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Ordinari Igal ter and







# SESSIONAL PAPERS

## VOL. XLVII.—PART VII.

## FIRST SESSION

OF THE

# FOURTEENTH LEGISLATURE

OF THE

# PROVINCE OF ONTARIO

SESSION 1915

TORONTO:

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- No. 6 Report of the Inspector of Legal Offices for the year 1914. Presented to the Legislature, March 24th, 1915. *Printed*.
- No. 7 Report of the Inspector of Registry Offices for the year 1914. Presented to the Legislature, March 29th, 1915. *Printed*.
- No. 8 Report of the Provincial Municipal Auditor for the year 1914. Presented to the Legislature. April 2nd. 1915. *Printed*.
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- No. 25 Report upon the Hospitals and Charities of the Province for the year 1914. Presented to the Legislature, April 2nd, 1915. Printed.
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- No. 35 Report of the Bee-Keepers' Association for the year 1914. Presented to the Legislature, April 2nd, 1915. Printed.
- No. 36 Report of the Entomological Society for the year 1914. Presented to the Legislature, April 2nd, 1915. Printed.
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- No. 51 Report of the Provincial Archivist for the year 1914. Presented to the Legislature, April 2nd, 1915. Printed.
- No. 52 Report of the Librarian on the State of the Library. Presented to the Legislature, February 24th, 1915. Not Printed.
- No. 53 Provincial Auditor's Statements for the year 1913-14. Presented to the Legislature, February 25th, 1915. Printed.
- No. 54 Report of the Workmen's Compensation Board, Ontario, for the year ending 31st December, 1914. Presented to the Legislature, February 22nd, 1915. Printed for distribution.
- No. 55 Copies of Orders-in-Council under subsection 6 of section 78, Cap. 62, R.S.O. 1914, relating to Surrogate Courts. Presented to the Legislature, February 23rd, 1915. Not Printed.
- No. 56 Copies of Orders-in-Council and Regulations made under the authority of the Department of Education or of the Acts relating to Public, Separate or High Schools. Presented to the Legislature, February 23rd, 1915. Printed for distribution.
- No. 57 Rules and Regulations made under chap. 24, R.S.O. 1914 as amended by Cap. 10, 4 Geo. V., relating to Succession Duties. Presented to the Legislature, February 25th, 1915. Printed for distribution.
- No. 58 Whitson's Report of Northern Development Branch under 2 Geo. V., Cap. 2, for the year 1914. Presented to the Legislature, March 18th, 1915. Printed.
- No. 59 Return to an Order of the House of the 22nd February, 1915, for a Return showing:—If any part of the 32,000 acres now being cleared, or about to be cleared, by the Government in the vicinity of Sudbury is to be set apart or used to give work to the unemployed. How many acres are to be so set aside, and what are the terms and conditions upon which the unemployed can secure work. Presented to the Legislature, March 8th. 1915. Mr. Carter. Not Printed.

- No. 60 Report of the Honourable Mr. Justice Riddell, as representative of the Province of Ontario at the Ceremonies in the City of New Orleans held in Commemoration of the one hundredth anniversary of the Battle of New Orleans and of the one hundred years of peace which began with the end of that Battle. Presented to the Legislature, March 15th, 1915. Printed.
- No. 61 Report of the Commissioner appointed to enquire into the financial affairs of the Village of Weston. Presented to the Legislature, March 15th, 1915. Not Printed.
- No. 62 Return to an Order of the House of the 15th March, 1915, for a Return showing:—1. All correspondence between the Government or any officer or official thereof and Paul Morand, License Inspector for North Essex, in reference to the resignation or dismissal in the month of April, 1914, of the said Paul Morand as License Inspector for North Essex. 2. All correspondence and communications between the Government or any officer or official thereof and the said Paul Morand and any resident or residents of North Essex with reference to the re-appointment of the said Paul Morand as License Inspector in North Essex in the month of June, 1914, a few days before the election. Presented to the Legislature, March 15th, 1915. Mr. Ducharme. Not Printed.
- No. 63 Agreement and Contract with Litho-Print, Limited, in connection with the Binding, etc., for the several Departments of Government. Presented to the Legislature, March 23rd, 1915. Printed.
- No. 64 Return to an Order of the House of the 10th March, 1915, for a Return showing:—1. Copies of all petitions or requests received by the Government since the 1st day of January, 1914, from any Municipal Authority or Body in the Province in reference to the imposition of a tax upon automobiles, or as to the distribution of that tax or a portion thereof to the municipalities maintaining the roads. 2. Copies of all correspondence between the Government and any officer or official thereof and any Municipality of the Province, or any Automobile Association or Organization in reference to the said matter. Presented to the Legislature, March 17th, 1915. Mr. Racine. Not Printed.
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  Return to an Address to His Honour the Lieutenant-Governor of the 11th March, 1915, for a Return of:—1. Copies of all Orders-in-Council and correspondence between the Government and any officer or official thereof and the Timiskaming and Northern Ontario Railway Company and any officer or official thereof in reference to the retirement of Frederick Dane as one of the Commissioners of the said Railway. 2. Copies of all Orders-in-Council and correspondence between the Government and

any officer or official thereof and the Timiskaming and Northern Ontario Railway Company with reference to the appointment of Mr. Lee as one of the Commissioners of the said Railway. Presented to the Legislature, March 19th, 1915. Mr. Mageau. Not Printed.

- No. 66
- Return to an Order of the House of the 15th March, 1915, for a Return showing:—1. What officers have been appointed by the Workmen's Compensation Board under section 59 of the Workmen's Compensation Act. 2. What are the names, dates of uppointment, and salaries of each officer so appointed. Presented to the Legislature, March 18th, 1915. Mr. Carter. Not Printed.
- No. 67
- Return to an Order of the House of 3rd March, 1915, for a Return showing:—1. All statements furnished by the Canada Copper Company, the International Nickel Company, the Mond Nickel Company and any other companies producing nickel, under section 8 of the Mining Tax Act respecting Taxation. 2. All reports from any Government mining assessor, made under the provisions of the Mining Taxation Act in respect of the mining operations of the Canada Copper Company, the International Nickel Company or the Mond Nickel Company, and particularly with reference to the royalties or taxes to be paid by the said Companies. 3. All correspondence between the Minister of Lands, Forests and Mines, or the Provincial Treasurer, or any officer or official of the Government and the Canada Copper Company, the International Nickel Company, the Mond Nickel Company and any other Companies producing nickel, with reference to the amount of royalties or taxes paid by the said Companies, or any of them, to the Provincial Treasury of the Province in respect of the ore mined or the mining operations carried on by them in the Province of Ontario. Presented to the Legislature, March 18th. 1915. Mr. Carter. Not Printed.
- No. 68
- Proceedings of the Second Annual Convention of the Association of Cemetery Officials of Canada. Presented to the Legislature, March 26th, 1915. Not Printed.
- No. 69
- Return to an Address of the 23rd day of March, 1915, praying for a Return shewing: 1. Copy of Order-in-Council dated 14th day of February, 1871, appropriating and transferring to the Government of the Province of Ontario the lands and property known as The Ontario Government House. 2. Copy of the Letters Patent dated the 15th day of January, 1908, declaring the said lands to have been transferred and appropriated for the use of the Provincial Legislature of the Province of Ontario within the meaning of the British North America Act, 1867. Presented to the Legislature 26th March, 1915. Mr. Bowman. Not Printed.

- No. 70 Return to an Order of the House of the 25th March, 1915, for a Return showing:—1. How many convictions for violation of the Liquor License Law have been made for the electoral district for North Essex since the re-appointment of Paul Morand as License Inspector at the end of May, 1914. 2. Have Provincial officers or detectives been sent into this district since the 1st of June, 1914, to assist in securing enforcement of the law.

  3. How many prosecutions have been instituted by, or at the instance of Provincial officers or detectives, and the said Paul Morand, respectively. Presented to the Legislature, March 29th, 1915. Mr. Richardson. Not Printed.
- No. 71 Special Report on the Organization and Administration of the Hospitals for the Insane, Feeble-Minded and Epileptics and District Industrial Farms of the Province. Presented to the Legislature, March 29th, 1915. Printed for distribution only.
- No. 72 Return to an Order of the House of the 24th March, 1915, for a Return showing:—1. What is the total number of the herd for dairy purposes now maintained by the Government at the Guelph Prison Farm. 2. How many of these were purchased and how many raised on the farm, respectively. 3. What was the total amount paid by the Government for the portion of the herd purchased by them. Presented to the Legislature. 31st March, 1915. Mr. Ham. Not Printed.
- No. 73 Financial Statement of the Treasurer of Ontario. Presented to the Legislature, April 2nd, 1915. Printed for distribution only.
- No. 74 Return to an Order of the House of 31st March, 1915, for a Return showing:—1. The number of English-French schools which have complied in the year 1914 with Regulation 17 of the Department of Education passed in the year 1913. 2. The number of English-French schools which have not complied with said Regulation 17 in the year 1914. 3. What English-French schools have received grants in the year 1914 under the Public Schools Act, and the amount thereof. 4. Copy of joint reports, if any, made by any inspectors pursuant to Regulation 17 and dated on or about May 23rd, 1913. 5. Copy of letters exchanged between ex-Inspector Henri Saint Jacques and the Department of Education or any officer or officers thereof with reference to the resignation of the said Henri Saint Jacques which are dated on or about the 18th October, 1913, and the 23rd October, 1913. Presented to the Legislature, April 2nd, 1915. Mr. Mageau. Not Printed.
- No. 75 Return to an Order of the House of the 17th March, 1915, for a Return showing:—1. How many timber berths or locations have been sold since the 1st day of January, 1914. 2. Were all such berths or locations advertised for sale; if not, which ones were sold without advertisement. 3. If any were sold without

being advertised for sale, who were the purchasers, and what are the prices realized and the dates of the sales, respectively.

4. In what papers were the different timber berths or locations respectively advertised for sale, and what were the dates of such advertisements respectively.

5. What is the period for which they were so advertised in the said papers, respectively. Presented to the Legislature, April 2nd, 1915. Mr. Munro. Not Printed.

- No. 76 Telephone Systems, specifications, etc., as per Report of Ontario Railway and Municipal Board. Presented to the Legislature, April 2nd, 1915. Printed.
- No. 77 Return to an Order of the House of the 28th April, 1914, for a Return showing:—1. If the Government granted the right to cut Pine or any other timber to Messrs. Foley Bros., Contractors, or to the Northern Construction Company, Limited, or to any person, firm or company in connection with the construction of the Canadian Northern Railway Company in the vicinity of Duchesne Lake, situate about 90 miles from the Town of Sudbury. 2. If so, to what persons, firms or companies were such permits made, and the dates of each. 3. What consideration did the Government receive with respect to each of the said permits, if any. 4. What Pine or other timber has been cut to date by each of the persons, firms or companies with respect to such permits. 5. How long was the right to cut to last and over what extent of land; and what were the other terms or conditions upon which such permits were made, if any. 6. What was the date of the completion of the construction of the Canadian Northern Railway at this point. 7. What amount of timber has been cut by any person, firm or company to whom such permit, as mentioned, has been made. S. Is any person, firm or company at the present time cutting timber pursuant to such permit. Presented to the Legislature, April 2nd, 1915. Mr. Richardson. Not Printed.
- No. 78 Return to an Order of the House of the 27th March, 1914, for a Return of:—All correspondence with reference to the resignation of Mr. Harkness, Manager, Superintendent of the Jordan Experimental Station. 2. The reports of the Committee or Advisory Board of the said farm for the years 1911, 1912 and 1913. 3. Statements showing the total expenditure to date divided between cost of building, cost of land, improvements of land and cost of management. Presented to the Legislature, April 2nd, 1915. Mr. Anderson (Bruce.) Not Printed.
- No. 79 Return to an Order of the House of the 7th April, 1914, for a Return showing:—1. If the Lieutenant-Governor in Council made any arrangements under section 9 of the Succession Duties Act, with any part of the British Dominions, or with any

foreign country; and if so, with what Provinces or countries.

2. If no such arrangement has been made with the Province of Quebec, does the Honourable the Provincial Treasurer make an allowance with respect to Succession Duties in Ontario with respect to shares of stock of a bank or other financial institution whose head office is in the Province of Quebec.

3. If it is true that a Succession Duty is payable with respect to such shares, both in Quebec and Ontario, will legislation be introduced to protect estates from payment of double duty. Presented to the Legislature, April 2nd, 1915. Mr. Marshall. Not Printed.

- Return to an Order of the House of the 27th April, 1914, for a Return showing:—1. What consideration was paid by the licensee to the Government in respect of the issue of the original licenses respectively, of the territory included within the proposed agreement with the Pembroke Lumber Company. 2. How much was paid by the Pembroke Lumber Company for these licenses respectively at the date of the purchase thereof by them. 3. What amounts of pine, hemlock, cedar, spruce, hardwood and other timber respectively have been cut on the limits or areas covered by the proposed agreement and returned to the Department as so cut by the Pembroke Lumber Company in each of the years since the purchase thereof by them. Presented to the Legislature, April 2nd. 1915. Mr. Bowman. Not
- No. 81 Statement on the distribution of the Revised and Sessional Statutes, up to 31st December, 1914. Presented to the Legislature, April 2nd, 1915. Not Printed.

Printed.

## UNIVERSITY OF TORONTO

REPORT OF THE

# BOARD OF GOVERNORS

FOR THE

# YEAR ENDING 30th JUNE

1914

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO



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#### UNIVERSITY OF TORONTO

#### REPORT OF THE

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# BOARD OF GOVERNORS

FOR THE YEAR ENDING 30th JUNE, 1914

To His Honour the Lieutenant-Governor-in-Council:-

The Governors of the University of Toronto have the honour to submit their eighth annual report. The report of the President upon the academic work of the University and its Colleges during the Session 1913-14 accompanies it together with the customary detailed statement of the receipts and expenditures of the Board for the fiscal year ended 30th June, 1914, duly audited as required by Statute.

During the year leases of certain of the lots on the east side of University Park were renewed for a further period of 21 years. The ground rentals secured by these leases have been thereby increased by the amount of \$2,128 per annum.

Owing to the diminished activity in the real estate market a sale of the remaining parcel of the old Upper Canada College block on King Street, referred to in the last report of the Board, was not effected. A portion of it, however, was sold for \$37,500, leaving a little over one hundred feet frontage yet to be disposed of.

The gross revenue for the year was \$856,727. The deduction of interest on special trust funds, \$8,418, and interest paid for bank accommodation, \$2,969, leaves the net revenue \$845,340, as against \$828,788 in 1912-13, being an increase of \$16,552. Of this increase \$12,597 is due to enhanced receipts under the University Act of 1906, which while exceeding to this extent the return in the immediately preceding year still fell \$12,658 below that of 1911-12, and \$23,836 below the revenue from this source in 1910-11.

The expenditure under the appropriations made by the Board for salaries and maintenance amounted to \$931,452, being an increase over that of 1912-13 of \$18.457. This increase is less than one-half of the sum (\$37,146) shown by the accounts of 1912-13 to be the excess expenditure of that year over 1911-12, and since the item of salaries (including retiring allowances) in the various Faculties and Departments is responsible for \$18.300, it is evident that the most rigid economy has been exercised with regard to appropriations for the different services. It may be pointed out, also, that the increase in the item of salaries, inclusive of the annual increment in the stipends of the academic staff, is \$5,500 below that of the previous year, and is in fact smaller than in any year since the Governors were appointed.

With regard to the maintenance accounts generally the expenditure is about the same, the increases shown in a few instances being balanced by reductions elsewhere. The Board are glad to be able to report still further saving in the cost of operating the Central Heat, Light and Power Plant, the gross expenditure for the year under review having been \$40,006, as against \$42,148 (exclusive of the \$5,000 paid to Griggs & Holbrook for supervision) in 1912-13. Arrangements have been completed for connecting the new buildings of Knox Coilege to the Central Plant, and heat and light are now being supplied to them.

The deficit upon 1913-14 Revenue Account was \$86,112. The Board were obliged to add to this the sum of \$1,086, being the excess cost of construction and equipment of the Pathological building over and above the \$180,000 available from Capital, making \$87,198, towards which they had in hand the balance of the Reserve Fund created from the surplus income of former years, \$36,804. The difference, \$50,394, has been met from the special grant of \$80,000 voted by the Legislative Assembly, leaving \$29,606 available towards the estimated deficit of 1914-15.

All of which is respectfully submitted.

B. E. Walker, Chairman.

Toronto, 28th November, 1914.

### PRESIDENT'S REPORT

1913-14

To the Governors of the University of Toronto:-

GENTLEMEN,—I beg to submit the following report on the academic work of the University and University College during the twelve months ended June 30th, 1914.

The total staff of the University and University College numbered 401, of whom 49 were professors, 59 associate-professors, 14 assistant-professors, 82 lecturers and associates (in Medicine), and 197 demonstrators, fellows and instructors with sessional appointments. They were distributed as follows:

	Professors.	Associate Professors.	Assistant Professors.	Associates.	Lecturers.	Other Sessional Appointments.
University (Faculty of Arts) University College Faculty of Medicine Faculty of Applied Science Faculty of Household Science Faculty of Forestry  Faculty of Education	1	2	6 2 5 (1 in Univ.) Chief Instructors.	Assistant	,	69 2 81 37 5

In victoria conege there were.	
Professors (one in University)	10
Associate Professors	6
Lecturers	6
Sessional Appointments	5
In Trinity College there were:	
Professors	9
Lecturers	8
Reader	1
Sessional Appointment	1
In St. Michael's College there were:	
Professors	9

Though Dean Galbraith's death occurred shortly after the close of the academic year I cannot allow this report to be issued without a reference to the severe loss that the University has thereby sustained. Dr. Galbraith graduated in Arts in

1868, became Principal of the School of Practical Science in 1889, and Dean of the Faculty of Applied Science in 1906. That faculty bears the impress of his mind and character. To its creation and development he devoted energies that would have brought him large emoluments as an engineer, and he found the reward of his work not in a high salary or rich material returns, but in the faculty as it now stands, and the unique regard for himself cherished by its graduates. A broadly educated engineer, holding well the balance between theory and practice, Dr. John Galbraith built up a native school of engineering that is rooted deeply in the life of this province.

Dr. McCurdy asked leave to retire from the active duties of the headship of the Department of Orientals in University College, which he had held for twenty-six years. Dr. McCurdy stands among the foremost Semitic scholars on this continent, and besides being an excellent teacher and gathering round him a following of competent pupils, he has brought distinction to the University by the quality

and number of his published works.

Dr. Reeve, who a few years ago retired from the Deanship of the Faculty, asked leave to resign the professorship of Ophthalmology, which he held for twenty-seven years. Few men in the history of the University have given a more ungrudging service than Dr. Reeve has rendered to his Alma Mater, and he was surpassed by none in his endeavours to raise the standards of a faculty with the development of which his name will always be associated.

Dr. McDonagh also asked to be allowed to resign his teaching position after eighteen years of valuable work for which his University owes him sincere thanks.

The following gentlemen also resigned their positions:

Dr. E. Jones, Associate Professor of Psychiatry; Dr. H. T. J. Coleman, Associate Professor of Education to become Dean of the Faculty of Education in Queen's University; and W. E. Macpherson, B.A., Lecturer in Methods in History in the Faculty of Education to become professor in the Faculty of Education in Queen's University.

. Leave of absence for the year was granted to Dr. P. Toews on account of illness; for the spring term, 1914, to Professor G. M. Wrong; for the year to Mr. A. W. McConnell to study abroad; and was continued for the year to Professor A. Kirschmann.

Following the practice of many other Universities, which have found it a very useful grade, the position of Assistant-professor was created at the beginning of the year.

The following promotions and new appointments were made during the year: In the Faculty of Arts, P. W. Mueller, B.A., was promoted from a Lectureship to an Associate-Professorship in German; C. D. Howe, M.A., Ph.D. (Chicago), was promoted from a Lectureship to an Assistant-Professorship in Botany and Forestry; G. T. Northup, B.A., Ph.D. (Chicago), was promoted from a Lectureship to an Assistant-Professorship in Italian and Spanish; A. L. Parsons, B.A. (New York), was promoted from a Lectureship to an Assistant-Professorship in Mineralogy; T. R. Robinson, Ph.D., was promoted from a Lectureship to an Assistant-Professorship in Philosophy; G. O. Smith, M.A. (Oxon), was promoted from a Lectureship to an Assistant-Professorship in Latin; W. G. Smith, B.A., was promoted from a Lectureship to an Assistant-Professorship in Psychology; P. Toews, M.A., Ph.D. (Heidelberg), was promoted from a Lectureship to an Assistant-Professorship in German; E. M. Walker, B.A., M.B., was promoted from a Lectureship to an Assistant-Professorship in Zoology; C. N. Cochrane, B.A. (Oxon), was

appointed Lecturer in Greek; F. C. A. Jeanneret, B.A., Lecturer in French; G. Kartzke, Ph.D. (Berlin), Lecturer in German; Miss C. Maclachan, M.A., Lecturer in English; G. R. Mines, M.A. (Cantab), Lecturer in Physiology; I. R. Pounder, B.A., Lecturer in Mathematics; B. Tapper, B.A. (Iowa State College), Lecturer in German; and W. R. Taylor, Ph.D., Lecturer in Oriental Languages.

In the Faculty of Medicine, G. Boyd, B.A., M.B., was promoted from an Associateship to an Associate-Professorship in Oto-Laryngology; F. W. Marlow, M.D., C.M., was promoted from an Associateship to an Associate-Professorship in Gynacology; J. G. Fitzgerald, M.B., was appointed Associate-Professor of Hygiene. The following were promoted from Demonstratorships to Associateships in Surgery and Clinical Surgery; W. W. Jones, B.A., M.B.; W. J. O. Malloch, B.A., M.B.; E. S. Ryerson, M.D., C.M.; W. A. Scott, B.A., M.B., and G. Silverthorn, M.B.

In the Faculty of Applied Science, E. G. R. Ardagh, B.A.Sc., was promoted from a Lectureship to an Assistant-Professorship in Applied Chemistry; M. C. Boswell, M.A., Ph.D., was promoted from a Lectureship to an Assistant-Professorship in Organic Chemistry; J. R. Cockburn, B.A.Sc., was promoted from a Lectureship to an Assistant-Professorship in Descriptive Geometry; W. M. Treadgold, B.A., was promoted from a Lectureship to an Assistant-Professorship in Surveying; C. R. Young, B.A.Sc., was promoted from a Lectureship to an Assistant-Professorship in Applied Mechanics; F. C. Dyer, B.A.Sc., was promoted from a Demonstratorship to a Lectureship in Mining Engineering; R. H. Hopkins, B.A.Sc., and A. R. Zimmer, B.A.Sc., were promoted from Demonstratorships to Lectureships in Electrical Engineering.

In the Faculty of Education, P. Sandiford, M.Sc. (Manchester), Ph.D. (Columbia), was appointed Associate Professor of Education; H. G. Manning, B.A., Assistant Instructor in the University Schools; and J. B. Wallace, B.A., Assistant Instructor in the University Schools.

Under the Medical Research Fund, Dr. William Goldie was appointed Director of the Medical Clinic of the Out-patient Department of the Toronto General Hospital; and Dr. A. H. Caulfeild, Dr. N. C. Sharpe, and Dr. K. M. B. Simon were appointed Fellows.

The following members of the staff delivered courses at Trinity College:

A. F. Coventry, B.A., Lecturer in Biology.

N. Di Pietro, Litt.D., Instructor in Italian and Spanish.

G. E. Jackson, B.A., Lecturer in Political Science.

E. J. Kylie, B.A., Associate Professor of Modern History.

G. I. H. Lloyd, M.A., Associate Professor of Political Science.

M. A. Mackenzie, M.A., Associate Professor of Mathematics.

Miss H. MacMurchie, B.A., Fellow in History.

Vincent Massey, B.A., Special Lecturer on History.

G. T. Northup, Ph.D., Assistant Professor in Italian.

T. R. Robinson, Ph.D., Assistant Professor in Philosophy.

George Smith, B.A., Lecturer in Modern History.

W. S. Wallace, B.A., Special Lecturer in History.

R. H. Williams, B.A., Lecturer in History.

G. M. Wrong, M.A., Professor of Modern History.

The total number of students registered in the University	in 1913-14
34, distributed as follows:—	101011
Faculty of Arts	2,574
Faculty of Medicine	623
Faculty of Applied Science	627
Faculty of Household Science	91
Faculty of Education	320
Faculty of Forestry	51
Registered in two Faculties	52
The figures may be further analyzed as follows:	
FACULTY OF ARTS,	
University of Toronto.	
Candidates for Ph.D.	28
Candidates for M.A.	
Occasional Arts Students	
Dental Students	
In the Summer Session	338
Veterinary Students	189
	<del> 757</del>
University College.	
Thirteroug Solvey.	
First Year Undergraduates	308
Second Year Undergraduates	
Third Year Undergraduates	188
Fourth Year Undergraduates	202
Occasional Students	99
	1027
Victoria College.	
First Year Undergraduates	179
Second Year Undergraduates	119
Third Year Undergraduates	
Fourth Year Undergraduates	79
Occasional Students	
	532
Trinity College.	
First Year Undergraduates	48
Second Year Undergraduates	25
Third Year Undergraduates	34
Fourth Year Undergraduates	25
Occasional Students	12
Occasional Students	144

### St. Michael's College.

First Year Undergraduates Second Year Undergraduates Phird Year Undergraduates Fourth Year Undergraduates Occasional Student		114
FACULTY OF MEDICINE.		
First Year Undergraduates Second Year Undergraduates Third Year Undergraduates Fourth Year Undergraduates Fifth Year Undergraduates Dental Students Occasional Students	135 100 118 112 89 59 10	623
		0.00
FACULTY OF APPLIED SCIENCE.  First Year Undergraduates  Second Year Undergraduates  Third Year Undergraduates  Fourth Year Undergraduates  Occasional Student	144 142 179 161	627
FACULTY OF HOUSEHOLD SCIENCE.		
Occasional Students  Department of Education Students	78 13	91
FACULTY OF EDUCATION.		
Students registered		320
FACULTY OF FORESTRY.		
First Year Undergraduates Second Year Undergraduates Third Year Undergraduates Fourth Year Undergraduates Fifth Year Undergraduates Sixth Year Undergraduates Occasional Students	21 11 8 7 1 1 2	51

Of the 4,234 students, 3,054 were men, and 1,180 were women. students were distributed as follows:	The wo	omen
Candidates for Ph.D. Candidates for M.A. Occasional Students in the University of Toronto. Dental Student Summer Session University College Victoria College Trinity College St. Michael's College Faculty of Medicine Faculty of Household Science Faculty of Education	3 18 8 1 231 367 144 61 29 24 91 203 ——1180	
The numbers examined in the different departments of the Usas follows:—	niversity	were
Ph.D. М.А.	2 51	
Arts: Fourth Year Third Year Second Year First Year Senior Matriculation	365 466 659 574 260	
Medicine: Fifth Year Fourth Year Third Year Second Year First Year	86 110 118 87 115	٠
Applied Science: Professional Degrees Fourth Year Third Year Second Year First Year	6 159 170 135 141 611	
Education Forestry Household Science Law		291 46 14 41

- 769

10.	TO UNIVERSITI OF TORONIO.	17
Deg	rees in Pedagogy	9
_	irmacy	37
	sic	10
	itistry	172
	riculture	52
	al Examinations in Music	713
	erinary Science	16
100	cimaly science	10
	The degrees conferred were:	
	LL.D. (Honorary)	,
	D.Sc. (Honorary)	
	Ph.D	
	M.A. 43	
	LL.B	
	M.D	
	21.2.1, 0.12.1	
	B.A	
	C.E	
	E.E	
	M.A.Sc	
	B.A.Sc	
	D.Pæd	
	D.D.S	
	B.S.A	
	B.Sc.F	
	Phm.B	
	D.V.S	
	B.V.S	-
	31 . n .	

Lectures were delivered by Sir Rickman Godlee, Bart., LL.D., F.R.S., on "The Work of Lord Lister"; by Mr. F. R. Benson. of the Stratford-on-Avon Players, on "Shakespeare—A World Force"; by Sir George Paish, editor of *The Statist*, on "Canada and the Financial Situation": by Mr. Frederick Lessore, on "Portraiture and Sculpture": by Hon. W. H. Taft, on "Popular Government"; by Professor E. von Dobschütz, of Halle, Germany, Exchange Professor at Harvard University, on "Hellenism and Christianity"; by Professor W. Max Müller, of the Department of Egyptology, University of Pennsylvania, on "Egypt of the Time of the Pyramids"; by Lt.-Col. Sir William Boog Leishman, F.R.S., Professor of Pathology in the Royal Army Medical College, London, England, on "Medical Research"; by Mr. Laurence Irving, on "The Drama as a Factor in Social Progress"; by Mr. Frank Alval Parsons, M.A., a Professor in New York University, on "The Influence of Historic Periods on Modern Home Life"; and by Dr. Gustav Monod, of Paris, France, on "Facilities for Post-graduate Work in Paris."

The course of Saturday lectures, arranged as in former years by Professor Mavor, was as follows:

Professor Healey Willan, "Irish Folk-Song."

Principal Hutton,

"The Wit and Wisdom of Herodotus."

C. C. James, C.M.G.,

"The Romance of Agriculture."

Professor R. Davidson,

" Mohammed."

Professor W. A. Parks,

"The Building Stones of Eastern Canada."

Professor I. Benzinger,

"Life in Palestine, Past and Present."

Professor T. Stannage Boyle,

"Dean Swift."

The second successful series of Organ Recitals, under the direction of Mr. F. A. Mouré, was given fortnightly in the Michaelmas Term and weekly during the Easter Term. At the fifteen recitals of this series upwards of one hundred compositions have been played, no numbers being repeated. Sixty-six composers have been represented on the programmes. The following musicians took part in these recitals: Mr. F. A. Mouré, Bursar of the University of Toronto; Mr. E. C. Macmillan, Mus. Bac. (Oxon); Mr. G. H. Knight, Mus. Bac. (Manchester); Mr. Otto James; Mr. E. R. Bowles; Mr. T. J. Palmer, A.R.C.O.; Mr. Fritz Thiele, Toronto; Mr. J. E. P. Aldous, B.A. (Cantab); Mr. C. E. B. Price, A.R.C.O., Hamilton; Mr. F. C. Thomas, A.R.C.O., Brantford; Mr. J. A. Bernier, Quebec; Dr. H. Sanders, Ottawa; Mr. J. H. Shearer, A.R.C.O., Montreal; and Mr. C. E. Wheeler, F.C.G.O., London.

The revision of the General Course in Arts was completed during the past session, the main principles which were kept in view being a reduction in the number of subjects and a more intensive study of languages in the first two years of the curriculum. Two options in the four fundamental sciences are allowed in the second year, so that the students may be distributed over several laboratories thus effecting a relief on the pressure which has been constantly growing by reason of the large pass classes of the first and second years. In order to avoid difficulties in the time table, which has now become very complicated, the whole course goes into effect at once, at the beginning of the session 1914-15. It is hoped that this new General Course, which is being taken by large numbers of undergraduates, will be found to offer a better general education than that which has been hitherto provided.

In admitting undergraduates to Arts, greater strictness has been observed since it has been found by experience that it is, as a rule, the opposite of a kindness to allow a student to enter ill prepared upon University lectures. Only in the case of those who are too old to be sent back to school is discretion exercised in admitting to the first year with more than three papers wanting, and they are thereby given the chance of entering the second year through Senior Matriculation. Maturity may claim a privilege, as indeed it introduces a new element. The authorities of the constituent colleges also have been exercising a more exact supervision of their students. There has been a stiffening of standards, and the undergraduate is not allowed to carry failures of an earlier year beyond the session next following.

The Honour courses are to be revised during the session 1914-15, and after this revision is completed I hope there may be a rest from recasting the curriculum. It will be necessary at the same time to revise our agreement with the Education Department in respect of specialist certificates, a matter of great importance both to the University and to the Education Department, and of no little difficulty, inasmuch as the Education Department has in mind the requirements of the schools of the Province and the University considers the matter from the point of view of a thorough education in the honour subjects. However, it should be possible to harmonise these two points of view.

