruments		Laundry	
Alcohol	16 35	Clothing, including boots	292 00
Bedding, napery and general		_	
house furnishings	475 22	Total\$	11.055 41
Brooms, brushes, mops, soap			11,000
and cleaning appliances	174 29	Government aid for 1918	\$1.316 01
Fuel	1.238 66		42,020 02
		•	

GENERAL HOSPITAL, STRATFORD.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients	3.	Expenditures.
Number under treatment, 1st of October, 1917	30 621 76	Butchers' meat 1,722 72 Butter and eggs 1,438 39 Flour, bread and meal 988 48 Milk 1,206 30 Tea and coffee 242 80 Potatoes and other vegetables 505 07
Total number under treatment Discharged	727 658	Groceries and provisions not enumerated
Died	39	ances
Sex.	727	house furnishings
Male Female	281 446 727	Water supply 150 78 Ice 106 55 Salaries and wages 6.567 28 Taxes and insurance 257 56
Revenue.	•	Contingencies 1,002 67 Repairs, ordinary 1,554 75 Postage, etc. 44 15
Received from the Province of Ontario	\$1,241 73 3,250 00	Poultry and grain for same 373 71 Total
From the County of Perth From other municipalities of the Province	1,000 07 195 00 19,159 87 25 00 2,662 50 575 83	Government grant for 1918 \$1,633_35
Total	\$28,109 93	

Butchers' meat	1,722	72
Butter and eggs	1,438	
Flour, bread and meal	988	
Milk	1,206	30
Tea and coffee	242	80
Potatoes and other vegetables	505	07
Groceries and provisions not		
enumerated	1,837	63
Drugs and medicines	295	63
Medical and surgical appli-		
ances	2,295	54
Surgical instruments	25	63
Beer, wine and spirits		
Bedding, napery and general		
house furnishings	280	90
Brooms, brushes, mops, etc	520	05
Fuel	2,672	56
Electric light, gas, oil, candles	1,077	
Water supply	150	
Ice	106	55
Salaries and wages	6,567	
Taxes and insurance	257	
Contingencies	1,002	
Repairs, ordinary	1,554	
Postage, etc	44	15

GENERAL HOSPITAL, STRATHROY.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients	3.	Expenditures.		
Number under treatment, 1st October, 1917 Admitted Number of births in the institution during the year	7 170 11	Butchers' meat Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables	\$550 227 290 253 48 907	50 48 81 71
Total number under treatment	188	Groceries and provisions not enumerated Drugs and medicines	498 418	83
Discharged	159 17	Medical and surgical appliances	270 21	30 03
ber, 1918	12	Bedding, napery and general house furnishings Brooms, brushes, mops, etc	119 329	56
Sex.	,	Fuel Electric light, gas, oil, candles	$\frac{902}{145}$	32
Male Female	78	Water supply Ice Salaries and wages	36 35 1,886	07
Revenue.	188	Contingencies	200 362 33	64
Received from the Province of Ontario	627 21 874 50	Printing, stationery, etc Surgical instruments Hay and straw	42 361 111	64
From the County of Middle- sex	500 00 5.481 18	Power for laundry	47	42
From paying patients Subscriptions, donations, etc From sources not enumerated	350 00 492 90	Total		
From Dominion Government	\$8,519 29	Government grant for 1918	\$943	94

ST. JOSEPH'S HOSPITAL, SUDBURY.

The following summaries show th	e operation	s of the Hospital during the ome	nai year:
Movements of Patients.		Revenue.	
Number under treatment, 1st October, 1917	92	From the Province of Ontario From paying patients them-	\$6,266 40
Number admitted Births in Hospital	1,594	selves	35,531 56
Total number under treat-		bequests Town of Sudbury	$4,103 00 \\ 380 00$
ment	1,755	From all other sources not above enumerated	4,820 00
Discharged	1,590 86	Total	
Remaining under treatment on the 30th September, 1918	79		.,
the soul September, 1910		Expenditures.	
	1,755		
Sex.		Butchers' meat	\$4,025 20 3,460 25
Male	1,095	Flour, bread and meal	2,420 00
Female	660	Milk	3,150 55
		Tea and coffee	820 00
	1,755	Potatoes and other vegetables	2,180 00

ST. JOSEPH'S HOSPITAL, SUDBURY.—Continued.

Groceries and provisions not enumerated	2.080 00	Clothing for patients	1,100 35 350 00
Drugs and medicines	2,050 00	Salaries and wages	7,515 00
Medical and surgical appli-		Contingencies	
ances	2,100 00	Repairs, ordinary	4,691 40
Beer, wine and spirits	190 00	Taxes and insurance	125 00
Bedding, napery and general		Printing and stationery	245 00
house furnishings	872 00	Surgical instruments	247 00
Brooms, brushes, mops, soap		Coffins and funerals	75 00
and cleaning appliances	1,460 00	-	
Fuel	5,600 00	Total	\$45,772 40
Electric light, gas and oil	850 00		
Hay and straw	165 65	Government grant for 1918	\$6,092 04

GENERAL HOSPITAL, TORONTO.

Movements of Patient	S.	Expenditures.	
Number under treatment in all departments of the Hospital, 1st October, 1917	. 545 11,838 855	Butchers' meat, poultry and fish 54,834 Butter and eggs 29,806 Flour, bread and meal 16,615 Milk and cream 21,281 Tea and coffee 6,181	49 98 49 32
Total number under treat- ment	13,238	Potatoes and other vegetables 31,406 5 Groceries and provisions not enumerated	86
Discharges, including infants. Died Under treatment, 30th September, 1918	11,912 662 664	Drugs and medicines 31,217 7 Radiographic department Medical and surgical appliances, bandages, etc., 21,151 1 Surgical instruments, ordin-	• •
Total	13,238	ary, etc	39
sex.		house furnishings 29,851 1 Clothing, etc. for patients	
Male Female		Laundry, brooms, brushes, mops, soap and cleaning appliances	1 1
	13,238	Light: Gas. oil, electric light 9,312 7	71
Revenue.		Water supply	
From the Province of Ontario From the City of Toronto, in payment of patients' maintenance From the County of York in payment of patients' maintenance From other municipalities of the Province From paying patients themselves Income for property belonging to Hospital Trust Subscriptions, donations, and bequests of private individuals From all other sources not above enumerated	2,630 00 2,682 70 370,011 00 51,639 09 6,420 25	Nurses' text-books Gardens and grounds	05 85 86 86 76 84 45 80 85
Total\$		Total	
10tai\$	100,585 40	OOVERHMENT STAIL TOT 1910 \$19.290 1	1

GRACE HOSPITAL, TORONTO.

The following summaries show the operations of the Hospital during the official year:

-	-			
Movements of Patients		From all sources not above		
		enumerated		
Number under treatment, in the Hospital, 1st October,		Debit balance	13,804	04
1917	125	Total	202 629	9.4
Admitted	2,353	, Iotal	\$30,004	24
		T1 2 2 4 2		
Births in the Hospital	393	Expenditures.		
Total number under treat-		Butchers' meat	\$7,847	80
ment	2,871	Butter and eggs	4,468	21
	-,,	Flour, bread and meal	2.215	
Discharges, including infants	2,671	Milk	5,369	
Died	100	Tea and coffee	848	
	100		2,426	
Under treatment, 30th Septem-	100	Potatoes and other vegetables	2,420	49
ber, 1918	100	Groceries and provisions not	- 110	
-	2.051	enumerated	5,118	
	2,871	Drugs and medicines	3,555	60
		Medical and surgical appli-		
Sex.		ances	6,166	68
		Surgical instruments	767	26
Male	955	Beer, wine and spirits	67	49
Female	1,916	Bedding, napery and general		
_		house furnishings	5,906	93
	2,871	Brooms, brushes, mops, soap	-,	
	2,0.1	and cleaning appliances	1,713	34
		Fuel	8.175	
Revenue.		Light: Electric, oil and candles	1,306	
nevenue.			694	
From the Covernment of O-		Water supply	437	
From the Government of On-		Ice		
tario	\$5,528 00	Salaries and wages	21,484	
From the City of Toronto in		Taxes and insurance	334	
payment of patients' main-		Contingencies	5,135	
tenance	15.219 81	Repairs, ordinary	2,031	
From the County of York	717 00	Advertising, stationery, etc	1,265	
From other municipalities	223 75	Clothing for patients	372	
From paying patients them-		Overdraft, 1917	8,222	72
selves	60.552 80	Interest on mortgage	2,700	00
Income from endowments, etc.	2,586 84			
Subscriptions, donations and	,		\$98,632	24
bequests of private individ-				•
uals		Government grant for 1918	\$2,600	56

HOSPITAL FOR SICK CHILDREN, TORONTO.

Movements of Patients.		Sex.
Under treatment, 1st October, 1917	183 4,865	Male
		5,048
Total number under treat- ment	5.048	
		Revenue,
Discharged	4,487	
Died	359	From the Province of Ontario \$18.639 48
Under treatment, 30th Septem-		From the City of Toronto 55,560 09
ber, 1918	202	From municipalities 9,985 09
_		From patients themselves for
•	5,048	maintenance and treatment 32,767 00

HOSPITAL FOR SICK CHILDREN, TORONTO.—Continued.

	, , , , , , , , , , , , , , , , , , , ,
From property belonging to Hospital	Surgical instruments 753 55 Bedding, napery, and general
From subscriptions, donations	house furnishings
and bequests from private	Brooms, brushes, mops, soap
individuals 54,628 07	and cleaning appliances 3,535 95
From all other sources not	Fuel 30,829 87
enumerated 39,087 07	Light: Electric, gas, oil, can-
	dlog
Total\$213,285 98	dles 3,959 79
10(4)	Water supply 831 90
T	Clothing for patients, includ-
Expenditures.	ing boots, shoes and linen 3,617 15
	ice 832 72
Butchers' meat, game and fish \$7,517 33	Salaries and wages 100,266 05
Butter and eggs 6,780 61	Insurance and taxes 2,369 78
Flour, bread and meal 3,530 59	Contingencies 6,757 61
Milk 11,276 85	Repairs, ordinary
Tea and coffee 860 30	Printing, stationery, etc 8,840 70
Potatoes and other vegetables 2,990 38	Telephones and electricity 1,423 79
Groceries and provisions not	Telephones and electricity 1,425 to
enumerated 8.221 18	Total\$225,724 13
Drugs and medicines 6,383 04	10tal
	G
Medical and surgical appli-	Government grant for 1918 \$12,422 80
ances 14,144 99	

THE ORTHOPEDIC HOSPITAL, TORONTO.

The following summaries show the operations of the Hospital during the official year:

Number under treatment, 1st October, 1917	$\begin{array}{c} 24 \\ 308 \end{array}$
Total number under treat- ment	332
Discharges	310 4
ber, 1918	18
Sex.	332
Male	178
Revenue.	332
From the Government of Ontario	\$383 65
or other property belonging to the Hospital From paying patients them-	163 95
selves	16,554 67
uals	350 00
above enumerated	7.872 68
Total	\$25,224,95

Movements of Patients.

Expenditures.		
Butchers' meat	\$981	44
Butter and eggs	1,104	59
Flour, bread and meal	441	99
Milk		32
Tea and coffee	123	0.0
Potatoes and other vegetables	653	93
Groceries and provisions not	:	
enumerated	895	52
Drugs and medicines	102	32
Medical and surgical appli-	. ,	
ances, surgical instruments.	889	54
Bedding, napery and general		
house furnishings	458	60
Brooms, brushes, mops, soap	•	
and cleaning appliances	484	
Fuel	2,400	36
Electric light, gas, oil and		
candles	361	
Water supply	55	
Ice	81	60
Salaries and wages	3,879	
Taxes and insurance	61	57
Repairs, ordinary	499	
Gymnasium and sundries	1,668	
Sundries and material	9,578	55
Clothing for patients		
Contingencies	1,523	
Interest on debt	1,216	09
Total	\$28,272	66
Government grant for 1918	\$108	29

ST. JOHN'S HOSPITAL, TORONTO.

The following summaries show the operations of the Hospital during the official year:

Movements of Patient	s. ·	Expenditures.	
Number under treatment, 1st October, 1917 Admitted Number of births	19 332 	Butchers' meat Butter and eggs Bread Milk Tea and coffee	\$1,888 1,588 970 1,336 268
Total number under treatment	351	Potatoes and other vegetables Groceries and provisions not enumerated	1,163 1,192
Discharged	314 11	Drugs and medicines Beer. wine and spirits Bedding, napery and general	705 18
ber, 1918	26 351	house furnishings Brooms, brushes, mops, soap and cleaning appliances	2,615 384
$\mathcal{S}ex.$		Fuel	968 1,182 4,910
MaleFemale	7 344	Insurance and taxes Contingencies Repairs, ordinary and addi-	104 1,000
Revenue.	351	tions Ice supply Printing, stationery, etc	2,034 199 199
From the Province of Ontario From the City of Toronto	\$1.514 90 1,841 25	Water supply Medical and surgical appliances	60 1,019
From other municipalities From patients themselves for maintenance and treatment. From subscriptions, donations	19,292 69	Total	
and bequests from private individuals	1.924 47 81 00	Government grant for 1918	\$2,102
Total	\$24,654 31		

ST. MICHAEL'S HOSPITAL, TORONTO.

The following summaries show the operations of the Hospital during the official year:

5.095

249 4,444 402
5,095
4.560 269
266
5,095
2.413 2.682

Revenue.

From the Government of On-
tario \$16,247 18
From the City of Toronto in
payment of patients' main-
tenance 58,453 75
From the County of York 1,073 25
From other municipalities
From paying patients them-
selves 102,457 68
Subscriptions, donations and
bequests of private individ-
uals 1,576 66
From all other sources not
above enumerated 5,854 64
Total\$185,663 16

ST. MICHAEL'S HOSPITAL, TORONTO.—Continued.

Butchers' meat, poultry and fish	
fish \$21,238 24 Electric light, gas, oil, candles 4,197 6 Butter and eggs 13,136 57 Water supply 846 6 Flour, bread and meal 5,947 49 X-ray 2,912 7	
fish \$21,238 24 Electric light, gas, oil, candles 4,197 6 Butter and eggs 13,136 57 Water supply 846 6 Flour, bread and meal 5,947 49 X-ray 2,912 7	.5
Butter and eggs	
Tioni, broad that most first and an area of the second of	
, , , , , , , , , , , , , , , , , , , ,	1
Milk	
Tea and coffee	:1
Potatoes, other vegetables and Contingencies 2,657 4	.3
fruit	:7
Groceries and provisions not Telephone service 219 1	.5
enumerated	
Drugs and medicines 12,209 07 ery, etc 957 6	55
Medical and surgical appli- Clothing for patients, includ-	
ances	4
Surgical instruments 1,954 45	_
Beer, wine and spirits 375 13 Total	3
Bedding, napery and general	
house furnishings 8,481 45 Government grant for 1918 \$14,124 2	28

TORONTO HOSPITAL FOR INCURABLES.

Movements of Patients	3.	
Number under treatment, 1st October, 1917 Admitted Births in Hospital	65	But But Flo Mil Tea
Total number under treatment	14 55	Pot Gro e: Dru Med a
Sex.	298	Tel- Bee Bed h Bro
Female	298	a Fue Lig Wa Ice
From the Province of Ontario From the City of Toronto From the patients for main- tenance and treatment From subscriptions, donations	\$9,973 48 37,080 20 21,308 79	Sala Tax Cor Rep Clo
and bequests from private individuals	4,658 50 3,900 84	Pri Ove
outstanding		Gov

Emmand	itures
Expend	uures.