I wish to call attention to the first report of the Medical Research Fund, which is appended. It sets forth both the principles aimed at and a summary of the results so far attained, and is, I believe, a promising beginning of a most important development in the University. There have been four Fellows working in the Department of Chemical Pathology: Dr. C. G. Imrie, Dr. Fletcher McPhedran, Dr. N. C. Sharpe, and Dr. K. M. B. Simon. Already two creditable papers have been prepared for the press, reports of which were read at the meeting of the Association of American Pathologists and Bacteriologists, held in Toronto last spring. In Pathology, Dr. Caulfeild and Dr. R. G. Armour have conducted investigations, the former to demonstrate, if possible, under what biological conditions infection to tuberculosis takes place; the latter to acquire the necessary technical facility in the use of special methods of histological study of the central nervous system. Dr. Goldie has conducted investigations in the Out-patient Department of the Toronto General Hospital dealing with the interpretation of symptoms.

An interesting addition to the Medical Department was made by the equipment of a laboratory for the manufacture of Biological Products, Diphtheria Antitoxin, Rabies Vaccine (Pasteur treatment), Tetanus Antitoxin and Antimeningitis Serum, under Dr. J. G. Fitzgerald, whose experience in Harvard and California fitted him well for commencing similar work in Toronto. The fundamental idea underlying the project was the production of all sera and vaccines of value in public health work and their distribution at cost. It was expected that the active co-operation of public health authorities in Canada would be obtained, and this has, in large measure, been realized. When the manufacture of these products has been got under way the Hygiene Laboratory in which the remedies are prepared will be used extensively for research purposes along similar lines.

In the Faculty of Applied Science the new course of Highway Engineering has been extended. "The laboratory equipment now is such that with comparatively few additions a student will be able to carry out a very thorough series of investigations into the properties of metals, bitumens, and other materials employed in highway construction."

Under Mr. Keele instruction was again given in Ceramics, and a beginning has been made in supplying trained men for one of the largest industries of the Dominion. In this direction we may look for extension in the future.

The work of the Extension Committee has been assuming large proportions by reason of the change that was referred to in my last report, in which I called attention to the fact that in conjunction with the Department of Education, classes are provided in the summer for those who are intending to enter the Normal Schools and the Faculty of Education. This has meant a complete change in the character of the work that has hitherto been attempted in the Summer Session, and it is conducted under the Faculty of Education. Meantime, no classes are being given in the Faculty of Arts. It would seem, however, that there should be some use made

of the laboratories and the library of the University in the summer by teachers and others who wish to take advanced courses. If it were possible for the teachers to turn these courses to financial advantage in their schools I believe that we should find applicants for what we might offer, but hitherto the University has not met with much response as far as what it offered in Arts was concerned.

For some time representations have been made by different social and philanthropic agencies to provide courses of instruction and training for persons who wished to undertake work of this character. The number of such persons is increasing, and the rapid growth of immigration into Canada is forcing new and varied problems upon our attention. Hitherto the only training provided has been in institutions of the United States. It is gratifying that those who are interested in these problems look to the University for help, recognizing that the best and most permanent results can only come from a discipline in which economics, ethics, psychology and hygiene, which lie at the basis of so many social problems, are studied with academic exactness. Other Universities, such as Leeds, Liverpool. Birmingham, Sheffield, and Glasgow in Britain, and Columbia, Harvard and Chicago, to mention a few of those in the United States, have recognized that a place should be found for such training either directly in the University or in an institution to which they give their sanction. To meet the demand and following the example of other Universities, the Board of Governors and Senate authorized the launching of similar courses in Toronto for the coming year, basing them on practical teaching in economics, ethics, psychology and hygiene by professors of the University, and for the field work and practical training accepting the services of social workers in the city. The courses include charity organization, probation, child welfare, recreation, hospital social service, and settlement work. Through the generosity of a Toronto lady, the salary for a director of these courses was provided, and they are to be inaugurated at the beginning of the session 1914-15.

After many years spent in accumulating material and in planning the construction of the building, the Royal Ontario Museum was formally opened by His Royal Highness the Duke of Connaught, in March, 1914. The building was erected and is maintained by the Province and the University on equal partnership, and the University has handed over to the joint Board of Trustees its chief collections in Geology, Palæontology, Mineralogy, Archeology and Canadian Natural History, which in these new quarters will be used by the advanced students and at the same time be displayed where they can be seen by the public. Smaller and special collections are retained in the laboratories for purely teaching purposes. These splendid collections are for the most part due to benefactions of citizens of Toronto, who have contributed at various times gifts amounting in value to nearly \$300,000. Experts who have visited the Museum since its opening have remarked upon the extent of the collections, the value of the contents, and the beauty of the exhibits. In the cities of the old world museums are among the important means of education, and the intelligence of a city may be in some degree measured by the variety and quality of such institutions. The opening of this wing is, therefore, important as indicating that the province and city are provided with a new source of intellectual and artistic development.

In August, 1913, the Twelfth International Geological Congress met in Toronto on the invitation of the Dominion and Provincial Governments and the Universities of Canada. The buildings of the University were placed at the disposal of the Congress, and the professors of the departments of Geology and Mineralogy took a prominent share in its conduct. The Congress itself was most successful, and by

means of the excursions that preceded and followed it the scientific progress and the mineral development of Canada have both been materially served. In recognition of the occasion the honorary degree of Doctor of Laws was conferred on these representative delegates:

Aubrey Strahan, London, England.

P. M. Termier, Paris, France.

T. C. Chamberlain, University of Chicago.

R. Beck, Freiberg, Germany.

J. J. Sederholm, Finland.

T. Tshernyschew, Russia.

W. G. Miller, Provincial Geologist of Ontario.

I must again refer to the building situation in the University, which is becoming rapidly more acute. For several years I have drawn attention to these needs, but it is only the recurrent necessity for finding new space in the already overcrowded buildings and constant complaints from those who are called upon to work in altogether inadequate conditions that enable one to realize how urgent is the need for more accommodation.

The Principal of University College again refers to the need of more room. At the opening of each session it is difficult to get space for the large classes in a building which houses not only the eleven hundred students of University College, but the administrative offices of the whole University. There should be a University building for history, economics, philosophy and social science in order to relieve the pressure on the main building. Also University College should be provided with a residence for its own students in immediate proximity to the main building. This would add to its character, and not leave it at a serious disadvantage as compared with Victoria and Trinity Colleges, which, I am glad to say, have or will have excellent residential quarters for their men and enjoy a collegiate atmosphere which adds immensely to their educative power, but which University College cannot hope to possess until it is equally well equipped.

I will again quote from the Professor of Electrical Engineering: "In the main machine laboratory there is often a choice between preventing the students from getting access to fresh air by opening windows and injury to valuable machinery by sand blown from the road over a window sill scarcely above the ground. A passage which is partly a tunnel, economically made out of one side of an extinct coal hole and which is the approach mostly used to our principal machine laboratories, continues to admit mud and water during wet weather despite the efforts of the architect. To come to matters of more importance, the case of the study room for the fourth year may be mentioned. Last year, as mentioned in my report, students complained of the alternative between foul air and catching cold by drafts. At that time there were twenty-three, now there are thirty-six in the same room, which is only 24 x 48. The room is much too crowded, and the men themselves complain of the noise and its interference with their work. This is one of the conditions which made it impossible to arrange for this class work to be given as an option in Mechanical Engineering, as the Council proposed."

The Professor of Anatomy again reports that the work of the department is at all times greatly hampered by lack of space and of the facilities which the modern methods of teaching anatomy demand.

In Forestry the need of space was so urgent that it was resolved to secure tem-

porary relief by converting an old stable into a laboratory, but the financial stress has interfered even with this plan.

In the Faculty of Education and the University Schools the demand for a gymnasium for the boys and teachers-in-training is even more insistent than last year, and a residence for women students in the Faculty of Education should be

provided.

If there is to be any development in Industrial Chemistry and Ceramics it will be necessary to put an upper floor in the large wing of the Chemistry and Mining Building, which was formerly occupied as a museum for Mineralogy and Geology. With the revival of industry that will be likely to follow on the close of the war it is altogether probable that there will be a demand throughout this manufacturing Province of Ontario for an extension of industrial training, so that Technology will have to be added to Engineering as in the great Universities of Leeds, Birmingham, and Manchester, but such an extension is out of the question unless a University building is provided.

I cannot close this report without again referring to the seriousness of the financial situation. As a result of the war, we shall, of course, be called upon to mark time, but at its close such new conditions will have emerged we hope that the University may also be expected to move forward. We cannot afford to lag behind the other State Universities of this continent nor to tell our students that they must

cross the border in order to get the highest academic training.

One result of the war will be, as far as one can judge, that the American universities will be thrown on their own resources and will develop rapidly. It is altogether probable that for some years to come few of their students will go to Germany to study, that the influence of many of the leading American professors, who for some years have been complaining that they had been over Germanised, will have its effect, and that the Americans, having learned method from Germany, will develop more and more their own learning and science at home. I believe, therefore, that there will be greater inducements in the not distant future held out by American universities to many of our students, who formerly went to Europe, to take their postgraduate work in the United States. There is, of course, much to be said in favour of this, but whereas nearly all our graduates, who formerly went to Europe returned to Canada, a very large proportion of those who go to the United States find permanent employment across the border. Such emigration is very costly, as we know from experience. We must, therefore, provide graduate work for our Ontario and Canadian students in our own institutions. Only a portion of our graduates in any case are able to go abroad. The rest we educate at home, and Toronto especially should draw graduates from the other provinces of the Dominion. With the heightened national spirit that is bound to come with renewed material prosperity, Canada must be prepared, unless she is to lose her selfrespect, to provide the most advanced kind of academic training for her own people. During the past decade we have been strengthening undergraduate work, and if we can get rid of the school standards of the first year General Course this undergraduate work will be fairly well provided for. We are nearly ready for a further step. If it does not come soon the University will lag behind her neighbors. In the United States the university is becoming a potent influence. Its extraordinary power in Germany, albeit towards a perverted ideal, is only too well known. We may expect, therefore, that in Canada also it will play a large part in the future. It will supply men who will speak with authority to a wide public not only on matters of medicine, engineering, and industrial science, but on historical, economic, and social problems. There should be also a place for the scholar who will set standards of taste for the people. High as is the general average in our undergraduate and honour courses, we need the distinction of the few who tower above the ordinary range. The great scholar or scientist is rare, but the University must set about to discover among its students him who may become such and save him for his country. Such advanced work is costly, but without it we shall have the chagrin of watching our neighbors shoot past us, and we shall have to be content with obtaining from them such trained teachers as they can spare us.

All of which is respectfully submitted.

R. A. FALCONER,

November 12th, 1914.

President.

#### APPENDIX A.

- (1) Report of the Principal of University College.
- (2) Report of the Dean of the Faculty of Medicine.
- (3) Report of the Dean of the Faculty of Applied Science.
- (4) Report of the Dean of the Faculty of Forestry.
- (5) Report of the Dean of the Faculty of Education.
- (6) Report of the Librarian.
- (7) Report on University Extension Work.
- (8) Statement regarding the Biological Museum.
- (9) Statement regarding the Geological Museum.
- (10) Statement regarding the Palæontological Museum.
- (11) Statement regarding the Mineralogical Museum.
- (12) Report on Medical Research Fund.
- (13) Report of the Director of Laboratory for manufacture of Biological Products.
- (14) Reports from Biological Stations.
- (15) Report of the Physical Director.
- (16) Report of the Superintendent of the Dining Hall.

# (1) REPORT OF THE PRINCIPAL OF UNIVERSITY COLLEGE. (PROFESSOR HUTTON.)

The session 1913-14 has been marked by normal progress: the temporary loss of Professor Toews, through sickness, has been met by the addition to the staff of Messrs. Kartzke and Tapper: Herr Kartzke comes to us from Berlin with the consent of the Prussian Ministry of Education, as an exchange Professor: Mr. Tapper is also of German origin, though coming to us immediately from Chicago. The work of each has been excellent and the simultaneous loss to the department of Professors Vander Smissen and Toews has been faced with a measure of success which could hardly have been anticipated beforehand.

The need for more lecture rooms in the College or main building and the intrusion into the special precincts of the College of the Registrar's and Bursar's departments has engaged continuously the attention of the College Council, no less than of the President of the University. The President has already under consideration an expansion on the south-west face of the College, which, however the details work out, should relieve both College and University: and at the same time furnish the College with a residence closely adjoining the historic residence, but without its drawbacks of insufficient space and accommodation.

## (2) REPORT OF THE DEAN OF THE FACULTY OF MEDICINE. (Dr. C. K. CLARKE.)

This year has been, in many respects, an important one, as it saw the full development of a great teaching hospital where students received advantage in medical education, not usually obtainable. It has made possible the proper development of the fifth year, which should, of course, be, as far as possible, a period devoted to the practical side. The result has been that this year's class has gone out much better equipped in the way of practical knowledge than any of its predecessors.

There is still some criticism of the third year course, which seems to cause the student more worry and produce more failures than any other. It is difficult to explain this, although it seems as if the student, finding himself between the Scylla of primary work and the Charybdis of final study, comes to grief through an ill defined idea of the best course to steer. Possibly we have laid too much stress on the importance of the clinical subjects and have exacted too much. In view of these difficulties it has been decided to do away with all written examinations in Medicine and Surgery in the third year.

Several changes have taken place in the Faculty, the most notable one being caused by the resignation of Dr. R. A. Reeve, who has been identified with the School for forty-one years, and who was Dean from the development of the University of Toronto Medical Faculty until 1908, a period of more than twelve years. Dr. Reeve's success as a teacher is well known to the thousands of medical students whose regard for Dean Reeve is deep and sincere—indeed, no one in connection with the Faculty has merited and received such affection as the worthy ex-Dean. Dr. Reeve was devoted to the interests of the University, and through his untiring efforts the Faculty of Medicine rose to the eminence it now has. But his efforts were not confined to narrow lines, and it was very largely through his efforts that the present Convocation Hall came into existence.

On the whole the work of the year has been characterized by a steady advance.

# (3) REPORT OF THE DEAN OF THE FACULTY OF APPLIED SCIENCE. (Dr. Galbraith.)

The following list gives the enrolment per session since 1906:

_		-	
1906-7	 		 631
1907-8	 		 720
1908-9	 		 754
1909-10	 		 725
1910-11	 		 770
1911-12	 		 793
1912-13	 		 681
1913-14	 		 636

A reasonable estimate for 1914-15 would be 556.

The following statistics relating to graduates cover the period to and including 1913:

rotai graduates		1,450
Deceased		52
		1,383
Of these there are in	Canada	1,218—88.07%
66 66	United States	141-10.11%
"	other countries	24— 1.82%

1,383 100.00%

Arrangements should be completed and the plans drawn for the construction of a floor in the east end of the Chemistry and Mining Building and for the subdivision of the space into rooms with proper flues, drainage, etc. It is probably too late to have this work done during the present summer—it should be done at the latest during the summer of 1915, between May 1st and September 15th, so as not to interfere with the work of instruction.

Mr. Jos. Keele, of the Geological Survey, will probably be allowed to continue his work here for another session—advantage should be taken of his presence to obtain useful suggestions for the accommodation of the proposed Ceramic Laboratory. This is an additional reason why the above plans should be put under way without delay.

During the present summer the lighting of the drafting rooms should be improved. That of the second year drafting room behind Convocation Hall is particularly bad. As mentioned in the report of the department of drafting there are a great many cases of eye-strain among the students, due to this cause.

This is a favorable time to assemble the information which the architect will require for the preparation of the plans for the new building schemes indicated in various parts of this report. If delayed too long these drawings may have to be prepared in haste and without due consideration.

I would suggest as a means of initiating these plans, that the President call a special meeting of the members of the staff interested, and discuss the situation with them.

The maximum number of students to be provided for immediately and the provisions for extension of buildings in the future are among the questions to be discussed.

# (4) REPORT OF THE DEAN OF THE FACULTY OF FORESTRY. (DR. B. E. FERNOW.)

The registration for the year 1913-14 has been the largest since the establishment of the Faculty, the newly entering class numbering 23 and the total registration 51. This is a growth of nearly 100 per cent., since by graduation and other discontinuance the number at the end of the last session had been reduced to 28.

The demand for graduates for permanent positions, and for undergraduates for summer work, during the last season was almost as insistent as the previous year, deficiencies having to be made up by importations from the United States. The present year's graduates (seven in all) have found ready employment, and so have the members of the two lower classes and some of the first year men.

No changes in the curriculum nor in standards have taken place, except that the entrance requirements have been slightly changed to harmonize with those of the Faculty of Arts.

A few lectures by authorities from the practical field were given, namely, on logging, by Mr. Asa S. Williams, Manager of the Logging Department of the Allis-Chalmers-Bullock Company; on trail and telephone building, and other methods of protection against fire, by Mr. W. N. Millar, District Inspector of Dominion Forest Reserves; and on diseases of trees, by Dr. H. von Schrenk, Timber Expert.

The Foresters' Club has continued its useful career, having had speakers from outside at several of its meetings. It has also compiled and printed a useful booklet on the "Silvical Characteristics of Canadian Trees."

With the growth of the Faculty and the growing requirements of a more complete professional education, the need for increased quarters and increased appropriations for staff and apparatus becomes more urgent, and it is hoped that in another

year these requirements can be met. The leading forestry schools of the United States employ from four to seven instructors as against the equivalent of three in this Faculty. This small staff, taken together with the short session, increases the burden on the instructors to the breaking point.

The need of increased laboratory space and lecture rooms has naturally increased with the number of students, and will increase from now on. It should be provided for without delay. The permanent camp for practical instruction in the field also remains a wish.

## (5) REPORT OF THE DEAN OF THE FACULTY OF EDUCATION. (Dr. W. PAKENHAM.)

It is the opinion of the staff that the year just closed has been unusually successful. The chief explanation lies in the adoption of the semester plan of instruction. The expansion in the curricula of modern school systems has laid a great burden upon both students and instructors in training schools. It is still necessary to train all teachers in all subjects. By dividing the session into terms, limiting each term's work to one-half the subjects, and conducting final examinations at the end of each term the burden has been very much lightened.

The School has continued to prosper. It now has 4,300 subscribers, and has carried thirty-two pages of advertising matter throughout the year. For its success great credit is due the business manager, Mr. Dunlop, and the members of the staff who have given time and thought without stint to each monthly issue.

The question of a gymnasium and an assembly hall for the University Schools and the allied question of residences for women students of the Faculty of Education still press for consideration. The influence of accommodations and equipment upon attendance in the Schools is obvious. Just as obvious would be the severity of the blow if the attendance in the Schools should shrink. And while the University is providing residences for students, she cannot overlook the fact that no students need the residential life more than the prospective women teachers of Ontario.

With the end of the session, Dr. Embree, the Senior Principal of the Toronto High Schools, retired from office in the city schools and from his post as one of the supervisors of practice-teaching in this Faculty. Dr. Embree's services to secondary education in this city and province have been long and distinguished. His services to this Faculty in the difficult days of its youth have earned the gratitude of the University. Into his retirement he takes the respect and affection of all his former colleagues.

# (6) REPORT OF THE LIBRARIAN. (H. H. LANGTON, ESQ., M.A.)

The number of bound volumes added to the Library during the year ending 30th June is 4,815, and the number of pamphlets 3,430, making the total contents of the Library 138,658 bound volumes and 46,648 pamphlets.

The statistics of the use of the books by students, as compared with the two previous years, are as follows:

	1911-12	1912-13	1913–14
No. of day tickets	32,928	35,903	33,656
No. of books taken for the night	10,816	12,707	12,383
Average number of readers at any one time	85	84	91

During the year most of the remaining duplicates, resulting from the addition to the shelves of the Goldwin Smith Library, were distributed among the Departmental Libraries and lent to the Libraries of the affiliated Colleges, in accordance with the decision of the Library Committee. These duplicates remain the property of the University, and may be recalled to the main Library if needed there.

With the addition of the Goldwin Smith Library to the shelves, the available space for growth has greatly diminished. In two or three years the existing stack will be full. Fortunately there is still space in the stack room for erecting ad-

ditional metal shelving to accommodate about 30,000 volumes.

The two chief necessities of the Library at present are an increased cataloguing staff and increased appropriation for books. The present cataloguing staff can hardly do more than keep up with the current additions of books, periodicals and pamphlets. Consequently, the subject catalogue of the whole Library, which is not much more than half-finished, proceeds slowly. The appropriation for books, periodicals and binding has remained at the same figure, \$14,000 for the last six years. During that period new departments of instruction have been added in all Faculties. Consequently there are more claims than before for a share in the total appropriation. At the same time the cost of current periodicals already taken and of binding has noticeably increased, so that the money available for books and new periodicals in each department is actually less than it used to be. It is obvious that without additions to the appropriation the Library will prove inadequate for the necessities of the teaching, and that the University must suffer in efficiency. Comparison of the sums available for the purchase of books and periodicals in other universities of the same class as the University of Toronto shows how necessary it is that a substantial addition to the appropriation for books should be made. A policy of steady addition to the appropriation for some years, say \$2,000 per annum, would probably meet the urgency of the situation without giving opportunity for any extravagance.

Statistics for other universities in comparison with the University of Toronto

are appended.

University.	No. of Professors, etc.	No. of Students.	No. of Library Staff.	No. of Books.	Annual expenditure on Books (latest obtainable).
California Michigan Minnesota Ohio Wisconsin Toronto	440 240 581	6,392 5,582 4,057 3,928 5,748 4,141	25 24 24 14 18 14	250,000 305,000 160,000 117,000 192,000 138,000	\$ 30,000 30,000 32,000 20,000 24,000 14,460

# (7) REPORT ON UNIVERSITY EXTENSION WORK. (DR. A. H. ABBOTT.)

The number of lectures arranged for at local centres outside of the city of Toronto was seventy. For these the lecturers received in fees, from the organization arranging for such lectures \$345, and from the Board of Governors, as a supplement thereto, \$330. There were approximately fifty lectures arranged for in the city of Toronto for which, in round numbers, \$50 was received. Most of these lectures given in the city are for charitable organizations and are given without charge by the lecturers. A fairly conservative estimate of the number lectured to in these one hundred and twenty lectures would be probably 10,000.

It is difficult to estimate the influence of lectures such as are given at these various centres. We have repeatedly found instances of students attending the University whose interest has been turned in this direction by attending lectures of this kind. It is very obvious that when not more than one lecture is given by a lecturer in any given place, the educational value of the lecture cannot be anything like as great as would be a course given by one man. We, therefore, constantly endeavour to arrange such courses rather than a series of individual lectures, but although it cannot be said that it is easy to arrange lectures in courses, this attempt is meeting with a certain amount of encouragement.

In addition to the lectures above reported, a course of eight lectures, delivered in German, was given in the Physics Building. A small entrance fee was charged for these lectures to defray expenses, and the reception given the lectures was decidedly encouraging. We believe that if such courses were organized throughout the winter and were given by the University, as we believe they ought to be, free of charge to the public, we might soon have a very considerable interest in such lec-

tures aroused within the city of Toronto.

A course of lectures was also delivered by Mr. L. Smith-Gordon of the Department of History on "Ireland and Irish Conditions." These were given at five o'clock in the afternoon, and were heartily received by the public.

The University has attempted to arrange courses for the teachers of the city of Toronto for many years, and yet, in spite of our best efforts, the interest in these courses has gradually been declining. It is not difficult to locate at least one of the causes of this decline. The Board of Education does not discriminate between those who hold a second class certificate and those who hold a first class certificate or graduation from the University. Until a premium be set upon higher scholastic attainments, it is recognized that this work among the teachers of the city is not likely to develop. Last year but one course was arranged, namely, in English, for which eleven registered.

With the co-operation of the Department of Education courses were arranged last summer preparatory to the examination for Entrance into the Normal Schools and into the Faculties of Education, in addition to work for special certificates in Household Science, Manual Training, Vocal Music and Elementary Science. The attendance at the summer session was as follows:—Entrance into the Faculties of Education, 85; Normal Schools, 28; Physical Culture, 98; Household Science, 37; Vocal Music, 32; Elementary Science, 15; Manual Training, 9; Commerce, 10. Total enrolment, 305. (Nine registered for more than one course.)

The response to the offer made by the Department of Education through the University Extension Department warrants us in believing that the teachers of the province are heartily in favour of such work being done. Moreover, the fact that with the appearance of these courses it was found impossible to arrange courses in the Faculty of Arts, suggests a condition which has long been suspected, namely, that the attendance in the Faculty of Arts in the past has been more because the teachers wished to write upon the Faculty Entrance examination than for the sake of the standing in Arts. Whether or not it will be found impossible to arrange courses in the Faculty of Arts in the future one cannot, of course say, but it may very well be assumed that the first year classes of the general course will not be taken by teachers, so long as they can get instruction in the work prescribed for Entrance into the Faculties of Education, since this examination is accepted by the University in lieu of the first year general course. During the Summer Session also, the University residences, Queen's Hall and the Dining Hall, were open from

the middle of June until the first of August, and all of these were well patronized by students and teachers.

The work of the University Extension is progressing, and we believe that the possibilities of doing much good work to-day are greater than they have ever been.

# (8) STATEMENT REGARDING THE BIOLOGICAL MUSEUM. (PROFESSOR B. A. BENSLEY.)

During the past year provision has been made for a zoological section of the Royal Ontario Museum. A floor space of about 6,000 square feet, comprising the north portion of the upper gallery, was assigned for the purpose. The area will be used for a collection illustrating the Canadian fauna. A number of new cases, comprising twelve free-standing cases and six table cases, have been provided, and a beginning will be made by transferring the entire Canadian collection together with a portion of the cases from the present Biological Museum.

The Museum has received by gift:

- 1. Nest and eggs of Mangrove Cuckoo, Cat Bird and Song-Sparrow, and eggs of British birds, from Mr. Lewis B. Brown, Toronto.
  - 2. A living Tarantula, from Mr. Walter Groves, Toronto.

3. An unusually fine skeleton and head of the African White Rhinoceros, prepared by Mr. A. Pride, from a specimen which died at Brantford; presented by the management of Barnum & Bailey.

4. There has been added to the Museum a portion of the valuable collection of the late Dr. Oronhyatekha, presented by the Independent Order of Foresters, and including eggs of Ostrich and Cassowary, a Hawksbill turtle, a Diamond-backed rattlesnake and various specimens of fishes, shells and corals.

The Müseum has received by purchase:

- 1. A collection of Javan animals, comprising 40 birds, 4 lizards, and 200 insects, from Mr. C. I. Hodgins, Annapolis, N.S.
  - 2. Four casts of fishes from Ward's Natural Science establishment, Rochester.

# (9) STATEMENT REGARDING THE GEOLOGICAL MUSEUM. (PROFESSOR A. P. COLEMAN.)

Owing to the delay in finishing the gallery in the basement of the new building it was not, until last autumn, that the arrangement of material in the Geological Museum could be commenced. All the specimens at present in possession of the department have been temporarily placed in position, but time has not sufficed for the preparation of the explanatory labels with which it is intended to equip this gallery. A large amount of material, particularly decorative substances and cobalt-silver ores, has been sawn and polished for exhibit.

The more important acquisitions are as follows:—

# By Donation:

Large specimen of rock with asbestos veins and a series of asbestos products.—
The Asbestos Corporation of Canada, Thetford Mines, Que.

Large specimen of graphite.—The Tonkin-Dupont Graphite Co., Wilberforce, Ont.

Fine specimen of native silver from the O'Brien Mine, Cobalt.—J. B. O'Brien. Esq., Toronto.

A pedestal of marble.—The Ontario Marble Co., Toronto.

## By Purchase:

Several series of specimens illustrating the formation of ore bodies.

A copy of Wm. Smith's original geological map of England.

A replica of the bust of Sir Wm. Logan, prepared for the Twelfth International Geological Congress, which met in Canada in 1913.

### By Collection:

Copper ores and geological specimens from Alaska.—Professor Coleman. Decorative stones from Quebec.—Professor Parks.

(10) STATEMENT REGARDING THE PALEONTOLOGICAL MUSEUM. (PROFESSOR W. A. PARKS.)

During the past year the small collection which has been reserved for teaching purposes in the Chemistry and Mining Building has been revised and provided with new labels. The work of re-arranging the material in the Museum Building is proceeding in a satisfactory manner, as nearly all the systematic collection has been revised. The larger and more showy specimens are being separated from the systematic series and placed in special cases for the benefit of the general public: these specimens are being provided with printed explanatory labels, but scarcely more than a third of the work necessary in this connection has yet been done.

The death of Mr. Joseph Townsend, who for many years has acted as collector for the department, is much to be regretted.

The chief acquisitions during the year are as follows:

### By Donation:

Collection of Lockport fossils from Wisconsin.—Dr. Edgar Teller, Milwaukee, Wis.

The large collection brought by Mr. J. B. Tyrrell from the District of Patricia, Ont.

Collection of Colorado fossils.—Dr. George, Boulder, Col.

# By Purchase:

Devonian crinoids and Trilobites from Europe. An excellent skeleton of a Moa from New Zealand.

# By Exchange:

A collection of Normandy fossils.—Dr. A. Bigot, Caen, France. A collection of Italian fossils.—Dr. C. de Stefani, Firenze, Italy.

## By Collection:

A tusk of a mammoth from the Klondike gravels.—Professor Coleman. The head of a young groundhog from the Interglacial of the Don Valley.—

Professor Coleman.

Oriskany, Onondaga and Hamilton fossils.—Professor Parks.

# (11) STATEMENT REGARDING THE MINERALOGICAL MUSEUM. (PROFESSOR T. L. WALKER.)

The collections of the University and of the Royal Ontario Museum of Mineralogy have been enlarged during the year by purchases, donations and exchanges. The following lists contain the names of our chief benefactors:

#### Exchanges.

U. S. National Museum
Field Museum of Natural History Chicago, Ill.
Mineralogiske of Geologiske MuseumCopenhagen, Denmark.
Geological Survey of CanadaOttawa.
Lehigh UniversitySouth Bethlehem, Pa.
W. A. RoeblingTrenton, N. J.
W. T. Watkins BrownSydney, N.S.W.

#### Donations

American Museum of Natural History New York City.
J. W. de Aguero
F. R. AufhammerRenfrew, Ont.
F. J. Alcock
A. G. Burrows Bureau of Mines, Toronto.
A. G. Buffows
Barber Asphalt Paving Co Philadelphia, Pa.
Canadian Sulphur Ore CoQueensboro, Ontario.
Canadian Copper Ore Co Copper Cliff, Ontario.
A. M. Campbell Perth, Ontario.
Dr. James DouglasNew York City.
F. R. Emmerson Port Arthur, Ontario.
W. F. FerrierToronto.
Reginald E. Hore Toronto.
Chas. Hays
Col. A. M. Hay Toronto.
Paul Hahn
H. H. HaydenGeol. Survey of India, Calcutta, India.
F. A. Jordan Sellwood, Ontario.
H. G. KennedyCobalt, Ontario.
Major R. W. Leonard
Dr. W. G. Miller Bureau of Mines, Toronto.
B. B. Neilly Mgr. Penn-Canadian Mines, Cobalt.
E. V. Neelands Mgr. Hargraves & Drummond Mines,
Cobalt.
J. B. O'BrienCobalt, Ontario.
C. A. O'Connell
Hon. C. J. Osman
J. Palmer Mgr. Worthington Mine, Worthington,
Ontario.
Professor A. L. Parsons
E. F. Pullen
Sir Henry PellattToronto.
Elias Rogers Coal Co Toronto.
P. A. Robbins
Edward Schoch Warmbaths, Transvaal.
Lion Coo Conith Warmbaths, Transvaal.
Hon. Geo. Smith
W. E. Segsworth Toronto.
J. B. Stitt
Col. Stevenson
Nelson W. SweetserPhoenix, B. C.
C. S. Wright
S. A. WookeySydenham, Ontario,
Rev. C. J. Young

## (12) MEDICAL RESEARCH FUND, UNIVERSITY OF TORONTO.

The Medical Research Fund of the University of Toronto was formed in 1912 by the generosity of some of the citizens of the Province of Ontario upon the representation of the need for it by the Professor of Medicine.

It is not enough that the Medical School of this city has more students than any school, except Edinburgh, in the British Empire, nor is it enough that the training given them comes, according to the Carnegie Report, up to the highest

standard of American medical education. It is not even sufficient in itself that the Toronto General Hospital is acknowledged by competent judges to be the best general hospital building that has yet been planned on this continent. A medical school that is to take its place among the great schools of the world must be working, as they work, for the future development of medical science. If the schools of Germany in Berlin or Heidelberg or Munich are regarded throughout the world as being in the front rank, they have this prestige not because they have more students, nor even because the course of instruction is better planned or carried out in finer buildings than elsewhere. It is because in these schools during the past generation much of the work has been done which makes the medicine taught to-day more helpful and more hopeful than that which was taught thirty years ago: and because in them much of the pioneer work, and the scouts' work, which is necessary for the continued advance of medicine in our time, is still being done to-day.