Butchers' meat	\$8,278	70
Butter and eggs		10
Flour, bread and meal		61
Milk		46
Tea and coffee		62
Potatoes and other vegetables		83
Groceries and provisions not		
enumerated		06
Drugs and medicines		37
Medical and surgical appli		
ances and instruments		87
Telephones		
Beer, wine and spirits		62
Bedding, napery and genera		
house furnishings		27
Brooms, brushes, mops, soar		
and cleaning appliances		54
Fuel		44
Light: Gas, oil and candles		13
Water		00
Ice supply		68
Salaries and wages	29,278	50
Taxes and insurance		70
Contingencies-interest	1.826	34
Repairs, ordinary		00
Clothing for patients		25
Printing, postage, etc		05
Overdraft		30
Total	\$113.021	44
C	010 441	~ ,
Government grant for 1918	\$13,441	54

THE WELLESLEY HOSPITAL, TORONTO.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients	8.
Number under treatment, 1st October, 1917 Admitted Births in Hospital	57 1,698 212
Total number under treat- ment	1,967
Discharged Died Under treatment, 30th September, 1918	1,863 32 72
-	1,967
Sex.	
Male	718 1.249
	1,967
Revenue.	
From the Province of Ontario From the City of Toronto From the County of York From other municipalities of the Province From paying patients Subscriptions, donations, etc. Other sources	• • • • • • • • • • • • • • • • • • • •
	

Expenditures.	
Butchers' meat and fish \$10.395	02
Butter and eggs 6,842	49
Flour, bread and meal 1,779	25
Milk	30
Tea and coffee	50
Potatoes and other vegetables 5,016	33
Groceries and provisions not	00
enumerated 5,302	06
Drugs and medicines 2,253	
Medical and surgical appli-	00
ances 3,221	0.4
Surgical instruments 544	
Beer, wine and spirits Bedding, napery and general	
furnishings 2,972	17
Brooms, brushes, mops, soap	11
and cleaning appliances 1,725	50
Fuel 1,725	
Fuel 11,066 Electric light, gas, oil, candles	77
Water supply 893	00
Salaries and wages 26,078	
Taxes, interest and insurance 719	
Contingencies 5,082	
Repairs, ordinary 1,313	
Ice supply	
Telephone	
Printing, stationery, etc 2.209	90
Total \$94,601	32
Government aid for 1918 \$75	00

WESTERN HOSPITAL, TORONTO.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients.	
Number under treatment, 1st October, 1917 Admitted Births in Hospital	166 4.020 514
Total number under treat- ment	4,700
Discharged	4,236 278
ber, 1918 Septem-	186
	4,700
Sex.	
Male	2,018 2,682
	4.700

From the Province of Ontario \$10,789	32
From the City of Toronto 35,497	23
From the patients for main-	
tenance and treatment 107,092	69
From subscriptions, donations	
and bequests from private	
individuals 885	15
From other sources 13,628	71
From other municipalities 1,663	25
Total\$169,556	25

Revenue.

Butchers' meat	\$11.510	80
Butter and eggs	7,940	12
Flour, bread and meal		
Milk	5,239	56
Tea and coffee	1,479	
Potatoes and other vegetables	3,999	06

Expenditures.

91

WESTERN HOSPITAL, TORONTO.—Continued.

WESTERN HOSTITIE,	
Groceries and provisions not enumerated 7.672 48 Drugs and medicines 11.486 67 Medical and surgical appliances and instruments 13.750 30 Telephones 543 60 Beer, wine and spirits 438 15 Bedding, napery and general 542 61	Water 622 10 Ice supply 830 50 Salaries and wages 54,730 42 Taxes and insurance 1,631 93 Contingencies—interest 11,419 93 Repairs, ordinary 3,726 63 Clothing for patients 773 50 Printing, postage, etc. 2,439 39
house furnishings 5,123 61 Brooms, brushes, mops, soap	Total\$167,385 84
and cleaning appliances	Government grant for 1918 \$4,743 37

WOMEN'S COLLEGE HOSPITAL, TORONTO.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients.		Expenditures.	
Number under treatment, 1st October, 1917 Number admitted Births in Hospital	27 425 156	Butchers' meat Butter and eggs Flour, bread and meal Milk Tea and coffee	\$1,018 01 910 91 348 03 667 25 80 27
Total number under treatment Discharged	608 544 27	Potatoes and other vegetables Groceries and provisions not enumerated Drugs and medicines Medical and surgical appliances Bedding, napery and general	693.07 1,254 41 391 24 1,704 83 198 37
Sex. Male Female	608	house furnishings Brooms, brushes, mops, soap and cleaning appliances Fuel Electric light, gas, oil, candles Water supply Ice supply	46 20 803 60 521 89 92 44 57 35
Revenue.	608	Salaries and wages Taxes and insurance Contingencies	4,717 84 244 76 2,184 69 354 98
From the Province of Ontario From the City of Toronto From the County of York From other municipalities of the Province	1,940 62	Repairs, ordinary Laundry Printing, stationery, etc. Surgical instruments Bank overdraft, 1917	177 57 103 15 851 30
From paying patients From property belonging to the Hospital From subscriptions, bequests	11,088 70	Total	
and donations from private individuals From other sources not enumerated Total	343 50 36 16 \$14 666 18		
total	Ψ-1,000 -		

GENERAL HOSPITAL, WALKERTON.

The following summaries show the o		of the Hospital during the official y Number admitted Number of births	ear: 175 8
Number under treatment, 1st	9		192

October, 1917

GENERAL HOSPITAL, WALKERTON .- Continued.

Discharged	160 19	Expenditures.	
Under treatment, 30th Septem-		Butchers' meat	\$511 47
ber, 1918	13	Butter and eggs	419 13
· _		Flour, bread and meal	261 64
	192	Milk	266 46
	,	Tea and coffee	61 15
Sex.	•	Potatoes and other vegetables	24 02
		Groceries and provisions not	
Male	81	enumerated	772 19
Female	111	Drugs and medicines	257 04
_		Medical and surgical appli-	
	192	ances	195 71
		Beer, wine and spirits	
Revenue.		Bedding, napery and general	
		house furnishings	274 56
From the Province of Ontario	\$311 87	Brooms, brushes, mops, soap	
From the Town of Walkerton	200 00	and cleaning appliances	66 67
From the County of Bruce	1,500 00	Fuel	1,346 11
From other municipalities of		Light: electric, gas, oil and	
the Province	10 00	candles	265 22
From endowments, invest-		Water supply	30 00
ments, etc		Ice supply	35 30
From paying patients	5,252 34	Salaries and wages	2,869 65
From subscriptions, bequests		Insurance	17 25
and donations of private in-		Contingencies	5 76
_ dividuals	716 00	Repairs, ordinary	314 59
From other sources not enum-		Printing, postage, etc	142 57
erated	162 63	Clothing	• • • • • •
Total	\$8,152 84	Total	\$8,136 49
		Government grant for 1918	\$273 45

GENERAL HOSPITAL, WELLAND.

Movements of Patients.		Revenue.
Number under treatment, 1st October, 1917 Admitted Number of births in Hospital	$\begin{array}{c} 27 \\ 1.146 \\ 40 \\ \hline \end{array}$	From the Province of Ontario \$2,671 99 From the Town of Welland
Total number under treat- ment	1,213	Subscriptions, donations. etc 302 15 Other sources 1.345 71
Discharged	$1,126 \\ 65$	Total\$22,163 59
ber, 1918	22	Expenditures.
Sex.	1,213	Butchers' meat \$1,089 15 Butter and eggs 937 96 Flour, bread and meal 843 06 Milk 1,157 65
Male Female	\$08 405	Tea and coffee
-	1,213	enumerated

GENERAL	HOSPITAL.	WELLAND.—Continued.	
Drugs and medicines Medical and surgical appliances Surgical instruments	822 17 2,111 35	Repairs, ordinary 1,241 Water supply	50
Beer, wine and spirits Bedding, house furnishings, etc	$70^{\circ}50$ 254 79	ery	18 12
Brooms, brushes, mops, soap and cleaning appliances Fuel	$\begin{array}{c} 104 \ 15 \\ 1,531 \ 81 \\ 361 \ 76 \end{array}$	Ambulance expenses Building account 2.793 Total \$21,766	75
Ice Salaries and wages Contingencies	$\begin{array}{c} 60 & 00 \\ 4,909 & 46 \\ 1,093 & 91 \end{array}$	Government grant for 1918 \$2,901	
нотеі	DIEU HOS	PITAL, WINDSOR.	
The following summaries show Movements of Patients	the operation.	ons of the Hospital during the official year $Expenditures$.	ar:
Number under treatment, 1st October, 1917 Admitted Births in Hospital	46 1,525 175	Butchers' meat \$4,756 Butter and eggs 2,766 Flour, bread and meal 1,237 Milk 1,847	11 55 24
Total number under treatment	1,746	Tea and coffee	96
Discharged	1,559 131	Drugs and medicines 1,582 Medical and surgical appliances 2,067	62
ber, 1918	1,746	Surgical instruments 283 Beer, wine and spirits 283 Bedding, napery and general	
Sex.		house furnishings	
Male Female	774 972	Fuel	55 66
Revenue.	1,746	Hay and straw	31 92
From the Province of Ontario From the Town of Windsor . From the County of Essex . From patients themselves for maintenace and treatment. Subscriptions, donations and bequests	. 1,455 90 357 35	Ice	86 01 42 45 26
From other sources not enumerated	4.257 78	Total\$32,736	65
Total	\$32,741 76	Government grant for 1918 \$3,515	64
		TAL, WINGHAM. ns of the Hospital during the official yea	
Movements of Patients Number under treatment, 1st	the operation.		187 8
October, 1917	$\begin{array}{c} 6\\182\\15\end{array}$	ber, 1918	8 203
Total number under treat- ment	203		

GENERAL HOSPITAL, WINGHAM .- Continued.

Sex.				18
			Potatoes and other vegetables 5:	. 10
Male		84	Groceries and provisions not	
Female	1	19	enumerated	95
-			Drugs and medicines 25	5 57
	2	203	Medical and surgical appli-	
			ances 52	3 50
Revenue.			Bedding, napery and general	
			house furnishings 71	48
From the Province of Ontario	\$212	67	Brooms, brushes, mops, soap	
From the Town of Wingham .	200			3 55
From the County of Huron	500			25
From other municipalities				5 52
From paying patients	6,683			52
Subscriptions, donations, etc	452		water capping treatment -	00
Other sources	23		Salaries and wages 1,97	
Other sources	-0		Contingencies	
Total	ee 079	01		15
Total	\$0,012	04	repaire, ordinary	3 46
D			Tance and Insulation	84
Expenditures.			Timenas, seattle services,	1 50
	4004	= 0	Beer, wine and spirits 1	. 50
Butchers' meat	\$396		00.24	- 00
Butter and eggs	363		Total \$8,34) 24
Flour, bread and meal	230		1010 010	0.5
Milk	185	65	Government grant for 1918 \$10	3 05

THE WOODSTOCK HOSPITAL.

The following summaries show the operations of the Hospital during the official year:

Movements of Patient	s.
Number under treatment, 1st October, 1917 Admitted Births	26 490 62
Total number under treat- ment	578
Discharged	40
Sex.	578
Male Female	344
Revenue.	578
From the Province of Ontario From the Town of Woodstock From the County of Oxford . Income from endowments and investments From paying patients themselves Subscriptions, donations and bequests Received from other sources. Bank overdraft	\$1,122 47 1,400 00 1,400 00 1,226 69 11,937 99 50 00 1,054 14
Total	\$18,191 29

Expenditures.

2. p		
Butchers' meat	\$1,891	26
Butter and eggs	1.529	04
Flour, bread and meal	511	09
Milk	738	51
Tea and coffee	428	54
Potatoes and other vegetables	44	95
Groceries and other provisions		
not enumerated	2,084	28
Drugs and medicines	442	
Medical and surgical appli-		
ances	985	53
Beer, wine and spirits		
Bedding, etc	258	89
Brooms, brushes, mops, soap		
and cleaning appliances	289	
Fuel	1,378	60
Electric light, gas, oil and		
candles	710	91
Jee	128	
Salaries and wages	5,271	
Insurance and taxes	208	
Contingencies	499	
Repairs, ordinary	437	49
Printing, stationery, etc	90	28
Water supply	114	52
•	010010	01
Total	\$18,043	21
Government grant for 1918	\$1,124	18

BRANT SANATORIUM, BRANTFORD.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients			Expenditures.		
Number under treatment, 1st October, 1917		21	Butter and eggs	\$2,112 641	
Admitted		23	Flour, bread and meal Milk	$\frac{315}{753}$	
Total number under treat-			Tea and coffee	118	
ment		44	Potatoes and other vegetables Groceries and provisions not	397	59
Discharged		19	enumerated	936	18
Died		11	Drugs and medicines	296	05
Under treatment, 30th Septem-			Medical and surgical appli-		
ber, 1918		14	ances	315	54
_			Surgical instruments		
		44	Beer, wine and spirits		
Can			Bedding, napery and general	0.0=	- 0
Sex.			furnishings	365	90
Male		27	Brooms, brushes, mops, soap and cleaning appliances	105	0 #
Female		17	Fuel	1.382	
remaie		11	Electric light, gas, oil, candles	241	
		44	Water supply		10
		11	Salaries and wages	4.238	
Revenue.			Taxes, interest and insurance	1,200	
Trotonico.			Contingencies	609	
From the Province of Ontario	\$3.015	43	Repairs, ordinary	791	
From the City of Brantford	3.983		Ice supply	120	0.0
From the County of Brant	198	36	Clothing for patients	3	15
From other municipalities of			Printing, stationery, etc	101	68
the Province	1,670	83	Interest on loan	156	68
From paying patients	1,998	68	Bank overdraft	3,222	13
Subscriptions, donations, etc			_		
Other sources	6,571	07	Total \$	\$17,257	61
Total	\$17,437	76	Government aid for 1918	\$3,094	85

NATIONAL SANATORIUM FOR CONSUMPTIVES, GRAVENHURST. (Muskoka Cottages.)

Movements of Patients.	1	Revenue.
Number under treatment, 1st October, 1917 Admitted	61 146	From the Dominion Government
Total number under treat- ment	207	From subscriptions, bequests and donations of private individuals
Discharged Died Under treatment, 30th September, 1918	143 10 54	From other sources
Sex.	207	Expenditures. Butchers' meat\$15,448 08 Butter and eggs 6,186 69 Flour, bread and meal 2,368 00
Male Female	116 91	Milk
	207	enumerated 6,331 46

NATIONAL SANATORIUM	FOR CONSU	MPTIVES, GRAVENHURST.—Continued.
Drugs and medicines Medical and surgical appliances Bedding napery and general	1,233 15 102 54	Contingencies 457 69 Repairs, ordinary 2,965 08 Insurance premiums 493 89 Bank interest and exchange
house furnishings	3,587 60	Improving grounds 240 71 H. C. expense 566 97
laundry	2,968 23 9,241 31	X-Ray and medical staff supplies
Electric light, oil and candles Maintenance of plant Telephone	1,058 96 9,849 53 317 76	General expenses
Ice	162 77 18,958 59 320 68	Total\$93,068 95 Less refund, patients at annex 22,140 31
Advertising, printing, postage, etc.	897 60	\$70,928 64
MUSKOKA FR	EE HOSPIT	AL FOR CONSUMPTIVES.
		ns of the Hospital during the official year:
Movements of Patients	S.	Expenditures.
Number under treatment, 1st		Butchers' meat
October, 1917	259	Butter and eggs 11,303 66 Flour, bread and meal 5,029 79
Admitted	475	Milk 8,136 68
Number of births		Tea and coffee 1,760 52
Total number under treat-		Potatoes and other vegetables 4,651 89
ment	734	Groceries and provisions not enumerated 11,945 69
	400	Drugs and medicines 5,260 73
Discharged	423	Medical and surgical appli-
Under treatment, 30th Septem-	• • • •	ances, dispensary 90 55
ber, 1918	311	Bedding, napery and general house furnishings 7,705 98
_	734	Brooms, brushes, mops, soap
		and cleansing appliances . 1,842 19 Fuel
	t	Maintenance of plant 16,106 10
Sex.		Improving grounds 274 98
Male	432	Travelling expenses 555 70
Female	302	Electric light, gas, oil and candles
-	794	Ice supply
	734	Salaries and wages 45,218 15
		Insurance and taxes 580 01
Revenue.		Laundry
The state of Outside	enr 500 00	Repairs, ordinary 4,636 39
From the Province of Ontario From the City of Toronto, in	\$35,592 00	Interest and bank collection
payment of patients' main-		Postage and advertising 1,448 50
tenance	65,358 25	Freight and livery 1,223 93 Surgical instruments
From other municipalities	1,520 65	X-Ray expenses
From endowments, investments, etc	6,374 49	Head office expenses 2,881 02
From paying patients them-	0,011 10	Outdoor furnishings 230 45
selves	10,014 50	Medical staff supplies 78 90 Maintenance of transferred
Subscriptions, donations, and bequests of private individ-		patients 22,140 31
uals	30,806 24	Telephones
From all other sources not	1 551 00	H. O. dispensary and auto 2,350 09
above enumerated From Dominion Government	$1,77193 \\ 33,06899$	
Total\$		Total\$208,613 71 Government grant for 1918 \$38.219 79
Σοια:	,	

MOUNTAIN SANATORIUM, HAMILTON.

The following summaries show the operations of the Hospital during the official year:

Movements of Patient	S.
Number under treatment, 1st October, 1917	164 196
Total number under treat- ment	360
Discharged	$\begin{array}{c} 161 \\ 40 \end{array}$
ber, 1918	159 360
Sex. Male	181
Revenue.	1
From the Province of Ontario From the City of Hamilton for	\$19,327 72
patients' maintenance From paying patients them-	
From endowments, invest-	
ments, etc	498 25
Total	\$70,044 60

Expenditures.		
Butchers' meat	\$11,660	45
Butter and eggs	6,930	08
Flour, bread and meal	2,421	73
Milk	4,834	22
Potatoes and other vegetables		
and fruit	2,140	08
Groceries and provisions not		
enumerated	4,819	70
Drugs and medicines	2,779	16
Dispensary work	766	06
Brooms, brushes, mops, soap		
and cleaning appliances	2,706	76
Bedding, napery and general (2,100	10
house furnishings)		
Fuel	4,170	
Light: gas, oil and candles	1,052	90
Farm and stable expenses	1,180	18
Contingencies	5,424	20
Salaries and wages		
Taxes and insurance		
Laundry	2,543	94
Advertising, stationery and		
postage, etc	1.160	
Repairs, ordinary	3,524	
Ice	55	20
Interest		
Water supply	647	49
Total	\$80,557	42
		•
Government grant for 1918	\$27,461	86

ESSEX TUBERCULOSIS HOSPITAL, KINGSVILLE.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients	3.
Number under treatment, 1st October, 1917	$\begin{array}{c} 21 \\ 64 \end{array}$
Total number under treat- ment	85
Discharged	44 9
ber, 1918	32
	85
Sex.	
Male	44
Female	41
·	85

From the Government of On-	
tario for maintenance	\$3,132 86
From the County of Essex	
From the City of Windsor	3,088 75
From other municipalities	2,734 87
From paying patients	5,125 15
From subscriptions, bequests	
and donations from private	
individuals	3.717 02
From other sources not enum-	
erated	712 80
Total	\$18.511 45
	Y-0,011 10

Revenue.

Butchers' meat and fish \$1,506 17 Butter and eggs 480 13 Flour, bread and meal 612 18 Milk 1,316 27

Expenditures.

ESSEX TUBERCULOSIS HOSPITAL, KINGSVILLE.—Continued.

Tea and coffee	61 30	Water supply	213 65
Potatoes and other vegetables	107 20	Ice supply	225 25
Groceries and provisions not		Salaries and wages	5,813 22
enumerated	791 74	Taxes, insurance and interest	63 01
Drugs and medicines	333 70	Contingencies	1,491 16
Medical and surgical appli-		Repairs, ordinary	299 41
ances	212 30	Printing, stationery, etc	98 31
Bedding, napery and general		Hay and straw	67 32
house furnishings	1,153 18	-	
Brooms, brushes, mops, soap		Total	315,708 11
and cleaning appliances	71 95		
Fuel	669 12	Government grant for 1918	\$4,771 08
Electric light, gas, oil, candles	121 54		

QUEEN ALEXANDRA SANATORIUM, LONDON.

The following summaries show	the operation	ons of the Hospital during the official year:
Movements of Patients	3.	Expenditures.
Number under treatment, 1st October, 1917	104 325	Butchers' meat \$19,724 08 Butter and eggs 12,894 44 Flour, bread and meal 3,004 31 Milk 9,220 52
Total number under treat- ment	429	Tea and coffee
Discharged	185 5	enumerated
Under treatment, 30th September, 1918	239	Medical and surgical appliances
ē	429	Surgical instruments Beer, wine and spirits Bedding, napery and general
$\mathcal{S}ex.$		house furnishings 6,116 40 Brooms, brushes, mops, soap
Male	$\frac{362}{67}$	and cleaning appliances 4,940 28 Fuel 7,338 15
	429	Electric light, gas, oil, candles 1,726 67 Salaries and wages
Revenue.		Contingencies 1,988 47 Office expenses 1,412 87
From the Province of Ontario From the City of London	11,054 90	Ice supply
From the County of Middlesex From other municipalities From patients themselves for	$1,216 00 \\ 2,637 00$	etc
maintenance and treatment. From subscriptions. donations	4.267 85	Visiting nurses' expenses \$88 35 Depreciation
and bequests from private individuals	$2,040 \ 00 \ 440 \ 00$	Total\$133,036 21
From Dominion Government.		Government grant for 1918 \$9,378 93
Total	3124,124 80	1

ROYAL SANATORIUM, OTTAWA.

Movements of Patients.		Admitted	125
Number under treatment, 1st October, 1917	47	Total number under treat-	172

DOTAL	CANTARODITISE	OFFICE A TITA	A 11 1
RUYAL	SANATORIUM.	UTTAWA.	-continuea.

Discharged 67 Milk 2,109 74 74 Died 45 Tea and coffee 356 64 Under treatment, 30th September, 1918 60 Potatocs and other vegetables Groceries and provisions not enumerated 1,337 19 Brooms, brushes, soap and cleaning appliances 1,762 74 Sex. Drugs, medicines and appli-
Under treatment, 30th September, 1918
ber, 1918
Brooms, brushes, soap and cleaning appliances 1,762 74
cleaning appliances 1,762 74
ances
Male 79 Beer, wine and spirits 106 60
Female 93 Surgical instruments 6 16
172 house furnishings 593 10
Fuel
Revenue. Electric light, gas, oil and
candles 656 48
From the Province of Ontario \$9,373 29 Water supply
From the City of Ottawa 27.674 07 Ice supply
From paying patients 2,723 42 Salaries and wages 16,157 76
From all other sources Contingencies 543 32
Total \$39,770 78 Taxes and insurance
Stationery, postage, etc 228 74
Expenditures. Other expenditures, not enum-
erated 1.080 86
Butchers' meat, poultry and
fish
Butter and eggs 1.503 27
Flour, bread and meal 1,420 36 Government grant for 1918 \$10,111 15

CONSUMPTIVE SANATORIUM, ST. CATHARINES.

Movements of Patients.		
Number under treatment, 1st October, 1917		12 33
Total number under treatment		45
Discharged		28 10
ber, 1918		7
		45
Sex.		
Male		27 18
, –		45
Revenue.		
From the Province of Ontario From the City of St. Cathar-	\$1,597	72
ines	1.041 $2,234$ 679	50

From endowments, investments, etc	144 30 505 00 55 63
Total	\$6,258 49
Expenditures.	
Butchers' meat Butter and eggs Flour, bread and meal Milk Tea and coffee Potatoes and other vegetables Groceries and provisions not enumerated Drugs and medicines Bedding, napery and general	\$712 16 275 60 140 10 203 05 82 07 171 19 577 90 127 09
house furnishings	278 91 69 05
Fuel Electric light. oil, candles Ice Salaries and wages Taxes and insurance	429 24 42 33 67 50 1,780 23

CONSUMPTIVE SANATORIUM, ST. CATHARINES.—Continued.

Contingencies	$\begin{array}{ccc} 258 & 34 \\ 951 & 62 \end{array}$	Printing and postage 30 55
Water supply	10 80 53 53	Total \$6,261 26
Beer, wine and spirits		Government grant for 1918 \$1.603 42

THE PREVENTORIUM, TORONTO.

The following summaries show the

The following summaries show	the operati	ons of the Hospital during the offic	cial yea	ar:
Movements of Patients	δ.	Expenditures.		
Number under treatment, 1st October, 1917	46 77	Butchers' meat	\$770 403 700 2,250	40 05
Total number under treat- ment	123	Tea and coffee		00
Discharged	82	enumerated Drugs and medicines Surgical instruments and ap-	783 81	11 74
ber, 1918	41 123	pliances Beer, wine and spirits Bedding, napery and general		
Sex.		house furnishings	1,312	89
Male	$\begin{array}{c} 52 \\ 71 \end{array}$	Brooms, brushes, mops, soap and cleaning appliances	230 701	81
Revenue.	123	Electric light, gas, oil, candles Water supply Clothing for patients Ice	378 11 319	92
From the Province of Ontario From City of Toronto From patients themselves for maintenance and treatment.		Salaries and wages Taxes and insurance Contingencies Printing, stationery, etc.	5,021 183 600	50 53
From property belonging to Hospital, endowments, etc From subscriptions, donations, and bequests from private		Repairs, ordinary	373 \$14,798	
individuals From all other sources not above enumerated	182 36 . 152 02	Government grant for 1918	\$7,549	92
Total	\$18,476 93			

TORONTO FREE HOSPITAL FOR CONSUMPTIVES, WESTON.

(Including Queen Mary Hospital for Consumptive Children, and King Edward Annex.) The following summaries show the operations of the Hospital during the official year:

Movements of Patients.		Discharged	264
,		Died	181
Number under treatment, 1st		Under treatment, 30th Septem-	
October, 1917	317	ber, 1918	325
Admitted	453		
Births in Hospital			770
			
Total number under treat-			
ment	770		

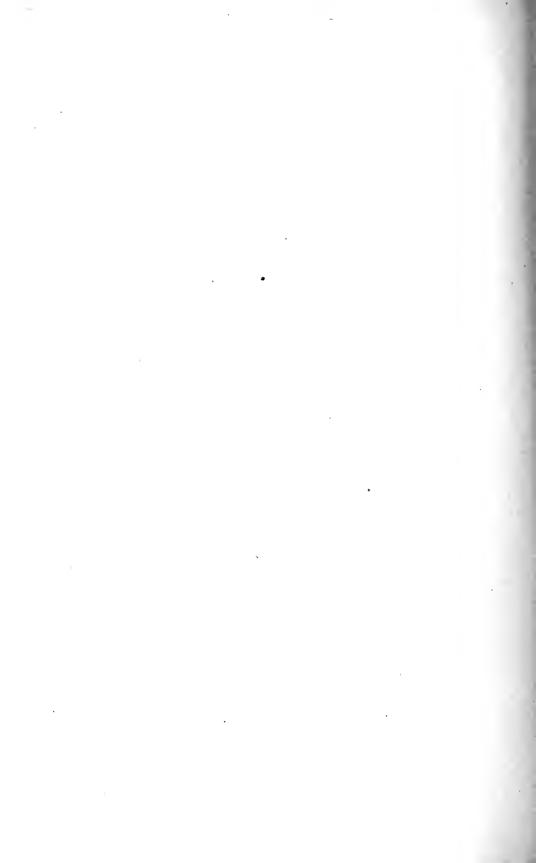
TORONTO FREE HOSPITAL FOR CONSUMPTIVES, WESTON.—Continued.

Sex.	Drugs and medicines	4,990 9	0
	Laboratory expenses and medi-	,	
Male 450	cal appliances	441 0	6
Female 320	Bank interest and exchange	3.155 0	3
	Bedding, napery and general	-,	_
770	house furnishings	10.489 7	1
	Brooms, brushes, mops, soap	10,400 1	
Revenue.	and cleaning appliances	2.545 7	7
nevenue.			
T T C O C 45 200 15	Fuel	19,931 4	4
From the Province of Ontario \$47,306 15	Electric light, gas, oil and	0.00	_
From the City of Toronto 116,748 75	candles	868 9	
From other municipalities 10,799 76	Laundry	9,164 7	
From patients themselves for	Maintenance of plant	25,920 9	9
maintenance and treatment. 8,765 15	Improving grounds	2,405 3	3
From endowments, invest-	Advertising, stationery and		
ments, etc 573 49	postage	1.938 9	3
From subscriptions, donations	Ice	281 3	
and bequests from private	Salaries and wages	60,619 4	
individuals 14.865 78	Taxes and insurance	581 8	
From other sources 10,656 11	Freight and livery		
From Dominion Government 3.972 45	Contingencies	398 4	
From Dominion Government 5,572 45		331 6	
0010.007.04	Outside furnishing		_
Total\$213.687 64	Travelling expenses	704 6	
	Repairs, ordinary	6,090 5	
Expenditures.	Head office expenses	3,452 0	8
	Medical staff supplies		
Butchers' meat\$23,240 78	Horse expenses	525 - 25	2
Butter and eggs	Telephones	652 1	0
Flour, bread and meal 6,432 26	General expenses	3,583 6	6
Milk 14,428 30	Dispensary and X-ray	3,099 1	9
Tea and coffee 2,329 86		-,	_
Potatoes and other vegetables 7.877 79	Total\$2	240 522 5	9
	1.0εωι	. 10,022 0	-
Groceries and provisions not	Government grant for 1918	257 050 9:	9
enumerated 11.808 22	Government grant for 1918	201,000 4	4

SANATORIA FOR CONSUMPTIVES.

The following Institutions having complied with the statutory requirements, are entitled to Government aid at the rate of \$3.00 and \$3.50 per week for each patient admitted free or for whose maintenance \$8.75 per week or less is contributed.

Name of Institution.	Location.	Stay of Patients in weeks at \$3.00 per week.	Amount of Grant at \$3.00 per week.	Stay of Patients in weeks at \$3.50 per week.	Amount of Grant at \$3.50 per week.	Amount payable each Institution for year 1918.
Brant Sanatorium Muskoka Free Hospital for Con. Mountain Sanatorium Essex Health Association. Queen Alexandra Sanatorium Royal Sanatorium Consumptive Sanatorium The Preventorium Toronto Free Hospital for Con. Queen Mary Hosp. for Children	Gravenhurst. Hamilton Kingsville London Ottawa St. Catharines	$5,496\frac{3}{4},050\frac{3}{5}$ $565\frac{3}{4}$ $1,336\frac{3}{4}$ $1,543\frac{5}{4}$ $1,168\frac{3}{4}$	16,489 29 12,150 86 1,697 58 4,008 43 4,631 15 891 42 3,504 42	$\begin{array}{c} 6,208\frac{1}{7} \\ 4,374\frac{4}{7} \\ 878\frac{1}{7} \\ 1,534\frac{3}{7} \\ 1,565\frac{5}{7} \\ 203\frac{3}{7} \\ 1,155\frac{5}{7} \end{array}$	21.730 50 15,311 00 3.073 50 5,370 50 5,480 00 712 00	38.219 79 27.461 86 4.771 08 9.378 93 10.111 15 1.603 42 7,549 92
Total for 1918		23,252‡ 44,946‡	69,757 72 134,839 32	25,569\$	89,492 50	159,250 22 134,839 32



CITY HOUSES OF REFUGE

The usual information obtained from each Refuge, in respect of sex, and previous residence of the inmates, has been summarized as under:

Sex.

Male Female	$\frac{1,634}{3,467}$
	5,101
Former Residence.	
Received from cities and towns in which the Refuges are located	3,697 452 756 196
	5,101

TABLE I.

City Refuges.—Table I gives a summary of the operations of each Refuge during the year.

Name of Refuge.	Location	Number of persons in the Refuges on the 1st of October, 1917.	Number admitted to Refuges during the year.	Total number under lodgment during the year ending 30th Sept., 1918.	Total number dis- charged during the year.	Number of deaths during the year.	Number of persons remaining in the Refuges on 30th Sept. 1918.
Home for the Friendless	Belleville	9	4	13	9	2	9
The Widows' Home	Brantford Chatham	13 27	5 12	18		·	18
St. Paul's Home for the Aged	Cornwall	58	43	39 96	13 20	16	26 60
House of Providence	Dundas	134	58	192	44	17	131
Elliott Home	Guelph	18	13	31	1	10	20
House of Providence	TT. /14	46	17	63	9	8	46
Aged Women's Home	Hamilton	51 112	3 56	54 168	59	3 32	51
St. Peter's Infirmary	"	10	5	15	1	4	107
Home for Friendless Women and Inf	Kingston	24	20	44	17	10	17
House of Refuge		43	28	71	16.	8	47
House of Providence	T 7	162	60	555	44	41	137
House of Providence	London	94 150	17 76	111 226	17 71	14	94 141
London Convalescent Home	"	4	16	20	17	14	3
Monas, of Our Lady of Charity Pofuga	Ottawa	171	123	294	125	1	168
Ottawa Home for Friendless Women. Protestant Home for the Aged	"	37	58	95	66	4	25
Protestant Orphans' Home, Ref. Br		27	15 13	42 29	9	3	26
St. Charles' Hospice	4	16 216	95	311	48	40	19 223
St. Patrick's Asylum, Refuge Branch	"	134	48	182	46	15	121
Women's Convalescent Home	"		86	86	82		4
Peterborough Protestant Home St. Joseph's House of Providence	Peterboro'	2.2	20	42	9	5	28
Thomas Williams Home		74 20	42	116 21	- 63 - 63	14	79 13
District of Algoma House of Refuge	St. Thomas S. Ste. Marie	40	14	54	8	7	39
Aged Men's Home	Toronto	44	12	56	3	7	46
Aged Women's Home	"	109	11	120	6	5	109
The Church Home for the Aged Good Shepherd Female Refuge	"	21	6	27	3		24
The Haven and Prison Gate Mission		136 108	54 193	. 190 301	43 178	2 2	145 121
Hillcrest Convalescent Home	"	24	202	226	209		17
Toronto House of Industry	"	111	89	200	78	22	100
House of Providence	"	362	195	557	133	54	370
Humewood House Association Industrial Refuge		23	42	65	4.4	1	20
Julia Greenshields Home		85 28	8	88 36	11		77 29
Salvation Army Rescue Home	"	70	306	376	289	8	7 1
Victor Home for Young Women	Window	23	123	146	120	3	23
	Windsor	-31	27	58	25	4	29
Totals for 1918	• • • • • • • • • • • • • • • • • • • •	2,882	2.219	5,101	1,871	379	2,851
Totals for 1917		3.256	2.127	5,383	1.687	495	3,201

TABLE II.