Every teacher of medicine or of any living science knows that, while in the first place he has to instil the principles that have been established by the work and experience of his predecessors and contemporaries, it is hardly less important to instil also the spirit of enquiry, and to train his pupils to test critically their own ideas and those proposed by others. The proper outlet for an enquiring mind is the critical training of systematic experimentation. No one can be expected to go far in medicine, nor in any science, who gets no ideas of his own from his studies. who has not the opportunity to put his ideas to the test, and who is not trained in the balancing of evidence obtained by scientific experiment. Medical Research is just this. The great achievements of medicine are made possible by the work of a host of investigators whose names may not be associated by the public with those achievements. The completion of the Panama Canal, it is generally recognized, was due to the skilful organization of medical service by Dr. Gorgas. But it was not the lack of skilful medical service that caused the failure of De Lesseps twentyfive years ago. The work that made the canal possible was begun by a French surgeon working over a microscope in Algiers at the very time when the French engineer was ruining himself and many of his countrymen by his schemes in central America. The discovery by Laveran of certain minute particles in the blood of those suffering from malaria seemed at that time just a curiosity of abstruse information with no interest for the generality of men. It has led, and is leading. to changes in the history and geography of the world.

A great medical school is a centre of scientific thought. The great schools of to-day are those that have stimulated, have given the opportunity and the training for pioneer work such as that of Laveran and of all those who following him have finally shown how malaria can be controlled or even stamped out. This is the service a school must render to prove itself worthy of a place in the front rank.

It is to enable the graduates of Toronto to qualify for such service that the Medical Research Fund was instituted. For medical investigations, though they may ultimately help to save lives, do not provide a living for the investigator. It is not possible for a young graduate to devote the first years after graduation to scientific work unless his immediate needs are met. It is not possible to retain the best men of their year for such service unless they are able to live as befits their standing; and if they acquire skill and experience they should not be left to compare the advancing prosperity of less gifted contemporaries, who have gone out into the world, with their own unrecognized, unrewarded labours.

The scheme, as it is at present proposed to work it. has led to the appointment of a physician in charge of the Out-Patient Department, who is to direct the distribution of cases that come for treatment to the care of those specially devoted to the

study of particular subjects in medicine: a physician engaged in the study of the pathology and treatment of tuberculosis, who is given special facilities for the study of out-patients suffering from this disease and a laboratory for carrying out the investigations on which this study is based. He is following out certain properties of the blood in tuberculosis which seem likely to be of service in forecasting the course of the disease, and also to throw light on the nature of immunity to it. In addition, a number of Research Fellows have been appointed. Two of these, senior Research Fellows, are physicians who have already had special training since graduation; one of them in the treatment and pathology of nervous diseases, now working upon the microscopic examination of the brain and spinal cord in certain diseases of the nervous system, in the laboratory of the Department of Pathology; and one in internal medicine, who is attached for laboratory work to the Department of Pathological Chemistry. He has published during the past year work on the causation of pernicious anaemia, and is at present engaged in the study of the blood in Bright's disease. In addition there are at present three junior Research Fellows. They, like those already mentioned, hold office in the Department of Medicine, and have to keep in touch with the opportunities for investigation presented by cases undergoing treatment in the wards of the Hospital, and are engaged in work in the laboratories of the Pathological Building for the rest of the day. Papers are in preparation on work done by these Fellows during the past year upon fatty disease of the heart, and upon the course of chemical changes in the body under the influence of the poisons of typhoid fever and tuberculosis.

As the scheme matures and suitable men present themselves, additional Fellows will be appointed who will not only have facilities for studying the clinical material of the Hospital, but will also spend the greater part of their time working in one or other of the laboratories connected with the Hospital and University on questions that present themselves for solution in connection with the cases in the wards. Indeed, in the case of all the appointments the duties involve the expenditure of most of the day on investigation in the laboratory and only the smaller part in the wards of the Hospital; for it is in the laboratory that the investigation of the nature, cause, and even treatment of disease must be carried out.

The Fellows working in the Department of Pathological Chemistry under the Medical Research Fund have been:

- (1) Dr. F. McPhedran, who published a paper "On the Hemolytic Properties of Fatty Acids and their Relation to the Causation of Toxic Hæmolysis and Pernicious Anæmia" (*Jl. of Experimental Medicine*, Vol. XVIII), in the fall of last year. Since then his work has been on the reaction of the urine and the blood in diseases of the kidneys. He has met with technical difficulties which are, I think, now overcome, and results should be obtained that will be of interest and importance.
- (2) Dr. C. G. Imrie has completed a valuable piece of work on fatty disease of the liver, heart and kidneys, now ready for the press and to appear in the *Journal of Pathology*.
- (3) Dr. N. C. Sharpe, who has been assisted in part by Dr. K. M. B. Simon, has worked on the changes in metabolism involved in the reaction to toxins. His paper is also ready for publication, and will appear about the same time as Dr. Imrie's, or very soon after it. Dr. Sharpe's work has been laborious and conscientiously carried out: it was reported, as was also Dr. Imrie's, at the meeting of the American Association of Pathologists and Bacteriologists recently held in Toronto.

Dr. Simon has, in addition to his share in Dr. Sharpe's work, been engaged in the study of the action of the photo-sensitive substance hæmatoporphyrin, and is continuing his experiments partly in the Department of Pathology.

The Fellows working in the Department of Pathology have been:

- (1) Dr. R. G. Armour, whose work was in acquiring the necessary technical facility in the use of special methods of histological study of the central nervous system; special study by serial sections of a case of Hemiplegia, which died in the wards of the General Hospital; study by serial sections of an obscure case of posterior degeneration of a cord, which died in the General Hospital. For comparison with these there was conducted a study of the cord of the cat, of which posterior roots of one side were cut and serial sections cut and stained by various histological methods; study of the brain in general paralysis of the insane and of the cords in tabes by the Levaditi method and modification of the same in an attempt to localize by spirochæte in definite areas; histological study of several brain tumors.
- (2) Dr. Caulfeild's researches have been chiefly devoted to Tuberculosis; when other infections have been taken up, it has been for the purpose of helping to elucidate questions in the main work. As considerable equipment had to be installed, work was not begun until the end of March, 1913.

The end in view has been to demonstrate, if possible, under what biological conditions infection to tuberculosis takes place, and if possible those biological conditions that are essential to the patient's recovery. Provided these facts could be satisfactorily obtained, it was then proposed to attempt to reproduce these conditions experimentally in animals with the ultimate hope of using the sera (or cell emulsion) as a specific means of curing, or aiding the recovery in human subjects.

# (13) REPORT OF THE DIRECTOR OF THE ANTITOXIN LABORATORY. (Dr. J. G. FITZGERALD.)

On May 1st, 1914, there was established in the Department of Hygiene, a laboratory for the production of Biological Products; Diphtheria Antitoxin, Rabies Vaccine (Pasteur treatment), Tetanus Antitoxin and Anti-meningitis Serum were ready for distribution when the laboratory was opened.

The fundamental idea underlying the project was the production of all sera and vaccines of value in public health work and their distribution at cost. It was expected that the active co-operation of public health authorities in Canada would be obtained, and this has, in large measure, been realized. Arrangements were soon made to distribute Diphtheria Antitoxin in Ontario under the auspices of the Provincial Board of Health. The Chief Officer of Health of Ontario, Dr. John W. S. McCullough, has been an ardent supporter of the project, and he at once undertook to obtain all Pasteur treatments needed for patients in Ontario, from this laboratory. These treatments have also been supplied to the Provincial Boards of Health of Saskatchewan and of British Columbia.

Diphtheria Antitoxin is being sent to Nova Scotia, through an arrangement with the Provincial Board of Health of that province; the Secretary of the Board, Dr. W. S. Hattie, Halifax, warmly endorsing the work. Likewise Dr. M. M. Seymour, Commissioner of Health of Saskatchewan, has approved the idea, and Diphtheria Antitoxin is being sent to many points in that province. The laboratory has sent Typhoid Vaccine to the Province of British Columbia, the same being used there as a prophylactic against Typhoid Fever by the Provincial Board of Health, through its Secretary, Dr. W. Bapty. Diphtheria Antitoxin is being sent also to

Montreal, Quebee, and Calgary, Edmonton, Vancouver, and other cities have signified their intention of co-operating with the laboratory in the near future.

In the use of some of the products of the laboratory, signal success has been obtained, notably with Tetanus Antitoxin as a therapeutic agent. The result of this work has been reported in the current medical literature. The value of Antimeningitis serum in cerebro-spiral meningitis is also worthy of mention, the mortality having been reduced from seventy-five to twenty-five per cent. where the serum is used.

It is proposed in connection with the work of the laboratory, that facilities be provided for research along the lines of Hygiene and Preventive medicine. Furthermore, the laboratory is available and is being used for Public Health teaching. The value of the laboratory is thus greatly enhanced, since the public service aspect is made to go hand in hand with teaching and research, a combination possible only when the work is being done in connection with the University.

It is the hope of those responsible for the laboratory that it may in this way be possible to gradually develop in Canada, laboratories analogous in scope to those of the Lister Institute in London and the Pasteur Institute in Paris, Brussels and

elsewhere.

(14) REPORTS FROM THE BIOLOGICAL STATIONS. (PROFESSOR A. B. MACALLUM, Secretary-Treasurer of the Biological Board of Canada.)

## The St. Andrew's Biological Station.

The season at this Station was a very successful one. A large number of workmen were in attendance for the greater part of the time the laboratory was open. Amongst those were Dr. A. G. Huntsman of this University, who acted as Curator; Professor A. P. Knight of Queen's University; Professor Cox of Fredericton; Professor Perry of Acadia; Professor E. E. Prince, Chairman of the Biological Board and Commissioner of Fisheries; Messrs. Cooper, Martin and Wallace from this University, and Messrs. Millar, Klugh and Detweiler of Queen's. The work carried on involved special researches in faunistic problems, in the life history of a number of forms, and also, on the economic side of investigations, a number of questions affecting the fisheries. The facilities for research have recently been greatly extended, largely due to the new gasoline motor boat, the Prince, which was planned and constructed for the Station. This is a sea-going vessel which can be and was used for long expeditions to remote points on the Bay of Fundy not hitherto accessible to members of the staff. Through these expeditions a large collection of material was obtained which is now under classification. From this collection, as well as from the collections of earlier years, a very interesting display was made at the St. Stephen Exhibition in September last.

It is expected that the facilities for biological work afforded by the Station will be more and more utilized as these become known to biological workers.

## The Go-Home Biological Station.

The attendance at this Station was small, and included Dr. J. W. Mavor, who acted as Curator, Mr. A. B. Klugh and Miss Ryerson.

The reason for the small number of workers appears to have been the attractiveness of the other Biological Station for scientific workers. The problems studied covered faunistic questions and studies in the life history of several forms.

### The Nanaimo Biological Station.

This Station was under the charge of Dr. C. McLean Fraser, the Curator. Amongst the workers were Professor A. T. Cameron of the University of Manitoba; Dr. E. M. Walker with Mr. T. B. Kurata of this University; and Mr. Dayton Stoner of the State University of Iowa. Dr. Fraser gave his attention to the Hydroids of the Pacific Coast, on which he has prepared a very extensive and valuable monograph now in the course of publication. He also began an investigation on the life history of the herring of the Pacific, which had not been previously studied. Its life history differs in some important aspects from the herring of the Atlantic, and as it is a valuable food fish, its possible extermination by the wholesale fishing by the Japanese makes it necessary to know much more concerning it in order to legislate effectively for its preservation. Dr. Fraser carried on an extensive series of observations on the coho salmon, spring salmon, steelhead, blue cod, etc. In all this work Mrs. Fraser assisted. Professor Cameron was engaged on the study of the iodine content in the tissues of marine forms generally. He gave special attention also to the iodine and potassium content of the sea weeds of the Pacific Coast of Canada, a subject to which he has been asked to give special attention for 1914, because of the possibly very great economic value of the sea weeds as a source of iodine and potassium. Dr. Walker and Mr. Stoner, while engaged specially in entomological studies, gave attention also to other problems, the former to collecting the Isopods and Decapods in the British Columbia waters, and the latter to a study of the Echinoderms of the same.

This Station also came into the possession by purchase of a new gasoline boat, the *Ordonez*, which is as large as the *Prince*, belonging to the St. Andrew's Station. A new motor launch has been added to the Station, and the accommodation of the laboratory and the mess house has been extended. The facilities for research at this Station are now as great as those of the Atlantic Station, while the material for the study of any particular class is much more extensive.

# (15) REPORT OF THE PHYSICAL DIRECTOR. (Dr. J. W. BARTON.)

The work of the physical department for the past year shows an increase in the outdoor athletics and a decrease in the indoor work.

The decrease in the indoor work can be accounted for largely by our inadequate facilities. Our boxing, wrestling and fencing students have been using a portion of the Chemistry and Mining Building, while our 1st and 2nd Basket-ball teams and our Gymnasium team have been using the gymnasium of the Central Y.M.C.A., on College Street. The Athletic Association helped to defray the cost of the tickets at the Y.M.C.A.

Of Inter-Collegiate championships we have not won as many as usual. Mc-Gill carried off the Rugby, Boxing and Wrestling, Swimming and Tennis championships; Queen's won the Hockey; while our teams won the Track, Soccer and Harrier championships. However, our Inter-Faculty competitions have brought out more teams and competitors than ever before. As we have reported on previous occasions, we have a greater variety of athletic competitions and more teams and students engaged therein than any University in America.

The Inter-Faculty competitions comprise Rugby, Hockey. Track, Harriers, Soccer, Basket-ball, Tennis, Boxing, Wrestling, Fencing, Swimming, Water Polo, Gymnastics. While Rugby is the most popular from the spectator's standpoint, Soccer has more students engaged, Rugby having fifteen teams playing and Soccer twenty-two.

The recent action of the Board of Governors in appointing Mr. T. A. Reed to the position of Secretary-Treasurer of the Athletic Association will be of great benefit to our work. It will enable the Physical Director to take better care of his own particular department, that is the physical examinations, supervision of the condition of the students on the various teams, and the supervision of all the teaching. Mr. Reed will be able to help the managers of the various clubs get the most possible value for the money expended, besides training them in business methods.

The growth of the Inter-Faculty and Inter-Collegiate competitions, the in-

struction of secretaries and managers, and various other details made necessary the

appointment of a separate officer.

Some idea of the growth of the work since the appointment of the Physical Director seven years ago may be gathered from the fact that there was at that time Inter-Faculty competition in but six branches and Inter-Collegiate competition in but four, whereas we have now Inter-Faculty competition in fourteen branches and Inter-Collegiate competition in twelve.

There is a possibility of our portion of Hart House being ready for next session. It will mark the beginning of a more complete work—that is, physical exer-

cise and athletics for every student.

The number of women students in attendance at Gymnasium classes was 124. The average attendance at each class was 14. The number of Gymnasium classes a week was 8. The total number of classes was 186.

There were sixty students attending the first year Physical Training class for the University certificate, and forty of these passed the practical examinations.

## (16) REPORT FROM THE SUPERINTENDENT OF THE DINING HALL. (MISS V. M. RYLEY.)

In submitting my report for the academic year 1913-14, I am glad to state that the year has been a successful one in every respect.

The attendance has been large, with an average of about 1,000 meals per day, 275 for breakfast, 425 for luncheon and 300 for dinner, and a total (including Summer Session) of over 190,000 meals. This is slightly less than the number served last year, owing to increased accommodation for students in this district.

Each year it is becoming easier to operate the Dining Hall, and give satisfactory service, as more apparatus and labour-saving devices are added. The students receive ice cream for dessert once or twice a week, and this year a new electric ice cream freezer and ice crusher was installed to replace a small one that was entirely inadequate. I have now an electric ice cream freezer, ice crusher, vegetable parer, meat chopper and toaster, and these all save a great amount of labour.

During the last four years I have trained twelve pupil dietitians in institutional management, who have spent from four to eight months each as Assistant Superintendent in the Dining Hall, for the practical experience. These pupil dietitians have all been graduates in Household Science from the Department of Household Science. They take the detailed supervision of the help and inspection of their work. During meals, one pupil dietitian observes the service in each serving room and prevents any delay by directing each employee where he can be most usefully engaged.

Each year a greater number of Bible Study classes, discussion clubs and executives of one society or another ask if they may secure a separate dining hall, where they may have either luncheon or dinner, and then hold the discussion after. We have no suitable room for such luncheons, but to accommodate them have given a large number of small luncheons in the help's dining-room.

During the summer of 1913, when the International Geological Congress was entertained at the University, the Dining Hall was opened to accommodate the guests in the men's residences. It was again opened for three days to the guests at the City Planning Congress, held in Convocation Hall this May. To these guests 2,000 meals were served at a cost of \$1,000, the service, flowers and menu being very much more elaborate than at regular times.

#### APPENDIX B.

(1) Enrolment in the Colleges.

(2) Enrolment in University Subjects.

(3) Registration in Courses in the Faculty of Arts.

(4) Registration of Women Students.

#### (1) ENROLMENT IN THE COLLEGES.

The students in University College were enrolled as follows:

	Greek.	Latin.	Ancient History.	English.	German.	French.	Orientals.	Ethics.
First Year— Pass Honours	22 14	267 34	121 54	205 78	122 40	186 59	69	
Second Year— Pass Honours	11 13	126 29	68 42	184 51	112 36	158 28	46	
Third Year— Pass Honours	11 10	17 16	28 16	133 35	55 19	70 19	41	7
Fourth Year— Pass Honours	8 17	9 15	18 13	147 42	31 33	61 33	54	43
Totals— Pass Honours	52 54	409 94	235 125	669 206	320 128	475 139	210	129

#### The students in Victoria College were enrolled as follows:

	Greek.	Latin.	Ancient History.	*Eng- lish.	German.	French.	†Orientals.	Ethics.
First Year— Pass Honours	16 11	112 21	48 22	100 36	60 34	82 19	38	
Second Year— Pass Honours	16 6	66 6	13	102 17	60 15	73 14	19 4	1 5
Third Year— Pass Honours	- 4 6	9	15 4	72 14	= 23 10	22 10	1 <del>4</del> 1	48 7
Fourth Year- Pass Honours	1 6	11 5	11 5	74 17	· 13	16 14	6 5	32 5
Totals— Pass Honours	37 29	198 35	74 44	348 84	156 73	193 57	77 10	81 17

<sup>\*5</sup> M.A. students in English. †2 graduate students.

<sup>3</sup> B.G.

### The students in Trinity College were enrolled as follows:

	Greek.	Latin.	Ancient History.	English.	German.	French.	Orientals.	Ethics.
First Year— Pass Honours		31 11	15 11	30 14	24 11	28 10	3	
Second Year— Pass Honours		26	2	22 6	9 7	15 6	6	
Third Year— Pass Honours		12 1	9	25 7	13 5	18 5	4	11
Fourth Year— Pass Honours		3 4	5 3	12 9	6	9 7		2
Totals— Pass Honours	20 8	72 16	31 15	89 36	52 27	70. 28	13	13

#### The students in St. Michael's College were enrolled as follows:

	Greek.	Latin.	Ancient History.	English.	German.	French.	Philo-sophy.	Ethics.
First Year	3 3	46 18 5 2	3 1 1	48 24 30 7	34 17 8 2	47 22 12 1	20 21 8	29 8

#### (2) ENROLMENT IN UNIVERSITY SUBJECTS.

The following tables exhibit the numbers attending lectures in University subjects, together with the numbers of those taking the practical work in the laboratories:

#### DEPARTMENT OF MATHEMATICS.

	Pass.	Pass and Honours.	Honours.
Faculty of Arts— First Year Second Year Third Year Fourth Year	419 10 10		56 68 21 23
Faculty of Applied Science— First Year. Second Year		144	142
Total	439	144	310

#### DEPARTMENT OF PHYSICS.

_	Pass.	Pass and Honours.	Honours.	Laboratory
Faculty of Arts— First Year Second Year Third Year Fourth Year Graduate Students.	3 1		116 81 21 21 4	269 54 31 8 4
Faculty of Medicine— First Year		121	• • • • • • • • • • • • • • • • • • • •	121
Department of Dentistry	96		•••••	96
Faculty of Forestry— First Year	14			13
Total	279	121	243	596

## DEPARTMENT OF BIOLOGY.

	Pass.	Pass and Honours.	Honours.	Laboratory.
Faculty of Arts— First Year Second Year Third Year Fourth Year Graduate Students	<u>‡</u>		5	409 59 25 5
Faculty of Medicine— First Year Second Year		123 89	• • • • • • • • • • • •	123 89
Faculty of Applied Science— First Year Second Year Third Year Fourth Year		17		5 3 15
Faculty of Forestry— First Year Second Year Third Year Fourth Year				17 10 8 5
Ontario Veterinary College Students in Botany				195
Total	394	274	159	977

## DEPARTMENT OF CHEMISTRY.

	Pass.	'Pass and Honours.		Laboratory.
Faculty of Arts— First Year Second Year Third Year Fourth Year Occasional Students Graduate Students	81 10 1			120 143 7 7 5 7
Faculty of Medicine— First Year		122		122
Faculty of Applied Science— Third Year		6	• • • • • • • • • • • • •	
Faculty of Forestry— First Year Second Year Third Year		16 10 1		16 1
Ontario Veterinary College Students	98			98
Total	190	155	206	526

#### DEPARTMENT OF PHYSIOLOGY AND BIOCHEMISTRY.

	Pass and Honours.	Honours.	Laboratory.
Faculty of Arts— Second Year Third Year Fourth Year Occasional Students (Food Chemistry).	23 36 33 24	23 25 21	23 36 33 2
Faculty of Medicine— Second Year Third Year	88 118	 	88 118
Veterinary Students	89		89
Total	411	69	389

#### DEPARTMENT OF GEOLOGY.

_	Pass.	Pass and Honours.	Honours.	Laboratory.		
Faculty of Arts— Second Year. Third Year Fourth Year.			19 3 7	247 3 11		
Faculty of Applied Science— Second Year. Third Year. Fourth Year.		11 109 95		16		
Faculty of Forestry— Second Year Third Year Fourth Year						
Total	295	215	29	288		

#### DEPARTMENT OF MINERALOGY.

	Pass.	Pass and Honours.	Honours.	Laboratory.
Third Year Fourth Year Graduate Students.  Faculty of Applied Science— First Year Second Year Third Year Fourth Year	2	4 75	17 9 11	221 9 11 4 75 25 18
Faculty of Forestry— Second Year Third Year		14 10		14 10
Total	222	. 146	37	391

# DEPARTMENT OF PHILOSOPHY.

	Introduction to Philosophy.	History of Philosophy and Metaphysics.  Pass. Hon- ours.		Psychology.	Logic.	Ethics.	
				Honours.	Honours.	Pass.	Hon- ours.
Second Year	228		17	16		16	16
Third Year		101	19	19	20 .	75	11
Fourth Year		55	16	13	14	29	12
Graduate Students			11	14	1		8
Total	228	156	63	62	35	120	47

## DEPARTMENT OF POLITICAL SCIENCE.

	Pass.	Honours.
Faculty of Arts— Second Year Third Year Fourth Year Department of History Department of Philosophy	37 122 77 35	32 21 26 16
Department of Commerce and Finance: First Year. Second Year Third Year Fourth Year. Graduate Students Occasionals Department of Chemistry and Mineralogy		15 13 6 2 10 2
Faculty of Forestry— Fourth Year	6	
Department of Household Science	4	
	284	143

#### DEPARTMENT OF HISTORY.

	Pass.	Honours.
First Year Second Year Third Year. Fourth Year	19 143 160 138	10 55 53 44
Total	460	162

#### DEPARTMENT OF ITALIAN AND SPANISH.

	Itali	an	Spar	Phonetics.	
	Pass.	Honours.	Pass.	Honours.	Honours
First Year	15 8 3	50 16 9 11	48 17 1 1	4 6 3 6 2	23
Total	101	87	67	21 .	23

#### DEPARTMENT OF HOUSEHOLD SCIENCE.

	Pass.	Honours.	Total.
Arts Students proceeding to a degree			113 1 1 127 77 13
	31	84	369

(3) Registration in Courses in the Faculty of Arts, 1913-1914.

		.व.तन	:::: <sup>2</sup> ::: <sup>2</sup> :: <sup>2</sup> ::: <sup>2</sup> :: <sup>2</sup> ::: <sup>2</sup> ::: <sup>2</sup> :: <sup>2</sup> : <sup>2</sup>	82 :
		.A.M	23 9 12 17 20 4 1 - 21 12 6 6 22	96 :
		Total,	759 456 456 456 456 456 456 456 456	689,
		St. M.	2 1	90
	Year.	T. C.	<u> </u>	27
	Fourth	V. C.	8/10 - 1 10 4 1 2 1 1 1 1 2 2 4 1 1 1 1 2 2 4 1 1 1 1	7.9
	Ē	u.c.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	207
		St. M.	61	FE FE
	Year.	T.C.	27	34
	Third J	V. C.	4 w 4 · - × v) v) 4 - × × × · · · · · · · v) ro w	95
-	T	J. C.	<u> </u>	188
		St. M.	7	25
	Year.	T. C.	<u>6</u>	255
	Second Year.	V. C.	8 m m : 4 - 1 1 - 1 2 1 - 1 2 1 - 1 2 1 1 1 1 1 1	122
	Š	J. C.	88 8 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	237
		St. M.		40
	lear.	T. C.	284 40	51
	First Year.	V. C.	000 000 000 000 000 000 000 000 000 00	186
	_	U. C.	152 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	317
		Courses.	General Course. Classics Eng. and Hist. (Class.). Greek and Hebrew Orientals Moderns Eng. and Hist. (Mod.) Modern Histor. Political Science. Commerce and Finance. Philosophy. Mathematics and Physics Natural and Physical Sciences Physics Biology Geology and Mineralogy I. Chemistry and Mineralogy II. Biol. and Phys. Sc. Physiol. and Bioch. Sc. Physiol. and Household Sc. Arts and Forestry Chemistry Anatomy	Total of courses taken

### (4) REGISTRATION OF WOMEN STUDENTS.

The women students registered in University College took the following courses:

Courses.	First Year.	Second Year.	Third Year.	Fourth Year.
General Classics English and History (Cl.) Classics and English and History English and History (Mod.) Moderns Moderns and English and History Modern History Philosophy Mathematics and Physics Science Physics Physiological and Biochemical Sciences Biology Household Science Physiology and Household Science	15 18 2 2 2 3 6	1 14	2	2 5
Totals	112	87	60	76

The women students registered in Victoria College took the following courses:

Courses.	First Year.	Second Year.	Third Year.	Fourth Year.
General	11	. 15 9 3	14 7 1	12
Mathematics and Physics	9 45	9 39	8 32	4

 Total
 140

 Occasional
 4

144

#### The women students registered in Trinity College took the following courses:

Courses.	First Year.	Second Year.	Third Year.	Fourth Year.
General Modern Languages English and History (Mod.) Modern History Classics		3 3	11 4 1	6 4 3 1 1
Total	14	7	16	15

#### The women in the Faculty of Medicine were enrolled as follows:

First Year	9
Second Year	5
Third Year	4
Fourth Year	
Fifth Year	
	21

## The women in the Faculty of Household Science took the following courses:

Department of Education Occasionals		3
		-
	(	11

## The women in the Faculty of Education took the following courses:

Advanced Course General Course	85 115
	200

#### APPENDIX C.

#### RESULTS OF EXAMINATIONS.

- (1) Faculty of Arts.
- (2) Faculty of Medicine.
- (3) Faculty of Applied Science.
- (4) Faculty of Forestry.
- (5) Faculty of Education.
- (6) Faculty of Household Science.

## RESULTS OF EXAMINATIONS IN MAY, 1914.

## (1) FACULTY OF. ARTS.

#### Senior Matriculation.

Courses.	University.	Univ. Coll.	Vic. Coll.	Trin. Coll.	St. M. Coll.	Totals.	Passed.	Starred.	Failed.	Transfer'd.	Aegrotat.	Deferred.	Debarred.
General Supplementals Classics Eng. and Hist. (Cl.). Greek and Hebrew Moderns. English and History (Mod.). Modern History Political Science Commerce and Finance. Math. and Phys. Natural Science Household Science Arts and Forestry Occasionals.	1	3 2 2 5 3 4 1 3 1	1 2 1 · · · · · · · · · · · · · · · · ·	3	1	9 1 1 8 2 3 6 6 6 6 1 6 9	6 1 2 1 2 2 2 5 17 17	3 1  5 1 1 3 5 3 1 1  2	1 1 1 1	 1  2 3 3 3  2		2 	29 2 1  4 1 1 2 4 2  1
Totals	21	76	36	11	20	164	62	67	35	14		4	47

#### First Year.

Courses.	University.	Univ. Coll.	Vic. Coll.	Trin. Coll.	St. M. Coll.	Totals.	Passed.	Starred.	Failed.	Transfer'd.	Aegrotat.	Deferred.	Debarred.
General Supplementals Classics Eng. and Hist. (Class.) Greek and Hebrew Moderns Eng. and Hist. (Mod.) Modern History' Political Science Commerce and Finance Math. and Phys Natural Science Household Science Arts and Forestry Occasionals Totals		86 35 7 10 1 27 13 2 12 4 20 21 16 1	7 6 10 4 3 5 6 10 9 7 			170 55 17 20 1 38 24 5 18 10 30 33 27 1	66 38 14 16 1 26 22 5 9 8 28 28 18 	3	1	3 5 3 8 3 3 2	1		2
		200	102	-31	20	713	219	124	40	92	2	2	4

#### Second Year.

Courses.	University.	Univ. Coll.	Vic. Coll.	Trin. Coll.	St. Michael's College.	Totals.	Passed.	Starred.	Failed.	Transfer'd.	Aegrotat.	Deferred.	Debarred.
General Supplementals Classics Eng. and History (Classics). Orientals Greek and Hebrew Moderns Eng. and History (Mod.) Modern History Political Science. Commerce and Finance Philosophy Mathematics and Physics. Physics Biology Geology and Mineralogy Geology and Mineralogy Chem. and Phys. Sciences Phys. and Bioch. Sciences Household Science Phys. and Household Sc. Arts and Forestry Occasionals.			334 9218753312173348 	15 11  4 1 1 1	3 1 14	1366 555 111 8 5  43 199 30 23 30 24 112 4 177 22  1 22  1 28	488 300 4 4 2 4 4 233 111 19 4 4 135 15 13 15 6 —	6 6 1 19 7 1 9 5 13 5 1 1 3	1 1 1 1 1 3 4 3 3 · · · · · · · · · · · · · · · ·	2	1	2 7 3 3 3	  3 
Totals	20	259	126	36	24	465	224	174	47	15	5	9	35

#### Third Year.

Courses.	University.	Univ. Coll.	Vie. Coll.	Trin. Coll.	St. Michael's College.	Totals.	Passed.	Starred.	Failed.	Transfer'd.	Aegrotat.	Deferred.	Debarred.
General Supplementals Classics Eng. and History (Classics). Orientals Greek and Hebrew Moderns Eng. and History (Mod.). Modern History. Political Science. Commerce and Finance Philosophy. Mathematics and Physics. Physics Biology Geology and Mineralogy Chem. and Min. I. Chem. and Min. II. Bio. and Phys. Sciences Phys. and Bioch. Sciences Household Science Phys. and Household Science Arts and Forestry Occasionals		10 4 2	3 1  8 2 2 4 1 8 8 8 1 1 	1 2 	13 3	1644 433 99 77 11 222 111 88 211 66 366 177 3 3 2 2 1 1 6 6 2 22 9 5 57	28					1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	13 2 2  2  1 9  2
Totals		224	98	37	33	392	247	113	32	3	9	10	36

#### Fourth Year.

Courses.	University.	Univ. Coll.	Vic. Coll.	Trin. Coll.	St. Michael's College.	Totals.	Passed.	Starred.	Failed.	Transferred.	Aegrotat.	Deferred.	Pass. Deg.
General Classics English and History(Class.) Greek and Hebrew Orientals Moderns English and History (Mod.) Modern History Political Science Commerce and Finance Philosophy Mathem Mathematics and Physics Physics Biology Geology and Mineralogy Chem. and Mineralogy, I. Chem. and Mineralogy, II. Bio. and Phys. Sciences Physio. and Biochem. Sc Household Science Physio. and Household Sc. Arts and Forestry Occasionals		844 78 8 8 1 266 5 16 22 9 16 1 2 2 2 2 4 2 2 1 8 8 6 6 2 3 3 6 6	5 1 5 5 14 4 1 1 1 2 2 1 1 1 1 1 1 2 2 1 4 4	2 4 4 1 1 1 1 1 1 1 1	5	125 15 10 1 6 45 10 26 2 17 19 2 3 3 2 6 3 3 2 6 3 3 2 7 19 2 10 10 10 10 10 10 10 10 10 10 10 10 10	99 1 6 45 99 3 3 24 2 2 16 6 17 2 2 3 3 2 2 5 5 8 6 6 2 2 3	2 1 2 1 2			3		3 1 2 2 2
Totals	• • • •	215	83	28	8.	334	289	56	9	• • • • }	9	1	7

## (2) FACULTY OF MEDICINE.

	Passed with Honours.	Passed.	Starred.	Failed.
First Year. Second Year Third Year Fourth Year Fifth Year.	3 8 6	76 68 68 79 68	19 12 35 25 12	12 4 7

# (3) FACULTY OF APPLIED SCIENCE.

	Passed with Honours.	Passed.	Starred.	Failed.
First Year:	1			
Civil Engineering	38	66	. 14	6
Mining Engineering	3	4	i	i
Mechanical Engineering	3	13	6	1
Architecture	3	7	4	
Analytical and Applied Chemistry	1	1	2	
Chemical Engineering	î	3	2	
Electrical Engineering	15	33	10	3
Second Year:				
Civil Engineering	14	54	26	4
Mining Engineering	1	4	2	3
Mechanical Engineering	6	13	5	
Architecture	3	12	6	
Analytical and Applied Chemistry	2	3	1	
Chemical Engineering	3	5	2	
Electrical Engineering	10	28	10	8
Metallurgical Engineering	1	1		
Third Year:				
Civil Engineering	42	84	22	4
Mining Engineering	7	16	4	
Mechanical Engineering	7	13	3	1
Architecture	4	10	5	
Analytical and Applied Chemistry	2	4	1	
Chemical Engineering	1	2		
Electrical Engineering	6	33	16	3
Fourth Year:				
Civil Engineering	42	76	11	
Mining Engineering	6	16	4	2
Mechanical Engineering	10	18	2	
Architecture	3	5	1	
Analytical and Applied Chemistry	1	5		
Chemical Engineering	3	6	1	
Electrical Engineering	18	31	4	
-				

## (4) FACULTY OF FORESTRY.

	Passed with Honours.	Honours Deferred.	Failed.
First Year. Second Year. Third Year. Fourth Year Special Student	2 3 2 6	13 6 3 2 1	2
Forestry and Arts: First Year Second Year Fourth Year Fifth Year Sixth Year		1	

# (5) FACULTY OF EDUCATION.

	Passed with Honours.	Passed.	Failed.	
General Course Advanced Courses *Specialists Inspectors' Course B. Pæd D. Pæd Number who failed in whole or part	14	1 1 1		

<sup>\*</sup> Many of these are included among those who passed in the General or Advanced Courses.