City Refuges—Shows the aggregate stay of inmates, upon which the amount of aid to be granted by the Government to each Refuge is based. The average stay per inmate is also given.

The Widows' Home	Name of Refuge.	Location	Number of inmates during the year.	Total stay in days during the year.	Average stay per inmate in days.
Home for the Friendless Windsor 58 11.586	The Widows' Home Home for the Friendless St. Paul's Home for the Aged House of Providence Elliott Home House of Providence Aged Women's Home Hamilton House of Refuge. St. Peter's Infirmary. Home for Friendless Women and Inf. House of Refuge House of Providence Aged People's Home House of Providence London Convalescent Home Monas. of Our Lady of Charity Refuge Ottawa Home for Friendless Women. Protestant Home for the Aged. Protestant Orphans' Home, Ref. Br St. Charles' Hospice St. Patrick's Asylum, Refuge Branch. Women's Convalescent Home. Peterborough Protestant Home. St. Joseph's House of Providence. Thomas Williams Home District of Algoma House of Refuge. Aged Momen's Home Aged Women's Home The Church Home for the Aged. Good Shepherd Female Refuge. The Haven and Prison Gate Mission. Hillerest Convalescent Home. Toronto House of Industry House of Providence Humewood House Association. Industrial Refuge Julia Greenshields Home Salvation Army Rescue Home. Victor Home for Young Women.	Brantford Chatham Cornwall Dundas Guelph Hamilton Kingston Condon C	18 39 192 184 168 153 168 154 172 172 173 174 175 175 175 175 175 175 175 175 175 175	5,535 9,858 21,253 52,146 7,058 16,386 18,491 49,743 3,753 8,658 17,858 57,166 34,685 53,426 1,508 62,385 12,529 10,902 6,773 78,971 14,867 11,609 27,587 59,173 8,494 50,695 40,596 39,821 142,971 7,249 29,549 10,506 34,484 7,722	266 3077 252 271 277 260 351 251 253 250 276 277 212 236 237 252 237 252 237 252 237 252 237 252 237 252 237 252 237 252 237 252 253 253 253 253 253 253 253 253 253
Totals for 1918 5,101 1,071.572 3					210

TABLE III. Showing the cost of maintaining the Refuge.

Name of Refuge.	Location.	Aggregate stay of inmates.	Cost of dietaries	Expenditure for fuel, salaries and wages, and all general expenses.	Total expenditure ex- clusive of extraordi- nary expense.	Average cost per inmate per day.
Home for the Friendless. The Widows' Home Home for the Friendless. St. Paul's Home for the Aged. House of Providence Elliott Home House of Providence Aged Women's Home Hamilton House of Refuge St. Peter's Infirmary Home for Friendless Women and Inf House of Refuge House of Providence Aged People's Home House of Providence London Convalescent Home Woman. of Our Lady of Charity Refuge Ottawa Home for Friendless Women Pretestant Home for the Aged Protestant Home for the Aged St. Patrick's Asylum, Refuge Branch Women's Convalescent Home Peterborough Protestant Home. St. Joseph's House of Providence Thomas Williams Home District of Algoma House of Refuge Aged Men's Home Aged Women's Home The Church Home for the Aged Good Shepherd Female Refuge The Haven and Prison Gate Mission Hillcrest Convalescent Home Troronto House of Industry House of Providence Humewood House Association Industrial Refuge Julia Greenshields Home Salvation Army Rescue Home Victor Home for Young Women. Home for the Friendless.	Brantford. Chatham. Cornwall. Dundas. Guelph. Hamilton. " Kingston. " Uondon. " Ottawa. " " " " " " " " " " " " " " " " " " "	3,461 5,535 9,838 21,253 52,146 7,058 16,386 18,491 40,743 3,753 8,658 17,858 57,166 34,685 51,529 10,902 6,773 78,971 14,807 1,967 1,967 14,834 16,480 39,173 8,494 50,695 40,548 8,196 39,821 17,249 29,549 10,566 24,484 7,722 11,386	\$ c. 477 37 1.028 17 1.028 17 1.028 17 1.028 17 1.051 23 4.965 96 44 1.146 99 927 68 1.514 82 4.966 67 19.563 13 10.291 90 11.064 24 2.350 52 18.796 94 2.350 52 18.796 94 1.186 30 1.940 30 1.343 90 3.678 94 4.495 53 10.018 89 10.812 81 1.75 2.65 44 8.898 92 4.449 50 1.634 89 1.634	\$ c. 457 63 1,052 26 2,287 79 3,821 02 10,701 48 4,362 32 5,507 91 1,671 21 5,164 34 14,756 07 2,655 67 2,655 67 1,671 21 5,049 50 15,839 53 10,301 73 6,262 73 7,270 74 7,270 74 7,270 74 7,270 74 7,270 74	\$ C. 935 00 2.080 43 939 02 8.786 98 26.334 35 69 92 9.150 78 9.938 70 0.161 78 9.938 70 0.161 78 9.938 70 0.161 78 9.938 70 0.161 78 9.94 86 9.04 86	Cents 0,27 0,37 0,40 0,41 0,50 0,99 0,64 0,63 0,561 0,51 0,52 0,68 1,49 0,65 0,35 0,60 0,40 0,58 0,69 0,40 0,40 0,51 0,47 0,74 0,79 0,36 0,66 0,40
Totals for 1918		1,071,572	275,000 09	312.337 97	587,338 06	0.55
Totals for 1917	١	1.188.213	283,089 87	345,299 36	628,389 23	0.53

TABLE IV. City Refuges—Shows the basis upon which statutory aid is granted.

Name of Refuge.	Location.	Collective days' stay upon which computation of Refinge rate is based, exclusive of infants under one year old.	Collective days' stay upon which computa- tion of Orphanage rate is based, exclusive infants under one vear old.	Amount received from all sources other than Government.	Computation at seven (7) cents per day.	Computation at two (2) cents per day.	Total Government at ow- ance to each House of Refuge for the year 1918.
Home for the Friendless The Widows' Home Home for the Friendless St. Paul's Home for the Aged House of Providence Elliott Home House of Providence Aged Women's Home Home for Friendless Wom.&Inf. House of Refuge House of Refuge House of Refuge House of Providence Aged People's Home House of Providence Aged People's Home House of Providence London Convalescent Home Mon of Our Lady of Char. Ref., Ottawa Home for Friendless Women. Protestant Home for the Aged Protestant Orphans' Home. Ref. St. Charles' Hospice St. Patrick's Asylum, Ref. Br Women's Convalescent Home Peterborough Protestant Home. Peterborough Protestant Home. Thomas Williams Home Dist, of Algoma House of Ref Aged Momen's Home Aged Women's Home The Haven & Prison Gate Miss'n Hillcrest Convalescent Home. The Church Home for the Aged Good Shepherd Female Refuge House of Providence Humewood House Association Humewood House Association Industrial Refuge Julia Greenshields Home Salvetor Home for the Friendless	St. Thomas.	3,461 5,535 9,858 21,523 52,146 7,058 16,380 18,491 40,743 3,753 1,544 17,858 57,166 34,685 53,426 1,508 8,957 10,902 14,831 14,831 14,834 14,536 33,363 8,494 50,695 39,293 14,891	4,439 9,497 2,598 7,413 548 464 219	\$ c. T25 91 1.825 20 1.474 39 7.113 63 22.631 63 6.205 98 7.970 75 22.889 14 2.962 58 18.569 35 18.569 35 13.476 89 768 60 13.476 89 768 60 13.476 89 22.421 12 24.11 12 26.768 50 14.788 06 2.994 37 19.843 69 4.141 72 16.102 00 7.315 88 2.994 37 19.843 69 4.141 72 16.102 00 7.315 88 2.994 37 19.843 69 4.141 72 16.102 00 7.315 08 2.296 73 4.506 71 7.216 96 3.761 77	887 15 690 06 1,506 61 3,650 29 491 06 1,147 02 1,294 20 491 06 1,147 02 1,294 20 62 71 108 08 1,250 06 1,250 0	88 78 88 78 8 78 8 78 94 189 94 19 96 10 96 10 96 4 38	\$ c. 242 27 367 660 66 1,506 61 1,506 61 1,506 61 1,147 02 1,294 37 2,852 01 1,96 86 1,250 66 1,250 66 1,250 86
Totals for 1918 Totals for 1917		1,010,123	25,608	528,363 57 526,917 03	79,708 61		71,220 77 83,064 83

SEPARATE REPORTS

THE HOME FOR THE FRIENDLESS, BELLEVILLE.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.	1	Receipts.		
In residence, 1st October, 1917 Admitted Total number of inmates.	9 4 13	From the Province of Ontario From the City of Belleville From inmates	\$209 300	00
Discharged	2 2 9	From other sources Total Expenditures.	\$935	
Places Admitted From. City of Belleville	13	Food of all kinds	\$477 30 27 348 11 39	80 61 30
Sex. Male Female	13 5 8 ——————————————————————————————————	Total Government aid for 1918	\$935 \$242	
	70			,

THE WIDOWS' HOME, BRANTFORD.

summaries:	of this institution will be found in the aunexed
Movements of Inmates.	Receipts.
Admitted	From the Province of Ontario \$338 10
Discharged	3 Total
Places Admitted From.	Food of all kinds \$1,028 17 Clothing and furnishings 34 04 Fuel, light, cleaning, etc 348 56 Salaries and wages 515 45 Repairs, ordinary, etc 14 08 Other expenses 140 13
Other counties in Ontario	Total\$2.080 43 Government aid for 1918 \$387 45
	18

THE HOME FOR THE FRIENDLESS, CHATHAM.

Full particulars of the operations of this Institution will be found in the aunexed summaries:

Movements of Inmates.		Receipts.		
In residence, 1st October, 1917 Admitted	27 12	From the Province of Ontario From the City of Chatham From inmates themselves	3,170	0.0
Total number of inmates.	39	Subscriptions and donations	1,052	
Discharged	13	of private individuals Other sources	185	50 52
In residence, 30th September, 1918	26	Total	\$5,131	34
	39	Expenditures.		
Places Admitted From.	90	Food of all kinds	\$1,651 128	
City of Chatham	38 1	Fuel, light, cleaning, etc Salaries and wages	282 1,055	63
Other counties in Ontario Immigrants, foreigners, etc		Repairs	438 383	90
	39	Total		
sex.				
MaleFemale	24 15	Government aid for 1918	\$690	05
	39			

ST. PAUL'S HOME FOR THE AGED, CORNWALL.

Movements of Inmates.	ſ	Receipts.		
In residence, 1st October, 1917 Admitted	53 43 96 20 16 60	From the Province of Ontario From the Town of Cornwall From other municipalities From inmates themselves Subscriptions, donations and bequests of private individuals	150 1,337 3,971 1,654	00 56 46 61
Places Admitted From.	96	Total $Expenditures$.	\$8,837	34
Town of Cornwall	15 75 6 	Food of all kinds	294 1,264 1,325	87 19 29 63
Sex.		Total	\$8,786	98
Male	56 40	Government aid for 1918	\$1,506	61
	96			į

HOUSE OF PROVIDENCE, DUNDAS.

Movements of Patients.	Receipts.
In residence, 1st October, 1917 134 Admitted	From the Province of Cntario \$3,681 37 From the Town of Dundas
Total number of inmates. 192	worth 572 50
Discharged	From inmates
192	Total
Places Admitted From.	Expenditures.
City of Hamilton 91 County of Wentworth 35 Other counties in Ontario 50 Immigrants, foreigners, etc. 16 192	Food of all kinds
Sex.	Other expenditures 944 52 Medicine and medical comforts 521 90
Male	Taxes and insurance 185 00 Total
192	Government aid for 1918 \$3,650 22

THE ELLIOTT HOME, GUELPH.					
Full particulars of the operat summaries:	tions of the	is Institution will be found in the	e anne:	xed	
Movements of Inmates.		Receipts.			
In residence, 1st October, 1917 Admitted	18 13 31	From the Province of Ontario From the City of Guelph From the County of Wellington Payments from inmates Subscriptions and donations.	\$519 5,311 8		
Discharged Died In residence, 30th September,	1 10	From other sources	886 1,016	50	
1918	20	Total	\$7,741	65	
Places Admitted From.	31	Expenditures. Food of all kinds Clothing, furniture and fur-	\$2,611	29	
City of Guelph	14 6 11	nishings	114 1,220 2,143 178	46 12	
Immigrants, foreigners, etc Sex.	31	Repairs Other expenses Medicine and medical comforts Repairs, additions	321 384	49 80 05	
MaleFemale	21 10	Bank overdraft, 1917 Total	768 \$7,741		
i s	31	Government aid for 1918	\$494	06	

HOUSE OF PROVIDENCE, GUELPH.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.	1	Receipts.	
In residence, 1st October, 1917 Admitted	46 17	From the Province of Ontario \$1,346 From the City of Guelph 2,553 From inmates 923	
Total number of inmates.	63	**	00
Discharged	9 8	bequests 1,875 From other sources 3,235	
1918	46	Total\$10,133	33
Places Admitted From;	63	Expenditures.	
		Food of all kinds \$4.430	79
From the City of Guelph	16		24
From the County of Wellington	44	Fuel, light and cleaning 1,750	25
Other counties in Contario	3	Salaries and wages 826	00
Foreigners, etc			72
			50
	63	•	45
Sex.		Medicine and medical comforts 163	75
Male Female	38 25	Total \$9,938	70
	63	Government aid for 1918 \$1,147	02

HOME FOR AGED WOMEN, HAMILTON.

Movements of Inmates.	1	Receipts.	
In residence, 1st October, 1917 Admitted	51 3	From the Government of Ontario	
Total number of inmates.	54	Income from property Subscriptions, donations of	1,993 38
Number discharged Number of deaths		private individuals From inmates	2,623 55
In residence, 30th September, 1918	51	From all other sources	
	54	Total	\$9,277 37
		Expenditures.	
Places Admitted From.	-	Food of all kinds	\$3,986 44 475 76
City of Hamilton	54	Fuel, gas, cleaning, etc Salaries and wages	1,867 80 2,498 89
	54	Ordinary repairs Other expenses	96 55
Sex.		Outdoor relief Medicine and medical comforts	143 68 81 66
Female	54	Total	\$9,150 78
	54	Government aid for 1918	\$1,294 37

HOUSE OF REFUGE, HAMILTON.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.		Receipts.
In residence, 1st October, 1917 Admitted	112 56	From the Government of Ontario
Total number of inmates.	168	From the municipalities 400 50
Discharged	29 32	Subscriptions, donations of private individuals From all other sources
1918	107	Total \$25,903 06
	168	Expenditures.
Places Admitted From. City of Hamilton County of Wentworth Sex.	168	Food of all kinds \$11,146 99 Clothing, furnishings, etc. 468 76 Fuel, light, cleaning, etc. 5,415 24 Salaries and wages 6,505 65 Repairs 1,249 35 Taxes and insurance 314 65 Cther expenses 680 41 Medicine and medical comforts 122 01
Male	99 69	Total\$25,903 06
	168	Government aid for 1918 \$2,852 01

ST. PETER'S HOME, HAMILTON.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.	
In residence, 1st October, 1917 Admitted	10 5
Total number of inmates.	15
Discharged	1 4
1918	10
	15
Places Admitted From.	
City of Hamilton	13
other counties	1 1
lmmigrants, foreigners, etc	
	15
Sex.	
Male	15
Female	•••••
	15

Receipts.

From the Ontario Government	\$271	60
From the City of Hamilton	149	96
From the County of Went-		
worth		
From inmates	1.629	
From subscriptions, donations,	_,0_0	0.0
etc.	202	45
From other sources	907	
Income from property belong-	501	
ing to House	9.9	08
ms to mouse	00	03
Total	\$3,248	38
Expenditures.		
Food of all kinds	\$927	68
Clothing, furnishings, etc	68	65
Fuel, light and cleaning	423	43
Salaries and wages	994	00
Ordinary repairs	580	21
Livestock and feed	165	40
Other expenses	420	25
Medicine and medical comforts		70
-		

Government aid for 1918 \$262 71

HOME FOR FRIENDLESS WOMEN AND INFANTS, KINGSTON.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.		Receipts.	
In residence, 1st October, 1917 Admitted	$\frac{24}{20}$	From the Province of Ontario From the City of Kingston	\$239 53 500 00
		From the County of Frontenac	175 00
Total number of inmates.	44	From inmates	$\begin{array}{ccc} 1.650 & 85 \\ 610 & 93 \end{array}$
Discharged	17	Other sources	25 80
Died	10	Total	\$3,202 11
1918	17		
	44	Expenditures.	- '
Places Admitted From.		B 1 4 11 11 1	** *** **
C'I C TT' I	10	Food of all kinds	\$1,514 82
City of Kingston	13	Clothing and furnishings	119 05
County of Frontenac	7	Fuel, light and cleaning, etc	550 75
Other counties in Ontario	24	Salaries and wages	540 00
Immigrants, foreigners, etc		Repairs	139 63
	44	Additions	0.01 70
Sex.	44	Other expenses	321 78
Ar. 1	200	Total	\$3,186 03
Male	20		
Female	24	Government aid for 1918	\$196 86
	44		4

HOUSE OF REFUGE, KINGSTON.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.	1
In residence, 1st October, 1917 Admitted	43 28
	71
Discharged	16 8
1918	47
	71
Places Admitted From.	
City of Kingston	23 25 23
_	71
Sex.	
Male Female	41 30
_	71

Receipts.

From the Province of Ontario From the City of Kingston	\$1,051 1,000	
County of Frontenac	2,459	19
Lennox and Addington Payments from inmates	360	90
Income from property Subscriptions and donations.	$\frac{1,422}{1,250}$	
Other sources	861	29
Total	\$10,139	79

Expenditures.

Food of all kinds	\$4,966 67
Clothing, furniture and fur-	
nishings	1,169 37
Fuel, light and cleaning	1,170 37
Salaries and wages	1,327 15
Repairs, ordinary	321 88
Farming	485 06
Other expenses	
Medicine and medical comforts	22 61
Repairs, additions	
Purchase land	553 06

Government	aid	for	1918	 \$1.250	06

Total\$10.016 17

HOUSE OF PROVIDENCE, KINGSTON.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.		Receipts.
In residence, 1st October, 1917 Admitted	162 62	From the Province of Ontario \$4,416 72 From the City of Kingston 100 00 From the County of Frontenac 674 49
Total number of inmates.	222	From other municipalities . 1,281 94 Income from property 627 00
Discharged	44	Payment from inmates 12,778 77
Died	41	Subscriptions and donations. 6,463 90
In residence, 30th September,	107	Sisters' earnings, etc 8,557 72
1918	137	Other sources 483 03
	222	Total\$35,383 57
Places Admitted From.		Expenditures.
City of Kingston	69	Food of all kinds \$19,563 13
County of Frontenac	20	Clothing, furnishings, etc 3,524 59
Other counties	123	Salaries and wages 80 75
Immigrants, foreigners, etc	10	Fuel, light and cleaning 5,839 75
	222	Repairs, ordinary
Sex.		Other expenses 3,261 04
		Other expenses 3,261 04
Male	103	Other expenses
		Other expenses
Male	103	Other expenses

HOME FOR AGED PEOPLE, LONDON.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.	
In residence, 1st October, 1917 Admitted	$\begin{array}{c} 94 \\ 17 \end{array}$
Total number of inmates.	111
Discharged	$\begin{smallmatrix} 7\\10\end{smallmatrix}$
1918	94
Places Admitted From.	111
City of London	47 13 41 10
Sex.	111
MaleFemale	48 63
	111

Receipts.

From the Province of Ontario From the City of London	\$2,345 9,320	
From the County of Middlesex		
From other municipalities		
Payment from inmates	7,684	12
Subscriptions and donations.	98	00
Other sources	1,466	53
Total	\$20,915	12
Expenditures.		
Food of all kinds	\$10,291	90
nishings	1.091	55
Fuel, light and cleaning	2.917	
Salaries and wages	4.208	
pararres and wages	4,200	93

Total			\$20,593	63
-------	--	--	----------	----

 $\begin{array}{ccc} 1,031 & 85 \\ 158 & 30 \end{array}$

893 80

Government aid for 1918 \$2,427 95

Repairs, ordinary

Drugs and medicines

Other expenses

HOUSE OF PROVIDENCE. LONDON.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.		Receipts.
In residence, 1st October, 1917 Admitted	150 76	From the Province of Ontario \$3,864 77 From the City of London 250 00 From other municipalities
Total number of inmates.	226	Payment from inmates 9.187 41 Subscriptions and donations 4,039 48
Discharged	71 14	Other sources
In residence, 30th September, 1918	141	Total\$17,341 66
	226	Expenditures.
Places Admitted From.		Food of all kinds
City of London	51 13	nishings
Other counties in Ontario	162	Salaries and wages 922 50
Immigrants, foreigners, etc		Repairs, ordinary 587 83 Taxes, insurance, etc 772 62
Sex.	226	Other expenses
Male	92	Total \$17,326 66
Female	$\frac{134}{226}$	Government aid for 1918 \$3,739 82

CONVALESCENT HOME, LONDON.

Movements of Inmates.	Receipts.
Total number of inmates.	From the Province of Critario \$87 29 From the City of London
Died	Total \$855 89 3
Places Admitted From.	Food of all kinds
County of Middlesex and other counties	Fuel, light and cleaning 161 61 Salaries and wages 204 00
Male Female	Total

THE REFUGE OF OUR LADY OF CHARITY, OTTAWA.

The following summaries show the operations of this Refuge during the year:

Movements of Inmates.	Receipts.
,,	71 From the Government of On- tario
Total number of inmates. 2	County of Carleton 50 00 From payments made by in-
Died	25 mates
2	Total\$30,824 88
	Expenditures.
County of Carleton Other counties in Ontario Immigrants, foreigners, etc	Food of all kinds
Female 2	94 Total
2:	Government aid for 1918 \$3,892 10

THE HOME FOR FRIENDLESS WOMEN, OTTAWA.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.	
In residence, 1st October, 1917 Admitted	37 58
Total number of inmates.	95
Discharged	$^{66}_4$
1918	25
Places Admitted From.	95
City of Ottawa	$\begin{array}{c} 72 \\ 2 \end{array}$
County of Carleton Cther counties in Ontario Immigrants, etc	12 9
Sex.	95
	4.5
MaleFemale	17 78
	95

Receipts.

necorpio.		
From the Province of Ontario From the City of Ottawa From the County of Carleton. Payment from inmates Subscriptions and donations From all other sources	718 50 419	75 00
Total	\$18,823	06
Expenditures.		
Food of all kinds Clothing, furniture and furnishings Fuel, light and cleaning Salaries and wages Repairs, ordinary Taxes and insurance Medicine and medical comforts Repairs, additions Other expenses	712 1,966 7,141 313 451 155 48 5,186	84 84 35 13 55 18 52 08
Total	\$18,744	93
Government aid for 1918	\$677	55

HOME FOR THE AGED, OTTAWA.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.		Receipts.		
In residence, October 1st, 1917	27	From the Government of On-		
Admitted	15	tario	\$720	93
		From the City of Ottawa	1,437	50
Total number of inmates.	42	From the County of Carleton	300	0.0
		From other municipalities		
Discharged	9	From payments made by in-		
Died	7	mates	759	41
In residence, 30th September,		Subscriptions, donations, etc	735	00
1918	26	Income from property		
		Other sources	1,162	59
	42	_		
		Total\$	5,115	43
Places Admitted From.				
		Expenditures.	•	
City of Ottawa	38			
County of Carleton	4	Food of all kinds	\$2,350	52
Other counties		Clothing and furnishings		
Immigrants, foreigners		Fuel, light, cleaning, etc	1.296	
		Salaries and wages, etc	1,690	
	42	Repairs	1,376	13
		Taxes and insurance		
Sex.		Other expenses	341	
		Medicine and medical comforts	37	0.0
Male	26	ð		
Female	16	Total *	\$7,091	89
_	42	Government aid for 1918	\$ 763	14
		,		

REFUGE BRANCH, ORPHANS' HOME, OTTAWA.

Full particulars of the operations of this Institution will be found in the annexed summaries:

summaries.			
Movements of Inmates.	1	Receipts.	
In residence, 1st October, 1917 Admitted	16 13	From the Province of Ontario \$818 From the City of Ottawa 1,781 From the County of Carleton 300	
Total number of inmat's.	29	Payment from inmates 1,642 Income from property 1,157	
Discharged	7 3	Subscriptions and donations, etc 5.892	42
In residence, 30th September, 1918	19	Total\$11,592	02
	29	Expenditures.	
Places Admitted From.		Food of all kinds \$4,131 Clothing, furniture and fur-	51
City of Ottawa	26	nishings 1,394	19
County of Carleton	2	Fuel, light and cleaning 1,231	. 76
Other counties in Ontario	1	Salaries and wages 2,673	80
Immigrants, etc		Taxes and insurance 286	03
•			40
	29		06
		Repairs, additions 400	65
Sex.		Other expenses 481	. 79
Female	29	Total\$11,008	19
	29	Government aid for 1918 \$474	. 11

ST. CHARLES' HOSPICE, OTTAWA.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.		Receipts.
In residence, 1st October, 1917 Admitted Total number of inmates.	216 95 311	From the Government of Ontario
Discharged	48 40	Income from property belonging to the House 500 00 From payments made by in-
In residence, 30th September, 1918	223	mates
Places Admitted From.	311	Total
City of Ottawa	241	Expenditures.
County of Carleton Other counties Immigrants, foreigners, etc	18 50 2	Food of all kinds
immigrants, foreigners, etc	311	Salaries and wages
Sex.	123	Other expenses
Female	188	Total \$27,994 38
	311	Government aid for 1918 \$5,527 97

ST. PATRICE	C'S REFUGE, OTTAWA.
Full particulars of the operations summaries:	of this Institution will be found in the annexed $\ensuremath{^{\mathfrak{f}}}$
Movements of Inmates.	Receipts.
In residence, 1st October, 1917 Admitted	34
Total number of inmates.	From the County of Carleton. 50 00 From other municipalities
Discharged	46 15 From payments made by in- mates 8,669 00 Subscriptions, donations, etc 4,046 27 Other sources
	Total\$30,747 21
Places Admitted From.	Expenditures.
City of Ottawa	Food of all kinds
	182 Government aid for 1918 \$3,416 49

CONVALESCENT HOME FOR WOMEN, OTTAWA.

Full particulars of the operations of this Institution will be found in the annexed summaries:

In modden on 1st October 1017	
In residence, 1st October, 1917 From the Province of Ontario From the City of Ottawa From other municipalities	\$125 00
Total number of inmates. 86 Payments from inmates Income from property belong-	
Discharged 82 ing to the Home	
Died	
1918 4 Total	\$125 00
Places Admitted From. Expenditures.	
City of Ottawa	\$1,186 30 404 27
counties Fuel, light and cleaning	400 44
Immigrants, foreigners, etc Salaries and wages Repairs, ordinary	928 83 104 48
86 Medicine and medical comforts	90 50
Sex. Other expenses	1,003 61 $23 75$
Male	
Female 86 Total	\$4,142 18
86 Government aid for 1918	\$137 69

THE PETERBOROUGH PROTESTANT HOME.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.	
In residence, 1st October, 1917 Admitted	22 20
Total number of inmates.	42
Discharged	9 5
1918	28
	42
Places Admitted From.	
City of Peterborough County of Peterborough	42
	42
Sex.	
Male	24 18
	42

From the Province of Ontario	\$779 2.027	
From the City of Peterborough From inmates themselves	$\frac{2.027}{2.152}$	
Income from property belonging to the Home	119	18
Subscriptions, donations from private individuals	36	00
From all sources not above mentioned	1.854	46

Receipts.

Total \$6,969 87 Expenditures. Food of all kinds \$1,940 39 Clothing and furnishings 157 01 Fuel, light and cleaning 1,045 32 Repairs, ordinary 186 19 Salaries and wages 1,946 27 Other expenses 1,103 52 Medicine and medical comforts 32 37 Repairs, additions 574 97

THE HOUSE OF PROVIDENCE, PETERBOROUGH.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Total number of inmates 116	Movements of Inmates.	1	Receipts.	
Peterborough 522 11				\$1,810 76
Discharged	Admitted			522 11
Died	Total number of inmates.	116		
Total Total Total September 1,093 37	Discharged	23	From inmates	4,056 10
Total Sect. Total Sect. Sect. Total Sect. Sect. Total Sect. Sect		14		
Total \$9,125 84		5 0	Other sources	1,09 3 37
Places Admitted From. Expenditures.	1918	79	Total -	\$0.105 CI
Places Admitted From. Expenditures. City of Peterborough 65 50 Food of all kinds \$5,231 30 From other counties 50 Clothing and furnishings 1 029 81 Immigrants, foreigners, etc. 1 Fuel, light and cleaning 1,700 30 Repairs, ordinary 282 93 Other expenses 508 38 Medicine and medical comforts 116 89 Salaries and wages 335 25		116	10tal	\$3,120 04
City of Peterborough	Places Admitted From.	110		
Food of all kinds \$5,231 30			Expenditures.	
Trom other counties	City of Peterborough	65		
Fuel, light and cleaning 1,700 30 Repairs, ordinary 282 93 Other expenses 508 38 Medicine and medical comforts Salaries and wages 335 25 Male 45				
Repairs, ordinary				
Sex. 116 Other expenses	Immigrants, foreigners, etc	1		
Sex. Medicine and medical comforts 116 89 Salaries and wages 335 25		116		
Male	San	110		
Male 45	sea.			
	Male	45	-	
remaie 71 Total 95,204 30	Female	71	Total	\$9,204 86
116 Government aid for 1918 \$1,931 09		116	Government aid for 1918	\$1,931 09

THE THOMAS WILLIAMS HOME, ST. THOMAS,

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.	Receipts.
In residence, 1st October, 1917 Admitted	From the Province of Contario \$495 04 From the City of St. Thomas. From payments by inmates
Total number of inmates.	Subscriptions, etc
Discharged Died	2 From other sources 121 66
In residence, 30th September,	Total \$3,489 41
	Expenditures.
Places Admitted From.	Food of all kinds
-	21 Salaries and wages 1,048 00 Repairs, ordinary 1 65 Other expenses 304 28 Medicine and medical comforts 109 25
Sex.	Repairs, additions
	Total\$3,473 25
	— Government aid for 1918 \$416 43

HOUSE OF REFUGE, DISTRICT OF ALGOMA.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movement of Inmates.				
		Receipts.		
In residence, 1st October, 1917	40			
Admitted	14	From the Province of Ontario From City of Sault Ste. Marie		
Total number of inmates.	54	From inmates themselves Subscriptions, donations and		
Discharged	8	bequests of private indiv-		
Died	7	iduals		
In residence, 30th September,	•	From other sources	653	
1918	39	From other municipalities	5,859	27
	54	Total	\$15,973	46
Places Admitted From.	1	Expenditures.		
Town of Sault Ste. Marie	23	Food of all kinds	\$3,678	04
District of Algoma	31	Light, fuel, cleaning, etc	2,000	58
Other counties		Repairs, ordinary	221	05
Immigrants		Medicine and medical comforts	481	00
		Salaries and wages	2,497	45
	54	Clothing and furnishings	723	73
		Farming	1,411	25
Sex.		Repairs, additions	40	00
		Other expenses	1.185	01
Male	41	-		
Female	13	Total	\$12,238	11
	54	Government aid for 1918	\$1,038	38

AGED MEN'S HOME, TORONTO.

Full particulars of the operations of this Institution will be found in the annexe's summaries:

Movements of Inmates.	
In residence, 1st October, 1917 Admitted	44 12
Total number of inmates.	56
Discharged	3 7
1918	46
Places Admitted From.	56
City of Toronto	53
counties	3
	56
Sex.	
Male	56
_	56

Receipts.

From the Government of Ontario	\$1,172	78
From the City of Toronto	150	
From payments made by inmates	7,522 $1,622$	
Received from all other sources	75	26
Total	\$10,543	55

Expenditures.

23 - P		
Food of all kinds	\$4,495	53
Clothing and furnishings	492	81
Fuel, light, cleaning, etc	1.882	89
Salaries and wages	3.458	
Repairs	482	70
Other expenses	476	07
Medicine and medical comforts	63	08
Total	\$11,351	87

Government aid for 1918 \$1.018 92

AGED WOMEN'S HOME, TORONTO.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.	
In residence, 1st October, 1917 Admitted	109 11
Total number of inmates.	120
Discharged	6 5 1∩9
Places Admitted From.	120
City of Toronto	114 6
Sex.	120
Female	120
	120

Receipts	
----------	--

From the Province of Ontario From the City of Toronto		
From inmates	17,539	50
Subscriptions and donations From other sources		
Total	\$21,403	57

Expenditures.

Food of all kinds	\$10,018	89
Clothing, furnishings, etc	538	87
Fuel, light, cleaning, etc	3,754	09
Salaries and wages	5,984	83
Repairs	1,052	73
Other expenses	822	59
Medicine and medical comforts	26	95
Total	299 100	95

Government aid for 1918 \$2,335 41

CHURCH HOME FOR THE AGED, TORONTO.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.	
In residence, 1st October, 1917 Admitted	$^{21}_{6}$
Total number of inmates.	27
Discharged	
1918	24
	27
Places Admitted From.	
City of Toronto	22 4 1
	27
Sex.	
Male	$\frac{2}{25}$
	27

Receipts.

From the Government of On-	
tario	\$576 80
From the City of Toronto	200 00
From other municipalities	
From payments made by in-	
mates	3,284 22
Income from property belong-	
ing to the Home	
Subscriptions, donations, etc	657 50
Total	\$4,718 52

Expenditures.