# (6) FACULTY OF HOUSEHOLD SCIENCE.

	Passed.
Occasional Students	14

## APPENDIX D.

## GEOGRAPHICAL DISTRIBUTION OF STUDENTS.

The geographical distribution of students is as follows:

#### FACULTY OF ARTS.

	University of Toronto.	University College.	Victoria College.	Trinity College.	St. Michael's College.	Total.
Ontario: (1) Province.  (2) Toronto  Nova Scotia  New Brunswick  Prince Edward Island  Quebec.  Manitoba  Saskatchewan  Alberta  British Columbia  Yukon  United States Elsewhere  Totals	231 10 5 3 10 24 21 10 9	461 441 5 5 1 6 8 27 13 14 1 9 36	322 117 1 1 1 2 2 16 14 30 1 25		67 31 2 1 112 1114	1,305 852 16 13 5 22 35 66 40 57 1 85 77

#### SUMMARY.

	Faculty of Arts.	Faculty of Medicine.	Faculty of Applied Science.	Faculty of Education.	Faculty of Forestry.	Faculty of Household Science.	Totals.
Ontario: (1) Province (2) Toronto Nova Scotia New Brunswick Prince Edward Island Quebec Manitoba Saskatchewan Alberta British Columbia Yukon United States Elsewhere Occasionals	1,305 852 16 13 5 22 35 66 40 57 1 85 77	308 189 3  1 1 3 18 10 8 1 6 6	317 231 3 	252 60 2 1 4 1	24 16 1 	21 66 1 1	2,227 1,414 23 15 6 30 45 99 68 84 4 94 108 69
TotalLess registered in	2,574 two Fact	623 alties	627	320	51	91	4,286 52

The students from the Province of Ontario are distributed as follows:

County.	Faculty of Arts.	Faculty of Medicine.	Faculty of Applied Science.	Faculty of Education.	Faculty of Forestry.	Faculty of Household Science.	Totals.
Algoma Brant Bruce Carleton Dufferin Dundas Durham Elgin Essex Frontenac Glengarry Grenville Grey Haldimand Haliburton Hastings Huron Kent Lambton Lanark Leeds Lennox and Addington Lincoln Manitoulin Middlesex Muskoka Nipissing Norfolk Northumberland Ontario Oxford Parry Sound Peel Perth Peterborough Prescott Prince Edward Rainy River Renfrew Russell Simcoe Stormont Thunder Bay Victoria Waterloo Welland Wellington Wentworth York Toronto.	9 31 28 53 19 11 27 30 30 5 1 10 49 20 29 42 31 41 17 18 7 29 6 5 8 19 11 22 5 7 42 3 5 5 6 35 8 11 22 6 28 5 35 85 85 85 85 85 85 85 85	8 7 11 1 5 1 5 8 13 13 16 1 4 4 25 5 4 4 11 5 5 13 18 9	4 8 10 6 3	10 2 3 5 19 9 6 4 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 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	21 52 55 66 29 16 48 50 58 6 1 13 99 32  50 43 89 62 71 32 26 10 46 7 103 15 36 21 36 21 36 21 36 37 58 58 58 60 11 13 13 14 15 16 17 18 18 18 18 18 18 18 18 18 18
Totals	2,157	497	- 548	312	40	87	3,641

#### APPENDIX E.

#### Publications.

During the year 1913-14 the following volumes and papers were issued as University of Toronto Studies:

- Review of Historical Publications Relating to Canada," Vol. 18; edited by George M. Wrong, H. H. Langton and W. S. Wallace.
- Philological Series, No. 2: "George Ticknor's Travels in Spain," edited by G. T. Northup.
- Philological Series, Extra Volume: "Theban Ostraca," edited from the originals, with translations and plates, by Alan H. Gardiner, Sir Herbert Thompson and J. G. Milne.
- Geological Series, No. 8: "A Cervalces Antler from the Toronto Interglacial," by B. A. Bensley.
- Papers from the Chemical Laboratories, No. 99: "Hyperbasis," by Frank B. Kenrick.
- Papers from the Chemical Laboratories, No. 100: "Electro-deposition of Metals," by W. Lash Miller.
- Papers from the Chemical Laboratories, No. 101: "Determination of Free Cyanide in Cyanide Copper and Brass Baths," by J. T. Burt-Gerrans and W. Morison.
- Papers from the Chemical Laboratories, No. 102: "The Rate of Dissociation of Nitrogen Peroxide," by W. L. Argo.
- Papers from the Chemical Laboratories. No. 103: "Researches in Physical Chemistry," No. VII, by W. Lash Miller and F. B. Kenrick.
- Papers from the Chemical Laboratories, No. 104: "Friedel and Craft's Reaction," by C. R. Rubidge and N. C. Qua.

#### PUBLICATIONS BY MEMBERS OF THE STAFF.

## Faculty of Arts.

- Allan, F. B.—"Friedel and Crafts' Reaction—The Preparation of Orthobenzoylbenzoic Acid and Benzophenone." In collaboration with C. R. Rubidge and N. C. Qua. (Journal of the American Chemical Society, 36, 732.)
- Baker, A.—" Some Experiments in Connection with the Doctrine of Probability." (Paper read at the Annual Meeting of the Royal Society of Canada, Montreal, May 26-28, 1914.)
- Brett, G. S.—"The Government of Man: An Introduction to Ethics and Politics." (Pp. XIV-318. Bell & Sons.)
  - "The Problem of Freedom after Aristotle." (Mind, N. S., 87, July, 1913.)
- Chant, C. A.—"An Extraordinary Meteoric Display." (Journal of the Royal Astronomical Society of Canada, Vol. VII. pp. 145-215 and 438-447. 1913.)
  - "The Motion of the Stars." (Journal of the Royal Astronomical Society of Canada, Vol. VIII, pp. 21-35, 1914.)
- Clawson, W. H.—" Percy's Reliques of Ancient English Poetry." (The Report of the Ontario Educational Association, 1913.)
- Coleman, A. P.—"Guide-book to Toronto and Vicinity." (Geol. Congress, No. 6.)
  - "Geology of Toronto." (Canadian Institute Handbook.)
  - "Guide to Sudbury Region." (Geol. Congress, No. 7.)

- "The Whiskey Lake Area, and the Massey Copper Mine Area." (Bureau of Mines, Ont., Vol. XXII, Part 1.)
- Cooper, A. R.—" Contributions to the Life History of Proteocephalns ambloplites, Leidy." (Contributions to Canadian Biology, by the Dominion Government.)
- Cudmore, S. A.—" Economics specially adapted to Canadian conditions": A general treatment of the subject in twenty lessons. (350 to 400 pages.) (Shaw Correspondence School, Toronto.)
- Ellsworth, H. V.—"The crystal habit of Topaz from New Brunswick, Canada."
  - "A method of silvering crystal faces for giving improved reflections on the goniometer." (Mineralogical Magazine, December, 1913.)
- Falconbridge, J. D.—"Fictitious or non-existing Payee of a Bill." (18, Journal Canadian Bankers' Association, Jan'y, 1911.)
  - "Blanks in Negotiable Instruments." (31, Canadian Law Times, 113, Feb'y, 1911; 18, Journal Canadian Bankers' Association, 156, April, 1911.)
  - "Prohibitions of Section 76 of the Bank Act." (32, Canadian Law Times, 872, Nov., 1912; 20, Journal Canadian Bankers' Association, 131, January, 1913.)
  - "The Law Merchant in Canada.", (49, Canada Law Journal, 637, Nov., 1913.)
  - "Banking and Bills of Exchange." (2nd ed., Canada Law Book Co., Toronto, 1913.)
- Fields, J. C.—" Proof of the Complementary Theorem." (London Mathematical Society.)
  - "Direct Derivation of the Complementary Theorem." (British Association, Birmingham.)
  - "To determine by rational operations whether an Algebraic curve is or is not reducible." (Royal Society of Canada.)
- Fraser, W. H.—"French and Ontario Secondary Schools." (University of Toronto Monthly, April, 1914.)
- Homer, Miss A.—"The Constitution of Kymuremi Acid." (The American Journal of Biological Chemistry, May, 1914.)
- Hume, J. G.—"The Ethics of Speculation." (The Westminster, July, 1913.)
  "Socialism." Centribution to Symposium. (Edited by J. Silvin, Sacra-
- mento, 1913.)
  Huntsman, A. G.—"On the Origin of the Ascidian Mouth." (Proc. Royal Society B., Vol. 86, p. 454.)
  - "Protostigmata in Ascidians." (Proc. Royal Society B., Vol. 86, p. 440.)
  - "Invertebrates other than Insects and Mollusks." (Natural History of the Toronto Region, Toronto, 1913.)
- Kartzke, G.—"Jahresbericht für germanische Philologie: Englische Sprache." "English Annotations zu W. Paszkowski, Lesebuch für Ausländer."
- Kenrick, F. B.—"Hyperbasia." (Trans. American Electrochem. Soc., Vol. 23, pp. 421-427.)
  - "Rate of Dissociation of Nitrogen Peroxide." In collaboration with W. L. Argo. (Journal Phys. Chem., Vol. 18, pp. 438-450.)
  - "The Sulphates of Barium." In collaboration with J. D. Barter. (Trans. Roy. Soc. Can. 111, 1913.)
  - "The Sulphates of Calcium." In collaboration with H. A. G. Willoughby. (Trans. Roy. Soc. Can., 111, 1913.)
  - "The Thickness of Surface Films of Solutions of Surface-active Substances." In collaboration with R. L. McGregor. (Trans. Rov. Soc. Can., 111, 1913.)

- "The Critical Angle of Reflection from Solutions of Surface-active Substances." In collaboration with R. T. Elworthy. (Trans. Roy. Soc. Can., 111, 1913.)
- "The Rate of Solution and Crystallization of Gypsum." In collaboration with W. J. Fawcett. (Trans. Roy. Soc. Can., 111, 1913.)
- "The Absence of Supersaturation of Liquids in Liquids." In collaboration with W. J. Fawcett. (Trans. Roy. Soc. Can., 111, 1913.)
- "The Tyndall Effect in Liquids." In collaboration with W. H. Martin. (Trans. Roy. Soc. Can., 111, 1913.)
- Lefroy, A. H. F.—" Canada's Federal System, being a Treatise on Canadian Constitutional Law under the British North America Act."
  - "The Alberta and Great Waterways Railway Case." (Law Quarterly Review, Jan. 15th, 1913.)
  - "Points of Special Interest in Canada's Federal Constitution." (The Canadian Law Times, Oct., 1913.)

Lloyd, G. I. H.—"The Cutlery Trades." (Longmans, Green, & Co.)

- McLennan, J. C.—"On the Relative Intensities of the Earth's Penetrating Radiation on Land and Sea." (Phil. Mag., Oct., 1912, p. 520); (Trans. Roy. Soc. of Can., 1912.)
  - "Measurements on the Earth's Penetrating Radiation with a Wulf Electrometer." In collaboration with A. R. McLeod. (Phil. Mag., Oct., 1913, p. 740.)
  - "On the Electrical Conductivity Imparted to Liquid Air by Alpha Rays." In collaboration with D. S. Keys. (Proc. British Association, 1912; Phil. Mag.. Nov., 1913, p. 876.)

"On the Series Line in the Arc Spectrum of Mercury." (Proc. Roy. Soc.,

A, Vol. 87, 1912, p. 256.)

- "On the Constitution of the Mercury Green Line 5461 A U and on the Magnetic Resolution of its Satellites by an Echelon Grating." (Proc. Roy. Soc., A, Vol. 87, 1912, p. 269.)
- "On a Fluorescence Spectrum of Iodine Vapour." (Proc. Roy. Soc., A, Vol. 88, p. 289, 1913.)
- "On the Temperature of the Mercury Arc." (Proc. Roy. Soc. of Can., 1913.)

"Residual Ionisation in Gases." (Nature, Dec. 11, 1913.)

- Mavor. James.—"Taxation in Ontario." (Canada and its Provinces, 1913-14.)
  "Applied Economics." (New York, 1914.)
  - "Economic Survey of Canada." (Oxford Survey of the British Empire, Vol. IV. Oxford. 1914.)
  - "An Economic History of Russia." (2 Vols., London, 1914.)
- Needler, G. H.—"German and Ontario Secondary Schools." (University Monthly, January, 1914.)
- Northup, G. T.—"Selections from Mesonero Romanos." (Holt & Co., New York, 1913 Text-book.)
  - "The Spanish Prose Tristram Source Question." (Modern Philosophy, Vol. XI, No. 2, October, 1913.)
- Parks, W. A.—"Report on the Building and Ornamental Stones of Canada. Vol. 11, the Maritime Provinces." (Mines Branch, Department of Mines, Canada.)
  - "Summary Report on the Building and Ornamental Stones of the Province of Quebec." (Summary Report, Mines Branch, Dept. Mines for 1912.)
  - "Preliminary Report on the Fossils collected by Mr. J. B. Tyrrell in the District of Patricia." (Bureau of Mines. Ontario Report for 1913.)

- "The Palæontology of the Guelph, Onondaga and Hamilton Formations in Southwestern Ontario." (Guide Book to Excursion A 12, International Geological Congress.) In collaboration with C. R. Stauffer and M. Y. Williams.
- "The Silurian Section at the Forks of the Credit River." (Guide Book to Excursion B 4, International Geological Congress.)

"The Ordovician Section on the Credit River near Streetsville, Ont." (Guide

Book to Excursion B 7, International Geological Congress.)

"Geology of Selected Areas on Lakes Erie and Huron in the Province of Ontario." In collaboration with C. R. Stauffer and A. F. Foerster, M. Y. Williams and T. L. Walker. (Guide Book to Excursion C 5, International Geological Congress.)

"The Paleozoic Section at Hamilton. Ont." (Guide Book to Excursion B 3,

International Geological Congress.)

- Parsons, A. L.—"The Lake of the Wood and other Areas." (Bureau of Mines, Ontario, 1913.)
- Piersol, W. H.—"Handbook of the Geology and Natural History of Toronto"—article "Amphibia." (Canadian Institute.)

"The Egg-laying Habits of Plethodon cinereus." (Trans. Canadian Insti-

tute.)

Robertson, A. D.—" Mollusca." (The Natural History of the Toronto Region.)

- Sissons, C. B.—"Illiteracy in the West." (The University Magazine, October, 1913.)
- Walker, E. M.—"Mutual Adaptation of the Sexes in Argia meesta." (Canadian Entomologist, Vol. 45, pp. 277-279.)

"A New Species of Orthoptera forming a New Genus and Family." (Can.

Ent., Vol. 46, pp. 93-99.)

"Review of Animal Communities in Temperate North America." (Can. Ent., Vol. 46, pp. 111-112.)

"The Nymphs of the Canadian Species of Lestes." (Can. Ent., Vol. 46, No. 6.)

- Walker, T. L.—"Crystallography" (204 pages). (McGraw Hill Book Co., New York, May, 1914.)
  - "Temiskamite, a New Nickel Arsenide." (American Journal of Science, February, 1914.)

"Royal Ontario Museum of Mineralogy." (University Monthly, 1914.)

# Faculty of Medicine.

- Campbell, G. A.—"Albuminuria Associated with Diseased Tonsils." (American Medicine, June, 1913.)
  - "Results of Treatment with Salvarsan in Late Congenital Syphilis." American Journal of Diseases of Children, September, 1913.)

"Report of a Case of Ectopia cordias."

Clarkson, F. A.—"Venereal Disease as a Public Health Problem." (Canadian Practitioner and Review, October, 1913.)

"Primary Endothelioma of the Pleura." (Canadian Medical Association Journal, March, 1914.)

Fitzgerald. J. G.—"Action of Gentian Violet on Mucosus capsulatus Group." In collaboration with Miss G. Mackintosh. (Proc. Society of Experimental Biology Medicine, 1913, X, pp. 149-157.)

"Recent Work on Anterior Polyiomyelitis in America." (Ergebnisse der Bakteriologic Immunitatsforschung. Experimentellen Therapie und Hygiene, 1914.),

"The Scientific Work of the Hygienic Laboratory, United States Public Health Service." (Ergebnisse der Bakteriologie, Immunitatsforschung, Experi-

mentellen Therapie und Hygiene, 1914.)

Gallie, Wm.—"Tendon Fixation." (American Journal of Orthopædic Surgery, July, 1913.)

"The Periosteum." (Canadian Medical Association Journal, January, 1914.)

Harrison, F. C.—"On the Use of Pituitary Extract in Obstetrics." (Archives of Internal Medicine, September. 1913.)

Henderson, V. E.—"On the Colon and Ileocolotomy." (Canadian Medical Association Journal, June, 1913.)

"Acidosis." Canadian Medical Association Journal, IV, 1914.)

"Action of Drugs on the Uterus." (U. of T. Med. Bull., II, 1914.)

"Arteriosclerosis." (U. of T. Med. Bull. II, 1914.)

Loudon, J. D.—"Subacute Combined Degeneration of the Spinal Cord." (The Canadian Practitioner and Review, July, 1913.)

"Frontal Tumours." In collaboration with R. W. Mann. (The Canadian

Medical Association Journal, December, 1913.)

"Hæmatomyelia." (The Canadian Journal of Medicine and Surgery, March, 1914.)

"Traumatic Lesions of the Lower End of the Spinal Cord and Cauda Equina." In collaboration with G. E. Wilson. (The University of Toronto Medical Bulletin, May, 1914.)

MacMurchy, H.—"Report on the Feeble Minded in Toronto." (March, 1914.)

McMurrich, J. P.—"Description of the new Species of Actinian of the Genus Edwardsiella from Southern California." (Proc. U. S. Natl. Museum, Vol. XLIV.)

"Salmon Fisheries of British Columbia." (Fourth Ann. Rep. Commission of Conservation. Ottawa.)

"Some further Observations in the Life Histories of the Pacific Coast Salmon as Revealed by their Scale Markings." (Trans. Royal Soc. Canada, Ser. 3, Vol. VII.)

"Notes in the Scale Markings of the Halibut and their bearing in Questions connected with the Conservation of the Fishery." (Trans. Royal Soc. of Canada, Ser. 3, Vol. VII.)

"On two new Actinians from the Coast of British Columbia." (Proc. Zool. Sec., London.)

"The Nomenclature of the Carpal Bones." (Anat. Record. Vol. VIII.)

McPhedran, F.—" On the Hæmolytic Properties of Fatty Acids and their Relation to the Causation of Toxic Hæmolysis and Pernicious Anæmia." (Journal of Experimental Medicine XVIII, 527.)

In collaboration with Harold E. Orr.—" Congenital Hamolytic Jaundice." (Journal of Canadian Medical Association.)

McVicar, C. S.—"Some Psychiatric Problems from the General Practitioners' Standpoint." (Canadian Medical Association, November, 1913.)

"Pellagra." (Bulletin of Ontario Hospital for Insane, January, 1914.) In collaboration with J. M. Forster.

"The Treatment of Tabes Dorsalis and General Paresis with Salvarsan." In

- collaboration with G. Bates and G. S. Strathy. (Canadian Medical Association Journal, March, 1914.)
- Mann, R. W.—" Frontal Tumours." In collaboration with J. D. Loudon.
  - "Some Results with the Wassermann Reaction."
- Primrose, A.—"Aneurism of the Posterior Tibial Artery; Rupture of the Sac; Operation by the Matas Method."
  - "Intestinal Obstruction,"
- Robertson, L. B.—"Gas Bacillus Infection—A Report of Six Cases." (The Journal of the American Medical Association, November 1st, 1913, Vol. XLI.)
  - "The Significance of the Von Pirquet Reaction in Surgical Tuberculosis in Children." (The Boston Medical and Surgical Journal, April 2nd, 1914, Vol. CLXX, No. 14.)
  - "Traumatic Asphyxia with a Report of Six Cases." (The Canadian Medical Association Journal, June, 1914, Vol. IV, No. 6.)
- Rolph, F. W.—"The Newer Ideas of the Pathology and Treatment of Gout." (The Canadian Journal of Medicine and Surgery, November, 1913.)
  - "Gastric Hyperacidity." (The Canadian Medical Association Journal, Jan., 1914.)
- Robertson, J. H.—"The Influence of the Rate of Urine Flow on the Secretion of Uric Acid." (Amer. Journ. Physiol., Vol. XXXIII, No. 11, February 2, 1914, 324-334.)
- Rudolph, R. D.—" Bleeding in Typhoid Fever." (Amer. Journ. of Med. Sciences, January, 1914.)
  - "Epidemic Cervical Adenitis." (Brit. Med. Jour., January 10, 1914.)
  - "The Present Position of Venesection." (Can. Med. Assoc. Jour., April, 1914.)
  - "The Use of Digitalis in Practice." (Can. Lancet, April, 1914.)
  - "Heart Block." In collaboration with Dr. Loughead. (Archiv. of Diagnosis, 11, 1914.)
- Strathy, G. S.—"The Results of Treatment with Salvarsan in Late Congenital Syphilis." In collaboration with G. A. Campbell. (American Journal Diseases of Children, September, 1913.)
  - "The Treatment of Tabes Dorsalis and General Paresis with Salvarsan." In collaboration with G. Bates and C. S. McVicar. (Canadian Med. Assoc. Jour., March, 1914.)
  - "Syphilis as a Disease of the Communty." In collaboration with G. Bates. (Canadian Practitioner and Review.)
- Watson, B. P.—"Pituitary Extract in Obstetrical Practice." (Can. Med. Assoc. Jour., September, 1913.)
  - "Development of Obstetrics." (Inaugural Address to the Faculty of Medicine, Univ. of Toronto.)
  - "Primary Malignant Tumours of the Female Urethra." (Amer. Jour. of Obstetrics, May, 1914.)
  - "Perithelioma of the Uterus." (Ibid.)
  - "Case of Puerperal Streptococcal Septicemia—Recovery." (University of Toronto Medical Bulletin, 1914.)
  - "Vaginal Casarean Section in Eclampsia." (Univ. of Toronto Med. Bulletin, 1914.)
- Wilson, G. E.—"Gonorrhoal Arthritis."
  - "Hamatomyelia."
  - "Cauda Equina and Conus Injuries." In collaboration with J. D. Loudon.



# FINANCIAL STATEMENT

### APPENDIX I.

BALANCE SHEET, 30TH JUNE, 1914.

### Funds.

Datinament Fund	5,165,550 8 123,648 6 35,570 4 34,404 4 12,181 898,208 5 567 6	63 15 19 14 51
Assets.		
Site Lands, Buildings and Contents Schedule 6 \$ Unproductive Lands . " 7 Leased Properties . " 8 Investments and Cash " 9 Royal Ontario Museum " 1	5,132,399 5 59,732 2 571,647 2 255,350 2 251,002 8	21 24 21
Schedule 1.		
General Endowments Fund.		
Additions for 1913-14: Frontage license: Ellen Morgan Library proper, value of additions as per accession catalogue	\$150 (	00
Less 3% depreciation upon \$222,104.87 6,663 14	7,082 3	30
Convocation Hall Advance:  Restoration from proceeds of Wild Lands sales, eighth instalment	. 1,975 9	92
Annuity Debentures: Portion of 1913-14 instalments reducing principal: Fifth instalment of issue, July, 1909 \$6,155 04 Third instalment of issue, January, 1911 1,478 00 Third instalment of issue, January, 1911 3,411 00		
2414 1115641110110 01 15540, 04114417, 1011	11,044	04
Central Power Plant: Repayments during the year upon outlays of \$375,000.	18,945	00
Athletic Field Stadium and Equipment: Repayments upon principal during the year	3,281	32
Increased Equipment:  Household Science Building:—  Cost of construction and equipment	474,000	000
Pathological Building:—  Cost of construction and equipment	181,085	38

General Endowments Fund.—Continue	ed.	
Increased capitalization of following Park		
Leases:  Lot 33 and part 32, upon renewal \$20,600 00  Lot 31 and part 32, upon renewal 19,800 00  Part Lot 42, upon assignment of lease 2,160 00	42,560 00	
Royal Ontario Museum Investment: Amount of University's investment in site and building: Valuation of site 127, 507 sq. feet at 40c. per foot as per entry of 1912 51,002 80		
University's contribution towards erection and equipment of building 200.000 00	251,002 80	<b>\$</b> 991,127 0 <b>6</b>
· Contra.		
Central Power Plant: Additional appropriation authorized from Capital Pathological Building:	\$25,000 00	
Additional appropriation authorized from Capital	5,000 00	\$30,000 00
Fund as per return of 30 June, 1913		961,127 06 4,204,423 75
Return of 30 June, 1914		\$5.165.550 81
Schedule 2.		
Scholarship Trust Funds.		
Blake, Matriculation Mackenzie Memorial Fund McCharles Bequest James H. Richardson Research Fellowship Starr Bequest Pearson Kirkman Marfleet Fellowship George Brown, Medical Science Blake, Science and Moderns Young Memorial Fund Fulton Bequest Mary Mulock, Classics George A. Peters Scholarship A. A. A. S. Scholarship, Physics Gibson, Matriculation John Macdonald, Philosophy Moss, Classics William Mulock, Classics and Mathematics Daniel Wilson, Natural Science All Souls Historical Essay Prize Bankers', Political Science George Brown, Modern Languages William Ramsay, Political Economy Julius Rossin, German Prince of Wales, General Proficiency Chappell Prize Lyle Medal Squair French Prose Prize Reeve Scholarship Boiler Inspection and Insurance Company Scholarship Board of Trade, Commercial Kirschmann Scholarship	\$29,028 72 18,709 60 11,122 59 10,000 00 5,873 50 5,700 00 5,391 72 3,750 00 3,619 12 3,351 30 2,838 74 2,700 00 2,345 00 2,030 00 2,046 00 2,000 00 1,950 00 1,200 0	\$123,648 63
Interest written to endowments	5,296 68	

Scholarship Trust Funds.—Continue	ed.
Income from bonds, Gibson Scholarship	140 00 135 00
Receipts:	05.00
Kirschmann Scholarship	$ \begin{array}{ccc} 25 & 00 \\ 130 & 00 \end{array} $
Dale Scholarship	70 00
McCharles Bequest	10.00
	\$127,998 70
Scholarship expenditures	4,350 07
Return of 30 June, 1914	\$123.648 63
Schedule 3.	
Retirement Fund, Beneficiaries, 30 Jun	e, 1914.
R. A. Falconer	\$8,274 72
W. Lash Miller	5,543 45
T. L. Walker	4,595 87
John Galbraith	3,107 56 3.031 73
W. H. Ellis	3,031 73
J. C. Fields	1,912 94
W. A. Parks	1,801 37
J. W. Bain	1,376 66 986 67
E. M. Walker	797 59
E. G. R. Ardagh	786 74
James Christie	323 42
	\$33,310 13
Fund of 30 June, 1913	\$60,550 46
Contributions, 1913-14	4,709 16
Interest	2,598 88
	\$67,858 50
Withdrawals:	\$01,505 OV
Maurice Hutton	
J. G. Hume	
W. S. Milner	
R. W. Angus	32.288 05
Return of 30 June, 1914	\$35,570 45
Schedule 4a.	
Trust Funds.	
King Alfred Millenary Fund	\$10,204 76
Phillips Stewart Bequest	1,478 62
Mary A Simpson Regliest	1,250 51
Medical Research Fund University Studies	2,490 33
Ontario Archaeology, Special Fund	485 00
Man's Residence Deposits	1,240 00
Women's Residence Deposits	4 (2) (0)
Summer Session Deposits	30 00
Sir William Mulock	904 22
Microscopes Fund, Pathological Department	. 540 00
	\$34,404 49

Trust Funds.—Continued.				
Return of 30 June, 1913	\$32,225 522			
Receipts:  Medical Research Fund University Studies Microscopes Fund, Pathological Department Dr. James Loudon Portrait Fund Men's Residence Deposits Women's Residence Deposits	12,400 995 540 79 1,010 235	61 00 49 00 00		
Summer Session Deposits	1,465		\$49,472	58
Expenditures:  King Alfred Millenary Fund Phillips Stewart Bequest University Studies Medical Research Fund Botanic Garden Special Fund Dr. James Loudon Portrait Fund Men's Residence Deposits Women's Residence Deposits Summer Session Deposits	1,222 1,200 425 570	54 85 03 85 22 00 00		
Connell Anthracite Mining Co., Deposit	500	00	\$15,068	09
Return of 30 June, 1914			\$34,404	49
Co 1h				
Schedule 4b.  Equipment Funds.				
Pathological Building: Outlays during 1913-14, as per Appendix VI Unexpended on 30 June, 1913	\$21,344	58		
(Schedule 5a)	21,344	58		
Central Power Plant: Unexpended on 30 June, 1913	\$54,675 25,000			
Contractors' deposits refunded	\$79,675 4,165			
	\$75,510	14		
Outlays during 1913-14, as per Appendix VI	63,328	70	\$12,181	44
Museum Building: Expenditure to 30 June, 1913	\$355,563 350,000			-
Expended during 1913-14, as per Appendix VI	\$5,563 13,016			
_	<b>\$1</b> 8,580	4 %		
Payable by Provincial Government and carried temporarily in Schedule $5a$	18,580			
SCHEDULE 4c.				

### Annuity Debentures

Issue of July, 1909, \$500,000, repayable in forty equal annual amounts of \$25,260 each.

#### Annuity Debentures.—Continued. Value as on 30 June, 1914, of the (thirty-five) outstanding instal-\$471,468 01 Pathological building, \$130,000, repayable in forty equal annual amounts of \$6,568 each. Value as on 30 June, 1914, of the (thirty-seven) outstanding in-125,731 00 Accrued on 30 June, 1914, of fourth payment and charged to 3.284 00 Issue of January, 1911, under 1 George V., Cap. 80, as a grant towards construction of Toronto General Hospital, \$300,000, repayable in forty equal annual instalments of \$15,157 each. Value as on 30 June, 1914, of the (thirty-seven) outstanding in-290.147 00 7.578 50 \$898,208 51 Schedule 5a. Contingent Funds. Contingent Fund (Investment Reserve): Fund of 30 June, 1913 ..... \$22,603 15 Sundry ledger balances: 3,616 40 Superintendent's stores account (Merchandise) ..... Antitoxin Laboratory: Operating Account ...... " " Advance for Equipment ..... 820 41 4,852 18 Convocation Hall Organ: Return of 30 June, 1913 ..... Expenses of recitals and upkeep, 405 65 \$3,550 05 1,709 42 Less surplus music fees transferred .. 1840 63 18,142 73 \$4,460 12 Reserve for Contingent Capital or other Expenditure: \$36,804 15 80,000 00 \$116.804 15 Deficit upon 1913-14 Revenue Account as per Schedule 5b. charged to this ac-\$86,112 21 Pathological Building, construction and equipment (in excess of appropriation of \$180,000 charged to Capital)..... 1,085 68 87.197 89 29,606 26 \$34,066 68 Contra. Royal Ontario Museum: Returned as due by the Provincial Government on maintenance account to 30 June, 1913 ..... \$22,052 43 Received from the Government during 1913-14 ...... 22.052 43 Expenditure by the Museum Board for Salaries and Expenses, Year 1913-14... \$39,837 05 Less Special Grant from the Government 10,000 00

\$29,837 05

Contingent Funds—Contra.—Contin	ued.	
University's share (one-half) charged to Revenue,	14,918 53	
Government's share temporarily advanced by the University	14,918 52	
to 30 June, 1914, as per Schedule 4b, on account of final instalment (\$50,000)	18,580 48	
		\$33,499 00
	_	\$567 68
Schedule 5b.		
Revenue 1913-1914.		
Receipts.  Legislative Grant, University Act, 1906	Estimate. \$435,000 00 7,000 00 15,000 00	Actual. \$435,667 21 7,000 00 15,000 00
Fees, University and College, as detailed in Appendix II Interest:	275,000 00	274,938 17
On Purchase Moneys On Loans On Debentures Rentals:	3,300 00 1,700 00 11,750 00	2,391 36 1,721 12 11,178 83
University Park properties City of Toronto payment Sundry houses Business properties Sundry Earnings, Land Men's Residence Dues Women's Residence Dues Dining Hall Receipts	13,700 00 6,000 00 3,250 00 3,000 00 500 00 13,000 00 16,000 00 32,250 00	15,077 40 6,000 00 2,642 40 3,070 00 570 78 13,137 10 16,490 45 32,451 94
Central Power Plant Receipts: Royal Ontario Museum \$3,294 12 Carried in Accounts Receivable, on account of sums due by Wycliffe and Victoria Colleges, pending adjustment Sundry sales of electric power, etc. 941 82	10,000 00	18,989 38
Casual Revenue		400 81
Expenditure in excess of receipts	846,450 00 118,510 00	856,726 95 86,112 21
	\$964,960 00	\$942,839 16
Expenditures.		
1. Administration 2. Faculty of Arts 3. " Medicine 4. " Applied Science 5. " Household Science 6. " Education 7. " Forestry 8. Residences and Dining Hall 9. Royal Ontario Museum 10. Central Power Plant 11. Contingencies 12. Capital Account Charges	Estimate. \$147,150 00 296,056 00 91,942 00 152,542 00 59,850 00 12,100 00 53,685 00 15,000 00 40,000 00 5,000 00 65,930 00	Actual. \$142,673 63 294,146 31 85,833 52 148,971 56 14,039 67 58,982 48 11,850 57 53,595 57 53,595 11 14,918 53 40,006 73 504 56 65,930 00
Total as per Appendix III	\$953,460 00	\$931,452 57

### Expenditures.—Continued.

	\$964,960	00	\$942,839	16
Interest written to Trust Funds (Schedules 2, 3, and 4a)	8,500 3,000		8,417 2,968	
-				

### SCHEDULE 6.

# Site Lands, Buildings and Contents, 30 June, 1914.

Site Lands:		
2,623,521 sq. feet at forty cents per foot		
160,083 sq. feet at cost price	141,548 00	
2,783,604 sq. feet		\$1,190,956 40
1)2) 32		
Buildings: Household Science building	\$455,000 00	
Main building	450,000 00	
Chemistry and Mining, with adjacent building	384,736 89	
Physics building	363,945 85	
Library building	327,425 50	
Convocation Hall and Examination Wing	214,866 22	
Education building	184,383 47 169,694 38	
Pathological building	165,000 00	
Biological building	129,745 30	
Thermodynamics building	119,017 21	
Chemical building	77,469 88	
Engineering building	50,000 00	
Forestry building	30,101 65	
Geodetic Observatory building	12,000 27	
Men's Residences	183,521 18	
Women's Residences	60,982 59 1 00	
Y. M. C. A. building	1 00	3,377,891 39
Y there are	\$215,441 73	
Library	1 00	
Convocation Hall Organ	19,603 11	
_		235,045 84
Departmental Equipment:		
1. Faculty of Arts:		
Biological	\$6,131 25	
Mineralogical	10,145 00	
Geological	7,505 00	
Chemical	14,040 00	
Physical	$29,250 00 \\ 1,635 00$	
Astro-Physics	2,700 00	
Mathematical	500 00	
Mechanics	750 00	
Physiology	12,500 00	
Botany	5,500 00	
2. Faculty of Medicine:		
Anatomy	1,340 00	
Pathology	18,440 56	
Pharmacology	2,430 00	
Chemical Pathology	7,925 74	
3. Faculty of Applied Science:		
Electrical Engineering	30,923 00	
Thermodynamics and Hydraulics	10,000 00	
Applied Mechanics	10,075 00	
5 B.G.		
V = 101		

					-
Site Lands, Buildings and Content	s, 30 June, 1	1914.—Contin	ıue	d.	
		10111	0.0		
Applied Chemistry		10,114			
Mining		16,270	-		
Surveying		12,980			
Architecture and Drawing		10,830			
Physics and Photography		4,127	00		
4. Faculty of Household Science		19,000	00		
5. Faculty of Education					
0. 1 0.0011				\$255,111	55
Furniture and Furnishings:					
Men's Residences		\$14,266	30		
Women's Residences					
General furniture, various buildings					
				\$32,794	25
Athletic Field Stadium and equipment				35,817	88
Gymnasium equipment				1,800	
Dining Hall equipment				1	00
Printing Plant				2,981	24
Total valuation				\$5,132,399	55
			-		
Return of 30 June, 1913			• •	\$4,468,445	22
Additions therefo:					
Household Science building and equipmen	t	\$474,000	00		
Pathological building and equipment		181,085	68		
Library proper, 1913-14 additions	\$13,745 44				
Less depreciation at 3 per cent. upon					
\$222,104.87	6,663 14				
No A Oussella Doubt		7,082	30		
Women's Residence, No. 4 Queen's Park:	¢4 000 00				
Cost of alterations	\$4,908 82 3,839 32				
and furnishings	5,000 02				
	\$8,748 14				
Less received from Government in lieu of repairs after occupation	800 00				
repairs after occupation					
	\$7,948 14				
Entered in 1912-13	2,498 50	F 440			
-		5,449	64	665 617	CO
	_			667,617	62
				\$5,136,062	84
Contra					
Printing Plant:					
Written off by transfer from operating	\$5,784 32				
account	3,501 83				
Less additions to plant during 1913-14	3,301 83	\$2,282	49		
		Ψ4,202	10		
,					
Women's Residences Furnishings Account: Written off by application of amount rece	ived during				
the year from sales of Wild Lands so	ot apart for				
Women's Residences	apart 101	1,380	80		
Women's itesidences	-	2,000	_	3,663	29
To 1			-	\$5,132,399	55
Return of 30 June, 1914			-	φυ,1ο4,099	=

200 00

\$529,391 47

\$529,087 24

304 23

\$37,184 75

96,916 96

\$59,732 21

### SCHEDULE 7.

### Unproductive Lands.

Vacant land in Port Hope ......\$8,445 00

Received as compensation from G. T. R., for closing and diversion of streets

Return of 30 June, 1913 .....

Decrease in outstanding rentals .....

Vacant land in Belleville Endowment lands unsold in various townships U. C. C. Block on King Street		1,283 00 152 00 49,852 21	\$59,732 <b>21</b>
Transactions,	1913-14.		
Upper Canada College Block: Sale during the year Less Commission	\$37,500 00 937 50		
Taxes paid for 1911, 1912 and 1913, $re$	<b>\$</b> 36,562 50		
widening of Duncan Street	182 75	\$36,379 75	
Port Hope Lots: Sales during the year Belleville Lots:		605 00	

# 

Return of 30 June, 1913 .....

### Leased Lands, etc.

,				
Victoria College Site Knox College Site Wycliffe College Site Land leased to City of Toronto Park Land Leased Toronto business properties:	\$1 4,714 22,000 120,000 300,208 61,400	40 00 00 00		•
Caradoc Farm	2,400	00	\$510,7 <b>2</b> 3	10
	040450		\$010,725	40
House and land, 47 St. George Street	\$10,172			
House and land, 69 St. George Street	20,000			
Building, No. 8 University Crescent	14,842			
Building, No. 719 Spadina Avenue	4,000			
Building, No. 721 Spadina Avenue	4,023	51		
_			53,039	21
Rentals accrued but not due	\$8,816	54		
City of Toronto payment accrued	1,500	00		
Wycliffe College pavement	689			
_	\$11,005	88		
Park rentals paid in advance	3,121			
	-,	_	7,884	63
			\$571,647	24
		75	A	_

## Leased Lands, etc.—Continued.

Addition to capitalized value consequent upon renewals of the following leases, University Park Lots:	
Lot 33 and North half Lot 32 \$20,600 00  Lot 31 and South half Lot 32 19,800 00  Part Lot 42 2,1,60 00	2,560 00
	\$571,647 24
Schedule 9.	
Investments, 30 June, 1914.	
	6,023 24 5,383 65 
Loans secured by mortgages on real property \$2  Interest accrued but not due	1,147 99 251 55
Unpaid purchase money upon land sales	356 22
Dominion Power and Transmission Co., shares	62,456 22 2,000 00
	5,230 74 99 70 839 80 568 87 30 00
Central Power Plant: Amount outstanding in Accounts Receivable on 30	6,769 11
June, 1913	0,432 69
fund as per agreement	
Share of operating expenses	
\$9,055 72  Received from Wycliffe on account: In 1911-12	
3,900 00	
Received in 1913-14, being balance in full to 30 June, 1913	5,155 72
\$	5,276 97
Assumed on account of the portion due by Victoria and Wycliffe Colleges to 30 June, 1914 subject to adjustment	4,753 44
	\$20,030 41
Less Overdraft at Canadian Bank of Commerce	\$394,062 17 138,711 96
	\$255.350 21

### Transactions 1913-14.

### Inwards.

Debenture collections  Mortgage loans repaid  Purchase money collections  Withdrawals from Canadian Bank of Commerce  Decrease in accrued revenue	\$16,060 33 11,887 21 38,031 25 1,151,540 68 1,824 16	\$1,219,343 63
		φ1,210,010 00
Outwards.		
Debentures purchased	\$832 14 38,105 00 1,108,271 21 2 12,083 79	1,159,292 14
Return of 30 June, 1913	_	\$60,051 49 315,401 70
Return of 30 June, 1914	-	\$255,350 21

## APPENDIX II.

## Fees, 1913-14.

Total of fees collected, 1913-14	287,511	59
Sundry refunds during year		
Matriculation fees		
Toronto General \$4,650 00		
St. Michael's 1,335 00		
7,000 00		
Paid to Hamilton Conservatory of Music, re local		
examination candidates from that centre 48 00		
	10,864	00
e	276,647	50
φ	210,041	
Carried to Revenue, 1913-14 (Schedule 5b)	274,938	17
	214,500	11
Carried to Convocation Hall Organ Fund (Schedule 5a), being surplus		
fees derived from Local Examinations in Music after payment of	4 = 4 = 4	
expenses	1,709	42
The state of the s		
1. · · · · · · · · · · · · · · · · · · ·	276,647	59

Details of Fees Received, 1913-14.

Subject.	1st year.	2nd year.	3rd year.	4th year	5th year.	Miscel- laneous.	Total.
I. Faculty of Arts: Tuition Dispensations (University	\$ c. 11,896 00	\$ c. 8,358 00	\$ c. 7,166 00	\$ c. 7,536 00	\$ c.	\$ e. 1,388 00	\$ c. 36,344 00
College)  Dispensations (University) Post Graduate Registra-		15 00 20 00	25 00	35 00		• • • • • • •	55 00 80 00
tion Honor Certificates Matriculation Ad Eundem		40 00		2 00			83 00 1,402 00
Examinations Degrees Laboratory Supplies	5,304 00	5,664 00 631 00	5,767 00 595 00	4,899 00 3,110 00 631 00			$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Library	1,080 00				• • • • • • • •	12 00 61 00	3,160 00 465 00
(including lockers) Penalties for late registration	216 00	184 00	116 00	116 00		111 50 280 50	743 50 280 50
	19,101 00	15,816 00	14,478 00	17,080 00		5,132 00	71,607 00
Post Graduate Registra-	16,030 50	-					
tion	20 00					5 00	135 00 10 00 25 00 10 00
Examinations  Degrees  Laboratory Supplies	1,190 00	968 00	354 00	1,607,00	1,021 00	$     \begin{array}{ccc}       180 & 00 \\       320 & 00     \end{array} $	6,435 00 2,060 00 4,052 00
Library	240 00 20 00	176 00 12 00		220 00	178 00	33 00	1,050 00
Gymnasium, Women's (including lockers) Microscopes Account		4 00	4 00	• • • • • • • •	• • • • • • • •	180 00	8 00 180 00
	18,470 50	13,929 00	15,246 00	14,349 00	13,732 00	2,544 00	78,270 50

# Details of Fees Received, 1913-14.—Continued.

Subject.	1st yea	r.	2nd	yea	r.	3rd	уза	ır.	4th	yea	ar.	5th	year		sce	el- us.	Tota	1.
III. Faculty of Applied Science:	\$	e.		\$ (	e.		\$	c.		\$	c.		\$е.		\$	c.	\$	c.
Post Graduate Registra-	12,373	00	12,2	250 5	50	18,4	89	00	17,	367	00	• • •	• • • • •	2		00	60,749	
tion. Matriculation. Examinations Degrees Ad Eundem Library	1,462		1,8	10 (883 (	00		40 20		2, 1,		00 00			1	20 70 30	00 00 00	65 $8,426$ $1,672$	00
Gymnasium, Men's	$\frac{.68}{14,221}$	00		40 (	00			00				-						50
IV. Faculty of Household Science:															_			
Tuition and Class Material Examinations Gymnasium														. 1	50	00 00 00	150	00 00 00
														2,5	97	00	2,597	00
V. Faculty of Education:		,			1													
Tuition (Teachers in training)														3	64	00 00 00	6,557 364 16	
														6,9	37	00	6,937	00
University Schools:	`	_	_		_			_		_					_			_
Tuition		<b>.</b>												23,5	564	00	23,564	00
														30,	501	00	30,501	00
VI. Faculty of Forestry:								_	_		_	_				_		
Tuition Examinations Laboratory Supply Library Gymnasium Degrees	1,091 200 160 40 8	$00 \\ 00$		80 ( 20 ( 16 (	00 00 00		90 80 64 16	$\begin{array}{c} 00 \\ 00 \end{array}$		81 48 12	00 00 00				41 8 4	00 00 00 00	24	00
	1,499	00	- {	355 (	00	6	50	00		643	00			1	95	00	3,842	00
VII. University Extension: Summer Session, 1913— Tuition					7									4 1	20		4 120	
Correspondence Courses														4,1			4,129 1,190	
		• • •	• • • •			• • • •		• • •	• • •			• • •		5,3	19	59	5,319	59
Teachers' Course—		8										•						
Tuition Examinations	•••••				1	• • • •				• • • •					20	00 00		00
	•••••	• • •		• • • •	• •	• • • •	• • •	• • •	• • •	• • •		•••	• • • • •	5,3	84	59	5,384	59

			Mu	sic.					
VIII. Departmental Fees.	Law.	Dentistry.	Mus. Bac.	Local.	Pharmacy.	Veterinary Science.	Agriculture.	Total.	
Matriculation Examinations Degrees Honor Certificates Laboratory Instruct n Gymnasium Ad Eundem		\$ c. 240 00 820 00 675 00 	30 00	\$ c. 2,447 00 498 00 2,945 00			510 00 410 00 5 00	20	00 00 00 00 00 00
		Summe	ary of F	ees, 1913	-14.				
I. Faculty of Ar First year . Second year Third year Fourth year Miscellaneou  II. Faculty of Med First year . Second year Third year Fourth year Fifth year	s					\$19,101 15,816 14,478 17,080 5,132 \$18,470 13,929 15,246 14,349 13,732	00 00 00 00 00 	71,607	00
Miscellaneou						2,544		78,270	50
III. Faculty of App First year Second year Third year . Fourth year Miscellaneou	• • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • •	\$14,221 14,467 21,474 21,634 595	50 00 00	72,391	50
IV. Faculty of How Miscellaneou						\$2,597	00	,001	
						¥ =,00 T	<del></del>	2.597	00
V. Faculty of Ed Teachers in University	trainin					\$6,937 23,564		30,501	00
VI. Faculty of Fo First year . Second year Third year Fourth year Miscellaneou					• • • • •	\$1,499 855 650 643 195	00 00 00	3,842	00

2,327 00

30,121 00 2,771 00

5,364 59

\$276,647 59

#### Summary of Fees, 1913-14.—Continued. VII. University Extension: \$5,384 59 5,384 59 VIII. Departmental: \$930 00 2,509 00 3,085 00 962 00 Veterinary Science ..... 3.643 00 925 00 12,054 00 \$276,647 59 Classification of Services. Tuition Fees: Arts, \$36,344.00; Post Graduate, \$70.00 ..... \$36,414 00 Medicine, \$64,196.50; Post Graduate, \$135.00 ..... 64,331 50 60,754 50 Applied Science, \$60,749.50; Post Graduate, \$5.00 .... 2,327 00 6,557 00 23,564 00 2,771 00 135 00 Honor Certificates ..... 612 00 2,222 00 Ad Eundem ..... 170 00 43,821 00 9,262 00 Laboratory Supplies ..... 6,692 00 Laboratory Instruction ...... 3,960 00 Library ..... 5,544 00 1.685 50 University Extension ..... 5,364 59 280 50 Penalties for late registration ..... 180 00 \$276,647 59 Recapitulation. \$74,579 00 University Fees proper ..... University College Fees proper ..... 36,399 00 64,331 50 60,754 50

Education, including University Schools .....

### APPENDIX III.

Revenue Expenditures, 1913-14.

	Appropriation.	a-	Supplem ary.		Unuse	đ	Total.	
I. Administration:	(1021,		ar j .		011450	a.	100011	
1. Salaries	\$63,345	00			\$537	22	\$62,807	78
2. Pensions	5,500	00					5,500	00
3. President's Office	250	00			43	84	206	16
4. Bursar's Office	1,500	00			14	75	1,485	25
5. Registrar's Office	4,000	00			165	07	3,834	93
6. Superintendent's Office	650	00			0	04	649	96
7. Library	15,725	00			21	92	15,703	08
8. Museum								
9. Gymnasium and Students'								
Union	5,855	00			454	56	5,400	44
10. Convocation Hall	2,150	00			129	79	2,020	21
11. Grounds	11,800	00	1,476	0.0			13,276	00
12. Examinations	16,750	00			2,243	48	14,506	
13. Convocation Expenses	1,000	00	136	15			1,136	
14. Receptions	1,250	00			560		689	
15. Telephones	2,775	00			32		2,742	
16. Insurance	8,000	00			7'93		7,206	
17. Advertising Expenses	1,000	00			66	72	933	28
18. Aid to Publications and							070	
Societies	600	00	250	00			850	
19. University Studies	2,000	00					2,000	
20. Law Costs	1,000	00			708		291	_
21. General Incidentals	2,000	0;0			694	45	1,305	
22. Senate Elections			128	75			128	19
-	0145150		e1 000	00	\$6.467	27	\$142,673	63
	\$147,150		\$1,990	<i>3</i> ()	φυ, <del>1</del> υτ		ψ11 <b>2</b> ,010	
II. Faculty of Arts:								
23. Salaries	\$244,041	0.0			\$1.461	26	\$242,579	74
24. Retiring Allowances	3,750				1 /		3,750	
25. Main Building	8,225		\$311	62			8,536	62
26. Biological Building and De-	0,2-0		4					
partment	5,800	00	243	91			6,043	91
27. Sub-Department of Botany	4,025		1	52			4,026	52
28. Bio-Chemistry	1,500	00			107	35	1,392	65
29. Physiological Department	1,750	00	348	99			2,098	99
30. Chemical Building and De-								
partment	4,320	00			107	42	4,212	58
31. Sub-Department of Physical								
Chemistry	500	00			4	27	495	73
32. Physics Building and De-								
partment	7,875	0.0			452	57	7,422	43
33. Sub-Department of Astro-								20
Physics	1,050					32	1,040	
34. Geological Department	550					85	532	
35. Mineralogical Department .	800	00				56	793	
36. Psychological Department .	700				115		584	
37. Mathematical Department		00				20		80
38. Sub-Department of Mechanics	375				62	20	312	- 4
39. Political Science	150		1	24		0.1		24 19
40. History		00				81		75
41. Italian and Spanish		00			24	25	25	10
42. University College Depart-					504	40	1,455	58
ments	1,990		4.0	0.0	534	42		89
43. World History		00		89				36
44. Trinity College Service	750		44	36	0	71	7,690	
45. University Extension	7.700	00				11		
	\$296,056	00	\$968	53	\$2,978	22	\$294,046	31
	<b>T</b>							

# Revenue Expenditures, 1913-14.—Continued.

III Faculty of Madiaina	Appropr tion.		Suppler ary		Unuse	ed.	Total	
III. Faculty of Medicine: 46. Salaries 47. Retiring Allowances 48. Anatomy 49. Pathology and Bacteriology 50. Chemical Pathology 51. Pharmacy and Pharmacology 52. Medicine 53. Surgery 54. and 55. Obstetrics and Gynæ-	\$67,175 2,800 2,750 1,850 1,200 480 1,000 575	00 00 00 00 00 00	\$61 4 131	47	\$4,709 182 362 337	59 95	\$62,465 2,800 2,567 1,911 1,204 611 637 237	00 41 99 47 17 05
cology  56. Ophthalmology  57. Oto-Laryngology  58. Therapeutics  59. Hygiene  60. Medical Jurisprudence  61. Medical Building  62. Pathological Building  63. General Expenses	850 100 587 75 225 50 3,550 6,225 2,450	00 00 00 00 00 00 00	13 295		189 3 50	00 60 35 00 92	397	00 40 65 24  08 12
	\$91,942	00	\$505	99	\$6,514	47	\$85,933	52
IV. Faculty of Applied Science: 64. Salaries 65. C. & M. Building 66. Engineering Building 67. Thermodynamics Building 68. Geodetic Observatory Building 69. Electrical Engineering 70. Mechanical Engineering 71. Applied Mechanics 72. Mining Engineering 73. Metallurgical Engineering 74. Ferro-Metallurgy 75. Surveying 76. Applied Chemistry 77. Electro-Chemistry 78. Architecture and Drawing 79. Engineering Physics and Photography 80. General Expenses	\$115,300 5,275 3,992 1,550 450 4,100 2,900 1,200 2,300 270 1,110 2,750 1,550 2,560 2,585 1,250 \$152,542	00 00 00 00 00 00 00 00 00 00 00 00 00	\$4 205 5	55	242 28 22 247	72 19 83 69 63 41 66 10 79 81 84 85 80	\$113,477 5,279 3,749 1,755 421 4,077 2,652 1,205 3,398 2,205 138 920 2,725 1,510 2,317 2,020 1,118 \$148,971	21 28 09 81 17 31 55 37 59 34 90 21 19 16
V. Faculty of Household Science: 81. Salaries	\$8,800 5,405 \$14,205	00	\$300 \$300		\$465 \$465		\$9,100 4,939 \$14,039	67
VI. Faculty of Education: 83. Salaries	\$45,600 14,250 \$59,850	00			\$33 833 \$867	84	\$45,566 13,416 \$58,982	16

\$9,200 00

Revenue Expend	itures, 19	13-1	4.—Continued				_
	Appropr	ia-	Supplement-				
JIII Ecoulty of Horostry.	tion	•	ary.	Unus	ed.	Total	
VII. Faculty of Forestry:  85. Salaries		00				\$8,750	00
partment	3,350	00		\$249	43	3,100	57
-	\$12,10	0 00		249	43	\$11,850	57
VIII. Residences and Dining Hall: 87. Men's Residences 88. Women's Residences 89. Dining Hall	\$6,305 15,130 32,250	0.0	\$163 24 183 57	\$436	80	\$5,868 15,293 32,433	24
	\$53,685	00	\$346 81	\$436	80	\$53,595	01
IX. 90. Royal Ontario Museum	\$15,000	00		\$81	47	<b>\$1</b> 4,918	53
X. 91. Central Light, Heat and Power Plant		00	\$6 73			\$40,006	73
XI. 92. Contingencies	\$5,000	00		\$4,495	44	\$504	56
XII. 93. Capital Account Charges	\$65,930	00				\$65,930	00
$R\epsilon$	ecapitulat	ion.					
I. Administration II. Faculty of Arts III. Faculty of Medicine IV. Faculty of Applied Science V. Faculty of Household Science VI. Faculty of Education VII. Faculty of Forestry VIII. Residences and Dining Hall. IX. Royal Ontario Museum X. Central Light, Heat and Power Plant XI. Contingencies XII. Capital Account Charges	\$147.150 296,056 91,942 152,542 14,205 59,850 12,100 53,685 15,000 40,000 5,000 65,930	00 00 00 00 00 00 00 00 00	\$1,990 90 968.53 505 99 214 85 300 00 346 81 6 73	4,495	22 47 29 33 52 43 80 47 44	\$142,673 294,046 85,933 148,971 14,039 58,982 11,850 53,595 14,918 40,006 504 65,930 \$931,452	31 52 56 67 48 57 01 53 73 56 00
				\$22,007	43		
	\$22,007	43—			_		
Total Expenditure under appropriations	\$931,452	57					
	MINISTRA						
	. sauarie. ident's C						
Dr. R. A. Falconer, President, 12 mos. Miss A. W. Patterson, President's Secret	to 30th J	une	30th June	\$8,000 1,200		\$9.200	00

### 1. Salaries.—Continued.

### Bursar's Office.

Dursar's Onice.		
F. A. Mouré, Bursar, 12 mos. to 30th June T. A. Reed, Acountant, 12 mos. to 30th June H. J. Bolitho, Fees Clerk, 12 mos. to 30th June W. R. Hamilton, Assistant Accountant, 12 mos. to 30th June Miss A. M. Gall, Clerk and Stenographer, 12 mos. to 30th June Miss K. W. Huntington, Voucher Clerk, 12 mos. to 30th June C. E. Higginbottom, Office Assistant, 12 mos. to 30th June Miss E. B. Goodwin, Clerk and Stenographer, 12 mos. to 30th June	\$3,500 00 1,700 00 1,500 00 900 00 900 00 800 00 650 00	210 200 00
		\$10,500 00
Registrar's Office.		
J. Brebner, Registrar, 12 mos. to 30th June	\$3,000 00 1,500 00 850 00	
Miss N. MacKenzie, Minute Clerk, 12 mos. to 30th June	650 00	
Stenographers, each 12 mos. to 30th June:  Miss M. McMillan  Miss A. S. Meen  Miss E. M. Sharpe	650 00 650 00 550 00	
Miss J. R. White	550 00	
Miss H. Bartlet, Clerk of Records, 1st to 24th July, at \$525 per annum (resigned)	35 00	
annum	368 28	**********
_		\$8,803 28
Superintendent's Office.		
G. Campbell, Superintendent of Buildings and Grounds, 12 mos.		
to 30th June	\$2,900 00 1,700 00	
Miss Ada Kidd Miss G. Hagen	675 00 650 00	
Clerks: W. L. D. Carnie, 12 mos. to 30th June H. Dickson, 1st July to 30th November at \$7 per week,	675 00	
\$136; 1st December to 30th June at \$8 per week, \$261.33	397 33	0.007.00
Library.		\$6,997 33
H. H. Langton, Librarian, 12 mos. to 30th June	\$3,000 00 1,000 00	
Miss E. Creighton	$750 00 \\ 750 00$	
Miss H. Fairbairn Miss G. Cayley	650 00	
Miss J. Forrest	650 00	
Mrs. A. C. Jones	$650 00 \\ 650 00$	
Miss H. G. B. Woolryche	1,000 00	
Assistant Cataloguers, each 12 mos. to 30th June:	222 22	
Miss E. V. Bethune	800 00 650 00	
Miss M. E. L. Thompson	550 00	
Miss L. M. Mason, Order and Accession Clerk, 12 mos. to 30th	750.00	
June	750 00	
Miss M. L. Newton	550 00	
Miss M. Lowe	550 00	
S. H. Fussell, Attendant (with rooms, heat and light as Caretaker of building), 12 mos. to 30th June	700 00	
		\$13,650 00

## Salaries.—Continued.

	Museum.		
C.	T. Currelly, Director of Archaeological Section, 12 mos. to 30th June	\$3,000 00	ee 000 00
	Gymnasium.		\$3,000 00
	W. Barton, Physical Director and Secretary of Athletic Directorate, 12 mos. to 30th June	\$2,200 00 1,100 00	\$3,300 00
	General Service.		
W.	Martin, Bedel, 12 mos. to 30th June	\$1,220 00 1,150 00	
Ni	J. Christie, 12 mos. to 30th June, \$1,100; allowance towards pension fund, \$100	1,200 00 750 00 750 00 750 00 725 00	
	D. Black, 12 mos. to 30th June	700 00 320 87	
	w. May, 16th March to 30th April at \$600 per annum, \$75; May-Jne, 1 19-30ths mos. at \$700 per annum, \$95.28	177 02 170 28	
	Occasional service, relieving, etc.:  J. Prattis, \$164; J. Dawson, \$15; F. J. Nicholson, \$10;  J. Bradley, \$5	194 00	\$7,357 17
			\$62,807 78
	2. Pensions.		\$62,807 78
Jan	2. Pensions. nes Loudon, LL.D., annual pension	\$5,500 00	\$62,807 78 \$5,500 00
Jan		\$5,500 00	
	nes Loudon, LL.D., annual pension	\$5,500 00 \$3 50 94 40 24 61 83 65	\$5,500 00
Offic	3. President's Office.  ce supplies, postage, printing and incidentals (\$206.16): Annual Review Publishing Co., review 1912  Wm. Briggs, printing report  President R. A. Falconer, for sundry disbursements University Press, printing and stationery  4. Bursar's Office.	\$3 50 94 40 24 61	
Office	annual pension	\$3 50 94 40 24 61	\$5,500 00

### 5. Registrar's Office.

5. Registrar's Office.		
Office supplies and stationery (\$661.73):     City Storage Co., cartage     F. C. Flannery, envelope sealer     F. W. Harbord, rubber stamps     Lake Simcoe Ice Supply Co., ice     Might Directories, Ltd., city directory     National Typewriter Co., repairs     Office Specialty Mfg. Co., card cabinet and supplies     Photography, Dept. of, slides     C. M. Seeber, pencil sharpener     Students' Book Dept., books     United Typewriter Co., typewriter, \$100; inspection, \$9.     University Press, stationery and supplies     Superintendent's Dept., labor, \$1.68; material, 77.  Postage (\$1,000.00):     The Bursar, postage supplied     Printing, other than Calendar (\$262.65):     University Press, printing	\$2 20 2 50 3 75 5 71 10 00 24 75 68 77 85 6 90 3 05 109 00 421 80 2 45 1,000 00	
Printing Calendar and Curricula (\$1,865.55): University Press	1,865 55	
Clerical Assistance (\$45.00): Miss Helen Bartlet, 3 weeks	45 00	\$3,834 <b>93</b>
6. Superintendent's Office.		ψ0,001
Office supplies, postage, printing and incidentals (\$649.96): The Bursar, postage supplied Canada Stamp & Stencil Co., rubber stamp Copeland-Chatterson Co., supplies T. Eaton Co., overalls Engineering Society, instruments Grand & Toy, blank books Lake Simcoe Ice Supply Co., ice Macey Office Equipment Co., inkstand Might Directories, Ltd., city directory Office Specialty Mfg. Co., office furnishings and supplies. Photography, Dept. of, slides Remington Typewriter Co., typewriter, \$50; inspection, \$4.50 Students' Book Dept., books United Typewriter Co., inspection University Press, stationery and supplies Freight charges Petty items (5) Superintendent's Dept., material	\$0 00 2 82 23 43 -2 50 9 65 3 00 4 31 4 72 10 00 30 26 3 05 54 50 19 80 9 00 388 20 2 98 5 32 92	
Less sundry credits	\$654 46 4 50	\$649 <b>96</b>
7. Library.		
(a) Maintenance of Building:  Heat and Light (supplied from Central Power Plant:		•
Gas (\$109.62):	\$109 62	
City Treasurer	36 47	
Superintendent's Dept., material  Cleaning (\$568.46): Allen Manufacturing Co., laundry	54 01 5 89	

## 7. Library.—Continued.

Canadian Window Cleaning Co., cleaning windows Superintendent's Dept., labor	24 10 538 47 6 99	
Wm. Card, exterminating rats City Treasurer, elevator license A. Matthews, Ltd., repairs to roof Routery Bros., plastering	12 00 5 00 138 98	
Superintendent's Dept., labor. \$438.23; material, \$286.45	15 00 724 68	
Less sundry credits	\$1,671 21 1 00	\$1,670 21
(b) General Library Appropriation:		φ1,010 21
Books and Periodicals, binding and office supplies (\$14.032.87):	25 00	
American Association of Labor Legislation	\$5 03 1 53	
American Historical Review	3 00	
American Institute of Electrical Engineering	2 03 5 03	
American Railway Engineers' Association	12 12	
American Society of Mechanical Engineers	$\begin{array}{ccc} 15 & 10 \\ 12 & 63 \end{array}$	
Archaeological Institute of America	2 28	
Bibliotheque-Civique, Montreal	2 75	
Boston Book Co.  Boston Society of Natural History	7 48 16 76	
Albert Britnell	40 40	
F. A. Brockhaus	5,215 $53$ $9$ $01$	
Burlington Fine Arts Club	16 10	
Canada Law Book Co. Miss W. M. Cartwright	$18 00 \\ 24 00$	
C. D. Cazenove & Son	1,727 63	
Honoré Campion	4 10	
The Century Co.  Arthur H. Clark & Co.	$     \begin{array}{r}       40 \ 52 \\       4 \ 03     \end{array} $	
T. & T. Clark	5 60	
Wm. Dawson & Son H. J. Elwes	$78 10 \\ 10 22$	
Gustav Fock	27 29	
R. Friedlander & Sohn	16 43	
Gauthier-Villars	$\frac{48}{35} \frac{40}{95}$	
A. Hermann & Fils	77 05	
J. C. Hinricks  Johns Hopkins Press	$\begin{array}{ccc} 18 & 29 \\ 2 & 53 \end{array}$	
International Congress of Americanists	5 03	
International Electrical Congress International Magazine Co.	16 10 11 10	
T. O'Neill Lane	3 70	
Libreria Internazionale	213 45	
Leo Liepmannssohn	1790 $2187$	
B. Login & Son	32 30	
Luther Burbank Society	80 15 6 50	
Mississippi Valley Historical Association	13 13	
National Municipal League	5 03	
National Short Ballot Association Thos. Nelson & Sons	$\begin{array}{c} 93 \\ 10 \ 06 \end{array}$	
Ontario Library Association	2 00	
Revue Economique Canadienne E. Garcia Rico	80 3 <b>9</b> 79	
The School	2 50	ø
J. Springer	5 50	
6 В.С.		