Ba penatear co.		
Food of all kinds	\$3,133	60
Clothing and furnishings	30	13
Fuel, light and cleaning, etc.	655	09
Salaries and wages	1,108	70
Repairs	79	50
Other expenses	102	74
Medicine and medical comforts	38	67
Total	\$5,148	43

Government aid for 1918

\$594 58

GOOD SHEPHERD FEMALE REFUGE, TORONTO.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.	1	Receipts.
In residence, 1st October, 1917 Admitted	136 54	From the Province of Ontario \$3,340 12 From the City of Toronto 600 00 From inmates
Total number of inmates.	190	Subscriptions and donations 502 00 From other sources and laun-
Discharged Died	$\begin{smallmatrix} 43\\2\end{smallmatrix}$	dry
In residence, 30th September, 1918	145	Total\$19,442 12
Places Admitted From.	190	Expenditures.
Traces Admitted From.		Food of all kinds \$13,349 63
City of Toronto	162	Clothing, furniture and furnishings 2,806 00
counties	28	Fuel, light and cleaning 2,310 00
Immigrants and foreigners		Salaries and wages 480 00
		Repairs 331 00
sex.	190	Drugs and medicines 959 49 Other expenditures 407 00
Female	190	Total \$20,643 12
	190	Government aid for 1918 \$3,548 65

THE HAVEN, TORONTO.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.	1	Receipts.	
In residence, 1st October, 1917 Admitted	108	From the City of Toronto 1,9 From inmates 5.1	53 74 99 92 15 46
Total number of inmates. Discharged	301 178 2	Subscriptions and donations 2,1	65 84 26 65 50 56
In residence, 30th September, 1918	121	Total $\$21,3$ Expenditures.	12 17
Places Admitted From. City of Toronto County of York	301 * 226 4	Clothing, furnishings, etc 1,5 Fuel, light, cleaning, etc 2,5 Salaries and wages 41	34 77 29 53 25 08 63 95 86 99
Other counties	71 301	Other expenses 4.3	78 52 12 61 31 45
Sex.		Government aid for 1918 \$2.1	
Male (infants)	52 249		

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HILLCREST CONVALESCENT HOME, TORONTO.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.		Receipts.		
In residence, 1st October, 1917 Admitted	24 202	From the Province of Ontario From the City of Toronto Payments from inmates	\$108 1,096	00
Total number of inmates.	226	Income from property belonging to the Home	9,223	
Discharged	209	Subscriptions and donations Received from all other	25	
In residence, 30th September, 1918	17	sources not above enumer- ated		· · ·
	226	Total	\$10,453	75
Places Admitted From.		$Expenditures. \ \ $		
City of Toronto	184	Food of all kinds	1 - 1	
County of York	1 31	Furnishings, etc Fuel, light and cleaning	583 $1,100$	
Immigrants, foreigners, etc	10	Salaries and wages	3,000	00
	226	Ordinary repairs, etc Other expenses	728 448	
_		Medicine and medical comforts		92
Sex.				
Male	3	Total	\$11,157	04
Female	223	Government aid for 1918	\$132	37
	226			

HOUSE OF INDUSTRY, TORONTO.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.	
In residence, 1st October, 1917 Admitted	111 89
Total number of inmates.	200
Discharged	$\begin{array}{c} 78 \\ 22 \end{array}$
In residence, 30th September, 1918	100
	200
Places Admitted From.	
City of Toronto	2 0 0
counties	
Sex.	200
Male	$\begin{array}{c} 124 \\ 76 \end{array}$
	200

Receipts.

From the Province of Ontario	\$3,195	85
From the City of Toronto	32,000	00
From inmates	1.157	35
Income from property belong-	1	
ing to the House	2.001	52
Subscriptions and donations	1,534	50
From other sources	640	04
From other sources	040	04
m	040 500	-
Total	\$40,529	26
Expenditures.		
Food of all kinds	\$8,898	02.
Clothing, furniture and fur-	40,000	
nishings	1.358	07
Fuel, light and cleaning	5.069	24
Salaries and wages	2,443	09
Repairs	1,426	87
Outdoor and casual poor	30,635	68
Other expenditures	6.367	56
Medicine and medical comforts	163	43
Advertsing and printing	70	81
Taxes and insurance	8	00
interest and included in the contract of the c		
Total	\$56 440	77
10ta1	ψυσ, 110	

Government aid for 1918 \$2,787 47

HOUSE OF PROVIDENCE, TORONTO.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.		Receipts.
In residence, 1st October, 1917 Admitted	362 195	From the Province of Ontario \$9,897 65 From the City of Toronto 18,000 00 Other municipalities
Total number of inmates.	5 57	From inmates, in payment of board 17,378 40
Discharged	$\begin{array}{c} 133 \\ 54 \end{array}$	Subscriptions, donations and bequests of private individ-
In residence, 30th September, 1918	370	uals 15,686 00 From other sources 9,226 33
	557	Total\$70,188 38
Places Admitted From.	530	$Expenditures. \ \ $
County of York	8 19	Food of all kinds
Immigrans and foreigners	557	nishings 4,841 61 Fuel, light and cleaning 10,738 77 Salaries and wages 3,739 17
Sex.	00.	Drugs and medicines 465 34 Ordinary repairs 1,814 01 Other expenditures 3,843 35
Male Female	253 301	Total
	557	Government aid for 1918\$ 10.007 97

HUMEWOOD HOUSE, TORONTO.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.	
In residence, 1st October, 1917	23
Admitted	42
Total number of inmates.	65
Discharged	44
Deaths	1
In residence. 30th September, 1918	20
	65
Places Admitted From.	
City of Toronto	61
County of York	4
Other counties of Ontario	
Immigrants, foreigners, etc	
	65
Sex.	
Male (infants)	15
Female	50
_	65

Receipts. From the Province of Ontario $$263\ 26$

Subscriptions donations of	• • • • •	•
private individuals	4.505 3	
Total	\$4,768 60)
Expenditures.		
Food of all kinds Clothing, furnshings, etc. Fuel, light, cleaning, etc. Salaries and wages Repairs Other expenses	\$1,634 89 453 9- 525 69 1,080 00 510 99 1,191 59	205
Total	\$5,396 9:	2
Government aid for 1918	\$278 6	4

INDUSTRIAL REFUGE, TORONTO.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.	Receipts.
In residence, 1st October, 1917 Admitted	From the City of Toronto 600 00 Payments from inmates 901 00
Discharged 1	1 Other sources 317 90
Died	- Expenditures.
8	Food of all kinds \$8,116 74
Places Admitted From.	Clothing and furnishings 1,409 92 Fuel, light and cleaning 3,935 00
City of Toronto 6 County of York and other	Repairs, ordinary 1,029 47
counties	013
Sex.	8 Total \$25,823 77
Female 8	Government aid for 1918 \$2,068 43
Female 8	o _
S	s

THE JULIA GR	EENSHIE	CLDS HOME, TORONTO.	
Full particulars of the operationsummaries:	ons of thi	s Institution will be found in the	annexed
Movements of Inmates.	-	Receipts.	
In residence, 1st October, 1917 Admitted	28 8	From the Province of Ontario From the City of Toronto Payments of inmates	\$768 25 200 00 4.694 44
Total number of inmates	36	Income from property belonging to the Home	157 48
Discharged	3 4	Subscriptions, donations Other sources	2,165 04
In residence, 30th September, 1918	29	Total	\$7,985 21
	36	Expenditures.	
Places Admitted From.		Food of all kinds	\$3,597 87 552 24
City of Toronto County of York Other counties	34 2 36	Fuel, light and cleaning Salaries and wages Repairs Other expenses Medicine and medical comforts	1,524 45 1,969 25 439 17 184 32 34 12
Sex.		Repairs, additions	
Females	3 6	Total	\$8,301 42
	36	Government aid for 1918	\$735 42

S. A. RESCUE HOME, TORONTO.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.	, 1	Receipts.		
In residence, 1st October, 1917 Admitted	70 306	From the Province of Ontario From the City of Toronto From inmates	500	00
Total number of inmates.	376	Subscriptions and donations From other sources	1,045	12
Discharged Deaths In residence, 30th September,	289 8	Total	\$8,987	04
1918	79	Expenditures,		
Places Admitted From.	376	Food of all kinds	\$2,495 360 326 3,771	$\begin{array}{c} 01 \\ 25 \end{array}$
City of Toronto	167 95	Repairs Rent Drugs and medicines	$\begin{array}{c} 23 \\ 1,400 \\ 85 \end{array}$	$79 \\ 00 \\ 49$
Immigrants, etc.	114	Other expenses	1,244	38
	376	Total	\$9,706	82
Sex.		Government aid for 1918	\$1 036	66
MaleFemale	50 326			
	376			

VICTOR HOME FOR YOUNG WOMEN, TORONTO.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.	
In residence, 1st October, 1917 Admitted	$\begin{array}{c} 23 \\ 123 \end{array}$
Total number of inmates.	146
Discharged Deaths In residence, 30th September, 1918	120 3 23
Places Admitted From.	146
City of Toronto	121 25
Sex.	146
Female	123 23
	146

Receipts.

From the Province of Ontario	\$344	14
From the City of Toronto	570	00
From inmates	626	75
Subscriptions, donations of		
private individuals	56	50
From other sources	3,529	
From other sources	3,323	01
Total	\$5,127	20
Expenditures.		
Food of all kinds	\$1,471	53
Clothing, furnishings, etc	4 - 1	
Clothing, furnishings, etc	19	25
Fuel. light, cleaning. etc	19 515	$\begin{array}{c} 25 \\ 12 \end{array}$
Fuel. light, cleaning. etc Salaries and wages	19 515 725	$\frac{25}{12} \\ 00$
Fuel. light, cleaning. etc Salaries and wages Repairs	19 515 725 182	$\begin{array}{c} 25 \\ 12 \\ 00 \\ 45 \end{array}$
Fuel. light, cleaning. etc Salaries and wages	19 515 725	$\begin{array}{c} 25 \\ 12 \\ 00 \\ 45 \end{array}$
Fuel. light, cleaning. etc Salaries and wages Repairs	19 515 725 182 2,213	25 12 00 45 85

HOME FOR THE FRIENDLESS, WINDSOR.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.	
In residence, 1st October, 1917	31
Admitted	27
Total number of inmates.	58
Discharged	25
Died	4
lu residence, 30th September, 1918	29
	58
Places Admitted From.	
City of Windsor	58
County of Essex	
Immigrants, foreigners, etc	• • • • • •
	58
Sex.	
Male	37
Female	21
	58

Receipts.	•
From the Province of Ontario From the City of Windsor From inmates	\$747 67 3,421 90 291 75 48 10
Total	\$4,509 42
Expenditures.	
Food of all kinds	\$2,947 89 152 42 235 03 93 12 854 50 308 93
Total	\$4,591 89
Government aid for 1918	\$797 02

77

ORPHAN ASYLUMS

The statistical tables on the following pages of this report show an increase in the contributions to several of the Institutions, while in some cases there is a falling off as compared with last year.

The total number of children cared for in the Orphanages during the year was 4,664, as compared with 4,233 in 1917.

In the tables will be found full details of the receiving and discharging of children,

The statistics relating to the sex and previous residence of the inmates are given in the following summary: Sex.

 Male
 2.410

 Female
 2.254

 4,664

 Previous Residence.

 Received from cities in which Orphanages are located
 3 399

 Received from counties in which Orphanages are located
 369

 Received from other counties in the Province
 732

 Immigrants and foreigners and unknown
 164

 4.564

TABLE L.--Schedule "C"-Orphanages.

Zo. remaining in residence on 30th Sept., 1918.	8624821238888242398888882453 862452388888888888888888888888888888888888	2,128
No. of deaths during the year.	-4 -52 2 x 2 2 22-4x	125
No. dischargd during the year.	25 25 25 25 25 25 25 25 25 25 25 25 25 2	2,411
Total number maintained during the year,	25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4,664
Xo, admitted during the year ending 30th Sept., 1918.	85.58.45.58.85.58.58.58.58.58.58.58.58.58.58.58	2,555 2,159
No, in residence lst of October, 1917.	x8\$	2,109 2,074
Location,	Cornwall Fort William Hamilton Kingston Kitchener London Ottawa Peterborough Picton St. Agatha St. Catharines Toronto	
Name of Orphanage.	Society hildren's Shelter n's Home	Totals for 1917

TABLE II.—Schedule C.—Orphanages.

	Location.	Aggregate stay of inmates.	on maintenance account for the year ending 30th September, 1918.	Average cost per inmate per day.
			•	eents
	Corningl	9,449		
	Fort William	36, 578	10.072 96	0.27
	Hamilton	22, 327	7.217 15	0.32
		16, 102	6, 160 89	0.37
Girls' Home	• • • • • • • • • • • • • • • • • • • •	000, 200	0 151 93	0.36
-~		000,62	3,101,30	. C
St Morris Ornhan Asylum	:	39,6/5	14,16/ 90	0.00
Duriting A or plant to the second to the sec	**	11.705		1.04
	Lingston	13,891		09.0
	THE STORY	21 114		0.18
St. Mary of the Lake Orphanage		11, 500	3 516 97	0.30
Kitchener Orphanage	Kitchener	11,005		0.46
Protestant Ornhans' Home	London.	14,045		0.40
O 41 11: O Think I There is	-	47.535		0.31
Koman Catholic Orphans, Home		11 673		0.33
-		3,000		85 0
	Ottawa	3,902		02.0
Professiont Infants' Home		9,765		0.00
INDIANA INDIANA	=	16.566	11,008 19	0.00
Tollestally of phans Home	=	83, 993		0.26
St. Joseph s Orphanage		36, 736	+	
St. Patrick's Orphanage	• • • • • • • • • • • • • • • • • • • •	21,00	12 106 98	0.50
		*60°+7	2 713 05	25.0
_	Peterborough	14,000	00 071,0	
_	Picton	23,782	13,599 11	20.00
	St. Agatha	20,175	5,152 36	0.79
:	Ct Catharines	6.748	3,114 23	9+.0
:	St. Catharmes	26,612		0.54
	Toronto	20,02		0.59
:		204,27		1 05
Home for Incurable Children	• • • • • • • • • • • • • • • • • • • •	10,339		19.0
Infants' Home and Infirmary	• • • • • • • • • • • • • • • • • • • •	26,257		10.0
International International	9.9	47.012		0.43
I Coestant Of Phase Andreas		87,363		0.41
Sacred Heart Orphanage		17 021		0.83
y's infants' Home		12,01	0 155 48	0.67
Working Boys' Home		19,010		
Thatale for 1918		782,716	314,092 03	0.40
Totals for 1017		765.123	252,135 35	0.00

TABLE III.—Schedule C—Orphauages.

Nazareth Orphanage ** St. Joseph's Orphanage ** Boys' Home Girls' Home Indiants' Home and Home for the Friendless St. Mary's Orphan Asylum. Salvation Army Rescue Home Orphans' Home and Widows' Friend Society Kitchener Orphanage Kitchener Orphans' Home Protestant Orphans' Home St. Rescue Home and Children's Shelter. Ottawa Boys' Home Protestant Indiants' Home St. A. Rescue Home and Children's Shelter. Ottawa Boys' Home St. A. Rescue Home St. Joseph's Orphanage † St. Patrick's Orphanage † St. Patrick's Orphanage † St. Patrick's Orphanage † St. Vencent's Orphanage † St. Vencent's Orphanage † St. Vencent's Orphanage † St. Vencent's Orphanage † St. Vencent's Orphanage † St. Vencent's Orphanage † St. Vencent's Orphanage † St. Vencent's Orphanage † St. Vencent's Orphanage † Pets	Cornwall Fort William Hamilton Kingston Kitchener London Ottawa Peterboro	22.327 9, 449 9, 449 36, 578 22.327 22.327 16, 492 16, 492 21, 082 39, 675 6, 177 13, 891 11, 582 14, 045 47, 535 5, 589 8, 902 8, 902 16, 166 17, 188 16, 166 17, 188 18, 18, 18, 18, 18, 18, 18, 18, 18, 18,	stay upon which computation of Refuge rate is based. 4,578 6,684 6,084			at seven (7) cents. per day, being Refuge rate of adults. \$ c. \$ c. 320 46 320 46 386 96 425 88	Government grant for the year 1918. \$ c. 188 98 731 56 446 54 329 84 742 10 793 50 510 50 22 28 622 28 622 28 64 280 96 950 70 537 66 78 04 195 30 331 32 1,679 86 734 72 82 233 20 331 32 1,679 86 734 72 82 233 20 331 32 1,679 86 734 72 82 734 72 82 734 72 82 734 72 82 734 72 82 734 72 82 734 72 82 734 72 82 734 72 82 734 72 83 734 734 734 734 734 734 734 734 734 73
	St. Agatha 20,175 St. Catharines 6,748 Toronto 22,402 10,359 11,024 80,148 13,510 145,251 1745,251	20,175 20,175 6,748 22,462 22,402 10,359 19,103 47,012 17,024 80,148 13,510 745,251 745,251	7,215	4.116 82 4.850 14 13.528 18 13.528 18 19.98 14 14.818 43 19.731 14 15.717 78 34.458 21 10.085 04	103 50 134 96 532 84 448 04 207 18 382 06 940 24 340 48 1,602 96 2702	500 78 505 05 505 2,222 55 2,273 67	

SEPARATE REPORTS

NAZARETH ORPHANAGE, CORNWALL.