## 7. Library.—Continued.

1. Biorary.—Continued.		
G. E. Stechert & Co. Students' Book Department Superintendent of Documents, Washington J. Terquem M. Thordarson T. Fisher Unwin University of Chicago Press University of Pennsylvania Museum A. Vincent Geo. Wahr Wilson & Lafleur H. W. Wilson Co. Wistar Institute of Anatomy and Biology The Bursar, postage supplied The Librarian, disbursements: book deposits refunded, \$118.50; car tickets and sundries, \$12.91; to be accounted for in 1914-15, \$26.15 Canada Furniture Manufacturers, chair Canada Stamp & Stencil Co., rubber stamp T. Eaton Co., furnishings Library Bureau of Canada, cards Might Directories, Ltd., city directory Office Specialty Mfg. Co., furniture, etc. Remington Typewriter Co., typewriter, \$101.97; inspection and supplies, \$26.75 Miss H. G. Woolryche, preparation of joint catalogue. United Typewriter Co., inspection University Press, binding, \$2,448.90; printing and stationery, \$294.04 Freight charges Superintendent's Dept., labor, \$230.28; material, \$90.65; shelving transferred from No. 4 Queen's Park, \$17.00.	1 38 5 251 2 7 6 37 178 157 8 3 11 6 10 15	75 6 06 6 92 6 11 8 88 8 99 6 28 6 55 7 75 6 94 7 18 8 00 7 56 8 80 9 00 2 25 9 00 9 00 9 31 7 2 9 00 9 00 9 4 4 3
-		
Less balance in Librarian's hands from 1912-13, \$32.80; graduates' deposits, \$193.50; fines, \$180.90; replacement of books lost, \$114.37; Education Department's share of joint catalogue, \$100.00; subscriptions to and sales of books, etc., \$47.80	\$14,702 669	
-	<del></del>	\$14,032 87
		\$15,703 08
9. Gymnasium and Students' Union.		
(a) Maintenance of Building (temporary structure):		
Fuel (\$734.92): Connell Anthracite Mining Co	\$734	92
Water (\$118.87): City Treasurer	118 8	87
Caretaker's Supplies (\$12.66): Superintendent's Dept., material	12 (	66
Cleaning (\$378.51): Superintendent's Dept., labor	378 8	
Repairs and Renewals (\$226.93): Superintendent's Dept., labor, \$149.98; material, \$76.95	226 9	93
Less sundry credits: cleaning, \$10.00; repairs, \$16.53.	\$1.471 8 26 5	
Caretaker, Geo. Hare, 12 months to 30th June	\$1,445 3	
- Careadaer, Geo. Hare, 12 months to soun June	800 0	\$2,245 36

#### 9. Gymnasium and Students' Union.—Continued. (b) Aid to Athletics: Grant to Athletic Association (\$800.00): \$800 00 University Athletic Association ..... Gymnastic Appliances (\$157.16): 20 87 Burroughs, Wellcome & Co., surgical case ..... Wm. Cane, apparatus ..... 10 70 G. H. Corsan, water wings ..... 15 00 14 03 Ingram & Bell, surgical supplies ..... 22 00 National Sporting Goods Co., apparatus ..... 74 56 Harold A. Wilson Co., apparatus ..... Instruction in Swimming (including women students), (\$900.00): G. H. Corsan, services as instructor ..... 900 00 Physical Instruction to Women Students (\$1,197.92): 800 00 Miss Ivy G. Coventry, instructress ..... Dr. Helen MacMurchy, examiner ..... 200 00 Bell Piano Co., piano rental for physical culture classes 41 50 Miss A. Roberts, pianist ..... 64 00 University Women's Athletic Association, allowance for 40 75 expenses re athletics ..... Victoria College Athletic Club, allowance for expenses re athletics (including \$10.00 overpaid, refunded 47 22 Superintendent's Dept., labor, \$4.05; material, .40.... Grant to Rifle Association (\$100.00): 4 45 University Rifle Association ..... 100 00 \$3.155 08 \$5,400 44 10. Convocation Hall. Heat and Light (supplied from Central Power Plant): Water (\$42.26): City Treasurer ..... \$42 26 Caretaker's supplies (\$139.48): Superintendent's Dept., material ..... 139 48 Cleaning (\$558.22): Allen Manufacturing Co., laundry ..... 3 24 5 00 Canadian Window Cleaning Co., cleaning windows..... 549 98 Superintendent's Dept., labor ..... Repairs and Renewals (\$867.73): 12 00 Wm. Card, exterminating rats ..... 8 15 Routery Bros., repairs to plastering ..... Robert Simpson Co., flags ..... 10 00 Superintendent's Dept., labor, \$427.37; material, \$410.21... 837 58 \$1,607 69 Caretaker, S. J. Apted, 12 months to 30th June (with house. 700 00 heat and light) ..... \$2,307 69 287 48 Less amounts received from societies, etc. (net)..... \$2,020 21 11. Grounds. Labor, gravel, roadways, granolithic walks, flowers and shrubs (\$11,189.12): \$21 43 Aikenhead Hardware, Ltd., tools ..... 2,036 32 Asphaltic Pavement Co., pavements ..... Auburn Nurseries, Ltd., plants ..... 31 46 Britnell & Co., cement ..... 9 25 Brobst Forestry Co., tree surgery ..... 212 32

Canadian Davey Tree Expert Co., tree surgery .....

Carter's Tested Seeds, seeds and fertilizer .....

267 35

178 13 14 00

45 29

### 11. Grounds.—Continued.

11. Grounds.—Continued.				
G. Duthie & Son, repairs to workshop F. J. Grootendorst & Son, seeds Rice, Lewis & Son, tools Massey-Harris Co., tarrow J. H. McCabe, fodder Ontario Lime Co., cement Patterson, Wylde & Co., grass seed Planet Bicycle Co., repairs to messenger's bicycle Geo. L. Plumb, plants Norman Porter, hay R. Robertson & Sons: Concrete walks and pavement \$389 26 Culverts and drains \$222	52 4 26 70 6 59 6	04 20 19 00 46 13 38 00 00 00	ı	
Stone and gravel 176 25  Routery Bros., repairs to workshop  J. Sercombe, sod Steele, Briggs Seed CQ., implements and seeds W. H. Thomson, teaming Freight charges Petty items (6) Superintendent's Dept., labor, \$5,678.43; material, \$454.09.	39 68 1,336 27	00 00 75 05 47 79		
Less received for cartage, \$31.20; snow removal, \$22.60; fence repairs, \$71.92; sale of material, \$55.90; City of Toronto, excavation, \$34.05; Toronto Police Association, re review, \$8.47	\$11,413 224 \$11,189	14		
Foreman Gardener, G. Trotter, 12 months to 30th June Protective Service (\$254.07), additional to constables on salary list: A. W. Linnington, summer constable, 4 months Wm. May, 11 days Wm. Whittaker, ½ month Malcolm McBain, uniforms Superintendent's Dept., flashlight	\$800 116 21 25 93	68 <b>39</b> 00		
Less credit	\$258 4 \$254	00		
Transfer of workshops (\$532.81):  R. Robertson & Sons, alterations	163 369	63		
account), \$250	500		\$13,276	0

### 12. Examinations.

NAME.	Remuneration as Examiner.	Expenses,	Presiding Examiner.	Attendant.	Total,
Abbott, A. H	\$ c. 22 25	\$ c.	\$ c. 7 50	\$ c.	\$ c. 29 75
Adams, O. F			7 50		7 50
Adams, W. M	20 00 36 75				20 00
Aitken, W. E. M					36 75 13 50
Aldous, J. E. P	30 00 37 50	13 00			43 00
Allan, F. B	17 50				37 50 17 50
Allan, R. J.	15 67		7 50		7 50
Amyot, J. A	36 25				$\begin{array}{c} 15 & 67 \\ 36 & 25 \end{array}$
Angus, R. W	21 25 26 75		• • • • • • • • • • • •		21 25
Ardagh, E. G. R	5 75				$     \begin{array}{r}       26 & 75 \\       5 & 75     \end{array} $
Atkinson, G. D	57 60 34 75	28 55	91.00		86 15
Auger, C. E	94 19		$\begin{array}{ccc} 21 & 00 \\ 22 & 50 \end{array}$		$\begin{array}{ccc} 55 & 75 \\ 22 & 50 \end{array}$
Bain, J. W	18 50				18 50
Baines, Allan	$\begin{array}{cccccccccccccccccccccccccccccccccccc$				31 50 15 25
Balbaud, P	11 00				11 00
Ballard, W. H	40 50	1 50	$7 \cdot 50$		$9\ 00$ $40\ 50$
Beatty, S	65 00		30 00		95 00
Bell, A, J Bensley, B. A	$\begin{array}{cccccccccccccccccccccccccccccccccccc$				37 25 25 50
Benzinger I	12 75				12 75
Best, C. H Bethune, C. J. S	31 25			8 50	8 50 31 25
Bingham. G. A	45 00				45 00
Bishop, W. S Bluthner, W. A	20 00	6 70	4 50		$\begin{array}{c} 4 & 50 \\ 26 & 70 \end{array}$
Boddington, D. H			22 50		22 50
Boswell, M. C Boyd, G	9 25 50 50				9 25 50 50
Brebner, J. B					14 00
Brett, G. S. Brett, G. S. Brett, G. S. Brett	10 25		19 50	46 59	46 50 29 75
Briscoe, C. A	20 00				20 00
Broome, E Brown, C. P	$\begin{array}{cccc} 10 & 00 \\ 20 & 00 \end{array}$	2			$\begin{array}{ccc} 10 & 00 \\ 20 & 00 \end{array}$
Brown, R. W	33 00				33 00
Brownlee, H	31 75		7 50		$\begin{array}{c} 7 & 50 \\ 31 & 75 \end{array}$
Buchanan, M. A	32 00				32 00
Buchanan, W. B Bunting, T. G	21 00	• • • • • • • • • •	9 00		$9\ 00\ 21\ 00$
Burt, A. W.			5 00		5 00
Burt-Gerrans, J. T. Caeser, L	8 25		1 50	• • • • • • • • • • • • • • • • • • • •	$\begin{array}{c} 1 & 50 \\ 8 & 25 \end{array}$
Cameron, I. H	88 00				88 00
Cameron, M. H. V.	13 25 5 00	2 75	45 00		13 25 52 75
Campbell, J. A	8 75		40 00		8 75
Campbell, T. F. Carlisle, J. O.	17 25		10 50		$17 25 \\ 10 50$
Carr, H.	15 00				15 00

### 12. Examinations.—Continued.

Name.	Remuneration as Examiner.	Expenses,	Presiding Examiner.	Attendant.	Total.
Carruthers, A	\$ e. 20 00	\$ c.	\$ c. 62 00	\$ c.	\$ c. 82 00
Chambers, G	50 00				50 00
Chant, C. A	17 00				17 00
Charlesworth, J. W	40 00			10 00	40 00 10 00
Clare, H	50 00				50 00
Clarke, G. C.				11 50	11 50
Clarkson, F. A	17 50 5 00		25 50		17 50 30 50
Cleland, F. A	90 00		29 90		90 00
Clement, F. M	14 00				14 00
Clifton, E. W. V	$\begin{array}{ccc} 5 & 25 \\ 22 & 00 \end{array}$				5 25 22 00
Cochrane, C. N	5 00		18 00		23 00
Coghill, J.B			7 50		7 50
Coghlan, F. T	$\begin{array}{c} 32 \ 50 \\ 12 \ 50 \end{array}$				32 50 12 50
Cook, G. S. H	12 90			10 50	10 50
Coombs, F. E			30 00		30 00
Cooper. A. R			1 50		1 50 8 12
Cosgrave, F. H	14 00				14 00
Costain. W. A	20 00				20 00
Crawford, H. J	45 00		31 50		31 50 45 00
Crerar, S. R	11 50				11 50
Cringan, A. T	11 20	4 20			15 40
Cudmore, S. A	30 25		63 00 73 50		93 25 73 <b>5</b> 0
Cushing, D.	5 75		19 90		5 75
Davidson, W. A			9 00		9 00
Day, G. E			00.50		13 50 $151 75$
De Beaumont, V De Lury, A. T De Witt, N. W Di Pietro. N.	90 75		99 50		90 75
De Witt, N. W	40 00		22 50		62 50
Di Pietro. N	• • • • • • • • • • • • •		1 50	15.00	$\begin{array}{ccc} 1 & 50 \\ 15 & 00 \end{array}$
Drew. Miss J. E.			55 00	15 00	55 00
Drumm, A. C				4 00	4 00
Duckworth, H. T. F			18 00		18 00 9 00
Duncan, J. H			9 00		13 50
Dyer, F. C			7 50		7 50
Eadie, Miss E. M Eastham, J. W					7 55 20 75
Edwards, S. F.	20 75 19 25				19 25
Elliott, Dr. J. H	36 75				36 75
Elworthy, R. T Evans, C	1 67		25 50		$\begin{array}{cccc} 25 & 50 \\ 1 & 67 \end{array}$
Evans, G. A	28 00				28 00
Evans, G. E				9 00	9 00
Fairclough, W. E	37 00 6 25		• • • • • • • • • • • • • • • • • • • •		37 00 6 25
Ferguson, W. S	$\begin{array}{cccc} 6 & 25 \\ 7 & 00 \end{array}$				7 00
Fields, J. C	5 00				5 00
Fife, B. 0	8 13 3 00				8 13 3 00

### 12. Examinations.—Continued.

NAME.	Remuneration as Examiner.	Expenses.	Presiding Examiner.	Attendant.	Total.
Fletcher, J. Forsyth, W. O. Foster, H. W. A. Fotheringham, J. T. Fraser, W. H. Fulmer, H. L. Gaby, R. E. Galbraith, A. J. Galbraith, J. S. Gallie, G. Gallie, W. E. Gauntlett, R. C. Gillespie, P. Gilley, W. H. Glover, T. S. Goldie, Wm Gordon, A. R. Graham, D. Graham, R. R. Grange, E. A. A. Guess, G. A. Guest, W. S. Ham, A. Harcourt, R. Harris, C. L. M. Harrison, J. W. F. Hastings, E. R. Haultain, H. E. T. Heebner, C. F. Henderson, V. E. Henderson, V. E. Henderson, G. M. Hewlett, W. H. Hopkins, R. H. Horning, L. E. Howard, J. T. Howe, C. D. Howitt, J. E. Howland, G. W. Hume, J. G. Huntsman, A. G. Hutchison, H. S. Hutton, M. Irwin, O. Irwin, T. B. Jackson, M. B. Jeanneret, F. C. A. Johnston, A. R.	\$ c. 37 25 128 85 79 25 51 50 33 75 27 50 27 50 21 00 45 00	4 25 9 65	7 50 10 50 7 50 6 00 1 50 25 50	20 00 30 00 11 50	\$ c. \$ 37 25 80 79 25 51 50 27 50 27 50 21 00 12 00 13 50 45 00 20 00 14 12 30 00 11 50 45 00 45 00 45 00 45 00 56 00 \$ 8 50 45 00 54 50 00 54 50 00 54 50 00 54 50 00 55 00 28 75 50 00 14 00 \$ 8 00 \$ 8 00 \$ 8 00 \$ 8 00 \$ 8 00 \$ 8 50 \$ 9 0 0 1 0 50 50 50 \$ 8 00 \$ 5 00 \$ 5 00 \$ 20 50 1 50 \$ 20 50 \$
Johnston, E. F. Johnston, G. W. Jones, D. H. Kennedy, C. A. Kenrick, F. B. Keys, D. A. Keys, D. R. Kihl, V.	38 25 13 25 16 25 22 00 27 00 25 00		46 50	19 50	19 50 84 75 13 25 16 25 22 00 28 00 27 00 25 00

### 12. Examinations.—Continued.

Kinnear, J. A       72 00       72 0         Kirkwood, W. A.       23 75       45 00       68 7         Kittredge, R. E. L       18 00       18 0         Kylie, E. J.       8 25       8 2         Laing, A. T       10 00       10 0         Laird, Miss A. L.       1 67       1 6         Lancaster, H. M       18 25       18 2         Langford, A. L.       36 25       15 00       51 2         Langstaff, J. M       6 00       6 0       6 0         Lautz, H. J       20 00       20 0       20 0         Leathes, J. B       12 50       12 5         Le Drew, H. H       17 50       17 5         Lewis, E. P       3 00       3 0         Loudon, J. D       45 00       45 0         Loudon, W. J.       18 67       10 5         Loudon, W. J.       18 67       10 5         MacCallum, J. M       50 50       50 5         MacPonald, W. L       5 00       5 0         Mackenzie, M. A       27 00       27 0         Mackenzie, M. A       27 00       27 0         Mackenzie, J. J       1 66       1 0 5         Madill, H. H       18 00       18 0 <th>75</th>	75
King, J. T.  Kinnear, J. A.  72 00  75 Kinkwood, W. A.  23 75  45 00  68 Kittredge, R. E. L.  18 00  18 00  18 00  Laing, A. T.  10 00  Laird, Miss A. L.  1 67  1 10 00  Lancaster, H. M.  18 25  Langstaff, J. M.  6 00  Lautz, H. J.  20 00  Leathes, J. B.  12 50  Le Drew, H. H.  17 50  Loudon, J. D.  Lewis, E. P.  3 00  45 00  Loudon, T. R.  10 50  MacCallum, J. M.  5 00  MacPonald, W. L.  5 00  Mackenzie, M. A.  27 00  MacMackenzie, M. A.  27 00  Mackenzie, M. A.  28 15 00  18 66  76 18 67  76 18 67  76 18 67  76 18 67  76 18 67  77 68 77  78 77 78 78  78 77 78  78 10 10 10 11 11 11 11 11 11 11 11 11 11	50 00 75
Kinnear, J. A       72 00       72 (Kirkwood, W. A.       23 75       45 00       68 7         Kittredge, R. E. L       18 00       18 0         Kylie, E. J.       8 25       8 2         Laing, A. T       10 00       10 0         Laird, Miss A. L.       1 67       1 6         Lancaster, H. M       18 25       18 2         Langford, A. L.       36 25       15 00       51 2         Langstaff, J. M       6 00       6 0       6 0         Lautz, H. J.       20 00       20 0       20 0         Leathes, J. B.       12 50       12 5         Le Drew, H. H       17 50       17 5         Lewis, E. P.       3 00       3 0         Loudon, J. D       45 00       45 0         Loudon, W. J.       18 67       10 5         Loudon, T. R.       10 50       5 0         MacCallum, J. M       50 50       50 5         MacPonald, W. L       5 50       50         Mackenzie, M. A       27 00       27 0         Mackenzie, J. J.       1 66       10 5         Madill, H. H.       18 00       18 0	00 75
Kirkwood, W. A.       23 75       45 00       68 8         Kittredge, R. E. L.       18 00       18 0         Kylie, E. J.       8 25       8 2         Laing, A. T.       10 00       10 0         Laird, Miss A. L.       1 67       1 6         Lancaster, H. M.       18 25       18 2         Langford, A. L.       36 25       15 00       51 2         Langstaff, J. M.       6 00       6 0       6 0         Lautz, H. J.       20 00       20 0       20 0         Leathes, J. B.       12 50       12 5         Le brew, H. H.       17 50       17 5         Lewis, E. P.       3 00       3 6         Loudon, J. D.       45 00       45 0         Loudon, T. R.       10 50       10 5         Loudon, W. J.       18 67       18 6         Lund, T. H.       5 50       5 5         MacCallum, J. M.       50 50       50 5         MacPonald, W. L.       5 00       50 5         Mackenzie, M. A.       27 00       27 0         Mackenzie, J. J.       1 66       10 5         Madill, H. H.       18 00       18 0	75
Kittredge, R. E. L       18 00       18 6         Kylie, E. J.       8 25       8         Laing, A. T       10 00       10 (         Laird, Miss A. L       1 67       10 (         Lancaster, H. M       18 25       18 2         Langford, A. L.       36 25       15 00       51 2         Langstaff, J. M.       6 00       6 (         Lautz, H. J.       20 00       20 (       6 (         Leathes, J. B.       12 50       12 5         Le Drew, H. H       17 50       17 5       12 5         Lewis, E. P.       3 00       3 (         Loudon, J. D.       45 00       45 (         Loudon, T. R.       10 50       10 5         Loudon, W. J.       18 67       10 5         Lund, T. H.       5 50       5 6         MacCallum, J. M       50 50       50         MacPonald, W. L       5 00       5 (         Mackenzie, M. A       27 00       27 (         Mackenzie, M. A       27 00       27 (         Madill, H. H       18 00       18 (	
Kylie, E. J.       8 25       8 25         Laing, A. T       10 000       10 0         Laird, Miss A. L       1 67       1 6         Lancaster, H. M       18 25       18 2         Langford, A. L.       36 25       15 00       51 2         Langstaff, J. M.       6 00       6 0         Lautz, H. J.       20 00       20 0         Leathes, J. B.       12 50       12 5         Le Drew, H. H       17 50       12 5         Lewis, E. P.       3 00       3 6         Loudon, J. D.       45 00       45 0         Loudon, T. R.       10 50       10 5         Loudon, W. J.       18 67       18 6         Lund, T. H.       5 50       5 5         MacCallum, J. M       50 50       5 5         MacPonald, W. L       5 00       5 0         MacKenzie, M. A       27 00       27 0         Mackenzie, J. J.       1 66       1 6         Madill, H. H.       18 00       18 0	00
Laing, A. T.       10 00       10 0         Laird, Miss A. L.       1 67       1 6         Lancaster, H. M.       18 25       18 2         Langford, A. L.       36 25       15 00       51 2         Langstaff, J. M.       6 00       6 0         Lautz, H. J.       20 00       20 0         Leathes, J. B.       12 50       12 5         Le Drew, H. H.       17 50       17 5         Lewis, E. P.       3 00       3 6         Loudon, J. D.       45 00       45 0         Loudon, T. R.       10 50       10 5         Loudon, W. J.       18 67       18 6         Lund, T. H.       5 50       5 5         MacCallum, J. M.       50 50       5 5         MacPonald, W. L.       5 00       5 0         Mackenzie, M. A.       27 00       27 0         Mackenzie, M. A.       27 00       27 0         Madill, H. H.       18 00       18 0	
Lancaster, H. M.       18 25       18 8         Langford, A. L.       36 25       15 00       51 2         Langstaff, J. M.       6 00       6 6         Lautz, H. J.       20 00       20 0         Leathes, J. B.       12 50       12 5         Le Drew, H. H.       17 50       17 5         Lewis, E. P.       3 00       3 6         Loudon, J. D.       45 00       45 0         Loudon, T. R.       10 50       10 5         Loudon, W. J.       18 67       18 6         Lund, T. H.       5 50       50         MacCallum, J. M.       50 50       50 5         MacPonald, W. L.       5 00       50         Mackenzie, M. A.       27 00       27 0         Mackenzie, J. J.       1 66       1 6         Madill, H. H.       18 00       18 0	
Langford. A. L.       36 25       15 00       51 2         Langstaff, J. M.       6 00       6 0         Lautz, H. J.       20 00       20         Leathes, J. B.       12 50       12 5         Le Drew, H. H.       17 50       17 5         Lewis, E. P.       3 00       3 0         Loudon, J. D.       45 00       45 0         Loudon, T. R.       10 50       10 5         Loudon, W. J.       18 67       10 5         Loud, T. H.       5 50       5 6         MacCallum, J. M.       50 50       50         MacPonald, W. L.       5 00       5 0         Machell, H. T.       10 50       10 5         Mackenzie, M. A.       27 00       27 0         Mackenzie, J. J.       1 66       1 6         Madill, H. H.       18 00       18 0	
Langstaff, J. M.       6 00       6 (1)         Lautz, H. J.       20 00       20 (2)         Leathes, J. B.       12 50       12 5         Le Drew, H. H.       17 50       17 5         Lewis, E. P.       3 00       3 6         Loudon, J. D.       45 00       45 (2)         Loudon, T. R.       10 50       10 5         Loudon, W. J.       18 67       18 6         Lund, T. H.       5 50       5 5         MacCallum, J. M.       50 50       5 6         MacPonald, W. L.       5 00       5 0         Machell, H. T.       10 50       10 5         MacKenzie, M. A.       27 00       27 0         Mackenzie, J. J.       1 66       1 6         Madill, H. H.       18 00       18 0	
Lautz, H. J.     20 00     20 0       Leathes, J. B.     12 50     12 5       Le Drew, H. H.     17 50     17 5       Lewis, E. P.     3 00     3 6       Loudon, J. D.     45 00     45 0       Loudon, T. R.     10 50     10 5       Loudon, W. J.     18 67     18 6       Lund, T. H.     5 50     5 5       MacCallum, J. M.     50 50     50 5       MacPonald, W. L.     5 00     5 0       Machell, H. T.     10 50     10 5       MacKenzie, M. A.     27 00     27 0       Mackenzie, J. J.     1 66     1 6       Madill, H. H.     18 00     18 0	
Leathes, J. B.       12 50       12 5         Le Drew, H. H.       17 50       17 5         Lewis, E. P.       3 00       3 (         Loudon, J. D.       45 00       45 (         Loudon, T. R.       10 50       10 5         Loudon, W. J.       18 67       18 6         Lund, T. H.       5 50       5 5         MacCallum, J. M.       50 50       50 5         MacPonald, W. L.       5 00       50 5         Machell, H. T.       10 50       10 5         MacKenzie, M. A.       27 00       27 (         Mackenzie, J. J.       1 66       1 6         Madill, H. H.       18 00       18 0	
Lewis, E. P.       3 00       3 (         Loudon, J. D       45 00       45 (         Loudon, T. R.       10 50       10 5         Loudon, W. J.       18 67       10 5         Lund, T. H.       5 50       5 6         MacCallum, J. M       50 50       50 5         MacDonald, W. L       5 00       5 0         Machell, H. T       10 50       10 5         MacKenzie, M. A       27 00       27 (         Mackenzie, J. J       1 66       1 (         Madill, H. H.       18 00       18 (	
Loudon, J. D       45 00       45 0         Loudon, T. R.       10 50       10 5         Loudon, W. J.       18 67       18 67         Lund, T. H.       5 50       5 5         MacCallum, J. M       50 50       50 5         MacDonald, W. L       5 00       5 0         Machell, H. T       10 50       10 5         MacKenzie, M. A       27 00       27 0         Mackenzie, J. J       1 66       1 6         Madill, H. H.       18 00       18 0	
Loudon, T. R.       10 50       10 5         Loudon, W. J.       18 67       18 6         Lund, T. H.       5 50       5 5         MacCallum, J. M       50 50       50 5         MacDonald, W. L       5 00       5 0         Machell, H. T       10 50       10 5         MacKenzie, M. A       27 00       27 0         Mackenzie, J. J       1 66       1 6         Madill, H. H.       18 00       18 0	
Loudon, W. J.     18 67       Lund, T. H.     5 50       MacCallum, J. M     50 50       MacDonald, W. L     5 00       Machell. H. T     10 50       MacKenzie, M. A     27 00       Mackenzie, J. J.     1 66       Madill, H. H.     18 00       18 00	
MacCallum, J. M       50 50       50 8         MacDonald, W. L       5 00       5 (         Machell, H. T       10 50       10 8         MacKenzie, M. A       27 00       27 (         Mackenzie, J. J       1 66       1 6         Madill, H. H.       18 00       18 0	
MacDonald, W. L       5 00       5 (Machell, H. T.       10 50       10 5         MacKenzie, M. A       27 00       27 (Mackenzie, J. J.       1 66       1 6         Madill, H. H.       18 00       18 (Machenzie, J. J.)       1 8	
Machell, H. T.       10 50       10 5         MacKenzie, M. A       27 00       27 (         Mackenzie, J. J.       1 66       1 8 (         Madill, H. H.       18 00       18 (	
Mackenzie, J. J.       1 66       1 6         Madill, H. H.       18 00       18 0	
Madill, H. H	
Magney C. I. N. 18 00	
Magwood, S. J. N. 42 00 42 00	
Marcellus, T. N	
Marlow F. W 76.75	
Marshall, R. J. 7 50 .	
Martin, T. 47 00 32 00 79 0 Martin, W. H. 10 50 10 5	
Mavor, J	
McCoy, J 5 00 5 (	
McFarlane, Miss J	50
McGillivray, D.       10 50       10 50         McGowan, J.       16 38       16 5	
McIlwraith, K. C	
McKeown, W. H	
McKim, R. T.       23 50       23 5         McLaughlin, J. F.       20 25       20 2	
McLaughlin, J. F.       20 25       20 25         McLennan, J. C.       4 16       4 1	
McMurrich, J. P	
McPhedran, A	25
McPhedran, J. H.       5 00       46 50       51 50         McRae, C. A.       15 50       2 48       21 50       39 50	$\frac{50}{48}$
McRae, C. A. 15 50 2 48 21 50 39 4 48 40 50 00 50 00 50 0	
Mickle, G. R	
Miller, W. L 6 25 6 2	
Milner, W. S. 13 25 13 25 13 2 Moir. A 28 00 28 0	
Moir, A	
Moore, J. C	
Moore, W. S	
Moorhead, A. S	60
Morrow, E. M. 8 50 8 5 Morton, N. 1 00 1 0	60 50
Mueller, P. W	60 50 50
Murdie, W. C	60 50 50 00

## 12. Examinations.—Continued.

Name.	Remuneration as Examiner.	Expenses.	Presiding Examiner.	Attendant.	Total.
Maria T. O.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Murray, J. G	7 25			13 50	13 50
Northup, G. T	5 00				29 75 5 00
O'Connor, F. J.	20 00				20 00
Oille, J	45 00				45 00
Oliver, G. W.				18 50	18 50
O'Reilly, B					45 00
Owen, FParkin, J. H	11 25		7 50		$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Parkinson, H. H				3 50	3 50
Parks, W. A	16 63				16 63
Parsons, A. L. Paul, Miss H. A. Peckitt, T. L.	25	• • • • • • • • • •			25
Paul, MISS II. A	1 50		• • • • • • • • • • • • • • • • • • • •	26.50	7 30
Perry, S. W			6 000	20 00	$\begin{array}{cccc} 26 & 50 \\ 6 & 00 \end{array}$
Piersol, W. H	29 75				29 75
Platt, H. E. B				33 00	33 00
Ponton, W. N	5 00				3 70
Potter, W. A	- 0-				5 00 5 25
Powell, N. A.	37 75				37 75
Price, H. W	2 50				2 50
Primrose, A	59 00		• • • • • • • • • • • • •		59 00
Pringle, J. N	35 25		• • • • • • • • • • • • •		35 25
Pugsley, E. E. Purcell, J. J.	5 25			9 90	5 50 5 25
Radcliffe, S. J.			7 50		7 50
Reeve. R. A	45 00				45 00
Reynolds, J. B.,	17 50				17 50
Richardson, T			30 00	47 00	47 00
Ritchie, C. F.			50 00		30 00 74 00
Roberts, J. A	45 00				45 00
Roberts, H. L.				9 00	9 00
Robertson, D. E		• • • • • • • • • • • • • • • • • • • •	1 50		1 50
Robertson, J. C	15 00	25	$\begin{array}{c c} 10 & 50 \\ 5 & 00 \end{array}$		25 50 5 25
Robinson, C. C				21 00	21 00
Robinson, E. G.				17 00	17 00
Robinson, T. R.		• • • • • • • • •			37 25
Rolph, F. W.	$10 50 \\ 105 00$				$10 50 \\ 115 50$
Rosebrugh, T. R.					45 00
Ross, G. W	45 00				45 00
Ross, J. H	97.00		• • • • • • • • • • • • • • • • • • • •	5 00	5 00
Ross, R. A. Rowland, R. H.	$\begin{array}{c} 25 \ 00 \\ 2 \ 00 \end{array}$	• • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		$\begin{array}{ccc} 25 & 00 \\ 2 & 00 \end{array}$
Rudolph, R. D.			· · · · · · · · · · · · · ,		42 25
Rutledge, L. T					13 50
Ryerson, E. S.					45 00
Sale, C. E. Salter, Miss L.					17 25
Sandiford, P			0= =0		10 50 25 50
Santo, A. E					15 50
Satterly, J	32 42				32 42
Saunders, C. G.					18 00
Saunders, D. W	8 75	• • • • • • • • • •			8 75

## 12. Examinations.—Continued.

NAME.	Remuneration as Examiner.	Expenses.	Presiding Examiner.	Attendant.	Total.
Scandrett, F. R Scarrow, A. N. Schuch, E. W. Scott, P. L Scott, W. A. Shaver, F. D.	\$ c. 23 60 42 25 66 75 9 00	\$ c. 3 20 4 60	\$ c. 9 00 10 50	\$ c.	\$ c. 9 00 10 50 26 80 46 85 66 75 9 00
Shenstone, N. S. Shuttleworth, C. B. Sibbald, A. L. Silverthorn, G. Sissons, C. B. Smith, D. K. Smith, G. O. Smith, W. G.	50 00 18 25 8 00 23 50 17 50 6 50		101 00	6 00	50 00 18 25 6 00 8 00 23 50 17 50 6 50 101 00
Smither, W. J. Snell, J. F. Spry, J. R. Squire, G. E. Squirrel, W. J. Staley, A. Stanley, C. W.	5 25 27 50 13 75 20 00		13 50 15 00		54 00 5 25 27 50 13 50 13 75 20 00 15 00
Steele, A. L Stevenson, G. S Stewart, J. W Stewart, L. B. Stewart, T. H Strathy, G. S. Tattersall, R. Taylor, R.	6 00 25 25 45 00 25 70		30 00	23 50 13 00	10 50 6 00 23 50 25 25 13 00 45 00 25 70 30 00
Taylor, W. J. Temple, C. A. Thistle, W. B. Thomson, D. J. Thomson, R. B. Tracy, F. Traill, J. J. Treadgold, W. M.	8 75 6 50 4 25 17 00 13 75 21 75		7 50	1 00	$\begin{array}{c} 1 & 00 \\ 8 & 75 \\ 6 & 50 \\ 7 & 50 \\ 4 & 25 \\ 17 & 00 \\ 13 & 75 \\ 21 & 75 \end{array}$
Tripp, J. D. A. Vogt, A. S. Wade, R. W. Walker, A. C. Walker, E. M. Walker, P. A. Walker, T. L.	10 00 10 00 40 50 9 00 12 50	9 50	5 00		19 50 10 00 40 50 9 00 12 50 5 50 21 63
Wallace, G. L. Wallace, W. S. Walt, C. F. Warren, L. A. H. Watson, B. P. Watson, F. E. Watson, G. Wells, P.	30 00 15 50 137 50 14 50	25	9 00 5 00 15 00	18 00	9 00 30 00 15 50 5 25 137 50 15 00 18 00 20 55
Welsman, F. S. Wheeldon, H. A. White, J. H. Whitelaw, W. Will, J. S.	35 00 47 35 68 00		4 50	13 50	35 00 47 35 4 50 13 50 83 00

## 12. Examinations.—Continued.

NAME.	Remuneration as Examiner.	Expenses.	Presiding Examiner.	Attendant.	Total,
Willan, H. Williams, G. K. Williams, R. H. Willmott, W. E. Wilson, G. E. Wishart, J. G. Wodehouse, R. P. Workman, G. R. Young, A. Young, A. Young, J. McG. Zavitz, C. A. Zimmer, A. R. Less paid by Royal College of Dental Surgeons as share of attendance in Dentistry.	\$ c. 31 65 35 25 16 25 45 00 45 00 5 25 19 50 5 00 19 25 6,579 33	341 68	\$ c. 13 50 34 50 7 50 1,760 50	\$ c. 3 00 665 50	\$ c. 31 65 13 50 35 25 16 25 45 00 45 00 3 00 34 50 7 50 5 25 19 50 5 00 19 25 7 50 9,347 01
attenuance in Dentistry	•••••			644 25	9,325 76

## Apportionment.

	Remuneration as Examiner.	Expenses.	Presiding Examiner.	Attendant.	Total.
Arts Medicine Engineering and Applied Science. Education Forestry Law Dentistry Pharmacy Music Agriculture Veterinary Science	\$ c. 1,288 28 2,627 50 560 25  153 25 233 75 154 25 742 55 603 50 216 00 6,579 33	4 60 334 23	\$ c. 803 00 192 00 421 50 112 50 10 50  18 00 28 50 71 00 69 00 34 50 1,760 50	29 00	\$ c. 2,519 13 2,886 00 981 75 187 50 10 50 159 25 273 00 202 85 1,153 78 672 50 279 50

### 12. Examinations.—Concluded. Remuneration to Examiners (as detailed above) ..... \$6,579 33 Presiding and attendance (as detailed above) ..... 2,404 75 Examination supplies and sundries, including incidental expenses of Examiners (\$2,419.97): Examiners' expenses (as detailed above) ..... 341 68 1,626 72 University Press, examination books, stationery and supplies Filling in diplomas: Edith E. Shaw, \$64.75; R. M. Williams, \$124.50 ...... 189 25 Rent of rooms and pianos at various centres: Alexandra Club, Victoria, B.C. ..... W. H. Ballard, Hamilton ...... 2 00 Miss E. Featherstone, Hagersville ..... Gourlay, Winter & Leeming, Toronto ....... 19 00 Mrs. J. E. Hollingshead, Newmarket 3 00 Mrs. A. S. Howard, Napanee 5 00 J. C. Moore, Red Deer, Alta. 2 50 Mrs. A. S. Howard, Napanee J. C. Moore, Red Deer, Alta. J. D. Price, Aylmer ..... 5 00 W. J. Robertson, St. Catharines ..... F. W. Scherer, Ridgetown ..... 6 00 60 00 Columbian College, sundry expenses ...... 22 70 C. F. Heebner, chemicals and supplies ..... 56 00 Might Directories, Ltd., lists of music teachers, etc .... 14 80 Victoria College, preparation of hall ..... 8 00 The Registrar, disbursed for sundry services..... 21 00 15 85 Less received for damage to tables .......... 1 25 28 17 -Revising lists and determining awards re scholarship examinations: M. W. Wallace ...... 17 55 35 80 Printing examination papers and class lists: 3,102 47 \$14,506 52 13. Convocation Expenses. Geo. Coles, Ltd.: Catering, evening reception, June ...... \$100 00 Catering, garden party, June ...... 505 00 \$605 00 Harcourt & Son, hoods and gowns..... 258 50 Highlanders' Band, musical services ..... 45 00 University Press, printing ..... 222 65 Superintendent's Dept., labor ..... 5 00 \$1,136 15 14. Receptions to Societies and University Visitors.

Expenses of entertainment (\$144.84):		
Geo. Coles, catering, Ontario Educational Association	\$57	50
Prof. H. J. Crawford, University Schools, reception to parents	30	66
Prof. A. T. DeLury, cab hire, Irving lecture	2	50
Townsend Livery, cab hire, Benson lecture	7	00
University Alumnae Association, room and board, Mr. and		
Mrs. Mansbridge	30	00
University Faculty Union, luncheon to recipients of honor-		
ary degrees	23	35

	14. Receptions to Societies and University Visitors	-Contin	ued.	
	Attendance:			
	W. H. Fox, attending lantern		00	
	J. Wicksey, attendance at sundry lectures  Pay lists, laborer's wages		00	
	4			
	* **	\$162		
	Less sundry credits	17	17	
		\$144	84	
Ho	noraria to occasional visiting lecturers (\$180.30):		0.0	
	Prof. Bellesort		00	
	Prof. von Dobschütz		00	
	Prof. Max Müller		00	
	Ex-President Taft	50	30	
	The state of the s	\$200	30	
	Less received from Literary and Scientific Society re	Ψ⊒οο	00	
	Taft lecture	20	00	
	-	0100	20	
Ex	penses in connection with International Geological Congress	\$180	30	
	leeting (\$363.98):			
	Geo. Coles, Ltd., catering at garden party	180		
	Twelfth Regiment Band, musical services	45		
	Superintendent's Dept., labor	1	50	
	University buildings:			
	Dining Hall, provisions and supplies, service,			
	etc			
	Men's Residences, attendance, labor, etc 300 00 Women's Residences, provisions, service, etc. 507 18			
	Main Building, extra cleaning			
	\$1,729 06 Received from W. S. Lecky, Secretary			
	to the Congress \$1,741 88			
	Refunded by the Board 150 30			
	\$1,591 58			
	Difference borne by the University	137	48	
				\$689 12
	15. Telephones.			
Pol	Il Telephone Co., telephone service to 30th June, 1914	\$2,484	62	
Dei	Less receipts from sub-services	φ4,409	: 00	
	And from slot machines			
		508	72	
	_	\$1,978	91	
Sw	itchboard operators:	φ1,016	, 51	
	Miss E. Fox, 52 weeks 1 day at \$7.50 per week		25	
	Miss E. Benner, 52 weeks 1 day at \$7.00 per week Miss L. Reddock, relieving, 1½ weeks		17	
	Miss D. Reddock, Telleving, 172 weeks	1(	50	\$2,742 83
				ψ=,,,,,
	16. Insurance.			
Ba	lance of premiums on general schedule as of			
	30th June. 1913 \$14.026 22			
	Carried forward to 1914-15, Schedule $5a$ 7,013 11			
	Charged to Revenue, 1913-14	\$7,013	3 11	
Ad	ditional premium charged for use of Kinematograph		3 00	
				\$7,206 11

## 17. Advertising Expenses.

# 11. 12. 12. 12. 12. 12. 12. 12. 12. 12.		
General Advertising (\$821.88):		
Acta Ridleiana	\$10 00	
Acta Victoriana	25 00	
Applied Science	20 00	
Association of Ontario Land Surveyors' Report	6 00	
Canadian Almanac	15 00	
Canadian Engineer	$50\ 00$ $21\ 88$	
Canadian Forestry Journal	50 00	
Canadian Mining Journal	45 00	
Medical Bulletin	50 00	
Ontario Catholic Year Book	20 00	
Royal Military College Year Book	25 00	
The School	50 00	
St. Andrew's College Review	20 00	
St. Michael's College Year Book	20 00	
Torontonensis	60 00	
Trinity College School Record	9 00	
Trinity University Review	25 00	
University Magazine	72 00	
University Monthly	200 00	
University Y.M.C.A. Handbook	10 00	
Upper Canada College Times	$\begin{array}{cccc} 10 & 00 \\ 8 & 00 \end{array}$	
Sundry announcements inserted by the President (\$111.40):	8 00	
The Evening Telegram	16 30	
The Globe	23 35	
The Mail and Empire	22 75	
The News	15 45	
The Toronto Daily Star	14 80	
The Toronto World	18 75	
		\$93 <b>3 28</b>
18. Aid to Publications and Societies.		
20, 12,0 10 1 10,000,000,000,000		
Astronomical Journal	\$100 00	
Archaeological School at Jerusalem	100 00	
Universities Bureau of the British Empire	250 00	
University Monthly	250 00	
University of Toronto Engineering Society	150 00	eoro 00
_		\$850 00
19. University Studies.		
II II Langton nomunovation of Consul Editor 101/ march	0177 00	
H. H. Langton, remuneration as General Editor, 10½ months	\$175 00	
Miss Laura Mason, remuneration as acting General Editor, 1½ months	25 00	
Printing and binding (\$1,933.86):	25 00	
Copp, Clark Co	16 51	
University Press	1,891 10	
Miss Helen Fairbairn, typewriting copy	26 25	
Reprints (\$92.16):		'
The Borden Press	8 31	
Eschenbach Printing Co	12 75	
Forestry Quarterly	40 20	
Journal of Physical Chemistry	11 80	
Ware Bros. Co.	19 10	
Royalties and payments to contributors (\$478 83):	00.00	
H. H. Langton, royalties on sales	22 30	
G. M. Wrong, royalties on sales	21 31	
W. S. Wallace, royalties on sales	114 72	
A. F. Chamberlain	21 00	
J. M. Clark	3 00	
Col. E. A. Cruikshank	13 50	
S. A. Cudmore	$2 \ 50$	

19. University Studies.—Continued.		
W. J. A. Donald W. L. Grant Louis Hamilton Judge Howay E. J. Kylie H. H. Langton Archibald MacMechan Chester Martin A. D. McArthur W. B. Munro E. H. Oliver Ven. Archdeacon Raymond O. D. Skelton Col. Wm. Wood W. S. Wallace, \$64.00, Editorial fee Volume XVIII, \$100.00.	6 50 4 00 4 00 17 00 19 00 33 50 4 50 6 00 2 50 2 00 6 50 2 50 3 50 5 00 164 00 \$2,704 85 704 85	
_		\$2,000 00
20. Law Costs.		
John A. Paterson, K.C., taxed costs as solicitor to the University Less sundry credits	\$320 51 29 00	\$291 51
21. General Incidentals.		
	040.053	
Travelling expenses of the Board of Governors and the Senate (\$ Board of Governors:	219.85):	
Judge C. G. Snider	\$65 00	
Members of the Senate:		
Wm. Burt Jas. Chisholm	$     \begin{array}{r}       23 \ 45 \\       9 \ 75     \end{array} $	
J. H. Coyne	12 20	
G. C. Creelman	7 35	
Wm. Dale	$\begin{array}{cccc} 25 & 00 \\ 77 & 10 \end{array}$	
Travelling expenses of the President and Academic Staff	77 10	
(\$923.74):		
President Falconer	185 10	
E. G. R. Airdagh · · · · · · · · · · · · · · · · · · ·	$\begin{array}{ccc} 20 & 00 \\ 20 & 00 \end{array}$	
J. W. Bain	20 00	
I. Benzinger	20 00	
E. F. Burton A. P. Coleman	$15 00 \\ 20 00$	
J. H. Faull	26 45	
J. C. Fields	75 00	
L. Gilchrist	$15 00 \\ 20 00$	
H. E. T. Haultain	19 00	
V. E. Henderson	20 00	
A. G. Huntsman M. Hutton	$\begin{array}{cccc} 20 & 00 \\ 20 & 00 \end{array}$	
C. Imrie	20 00	
G. W. Johnston	20 00	
A. T. Laing	20 00	
J. B. Leathes	$\begin{array}{ccc} 25 & 00 \\ 20 & 00 \end{array}$	
A. B. Macallum	43 70	
Miss C. Maclachlan Jas. Mavor	28 60	
J. F. McCurdy	25 00 $17 94$	
J. C. McLennan	55 75	
J. P. McMurrich	20 00	
A. McPhedran W. S. Milner	$\begin{array}{cccc} 24 & 00 \\ 28 & 20 \end{array}$	
	20 20	

21. General Incidentals.—Continued.			
W. H. Piersol	20	00	
O. J. Stevenson	20		
T. L. Walker Sundry incidental expenses (\$161.96):	20	00	
A. H. Howard, engrossing resolution	15		
R. M. Williams engrossing resolutions	30 11		
Connell Anthracite Mining Co., fuel supplied to University			
Y.M.C.A	94	88 <b>44</b>	
Mineral Springs, Ltd., spring water for Board meetings			\$1,305 55
22. Senate Elections.			
The invention Dungs mainting	\$128	75	
University Press, printing	9120		\$128 75
		-	\$142,673 63
II.—FACULTY OF ARTS.		_	ψ112,010 W
23. Salaries.			
(1) Departments in University of Toronto (\$166,	842.24):		
Mathematics.			
Professors, each 12 mos. to 30th June:			
A. Baker (also Dean of Faculty) A. T. DeLury	\$4,000 3,600		
Associate Professors, each 12 mos. to 30th June:	5,000	00	
M. A. Mackenzie	3,000		
J. C. Fields Lecturers (Sessional):	3,000	00	
S. Beatty	1,600		
I. R. Pounder Fellows (Sessional):	1,200	00	
J. H. Birkenshaw	500		
J. McQueen	500		\$17,400 0
$\it Mechanics.$			
•	00.000	0.0	
W. J. Loudon, Professor, 12 mos. to 30th June	\$3,600		3,600 0
Physics.			
J. C. McLennan, Professor, 12 mos. to 30th June	\$3,600	00	
E. F. Burton, Associate Professor, 12 mos. to 30th June	2,300		
L. Gilchrist, Demonstrator, 12 mos. to 30th June	2,000		
J. Satterly, Lecturer (Sessional)	1,700 1,100		
Assistant Demonstrators (Sessional):			
E. C. S. Dickson Miss R. M. Evans	500 500		
G. E. M. Jauncey	500		
R. H. Wilson	500	00	
Class Assistants (Sessional):  Miss C. E. Clinkscale	250	00	
A. R. McLeod		00	
Miss R. M. Fleming		00	
R. C. Dearle		00	
C. G. Found		00	
W. S. McClenahan C. L. Treleaven		00	

# 23. Salaries.—Continued.

25. Saturtes. Continuou.				
Miss A. T. Reed, Class Assistant (Sessional) and Stenographer,				
combined salary for 12 mos. to 30th June	750			
P. Blackman, Lecture and Laboratory Assistant (Sessional) T. S. Plaskett, Mechanician, 12 mos. to 30th June	$900 \\ 1,200$			
Assistant Mechanicians:	1,200	00		
G. Tarry, 1 Oct. to 30 Nov. at \$13.85 per week, \$119.35;	*00	^ ^		
1 Dec. to 30 June at \$800 per annum, \$466.68	586 180			
W. A. Smelser, $562\frac{1}{2}$ hrs. at 32c. per hr Laboratory Attendant:	100	VV		
G. Wild, 25 Sept. to 30 June at \$7 per week	278	74		
Occasional service at 30c. to 50c. per hour: G. Hawkins,				
\$118.35; W. A. Voce, \$57.40; D. A. Kevs, \$9.90; W. B. Buchanan, \$5; R. Tudhope, \$3.04	193	60		
Glass-blowers, share of salaries detailed under Physiology	583			
J. Wicksey, Laboratory Carpenter, 12 mos. to 30th June (paid				
also \$550 as Caretaker of Physics building)	350	00		
S. Richardson, Attendant, July, 1913, \$25; November 15th to 30th June, \$186.74	211	74		
- June, \$100.14	211	_	\$18,683	20
Astro-Physics.				
C. A. Chant, Associate Professor, 12 mos. to 30th June	\$2,700	00		
Assistants (Sessional): G. S. Easton	250	٥٥		
E. A. Hodgson	250			
F. L. Blake	100			
G. S. Campbell	50			
A. E. Rosborough	50	00	\$3,400	٥٥
and the second			ψυ, του	00
Geology.				
A. P. Coleman, Professor, 12 mos. to 30th June	\$4,000	00		
W. A. Parks, Associate Professor, 12 mos. to 30th June	2,900			
A. MacLean, Lecturer (Sessional)	$\frac{1,500}{250}$			
Laboratory Attendant:	200	00		
H. Graham, 1 month	29	16		
C. Moffatt, 15th September to 15th November at \$6.00 per				
week, \$54.00; 16th November to 15th June at \$350 per annum, \$204.18	258	18		
_			\$8,937	34
Min analo au				
Mineralogy.				
T. L. Walker, Professor, 12 mos. to 30th June	\$3,600			
A. L. Parsons, Assistant Professor, 12 mos. to 30th June  E. Thomson, Demonstrator (Sessional)	2,100 $1,100$			
H. V. Ellsworth, Fellow (Sessional—half time)	250			
W. Allingham, Laboratory Attendant, 7½ mos. at \$50 a month.	375	00		
_			\$7,425	00
Chemistry.				
Professors, each 12 mos. to 30th June:				
W. R. Lang	\$3,600	00		
W. L. Miller, Physical Chemistry	3,600	00		
Associate Professors, each 12 mos. to 30th June: F. B. Kenrick	2,700	0.0		
F. B. Allan, Organic Chemistry	2,700			
Assistants (Sessional) at \$600:	200	0.0		
R. T. Elworthy (paid also in Chemical Pathology) W. S. Funnell	600 600			
Assistants (Sessional) at \$500:	000	00		
H. R. Brandt	500			
K. E. Burgess N. C. Qua	500			
7 B.G.	500	00		
. 2.0.				

23. Salaries.—Continued.		
Miss H. Bamford (resigned 15th February)  W. H. Martin (March and April)  P. J. Moloney (March and April)  Class Assistants (Sessional):	281 25 75 00 75 00	
J. G. Burns S. J. Cook A. D. Hone C. B. Lindsay G. O. Morrison L. E. Westman	60 00 60 00 60 00 60 00 60 00 60 00	
E. Repath, Laboratory Assistant (with rooms, heat and light as Caretaker of Chemical Building), 12 mos. to 30th June  J. Smith, Laboratory Attendant, 12 mos. to 30th June	800 00	\$17,491 25
Biology.		
Associate Professors, each 12 mos. to 30th June:		
B. A. Bensley, Zoology	\$2,800 00 2,400 00 1,900 00	
A. G. Huntsman, Biology  A. F. Coventry, Vertebrate Embryology  Demonstrators (Sessional):	1,700 00 1,300 00	
A. R. Cooper A. D. Robertson Class Assistants (Sessional):	800 00 800 00	
R. P. Wodehouse (paid also in Botany)  L. O. C. Skeeles  H. de W. Ball	300 00 180 00 80 00	
O. C. J. Withrow W. H. T. Baillie W. Hamilton	80 00 60 00 60 00	
L. P. Menzie H. C. Pugh (paid also in Botany) Miss M. C. Tucker (paid also in Botany)	60 00 60 00 60 00	
N. A. Wallace G. A. Davis J. A. Dickson	60 00 40 00 40 00	
T. B. Kurata, Preparator, 12 mos. salary	800 00 850 00	
salary (half time) Miss E. Smith, Office Assistant, 1st July to 31st May at \$500 per annum (resigned)	325 00 458 32	
Miss E. Mason, June Laboratory Attendant: H. Sherman, 1st July to 30th Sept. at \$550 per annum (resigned)	41 68	
F. W. Small, 20th October to 30th June at \$35 per month	137 50 294 00	\$15,686 50
Botany.		
Associate Professors, each 12 mos. to 30th June: J. H. Faull R. B. Thomson C. D. Howe, Assistant Professor, 12 mos. to 30th June at \$2,100.	\$2,700 00 2,200 00	
of which \$1,050 charged to Forestry	1,050 00	
Miss J. McFarlane, Fellow (Sessional) G. H. Graham, Assistant (Sessional) Class Assistants (Sessional):	350 00 500 00 450 00	
C. H. Morse R. P. Wodehouse (paid also in Biology) H. C. Pugh (paid also in Biology)	150 00 110 00 60 00	-

### 23. Salaries.—Continued.

23. Salaries.—Continued.		
H. C. Rutherford Miss S. L. Smith Miss M. C. Tucker (paid also in Biology) H. B. Sifton A. Simpson, Gardener, 12 mos. to 30th June A. Burnett, Laboratory Attendant, 12 mos. to 30th June	60 00 60 00 60 00 50 00 850 00 325 00	\$8,975 00
Bio-Chemistry.		
·	\$4,000 00	
A. B. Macallum, Professor, 12 mos. to 30th June  Demonstrators (Sessional):  R. E. Gaby (paid also in Clinical Surgery)	600 00	
Miss A. Homer (Easter Term)	600 00 400 00	
J. B. Collip J. H. Howell	500 00 500 00	
Laboratory Assistants, each 12 mos. to 30th June: A. E. Giddens J. Lowndes	600 00 600 00	
Glass-biowers, share of salaries detailed under Physiology Miss B. Rhodes, Stenographer, 31st January to 30th June at	100 00	
\$625 per annum	263 79	
Miss E. G. Powell, 3 weeks Miss M. Freer, 7 weeks Miss J. Stuart, 1½ weeks	45 00 105 00 18 00	
- Stuart, 172 weeks		\$8,331 79
Physiology.		
T. G. Brodie, Professor, 12 mos. to 30th June	\$4,000 00 1,200 00	
W. W. Barraclough J. R. Smith Miss D. Sawyer, Assistant (Sessional) C. Stewart, Mechanician, 12 mos, salary F. L. Robinson, Laboratory Assistant, 12 mos, to 30th June E. C. Williams, Laboratory Attendant, 1st August to 30th June at \$500 per annum, of which half charged to Surgery Glass-blowers, each 12 mos, salary:	500 00 500 00 780 00 850 00 700 00 229 16	
F. D. Mezen		
\$1,636 00		
Charged to the following departments:         \$583 00           Physics         \$583 00           Bio-Chemistry         100 00           Pathology         50 00           Chemical Pathology         50 00		
783 00	853 00	\$9,612 16
History and Ethnology.		
G. M. Wrong, Professor, 12 mos. to 30th June (on leave of absence Easter Term)	\$4,000 00 2,500 00	
Lecturers (Sessional):  A. G. Brown, \$1,800, of which \$1,150 charged to Ancient History (absent on sick leave)		- "
R. H. Williams G. M. Smith	650 00 1,400 00 1,300 00	

23. Salaries.—Continued.			
Special Lecturers (Sessional): W. S. Wallace V. Massey Miss H. McMurchie, Instructor (Sessional)	500 00 500 00 750 00	\$11,600 (	00
Comparative Philology.			
A. J. Bell, Professor, 12 mos. to 30th June	\$600 00	\$600 (	00
Italian and Spanish.			
W. H. Fraser, Professor, 12 mos. to 30th June M. A. Buchanan, Associate Professor, 12 mos. to 30th June G. T. Northup, Assistant Professor, 12 mos. to 30th June N. di Pietro, Instructor (Sessional)	\$3,600 00 2,400 00 2,100 00 1,100 00	\$9,200 (	00
Philosophy and Psychology.			
J. G. Hume, Professor of History of Philosophy (paid as Pro-			
fessor of Ethics)			
part salary)	\$800 00		
F. Tracy	2,900 00 2,700 00		
Assistant Professors, each 12 mos. to 30th June: W. G. Smith, Psychology	2,100 00		
T. R. Robinson, Philosophy	2,100 00 1,700 00		
Demonstrators (Sessional): R. B. Liddy E. J. Pratt	700 00 700 00	212 700	00
Political Science.		\$13,700	00
J. Mavor, Professor, 12 mos. to 30th June	\$3,600 00		
G. I. H. Lloyd, Associate Professor, 12 mos. to 30th June Lecturers (Sessional):	2,900 00		
S. A. Cudmore	1,400 00 1,400 00		
J. McGregor Young, Professor of Constitutional and International Law, 12 mos. to 30th June	1,500 00		
A. H. F. Lefroy, Professor of Roman Law, Jurisprudence and History of English Law, 12 mos. to 30th June	1,200 00		
J. D. Falconbridge, for Lectures in Commercial Law	200 00	\$12,200	00
(2) Departments in University College (\$75,	737.50). ~		
Greek.			
M. Hutton, Professor, 12 mos. to 30th June (paid also as Principal, University College)  A. Carruthers, Associate Professor, 12 mos. to 30th June  C. N. Cochrane, Lecturer (Sessional)	\$4,000 00 3,000 00 1,200 00	\$8,200	00
Latin.		40,200	
J. Fletcher, Professor, 12 mos. to 30th June G. W. Johnston, Associate Professor, 12 mos. to 30th June G. O. Smith, Assistant Professor, 12 mos. to 30th June E. Clifton, Lecturer (Sessional)	\$4,000 00 2,700 00 2,100 00 1,300 00	\$10,100	00

## 23. Salaries.—Continued.

	Ancient History.		
	S. Milner, Professor, 12 months, to 30th June,turers (Sessional):	\$3,600 00	
Пес	A. G. Brown, \$1,800, of which \$650 charged to Modern History (absent on sick leave)	1,150 00	
	E. A. Dale	1,300 00	\$6,050 00
	English,		ψ0,000 00
	J. Alexander, Professor, 12 months, to 30th June	\$4,000 00	
Ass	ociate Professors, each 12 months, to 30th June: D. R. Keys, Anglo-Saxon	3,000 00	
	M. W. Wallace G. S. Stevenson	2,500 00 $2,200 00$	
Lec	turers (Sessional): W. H. Clawson	1,600 00	/
	Miss C. Maclachlan	1,200 00	14,500 00
	French.		27,000
	Squair, Professor, 12 months, to 30th June	\$3,600 00	
Ass	octate Professors, each 12 months, to 30th June: J. H. Cameron	3,000 00	
	St. E. de Champ	2,400 00 2,500 00	
	C. A. Jeanneret, Lecturer (Sessional)	1,200 00	
	P. Balbaud L. A. Bibet	800 00 500 00	
	-		14,000 00
	German.		
P. V	H. Needler, Associate Professor, 12 months, to 30th June V. Mueller, Associate Professor, 12 months, to 30th June Toews, Assistant Professor, 12 months, to 30th June (absent	\$3,000 00 2,200 00	
Lec	on sick leave)turers (Sessional):	2,100 00	
	G. Kartzke B. Tapper	$1,200 00 \\ 1,200 00$	
	_		9,700 00
	Oriental Languages.		
	'. McCurdy, Professor, 12 months (retired 30th June) enzinger, Associate Professor, 12 months, to 30th June	\$4,000 00 2,200 00	
	R. Taylor, Lecturer (Sessional—less October) E. Aitken, substitute for October	1,312 50 175 00	
	Ethics.		7,687 50
J. G	. Hume, Professor, 12 months, to 30th June (also Professor of History of Philosophy, University of Toronto)	\$3,600 00	
	_		3,600 00
	University College, General.		
	Hutton, Principal, 12 months, to 30th June (paid also as Professor of Greek)	\$1,000 00	
J. S	. Will, Registrar (salary included in Associate Professor-		
	ship of French)		
Miss	ship of French)s L. Salter, Lady Superintendent, 12 months, to 30th June.	900 00	1,900 00