Sex.

Male

30

The following summaries show the operations of this Orphanage during the year:

25

Movements of Inmates.

In residence, 1st October, 1917

Admitted	25	Female	20
Total number of inmates	50		50
Discharged	22	Places Admitted From.	
Died	• • • • •	Town of Cornwall	21
1918	28	County of Stormont	28
	50	Other counties and countries Immigrants, etc	1
			50
The revenues and expenditu Hotel Dieu Hospital, Cornwall, a Government aid for 1918, \$18	nd cannot i	s Orphanage are included in those be shown separately.	of the
ST. JOSEPH'S	S ORPHAN	NAGE, FORT WILLIAM.	
The following summaries sho	ow the oper	rations of this Charity during the y	ear:
Movements of Inmates.		Sex.	
In residence, 1st October, 1917	89	Male	95
Admitted	112	Female	106
Total number of inmates.	201	The second of th	201
Discharged	101	Places Admitted From.	
Died	• • • • • •	District of Thunder Bay	97
In residence, 30th September, 1918	100	Fort William	59
	001	Immigrants, etc	45
	201	_	201
The revenue of the Home, in and the expenditure, \$10,072.96. Government aid for 1918, \$73		Government grant of \$677.94, was \$	19,574 94,
DD OMEGM AND	C OBDITAN	A CONTINUE THANKS MONT	
PROTESTANT	CORPHAN	ASYLUM, HAMILTON.	
The following summaries sho	w the oper	cations of this Asylum during the	year:
Movements of Inmates.		Sex.	
In residence, 1st October, 1917 Admitted		Male Female	
Total number of inmates		Places Admitted From.	
Discharged			1
Deaths	• • • • •	City of Hamilton	
1918		other countries	
_			
The receipts and expenditure Women's Home, vide Schedule "I Government aid for 1918, —	es are inclu B"Refuge	ded in the financial statements of t Report.	

BOYS' HOME, HAMILTON.

The following summaries show the operations of this Home during the year:

Movements of Inmates. In residence, 1st October, 1917 Admitted Total number of inmates.	64 30 94	Places Admitted From. Hamilton City
Discharged residence, 30th September, 1918	4 1 5 3	94
	94	

The receipts of the Home during the year, including the Government grant of \$492.74, were \$6,999.72, and the expenditures were \$7,217.15.

Government aid for 1918, \$446.54.

GIRLS' HOME, HAMILTON.

The following summaries show the operations of this Home during the year:

Movements of Inmates.		Places Admitted From.
In residence, 1st October, 1917 Admitted	- 40 45	City of Hamilton
Total number of inmates.	85	85
Discharged	37 48 85	

The revenue of the Home during the year, including the Government grant of \$311.56, was \$6,236.93, and the expenditure was \$6,160.89.

Government aid for 1918, \$329.84.

HOME FOR THE FRIENDLESS AND INFANTS' HOME, HAMILTON.

The following summaries show the operations of this Home during the year:

Movements of Inmates.		Sex.	
In residence, 1st October, 1917 Admitted	54 178	MaleFemale	97 135
Total number of inmates.	232	Places Admitted From.	232
Discharged Died In residence, 30th September, 1918	143 4 85	City of Hamilton County of Wentworth Other places and counties Aliens	205 9 15 3
	232		232

The revenue of the Home, including Government grant of \$637.68, was \$8,947.34, and the expenditure, \$9,151.93.

Government aid for 1918, \$742.10.

ST. MARY'S ORPHAN ASYLUM, HAMILTON.

The following summaries show the operations of this Asylum during the year:

Movements of Inmates.		Sex.	
In residence, 1st October, 1917 Admitted	118 79	Male	103 94
Total number of inmates.	197	Places Admitted From.	197
Discharged	79 1	City of Hamilton	152
In residence, 30th September,	-	County of Wentworth	4
1918	117	Other counties and countries .	41
	197		197

Including the Government grant of \$806.96, the revenue of the Asylum during the year amounted to \$15,169.70, and the expenditure to \$14,167.30.

Government aid for 1918, \$793.50.

THE SALVATION ARMY RESCUE HOME, HAMILTON.

The following summaries show the operations of this Asylum during the year:

Movements of Inmates.		Sex.	
In residence, 1st October, 1917 Admitted	28 81	MaleFemale	23 86
Total number of inmates.	109	Places Admitted From.	109
Discharged	86 4	City of Hamilton	66
In residence, 30th September, 1918	19	County of Wentworth Other counties and countries .	$\frac{2}{36}$
	109	Aliens, etc.	5
	,	l .	109

The revenue of this Asylum for the year, including the Government grant of \$448.34, amounted to \$5,954.38, and the expenditure to \$6,319.98.

Government aid for 1918, \$510.50.

ORPHANS' HOME, KINGSTON.

The following summaries show the operations of this Institution during the year.

Movements of Inmates.		Sex.	
In residence, 1st October, 1917 Admitted	45 40	MaleFemale	3 9 46
Total number of inmates.	85	Places Admitted From.	85
Discharged	39	Tides Admitted From,	-
Died	• • • •	City of Kingston County of Frontenac	74
1918	46	Other counties in Ontario	4
	85	Immigrants, foreigners, etc	• • • • • •
	00		85

The revenue of this Home for the year, including the Government grant of \$391.78. was \$8,370.56, and expenditure was \$8,413.44. Government aid for 1918, \$277.82.

ST. MARY'S OF THE LAKE ORPHANAGE, KINGSTON.

The following summaries show the operations of this Home during the year:

Movements of Inmates.		Sex.	
In residence, 1st October, 1917 Admitted	96 51	Male	82 65
Total number of inmates .	147	Places Admitted From.	147
Discharged		City of Kingston	82
1918	91	Other counties	65
	;		147

The income of the Asylum during the year, including the Government grant of \$684.58, amounted to \$5.551.85, and the expenditure to \$5,587.54.

Government aid for 1918, \$622.28.

KITCHENER ORPHANAGE, KITCHENER.

The following summaries show the operations of this Orphanage during the year:

Movements of Inmates.		Sex.	
In residence, 1st October, 1917 Admitted	33 35	MaleFemale	45 23
Total number of inmates.	68	Places Admitted From.	68
Discharged Died In residence, 30th September, 1918	38 68	Town of Kitchener County of Waterloo Counties in Ontario Immigrants, etc	39. 23 6
	00		68

The revenue of the Home, including the Government grant of \$237.22, was \$4,300.74, and the expenditures were \$3,516.97.

Government aid for 1918, \$231.64.

PROTESTANT ORPHANS' HOME, LONDON.

The following summaries show the operations of this Orphanage during the year:

Movements of Inmates.	, .	Sex.	,
In residence, 1st October, 1917 Admitted	31 55	Male	58 28
Total number of inmates.	86		86
Discharged	49	Places Admitted From.	
In residence, 30th September, 1918	36	City of London	86
	86		86

The revenue of the Home, including the Government grant of \$282.64, was \$6,585.82, and the expenditures were \$6.510.57.

Government aid for 1918, \$280.90.

ROMAN CATHOLIC ORPHANS' HOME, LONDON.

The following summaries show the operations of this Orphanage during the year:

Movements of Inmates.		Sex.	
In residence, 1st October, 1917 Admitted	128 109	Male	135 101
Total number of inmates.	237		237
Discharged	97 12	Places Admitted From.	
In residence, 30th September,		City of London	101
1918	128	County of Middlesex	2
		Other parts of the Province	134
	237		
	i		237

The revenue of the Home during the year, including the Government grant of \$927.22, amounted to \$14,673.93, and the expenditure to \$14,771.38.

Government aid for the year 1918, \$950.70.

S. A. RESCUE HOME AND CHILDREN'S SHELTER, LONDON.

The following summaries show the operations of this Home during the year:

Movements of Inmates.		Sex.	
In residence, 1st October, 1917 Admitted	29 113	MaleFemale	98
Total number of inmates.	142 91	Places Admitted From.	142
Died In residence, 30th September, 1918	16 35 142	City of London	88 53 1 142

The revenue of the Home, including Government grant of \$441.13, was \$4,886.33, and the expenditure, \$4,941.03.

Government aid for 1918, \$537.66.

BOYS' HOME, OTTAWA.

The following summaries show the operations of this Home during the year:

Movements of Inmates	·.	Sex.	
In residence, 1st October, 1917 Admitted	10 47	Male Female	57
Total number of inmates.	57	Places Admitted From.	57
Discharged	48		
Died	• • • • •	City of Ottawa	33
In residence, 30th September,	0	County of Carleton	24
1913	9	Other counties in Province	• • • • • •
-		Immigrants, foreigners, etc	
	57		
			57

The revenue of the Home during the year, including Government grant of \$72.44, amounted to \$3.205.46, and the expenditures to \$3.842.50.

Government aid for 1918, \$78.04.

10 H.C.

ORPHANS' HOME, OTTAWA.

The following summaries show the operations of this Home during the year:

Movements of Inmates.		Sex.	
In residence, 1st October, 1917 Admitted	49 •88	Male	69 68
Total number of inmates.	137	Places Admitted From.	137
Discharged Died In residence, 30th September, 1918	94 1 42	City of Ottawa	127 4 1 5
	137		137

The receipts and expenditures are included in the financial statement of the Refuge Branch of the Orphans' Home. Ottawa. See Schedule "B." Refuge Report. Government aid for 1918, \$331.32.

ST. JOSEPH'S ORPHAN ASYLUM, OTTAWA.

The following summaries show the operations of this Charity during the year:

Movements of Inmates.	,	Sex.	
In residence, 1st October, 1917 Admitted	$\begin{array}{c} 211 \\ 212 \end{array}$	Male Female	199 224
Total number of inmates.	423		423
Discharged	$\begin{array}{c} 193 \\ 1 \end{array}$	Places Admitted From.	
In residence, 30th September,		City of Ottawa	210
1918	229	County of Carleton	20
		Other counties in Ontario	193
	423		100
			423

The receipts of the Institution, including Government grant of \$1,662.88, were \$21,775.23, and the expenditures, \$21,752.68.

Government aid for 1918, \$1,679.86.

ST. PATRICK'S ORPHAN ASYLUM, OTTAWA.

The following summaries show the operations of this Asylum during the year:

Movements of Inmates.		Sex.	
In residence, 1st October, 1917 Admitted	95 7 8	Male	89 84
Total number of inmates.	173	Places Admitted From.	173
In residence, 30th September,	75 98	City of Ottawa County of Carleton Other parts of Province	88 47 29
1918	173	Other countries	173

The receipts and expenditures of this Institution are included in the financial statement of the Refuge Department; vide Schedule "B," Refuge Report.

Government aid for 1918, \$734.72.

THE PROTESTANT INFANTS' HOME, OTTAWA.

The following summaries show the operations of this Home during the year:

Movements of Inmates.		Sex.	
In residence, 1st October, 1917 Admitted	16 83	Male	51 48
Total number of inmates.	99	Places Admitted From.	99
Discharged	44		
Died	24	City of Ottawa	62
In residence, 30th September,		County of Carleton	3
1918	31	Other counties in Province	10
	99	Immigrants, foreigners, etc	24
	30		99

The revenue of the Home during the year, including Government grant of ———, amounted to \$7,168.08, and the expenditures to \$6,873.99.

Government aid for 1918, \$195.30.

S. A. RESCUE HOME AND CHILDREN'S SHELTER, OTTAWA.

The following summaries show the operations of this Home during the year:

Movements of Inmates.		Sex.	
In residence. 1st October, 1917 Admitted during the year	63 121	Male	70 114
Total number of inmates.	184	Places Admitted From.	184
Discharged	107		
Died	8	City of Ottawa	$\frac{164}{2}$
1918	69	Other counties	$1\overline{5}$
	184	Immigrants, foreigners, etc	3
	194		184

The revenue of the Home, including Government grant of \$653.37, was \$11,447.11, and the expenditures were \$12,106.98.

Government aid for 1918, \$827.18.

ST. VINCENT'S ORPHANAGE. PETERBOROUGH.

The following summaries show the operations of this Home during the year:

Movements of Inmates.		Sex.	
In residence, 1st October, 1917 Admitted	33 48	Male	37 44
Total number of inmates.	81		81
Discharged	33	Places Admitted From.	
In residence, 30th September,		City of Peterborough	48
1918	48	County of Petenborough	
_		Other counties in the Province	33
	81		
			81

The revenue of the Home, including the Government grant of \$276.76, during the year was \$3,718.76, and the expenditures were \$3,742.95.

Government aid for 1918, \$293.20.

LOYAL TRUE BLUE ORPHANAGE, PICTON.

The following summaries show the operations of this Orphanage during the year:

Movements of Inmates.		Sex.	
In residence, 1st October, 1917 Admitted	66 29	MaleFemale	48 47
Total	95 25	Places Admitted From.	95
Died	68	City of Toronto	40 5 35 15
	95		95

The revenue of the Home, including the Government grant of \$469.36, was \$14,721.41, and the expenditures were \$13.399.77.

Government aid for 1918, \$475.64.

ST. AGATHA ORPHAN ASYLUM, ST. AGATHA.

The following summaries show the operations of this Asylum during the year:

Movements of Inmates.	1	Sex.	
In residence, 1st October, 1917 Admitted	55 17	Male Female	34 38
Total number of inmates.	72	Places Admitted From.	• 72
Discharged Died In residence, 30th September,	17	County of Waterloo Other counties	72
1918	55	Aliens	
	72		72

The revenue of the Asylum was \$4,492.38, including the Government grant of \$375.56, and the expenditure, \$5,152.36.

Government aid for 1918, \$403.50.

PROTESTANT HOME (ORPHANAGE BRANCH), ST. CATHARINES.

The following summaries show the operations of this Charity during the year:

Movements of Inmates.	1	Sex.	
In residence, 1st October, 1917 Admitted	22 11	Male	21 12
Total number of inmates.	33	Places Admitted From.	33
Discharged		City or St. Catharines	26 4
1918	19 33	Other counties	3
	99		33

The revenue of the Home during the year, including the Government grant of \$218.74, amounted to \$5,068.88, and the expenditure, \$3,114.23.

Government aid for 1918, \$134.96.

BOYS' HOME, TORONTO.

The following summaries show the operations of this Home during the year:

Movements of Inmates.		Places Admitted From.	-
In residence, 1st October, 1917 Admitted	79 49	City of Toronto	128
Total number of inmates.	128	lmmigrants, foreigners, etc.	
Discharged	66 0 62		128
	128		

The receipts of the Home during the year, including the Government grant of \$583.36, amounted to \$14,092.10, and the expenditures were \$14,586.48.

Government aid for the year, 1918, \$532.84.

GIRLS' HOME, TORONTO.

The following summaries show the operations of this Home during the year:

Movements of Inmates.		Places Admitted From.	
In residence, 1st October, 1917 Admitted		County of York	103
Total number of inmates.	103	Other parts of Ontario	
Discharged	51 52 103		103

The receipts of the Institution during the year, including the Government grant of \$471.82, amounted to \$13,997.00, and the expenditure, \$13,202.85.

Government aid for 1918, \$448.04.

HOME FOR INCURABLE CHILDREN, TORONTO.

The following summaries show the operations of this Home during the year:

Movements of Inmates.		Sex.	
In residence, 1st October, 1917 Admitted	29 5	Male	18 16
Total number of inmates.	34		34
Discharged	4 2	Places Admitted From.	
In residence, 30th September,		City of Toronto	20
1918	28	Other counties in the Province	12
		Immigrants, foreigners, etc	2
	34		
•			34

The revenue of the Home during the year, including the Government grant of \$210.02, amounted to \$10,178.16, and the expenditure to \$10,947.14.

Government aid for 1918, \$207.18.

THE INFANTS' HOME AND INFIRMARY, TORONTO.

The following summaries show the operations of this Home during the year:

Movements of Inmates.		Sex.	
In residence, 1st October, 1917 Admitted	$\begin{array}{c} 81 \\ 193 \end{array}$	Male	128 146
Total number of inmates.	274	Places Admitted From.	274
Discharged	$\begin{array}{c} 156 \\ 45 \end{array}$	City of Toronto	255
In residence, 30th September,		County of York	
1918	73	Cther counties in Ontario Immigrants, foreigners, etc	19
	274		274
			417

The receipts of the Home during the year, including the Government grant of \$1,072.92, were \$15,891.35, and the expenditures were \$17,034.27.

Government aid for the year, 1918, \$882.84.

ST. MARY'S INFANTS' HOME, TORONTO.

The following summaries show the operations of this Home during the year:

Movements of Inmates.	f	Sex.	
In residence, 1st October, 1917 Admitted	37 73	Male	70 40
Total number of inmates.	110	Places Admitted From.	110
Discharged	61 4 45	City of Toronto	
	110	Immigrants, foreigners, etc	110

The receipts of the Home during the year, including the Government grant of were \$15,717.78, and the expenditures were \$14,240.25.

Government aid for the year, 1918, \$340.48.

PROTESTANT ORPHANS' HOME, TORONTO.

The following summaries show the operations of this Institution during the past year:—

Movements of Inmates,		Scx.	
In residence, 1st October, 1917 Admitted	$\frac{129}{72}$	Male	115 86
Admitted,			201
Total number of inmates.	201	Places Admitted From.	1
Discharged	80		
Died	1	City of Toronto Immigrants, foreigners, etc	195 6
1918	120	Other parts of Ontario	
	001		201
	201	1	201

The receipts of the Institution during the year, including the Government grant of \$1,026.72, were \$20,757.86, and the expenditures were \$20,585.41.

Government aid for the year 1918, \$940.24.

ROMAN CATHOLIC ORPHAN ASYLUM, TORONTO.

The following summaries show the operations of this Orphanage during the year:

Movements of Inmates.	,	Sex.	
In residence, 1st October, 1917 Admitted	$\begin{array}{c} 255 \\ 351 \end{array}$	Male	$\begin{array}{c} 314 \\ 292 \end{array}$
Total number of inmates.	606	Places Admitted From.	606
Discharged	383		
Died	3	City of Toronto	571 2
1918	220	Other parts of Ontario	30
	606	Immigrants, foreigners, etc	3
	000		606

The receipts of the Institution during the year, including the Government grant of \$1,984.81, were \$36,443.02, and the expenditures were \$36,515.36.

Government aid for the year 1918, \$2,108.01.

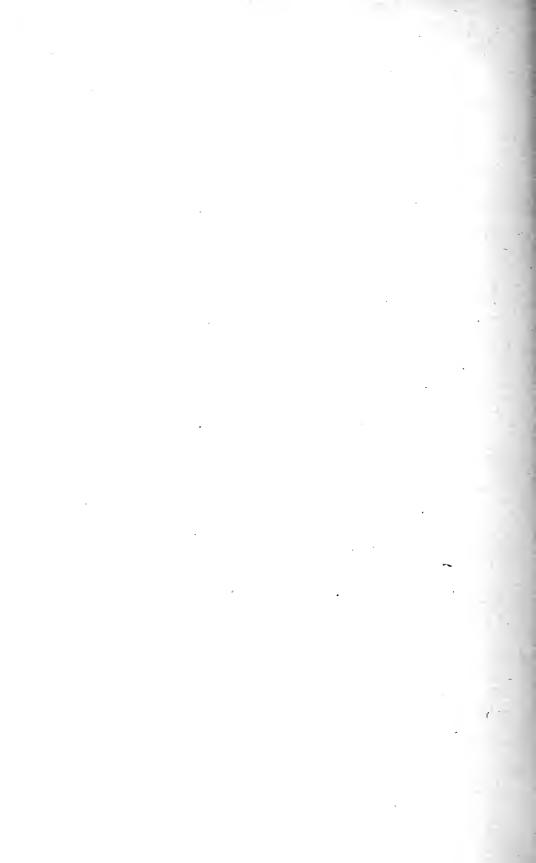
THE WORKING BOYS' HOME, TORONTO.

The following summaries show the operations of this Home during the year:

Movements of Inmates.		Sex.	,
In residence, 1st October, 1917 Admitted	30 91	Male	121
Total number of inmates.	121	Places Admitted From.	
Discharged	85 36 121	City of Toronto	66 4 9 42
	121		121

The receipts of the Home during the year, including the Government grant of \$173.48, amounted to \$10,258.52, and the expenditures were \$9,155.48.

Government aid for the year 1918, \$270.20.



COUNTY HOUSES OF REFUGE

The following returns have been received from the Houses of Refuge maintained by the different Counties in Ontario. These returns show the approximate value of the buildings, contents and land, also the number of acres in connection with each House of Refuge. The receipts and expenditures are also stated, together with the average number of inmates in each Refuge.

COUNTY OF BRANT.

Statement showing value of property, receipts, expenditures, and average number of inmates.

Approximate value of buildings " " contents " " land Number of acres	5,000 00 20,000 00
Receipts.	
Profits of farm	
Expenditures.	
Maintenance of House	

COUNTY OF BRUCE.

Statement showing value of property, receipts, expenditures, and average number of inmates.

Approximate	value	10	buildings	\$22.000	0.0
**	"		contents	1,200	00
44	**		land	3,500	()()
Number of a	cres .				61

Receipts.

Profits of farm	\$164	33
Received from all other sources	304	00
Amount provided out of taxation and received from Treasurer	6.687	69

Expenditures.

Maintenance of House	\$7,156 02
Average number of inmates	54

COUNTY OF ELGIN.

Statement showing value of property, receipts, expenditures, and average number of inmates.

Approximate valu	ie of	buildings	\$26,000 00
" "		contents	
" "		land	10,700 00
Number of acres			100

Receipts.

Profits of farm	\$1 351	36
Received from all other sources	354	0.0
Amount provided out of taxation and received from Treasurer	6,038	66

Expenditures.

Maintenance of House	\$4,560 77
For permanent improvements	
Average number of inmates	57

COUNTY OF ESSEX.

Statement showing value of property, receipts, expenditures, and average number of inmates.

Approximate	value o	f buildings	\$50,000	00
	6.6	contents	3,000	0.0
44	**	land	8,000	00
Number of a	cres			50

Receipts.

Profits of farm	\$5,974 50
Received from all other sources	3,464 61
Amount provided out of taxation and received from Treasurer	10,096 66

Expenditures.

Maintenance and	improvements of House	
Average number	of inmates	52

COUNTY OF GREY.

Statement showing value of property, receipts, expenditures, and average number of inmates.

Approximate	e value of	buildings	\$21,000	0.0
"	6.6	contents	3,550	00
4.6	6.6	land	5,200	00
Number of	acres			97

Receipts.

Profits of farm	\$1,523 83
Received from all other sources	1,143 00
Amount provided out of taxation and received from Treasurer	3,994.86

Expenditures.

Maintenance of House	\$6,233 21
Average number of inmates	52

COUNTY OF HALDIMAND.

Statement showing value of property, receipts, expenditures, and average number of inmates.

Approximate	value of	buildings	\$22,000	00
44	44	contents	3,800	
**	44	land	5,000	
Number of a	cres			50

Receipts.

•		
Profits of farm	\$2,207	86
Received from all other sources	408	50
Amount provided out of taxation and received from Treasurer	7,101	25

Expenditures.	
Maintenance of House	\$3,351 05 33
COUNTY OF HASTINGS.	
Statement showing value of property, receipts, expenditures, and avera of inmates.	ge number
Approximate value of buildings	\$59,000 00 3,000 00 10,000 00 73
Receipts.	
Profits of farm	\$2,665 21 2,459 83 10.878 20
Expenditures,	•
Maintenance of House	\$16,003 24 80
COUNTY OF HURON.	
Statement showing value of property, receipts, expenditures, and average of inmates.	age number
Approximate value of buildings " " contents " " land Number of acres	$\begin{array}{cccc} \$25.000 & 00 \\ 2.500 & 00 \\ 3.500 & 00 \\ 47\frac{1}{2} \end{array}$
Receipts.	
Profits of farm Received from all other sources	\$664 61 1,638 50 6,555 65
Expenditures.	
Maintenance of House	\$9,315 41 91
COLUMN OF VINE	
COUNTY OF KENT. Statement showing value of property, receipts, expenditures, and aver of inmates.	age number
Approximate value of buildings " contents " land Number of acres	\$25,000 00 2,200 00 5,000 00 50
Receipts.	
Profits of farm	\$1,972 39 6,243 10
Expenditures,	
Maintenance of House	\$5,740 17 52

COUNTY OF LAMBTON.

Statement	showing	value	of	property,	receipts,	expenditures,	and	average	number
of inmates.									

Approximate value of buildings " contents " " land Number of acres	\$34,000 2,000 6,000	00		
Receipts.				
Profits of farm	\$261			
Amount provided out of taxation and received from Treasurer				
Expenditures.				
Maintenance of House	\$9,150	85 42		

COUNTY OF LANARK.

Statement showing value of property, receipts, expenditures, and average number of inmates.

Approximate	value	of	buildings	\$35,000 00
44	44		contents	7,808 35
44	"		land	10,000 00
Number of a	cres	• • •		125

Receipts.

Profits of farm	\$950 26
Received from other sources	6,844 13
Amount provided out of taxation and received from Treasurer	12,529 68

Expenditures.

Maintenance of House	\$16,023 89
Average number of inmates	78

COUNTIES OF LEEDS AND GRENVILLE.

Statement showing value of property, receipts, expenditures, and average number of inmates.

Approximate			\$20 000 07 5,000 00
**		***************************************	5,000 00
Number of a	cres	 	100
		Danainta	

Receipts.

Profits of farm	\$1,135 72
Received from all other sources	1.308 58
Amount provided out of taxation and received from Treasurer	5.721 61
Amount provided out of taxation and received from freasurer	5,721 01

Maintenance of House	\$8,165 91
Average number of inmates	45

10,867 75

COUNTY OF LINCOLN.	
Statement showing value of property, receipts, expenditures, and aver of inmates.	age number
Approximate value of buildings	$\begin{array}{ccc} \$30,000 & 00 \\ 5,396 & 80 \\ 14,000 & 00 \\ 70 \end{array}$
Receipts.	
Profits of farm	\$4,998 64 2,661 50 6,138 96
Expenditures.	
Maintenance of House and improvements	42
COUNTY OF MIDDLESEX.	
Statement showing value of property, receipts, expenditures, and average of inmates.	rage number
Approximate value of buildings " " contents " " land Number of acres	10,500 00
Receipts.	
Profits of farm	711 67
Expenditures.	
Maintenance of House	\$13,358 66 79
COUNTY OF NORFOLK.	

Statement	showing	value	of	property,	receipts,	expenditures.	and	average	number
of inmates.									

Approximate value of buildings	5,000 00 5,500 00
Receipts.	
Profits of farm	\$890 58

Expenditures.

Maintenance of House	\$7,224	11
	Q1,224	
Average number of inmates		55

COUNTIES OF NORTHUMBERLAND AND DURHAM.

Statement	showing	value	of	property,	receipts,	expenditures,	and	average	number
of inmates.									

Approximate value of buildings " " contents " " land Number of acres Receipts.	\$55,500 3,000 4,500	00		
necorpio,				
Profits of farm, sale of stock				
Received from all other sources				
Amount provided out of taxation and received from Treasurer				
Expenditures.				
Maintenance of House and permanent improvements	\$14,441	00 78		

COUNTY OF ONTARIO.

Statement showing value of property, receipts, expenditures, and average number of inmates.

Approximate value of	buildings	\$28,000 00
" "	contentsland	4.050 00
Number of acres		48

Receipts.

Profits of farm	\$683 16
Received from all other sources	826 60
Amount provided out of taxation and received from Treasurer	9,848 05

Expenditures.

Maintenance of House	\$10,886 50
Average number of inmates	73

COUNTY OF OXFORD.

Statement showing value of property, receipts, expenditures, and average number of inmates.

Approximate	value of	buildings	\$30,000 00
"	44	contents	8,398 50
**	44	land	6,500 00
Number of a	acres		100

Receipts.

Profits of farm	\$2,134 72
Received from all other sources	2.202 53
Amount provided out of taxation and received from Treasurer	13,246 29

Maintenance of House	\$13.246 29
Average number of inmates	74

\$30,000 00 4.000 00

\$7,421 02

54

COUNTIES OF PEEL AND HALTON.

Statement	showing	value	of	property,	receipts,	expenditures,	and	average	number
of inmates.									

Approximate value of buildings and land	2,500 00
" " land	50
Receipts.	
Profits of farm	\$1,233 73 3,296 40
Expenditures.	
Maintenance of House, net cost	7,497 11 45

COUNTY OF PERTH.

Statement showing value of property, receipts, expenditures, and average number of inmates.

Approximate value of buildings

Maintenance of House

Average number of lnmates

" " land		
Number of acres		54
$^{\circ}$ Receipts. $^{\circ}$		
Profits of farm		80
Received from all other sources		
Amount provided out of taxation and received from T	reasurer 6,297	32
Expenditures.		

COUNTY OF PETERBOROUGH.

Statement showing value of property, receipts, expenditures, and average number of inmates.

**	buildingscontents	2,200	0.0
	Receipts.	0,000	96

Profits of farm	\$1,532	08
Received from all other sources	124	18
Amount provided out of taxation and received from Treasurer	7,917	85

Maintenance of House	\$5,074	65
Average number of inmates		36

\$15,746 09

63

COUNTIES OF PRESCOTT AND RUSSELL.

Statem	ent	showing	value	of	property,	receipts.	expenditures,	and	average	numbe:
of inmates.						•				

Approximate value of buildings contents land Number of acres	18,000 00 2,500 00
Receipts.	_
Profits of farm	\$4,298 00 1,676 47 9,773 26
Expenditures.	

Maintenance of House

Average number of inmates

COUNTY OF PRINCE EDWARD.

Statement showing value of property, receipts, expenditures, and average number of inmates.

Approximate	e value	of buildings		***************************************
4.6	4.4	contents		2,500 00
**	**			
Number of	acres .			
			4	

Receipts.

Profits of farm	\$2,357	13
Received from all other sources	1,035	20 °
Amount provided out of taxation and received from Treasurer	4,353	46

Expenditures.

Maintenance of House	\$8 269 47
Average number of inmates	42

COUNTY OF SIMCOE.

Statement showing value of property, receipts, expenditures, and average number of inmates.

Approximate "	value of	buildings contents			 	\$38 703 05 3.296 95
" Number of a		land			 	
			Re	ceipts.		

	\$2,464	99
Profits of farm	¥ /	
Received from all other sources	231	10
Amount provided out of taxation and received from Treasurer, including		
improvements	16,393	82

Maintenance of	House	\$12,283 96
	of inmates	81

\$22,788 03

104

COUNTIES OF STORMONT, DUNDAS AND GLENGARRY.		
Statement showing value of property, receipts, expenditures, and average of inmates.	age numb	er
Approximate value of buildings	\$50,000 4,000 10,000	$\frac{00}{00}$
Number of acres	1	40
Receipts.		
Profits of farm	\$1,520 579 10.557	73
Expenditures.		
Maintenance of House	\$12,768	57 54
COUNTY OF VICTORIA.		
Statement showing value of property, receipts, expenditures, and aver of inmates.	age numb	er
Approximate value of buildings contents land	\$35,238 8,588 8,344	99
Receipts.		
Profits of farm	\$1.397 1.225 8,959	48
Expenditures.		
Maintenance of House	\$11,583	04 54
CONTRACTOR AND AND AND AND AND AND AND AND AND AND		
COUNTY OF WATERLOO.		
Statement showing value of property, receipts, expenditures, and aver of inmates.	age numb	er.
Approximate value of buildings	\$20,000 5,000 20,000	0.0
Receipts.		
Profits of farm	\$964 1.169 20.653	51
Expenditures.		

Maintenance of House

Average number of inmates

COUNTY OF WELLAND.

Statement	showing	value	of	property,	receipts,	expenditures,	and	average	number
of inmates.								_	

Approximate value of buildings " " contents " " land	\$32,500 4,000 6,000	00
Receipts.		
Profits of farm	\$1,051 2,880 9,016	93
Expenditures.		- '
Maintenance of House	\$11,023	84 58

COUNTY OF WELLINGTON.

Statement showing value of property, receipts, expenditures, and average number of inmates.

"	"	contents		6.000	0 0
"	**	land		3.000	0 00
Number of	acres				58
			Receipts.		
			es		5 84 6 20
Amount pro	ovided or	it of taxation	on and received from Treasurer	9,400	00
			Expenditures.		
					9 57 72

COUNTY OF WENTWORTH.

Statement showing value of property, receipts, expenditures, and average number of inmates.

Approximate	value of	buildings	\$30.000 00
"	"	contents	6,000 00
**	**	land	14,000 00
Number of a	cres		188

Receipts.

Profits of farm	\$5,032	72
Received from all other sources	409	35
Amount provided out of taxation and received from Treasurer	3,740	46

Expenditures.

Maintenance of House	\$3,740 46
Average number of inmates	29

\$12,175 66

68

COUNTY OF YORK.

Statement showing value of property, receipts, expenditures, and average number of inmates. Approximate value of buildings \$30,000 00 contents 7,000 00 " 10,000 00 Number of acres 70 Receipts. Profits of farm \$3,177 89 Received from all other sources 627 73 Amount provided out of taxation and received from Treasurer 8,350 00 Expenditures. Maintenance of House

Average number of inmates