\$242,579 74

## 24. Retiring Allowances.

24. Retiring Allowances.		
Professor R. Ramsay Wright, retiring allowance, 12 months.		
to 30th June	\$2,750 00	
Professor W. H. Vander Smissen, bonus on retirement	1,000 00	
-		3,750 00
0,5 36.1 75.111		
25. Main Building.		
Heat and light (supplied from Central Power Plant):		
Gas, city current and occasional fuel (\$585.14).		
Consumers' Gas Co	\$24 78	
Connell Anthracite Mining Co., fuel account of 1912	560 36	
Water (\$181.35): City Treasurer	101 05	
Caretaker's Supplies (\$299.13):	181 35	
Superintendent's Department, supplies	299 13	
Cleaning (\$1,800.46):		
Allen Mfg. Co., laundry	20 61	
Canadian Window Cleaning Co., cleaning windows  Superintendent's Dept., labor	50 00	
Repairs and Renewals (\$4,156,64):	1,729 85	
Adams Furniture Co., chairs	85 10	
Wm. Bartlett & Sons, shades	11 37	
Canada Glass, Mantels & Tiles, Ltd., repairing tile floor	63 10	
Wm. Card, exterminating rats	12 00	
Henry Hope & Sons, steel sash  Johnston Temperature Regulating Co., regulators	290 00	
Macey Office Equipment Co., desks	60 95 60 75	
A. Matthews, Ltd., repairing roof	157 91	
Murray-Kay, Ltd., cork carpet	21 40	
R. Robertson & Sons, repairing masonry	51 12	
Routery Bros., plastering	12 45	
Superintendent's Dept., labor, \$1,881.32; material, \$1,449.17.	3,330 49	
	\$7,022 72	
Less sundry credits:	Ψ1,022 12	
Cleaning \$113.25; repairs \$169.84	283 09	
<del>-</del>	40.500.00	
Innitar C E Produkow 19 months 20 Tune	\$6,739 63	
Janitor, C. E. Bradshaw, 12 months, 30 June	850 00	
George Donkin, 12 months, to 30th June, \$450.00; overtime,		
\$1.24	451 24	
Boys at \$4.00 to 6.00 per week:		
James Inglis, 52 weeks	261 29	
George Breen, 21st July to 29th May	183 46 18 00	
Car fares of messengers	33 00	
		\$8,536 62
26. Biological Building and Department.		
(a) Maintenance of Building: Heat and light (supplied from Central Power Plant):		
Gas, city current and occasional fuel (\$67.26):		
Consumers' Gas Co	\$48 44	
Connell Anthracite Mining Co	18 82	
Water (\$53.25):	~0.07	
City Treasurer	53 25	
Caretaker's Supplies (\$180.20): Superintendent's Dept., supplies	180 20	
Cleaning (\$603.67):	100 20	
Allen Mfg. Co., laundry	20 38	
Canadian Window Cleaning Co., cleaning windows	30 00	
Superintendent's Dept., labor	553 29	

	26. Biological Building and Department.—Con-	inued	
		inueu.	
	Repairs and Renewals (\$1,202.92):		
	Wm. Bartlett & Sons, shades	9 23	
	Wm. Card, exterminating rats	12 00	
	City Treasurer, elevator license Elevator Specialty Co., repairs to elevator	5 00	
	A. Matthews, Ltd., repairs to roof, etc.	$   \begin{array}{ccc}     51 & 00 \\     188 & 20   \end{array} $	
	R. Robertson & Sons, repairs to masonry	25 94	
	Routery Bros., plastering	45 20	
	Superintendent's Dept., labor, \$577.79; material, \$288.56	866 35	
		\$2,107 30	
	Less sundry credits: repairs	5 35	
	-		
		\$2,101 95	
	Caretaker, D. J. Clark (with rooms, heat and light), 12	<b>5</b> 00 00	
	mouths, to 30th June	700 00	
	Attendant, Anatomical Section, Thos. Richardson, 12 months, to 30th June	595 00	
	months, at some	525 00	e2 226 05
161	Maintenance of Departments		\$3,326 95
(0)	Maintenance of Department:  Laboratory and Lecture Room Supplies (410.78):		
	Aikenhead Hardware, Ltd., hardware	\$6 24	
	Allen Mfg. Co., laundry	9 33	
	American Microscopical Society, publications	10 06	
	Art Metropole, pens	2 45	
	Bausch & Lomb Optical Co., supplies	50 67	
	W. R. Brock, Co., cloth	5 76	
	Canadian General Electric Co., carbons	5 07	
	Dominion Glass Co., glassware	27 88	
	T. Eaton Co., supplies	8 76	
	Freyseng Cork Co., corks	8 52	
	Ingram & Bell, chemicals	7 65	
	E. Leitz, carbons	22 36	
	Miss M. Mitchell, charts	12 00 $45 00$	
	Ontario Rubber Co., tubing	5 31	
	R. Pickeman, book	6 00	
	J. G. Ramsay & Co., photographic supplies	5 54	
	Richards Glass Co., vials	27 22	
	Spencer Lens Co., chemicals	3 65	
	Wm. Staughton, fodder	4 07	
	Students' Book Dept., books	6 95	
	Superintendent of Documents (Washington) bulletins	2 43	
	Tisdall Grocery Co., fodder	15 70	
	United Photographic Stores, supplies	9 89 <b>31 20</b>	
	Freight charges	41 39	
	Petty items (3)	4 88	
	Superintendent's Dept., labor, \$17.00; material, \$7.80	24 80	
]	Museum Specimens and supplies (\$322.89):	-1 00	
	Concilio Bibliographico, specimens	48 05	
	A. B. Cutcliffe, work on rhinoceros	50 00	
	T. Eaton Co., tubs	9 50	
	W. Harris & Co., cartage	5 00	
	C. R. Hodgins, specimens Lyman Bros. & Co., chemicals	25 00	
	Office Specialty Mfg. Co., cards	1 25	
	Oliver Spanner & Co., mounting	6 37	
	H. W. Spence, repairs to locks	$\begin{array}{cc} 6 & 00 \\ 24 & 00 \end{array}$	
	Ward's Natural Science Establishment, models	42 05	
	P. Wytsman, publications	52 33	
	Freight charges	7 52	
	Superintendent's Dept., labor, \$39.38; material, \$6.44	45 82	
I	Marine and Lake Laboratories (\$161.46):		

# $26.\ Biological\ Building\ and\ Department. — Continued.$

Travelling and other expenses: A. R. Cooper	\$40	00
Dr. E. M. Walker		76
R. P. Wodehouse	40	00
-	24.00	=-
	\$166	30
Less returned, unused of advances of 1912-13	3	
	\$161	46
Students' Laboratory Supplies (\$1,002.66):	0.0	00
Beaver Flint Glass Co., jars	•	00 79
W. R. Brock Co., cloth F. W. Campion, rabbits		50
J. J. Dickson, frogs		00
Dominion Glass Co., glassware		25
W A Frost rabbits		50
J. F. Hartz Co., slide boxes		50 25
Ingram & Bell, chemicals		41
C. A. F. Kahlbaum, chemicals		75
J. Klönne & G. Müller, glassware and supplies	242	65
Marine Biological Laboratories, specimens		10
Prof. W. H. Piersol, rabbits		30 60
Richards Glass Co., glassware		40
W. Lloyd-Wood, chemicals	188	
Freight charges	134	
Superintendent's Dept., material	3	25
Microscopes and Apparatus (\$298.65):	11	07
J. M. Dolbey, repairs to microscopes	153	67 68
E. Leitz, microscopes		40
A. F. Small, apparatus		25
James Stewart, aquarium boxes		40
A. R. Williams Machinery Co., drill	33	25
Furniture and Departmental Fittings (\$193.10):	10	00
Adams Furniture Co., stools		31
Office Specialty Mfg. Co., furniture		13
University Press, fyling cases	9	20
Superintendent's Dept., labor, \$41.58; material, \$46.88	88	46
Incidentals (\$105.42):	6	75
Artists' Supply Co., paper		74
Prof. B. A. Bensley, petty disbursements:	J	
Postage and car fare, \$14.52; laboratory supplies,		
\$9.69; photographic material, \$8.29; food for		
animals, \$5.28; hardware, \$4.52; express,		
\$2.30; sundries, \$5.15		
ness charged in 1912 io	39	42
C. W. Mack, rubber stamps		20
Remington Typewriter Co., inspection		75
United Typewriter Co., carbon paper		37 85
University Press, stationery and printing Petty, items (2)		89
Superintendent's Dept., labor, \$1.68; material, 77c		45
Messenger Service (\$222.00):		
Leonard Phillips, 37 weeks, to 7th June	222	2 00

### 27. Sub-Department of Botany.

Apparatus and Equipment (\$1,253.86):  Adams Furniture Co., stools	\$30 00
Bausch & Lomb Optical Co., apparatus	35 65
Elmer & Amend, apparatus	119 25
Gebrüder Borntraeger, apparatus	59 73 100 61
R. Jung, apparatus	159 85
Ernst Leitz, microscopes and apparatus	196 00
Library Bureau of Canada, cases	4 80
Photography, Dept. of, slides	16 75 58 67
Quelle & Meyer, apparatus	15 15
Topley Company, apparatus	85 95
H. C. Tugwell & Co., photographic apparatus	66 90
Eugen Ulmer, apparatus	6 02
Freight charges	$\begin{array}{ccc} 36 & 44 \\ 262 & 09 \end{array}$
Laboratory and Office Supplies (\$321.41):	202 00
Bausch & Lomb Optical Co., supplies	24 89
W. R. Brock & Co., cloth	20 16
The Bursar, postage supplied	5 00
Prof. J. H. Faull, petty disbursements:  Expenses collecting material, \$9.24; photographic	
supplies, \$5.86; laboratory supplies, \$6.19	21 29
J. F. Hartz & Co., bottles	4 00
Prof. C. D. Howe, petty disbursements:	
Cork bottles, \$3.50; thermometer, \$2.75; chemicals, \$2.55; specimens, \$2.45; sundries, \$5.07	16 32
Lyman Bros. & Co., chemicals	6 89
Marine Biological Laboratories, specimens	15 10
J. G. Ramsay & Co., photographic supplies	17 02
J. A. Simmers, seeds	0 80
Hardware, etc., \$13.59; freight and express charges,	
\$12.83; postage, car fares, etc., \$10.54; photo-	
graphic supplies, etc., \$7.40; typewriting, \$3.50;	
sundries, \$6.90; \$54.76, of which \$29.76 charged to 1914-15	25 00
Topley Company, chemicals and supplies	58 12
United Typewriter Co., inspection	7 25
University Press stationery and supplies	189 00
University Press, stationery and supplies	
Freight charges	4 33
Freight charges	4 33 16 24 \$431 41
Freight charges	4 33 16 24
Freight charges	4 33 16 24 \$431 41
Freight charges	\$431 41 110 00
Freight charges	\$433 41 110 00 \$321 41 18 07
Freight charges Superintendent's Dept. material  Less received from sales of supplies to students  Museum and Herbarium Supplies (\$508.91): Auburn Nurseries, Ltd., plants E. Bartholomew, specimens	\$4 33 16 24 \$431 41 110 00 \$321 41 18 07 12 30
Freight charges Superintendent's Dept. material  Less received from sales of supplies to students  Museum and Herbarium Supplies (\$508.91): Auburn Nurseries, Ltd., plants E. Bartholomew, specimens Cambridge Botanical Supply Co., supplies	\$431 41 110 00 \$321 41 18 07 12 30 2 55
Freight charges Superintendent's Dept. material  Less received from sales of supplies to students  Museum and Herbarium Supplies (\$508.91): Auburn Nurseries, Ltd., plants E. Bartholomew, specimens Cambridge Botanical Supply Co., supplies W. P. Carr, specimens	\$431 41 110 00 \$321 41 18 07 12 30 2 55 14 85
Freight charges Superintendent's Dept. material  Less received from sales of supplies to students  Museum and Herbarium Supplies (\$508.91): Auburn Nurseries, Ltd., plants E. Bartholomew, specimens Cambridge Botanical Supply Co., supplies W. P. Carr, specimens F. S. Collins & Co., plants Freek, Clark & Co., label holders	\$4 33 16 24 \$431 41 110 00 \$321 41 18 07 12 30 2 55 14 85 5 03 2 26
Freight charges Superintendent's Dept. material  Less received from sales of supplies to students  Museum and Herbarium Supplies (\$508.91): Auburn Nurseries, Ltd., plants E. Bartholomew, specimens Cambridge Botanical Supply Co., supplies W. P. Carr, specimens F. S. Collins & Co., plants Freek, Clark & Co., label holders W. T. Gardon, sections	\$4 33 16 24 \$431 41 110 00 \$321 41 18 07 12 30 2 55 14 85 5 03 2 26 17 73
Freight charges Superintendent's Dept. material  Less received from sales of supplies to students  Museum and Herbarium Supplies (\$508.91): Auburn Nurseries, Ltd., plants E. Bartholomew, specimens Cambridge Botanical Supply Co., supplies W. P. Carr, specimens F. S. Collins & Co., plants Freek, Clark & Co., label holders W. T. Gardon, sections Photography, Dept. of, slides	\$4 33 16 24 \$431 41 110 00 \$321 41 18 07 12 30 2 55 14 85 5 03 2 26 17 73 6 80
Freight charges Superintendent's Dept. material  Less received from sales of supplies to students  Museum and Herbarium Supplies (\$508.91): Auburn Nurseries, Ltd., plants E. Bartholomew, specimens Cambridge Botanical Supply Co., supplies W. P. Carr, specimens F. S. Collins & Co., plants Freek, Clark & Co., label holders W. T. Gardon, sections Photography, Dept. of, slides Rudd Paper Box Co., boxes	\$433 41 110 00 \$431 41 110 00 \$321 41 18 07 12 30 2 55 14 85 5 03 2 26 17 73 6 80 54 50
Freight charges Superintendent's Dept. material  Less received from sales of supplies to students  Museum and Herbarium Supplies (\$508.91): Auburn Nurseries, Ltd., plants E. Bartholomew, specimens Cambridge Botanical Supply Co., supplies W. P. Carr, specimens F. S. Collins & Co., plants Freek, Clark & Co., label holders W. T. Gardon, sections Photography, Dept. of, slides Rudd Paper Box Co., boxes P. Sydow, specimens	\$4 33 16 24 \$431 41 110 00 \$321 41 18 07 12 30 2 55 14 85 5 03 2 26 17 73 6 80
Freight charges Superintendent's Dept. material  Less received from sales of supplies to students  Museum and Herbarium Supplies (\$508.91): Auburn Nurseries, Ltd., plants E. Bartholomew, specimens Cambridge Botanical Supply Co., supplies W. P. Carr, specimens F. S. Collins & Co., plants Freek, Clark & Co., label holders W. T. Gardon, sections Photography, Dept. of, slides Rudd Paper Box Co., boxes P. Sydow, specimens Voigt & Hochgesang, supplies Ward's Natural Science Establishment, specimens	\$4 33 16 24  \$431 41 110 00  \$321 41  18 07 12 30 2 55 14 85 5 03 2 26 17 73 6 80 54 50 7 67 18 00 22 50
Freight charges Superintendent's Dept. material  Less received from sales of supplies to students  Museum and Herbarium Supplies (\$508.91): Auburn Nurseries, Ltd., plants E. Bartholomew, specimens Cambridge Botanical Supply Co., supplies W. P. Carr, specimens F. S. Collins & Co., plants Freek, Clark & Co., label holders W. T. Gardon, sections Photography, Dept. of, slides Rudd Paper Box Co., boxes P. Sydow, specimens Voigt & Hochgesang, supplies Ward's Natural Science Establishment, specimens Theodor Oswald Weigel, specimens	\$4 33 16 24  \$431 41 110 00  \$321 41  18 07 12 30 2 55  14 85 5 03 2 26 17 73 6 80 54 50 7 67 18 00 22 50 25 72
Freight charges Superintendent's Dept. material  Less received from sales of supplies to students  Museum and Herbarium Supplies (\$508.91): Auburn Nurseries, Ltd., plants E. Bartholomew, specimens Cambridge Botanical Supply Co., supplies W. P. Carr, specimens F. S. Collins & Co., plants Freek, Clark & Co., label holders W. T. Gardon, sections Photography, Dept. of, slides Rudd Paper Box Co., boxes P. Sydow, specimens Voigt & Hochgesang, supplies Ward's Natural Science Establishment, specimens Theodor Oswald Weigel, specimens James White, specimens, etc.	\$4 33 16 24  \$431 41 110 00  \$321 41  18 07 12 30 2 55  14 85 5 03 2 26 17 73 6 80 54 50 7 67 18 00 22 50 22 50 22 50 22 50 22 50 22 72 12 00
Freight charges Superintendent's Dept. material  Less received from sales of supplies to students  Museum and Herbarium Supplies (\$508.91): Auburn Nurseries, Ltd., plants E. Bartholomew, specimens Cambridge Botanical Supply Co., supplies W. P. Carr, specimens F. S. Collins & Co., plants Freek, Clark & Co., label holders W. T. Gardon, sections Photography, Dept. of, slides Rudd Paper Box Co., boxes P. Sydow, specimens Voigt & Hochgesang, supplies Ward's Natural Science Establishment, specimens Theodor Oswald Weigel, specimens	\$4 33 16 24  \$431 41 110 00  \$321 41  18 07 12 30 2 55  14 85 5 03 2 26 17 73 6 80 54 50 7 67 18 00 22 50 25 72

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27. Sub-Department of Botany.—Continued.		
Freight charges	22 85	
Petty items (2) Superintendent's Dept., labor, \$59.52; material, \$72,88 Assistance in Museum and Herbarium (\$428.20):	2 03 132 40	
A. E. Allin, 188 hours at 40c	75 20	
50c., \$25.00	53 00	
N. C. Hart, 58 hours at 50c	29 00	
H. B. Sifton, 142 hours at 50c	71 00	
at 5c	200 00	
American Forestry Co., trees	\$4 58	
Beaver Flint Glass Co., vials	16 00 2 20	
Henry A. Dreer, seed	2 89	
F. J. Grootendorst & Son. plants	14 45	,
Thos. Meehan & Sons, plants	8 04	
A. A. Moses, tools	8 41 6 80	
Sand & Supply Co., sand	2 60	
J. A. Simmers, seeds University Press, labels	13 00	
Freight charges	2 00 12 66	
Petty items (2)	3 50	
Superintendent's Dept., labor, \$123.44; material, \$93.97	217 41	
George Cruden, 802 hours at 25c	200 50 111 00	
\$108.00; 1 month at \$50.00; 1 month at \$55.00	216 00	
J. Pilsbury, 16 hours at 25c.	4 00	
John Scott, 80 hours at 25c., \$20.00; 2 days at \$2.00, \$4.00	24 00	
A. Wesley, 60 hours at 25c.	15 00	
Clerical Assistance (\$124.95): Arthur Allen, 20 hours at 20c	4 00	
Miles Burford, 341 hours at 35c.	119 35	
J. Cruickshanks, 8 hours at 20c	1 60	
R. Robertson & Sons, alterations to windows	\$25 00	
Superintendent's Dept., labor, \$317.17; material, \$161.98	479 15	
		\$4,026
28. Department of Bio-Chemistry.		
Maintenance, laboratory and office supplies (\$1,392.65): Allen Mfg. Co., laundry	\$4 65	
Art Metropole, supplies	7 94	
Baird & Tatlock, Ltd., chemicals and supplies	208 44	
Canadian Carbonate Co., gas	19 50 12 66	
Dominion Carbonic Co., gas	30 00	
T. Eaton Co., towels, \$15.00; chairs, \$40.50	55 50	
Eimer & Amend, chemicals	317 81 35 00	
Lake Simcoe Ice Co., Ice	31 02	
E. Leitz, apparatus	24 70 58 50	
Rice, Lewis & Son, refrigerator	20 19	
Prof A. B. Macallum, disbursements:		
Animals \$12.53; groceries, \$8.00; specimens and		
car fares, \$5.39; laboratory supplies, \$4.99; animal food, \$2.13; sundries, \$7.91	40 95	
A. D. Macallum, draughting	56 50	

28. Department of Bio-Chemistry.—Continued		
Office Specialty Mfg. Co., cabinet	36 75 12 93	
Ontario Rubber Co., tubing	19 35	
Physiology, Dept. of, fodder supplied	51 85	
A. Pride, backing diagrams	4 58	
Steele Briggs Seed Co., seed	12 50	
Students' Book Dept., books	84 70	
Toronto Hydro-Electric System, apparatus	70 00 10 50	
United Typewriter Co., inspection	46 15	
Freight charges	23 27	
Petty items (5)	5 41	
Superintendent's Dept., labor, \$99.51; material, \$120.66	220 17	
Tara and Inc. (11)	\$1,521 52	
Less sundry credits:  Received from students for breakages, etc \$124 87		
Received from students for breakages, etc \$124 87 Inland Revenue Dept., allowance on barrels		
returned		
	128 87	
_		\$1,392 65
29. Department of Physiology.		
Maintenance, laboratory and office supplies (\$1,611.79):		
Aikenhead Hardware, Ltd., hardware	\$30 00	
F. E. Becker & Co., glassware and chemicals	366 94	
Wm. Blaikie, castings	3 19	
Prof. T. G. Brodie, disbursements: Hardware, \$43.74; laboratory supplies, \$31.79;		
postage and car fares, \$19.57; laundry, \$15.75;		
photographic supplies, \$13.45; animals, \$11.50;		
utensils, \$7.70; paint and oil, \$6.05; chemicals,		
\$5.25; food for animals, \$4.05; cables, \$2.99;	100 40	
sundries, \$7.65	$169 49 \\ 13 55$	
Canadian Independent Telephone Co., timer and relay.	13 70	
J. A. Fontaine, frogs	64 00	
Harvard Apparatus Co., supplies	19 78	
Ingram & Bell, chemicals and supplies	57 00	
Inland Revenue Dept., methylated spirits	31 12 41 58	
Library Bureau of Canada, cases, etc	6 27	
T. J. McDonnell, rabbits	9 00	
Northern Electric & Mfg. Co., batteries	21 88	
Walter Oehmke, filter paper	6 00	
Ontario Rubber Co., tubing	6 75	
Chas. Potter, photographic supplies	11 65 98 <b>6</b> 9	
Wm. Staughton, fodder	57 50	
Toronto Dog and Cat Hospital, animals	224 <b>2</b> 5	
H. C. Tugwell & Co., photographic supplies	33 88	
United Typewriter Co., inspection	6 00	
University Press, stationery and printing	126 17	
Freight charges	61 96	
Petty items (6)	6 74 176 55	
Superintendent's Dept., labor, \$80.29; material, \$96.26	110 00	
	\$1,663 64	
Less credit from Bio-Chemical Dept	51 85	
Apparatus (\$487.20):	\$1,611 79	
Cambridge Scientific Instrument Co., galvanometer	\$136 26	
John McCall, apparatus	24 36	
Walter Oehmke, apparatus	39 03	

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29. Department of Physiology.—Continued.			
R. Robertson & Sons, base for compressor Topley Company, apparatus Carl Zeiss, apparatus Freight charges	7 25 19 40 219 61 41 29	\$2,098	99
30. Chemical Building and Department.			
(a) Maintenance of Building:			
Heat and light (supplied from Central Power Plant):			
Gas, city current and occasional fuel (\$210.98):  Consumers' Gas Co	\$210 98		
Water (\$62.98):			
City Treasurer Caretaker's Supplies (\$46.37):	62 98		
Superintendent's Dept., supplies	46 37		
Cleaning (\$574.04): Allen Mfg. Co., laundry	4 40		
Canadian Window Cleaning Co., cleaning windows	11 00		
Superintendent's Dept., labor	558 64		
Wm. Card, exterminating rats	12 00		
A. Matthews, Ltd., repairs to roof	114 70 573 62		
	\$1,594 69		
Less sundry credits; cleaning	2 00		
Caretaker, E. Repath (paid as laboratory attendant, with		\$1,592	69
rooms, fuel and light chargeable against building and			
included in above)			
Chemicals, glassware and apparatus (\$2,391.98):			
Aikenhead Hardware Co., hardware	\$20 44		
Less allowance for cases and bottles returned 58 40			
Bausch & Lomb Ontical Co., apparatus and supplies	76 15 575 64		
Boeckh Bros. & Co., brushes	55 13		
J. Bishop & Co., platinum wire	121 10		
plant	5 82		
Dominon Carbonic Co., gas Eimer & Amend, combustion furnace	7 50 100 00		
Fletcher Mfg. Co., utensils	11 25		
Freyseng Cork Co., corks	27 40 89 98		
Inland Revenue Dept., methylated spirits	37 29		
C. A. F. Kahlbaum, chemicals	1,261 06		
Prof. W. R. Lang, disbursements:  Postage and car fares, \$6.01; hardware, \$5.66;			
groceries, \$3.45; card catalogue, \$2.05; sundries, \$8.57	25 74		
Lyman Bros. & Co., chemicals	145 20		
Ontario Rubber Co., tubing	44 21		
for old machine, \$20.00—\$70.00, of which \$40.00	22.22		
charged to Pathology	30 00 229 65		
Freight charges	41 59		
Petty items (2)	3 20 283 <b>63</b>		
	\$3,191 98		
Less received from students' account	800 00		
	\$2,391 98		

	30. Chemical Building and Department.—Contin	nued.	
	Laboratory shelving, cupboards, etc. (\$227.91):  R. Robertson & Sons, beam	49 00	
	Superintendent's Dept., labor, \$115.14; material, \$63.77	178 91	
	Superintendent of Soprin, that is, years and years		\$2,619 89
		_	\$4,212 58
			φ4,212 30
	31. Sub-Department of Physical Chemistry	•	
	Chemicals, apparatus and maintenance (\$495.73):		
	American Platinum Works, platinum ware	\$27 12	
	Central Electric Supply Co., sockets	7 20	
	Eimer & Amend, incubator, etc	192 51	
	P. W. Ellis & Co., apparatus	110 00	
	Fletcher Mfg. Co., apparatus and supplies	82 48	
	F. D. Mezen, apparatus	8 40	
	Prof. W. Lash Miller, disbursements: Typewriting, \$9.00; chemicals, \$8.35; sundries, \$3.50.	20 85	
	Office Specialty Mfg. Co., cabinet	12 99	
	University Press, paper	1 10	
	Freight charges	2 25	
	Superintendent's Dept., labor, \$18.19; material, \$12.64.	30 83	A 105 50
	32. Physics Building and Department.		\$495 73
(a)	Maintenance of Building:		
	Heat and light (supplied from Central Power Plant): Gas, city current and occasional fuel (\$81.48):		-
	Consumers' Gas Co.	\$81 48	
	Water (\$137.07):	ψ01 10	
	City Treasurer	137 07	
	Caretaker's Supplies (\$95.62):		
	Superintendent's Dept., supplies	95 62	
	Cleaning (\$880.23): Allen Mfg. Co., laundry	4 49	
	Canadian Window Cleaning Co., cleaning windows	33 00	
	Superintendent's Dept., labor	842 74	
	Repairs and Renewals (\$1,208.38):		
	Wm. Card, exterminating rats	12 00	
	City Treasurer, elevator license	5 00	
	Johnston Temperature Regulating Co., regulators	51 12	
	Otis-Fenson Elevator Co., repairs to elevator	46 25	
	R. Robertson & Sons, masonry	143 63 950 38	
	Supermendent's Dept., labor, \$120.38, material, \$223.40	300 00	
		\$2,402 78	
	Less sundry credits, repairs, \$18.62; cleaning, \$33.50	52 12	
	-		
	Caretaker, J. Wicksey (paid also \$350.00 as laboratory car-	\$2,350 66	
	penter)	550 00	
	-		\$2,900 66
(b)	Maintenance of Department:		
	Laboratory and workshop supplies (\$2,259.29):		
	Alkenhead Hardware Ltd., hardware	\$266 92	
	Allen Mfg. Co., laundry Art Metropole, paper	11 12 2 19	
	British American Oil Co., oil	4 95	
	British Aluminum Co., aluminum	4 75	
	Buchler & Co., polonium	96 17	
	Canada Metal Co., tin	7 01	
	Canadian Allis-Chalmers Ltd., iron	3 25	
	Canadian Carbonate Co., gas	3 00	
	Canadian Seamless Wire Co., wire  John Catto & Son, towels	- 2 48	
	Central Electric Supply Co., electrical supplies	9 00 185 28	
	2 Supply ou, diconical supplies	100 20	

# 32. Physics Building and Department.—Continued.

Consumers' Gas Co., tubing	8 96
Consumers Gas Co., tubing	
Dominion Carbonic Co., gas	11 25
Dominion Photo Supply Co., photographic supplies	16 06
T. Eaton Co., supplies	22 19
Time O Amond tubing oto	18 95
Eimer & Amend, tubing, etc.	
Goldsmith Bros., platinum, etc	37 52
W. & J. G. Greey, castings	16 21
J. F. Hartz Co., stoppers	3 38
Geo. M. Hendry & Co., tubing, etc.	5 10
Adam Hilger & Co., scales	11 20
Wm. Jessop & Son, steel	16 23
Johnston, Matthey & Co., platinum wire	40 72
Kimble-Durand Glass Co., tubing	6 02
Albert Kleiser & Co., silver	5 00
Max Kohl, glassware, etc	14 50
Lake Simcoe Ice Co., ice	30 20
Lake Sinicoe ice Co., ice	
Ernst Leitz, supplies	10 03
Rice, Lewis & Son, steel	4 38
Lyman Bros. & Co., chemicals	110 95
Lyman Bros. & Co., chemicals	110 00
Prof. J. C. McLennan, disbursements:	
Postage and express, \$17.70; hardware, \$4.83; mes-	
senger service, \$3.05; sundries, \$10.59	36 17
James Morrison Brass Mfg. Co., tubing	5 40
James Morrison Brass Mig. Co., tubing	
R. Müller-Uri, glassware	245 80
Ontario Rubber Co., tubing	$22 \ 25$
H. W. Petrie, Ltd., lathe	60 05
	3 51
Planet Bicycle Co., tube	
Chas. Potter, gas	26 70
W. G. Pye & Co., supplies	246 43
Queen City Brass Foundry Co., castings	24 05
T. C. Daniel C. C. photographic complice	3 25
J. G. Ramsay & Co., photographic supplies	
Rogers Electric Co., bronze table	3 30
Ryrie Bros., repairs	5 50
Sanderson, Pearcy & Co., enamel	3 16
Silica Syndicate, tubing	131 50
Standard Foundry Co., castings	4 00
Thermal Syndicate, glassware	36 33
Toronto Salt Works, salt	5 00
Toronto School Supply Co., supplies	$20 \ 26$
United Photographic Stores, photographic supplies	7 03
University Press, printing and stationery	134 75
John Wanless & Co., repairs	2 50
Weston Electrical Instrument Co., electrical supplies	24 68
Whaley Royce & Co., repairs	3 00
	8 70
Wheeler & Bain, zinc, etc.	
Wratten & Wainwright, photographic supplies	47 22
Freight charges	51 00
Petty items (13)	17 42
	95 36
Superintendent's Dept., labor, \$13.53; material, \$81.83	99 90
Apparatus (\$1,438.72):	
Cambridge Scientific Instrument Co	190 85
Canadian General Electric Co	3 60
J. Carpentier	45 52
T. Eaton Co., Ltd	12 50
Günter & Tegetmeyer	47 18
	267 85
Adam Hilger, Ltd.	
Ernst Leitz	29 20
W. G. Pye & Co	535 02
Franz Schmidt & Haensch	83 94
Thompson Ahorn & Co	13 83
Thompson, Ahern & Co.	
Weston Electrical Instrument Co	134 90
A. R. Williams Machinery Co	10 00
C. Wilson & Son	4 85
Freight charges	51 48
Superintendent's Dept., material	8 00
Experimental tables, cases, books, charts, etc. (\$479.36):	
, , , , , , , , , , , , , , , , , , , ,	

\$1,040 68

32. Physics Building and Department.—Contin	ued.	
Adams Furniture Co., chairs	12 72	
Boake Mfg. Co., lumber	64 83	
W. Booth Lumber Co., lumber T. Eaton Co., stools	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
MacMillan & Co., Ltd., subscription	7 43	
Ph. Rettig, cage	72 15	
R. Robertson & Sons, stone table	100 00	
University Press, printing and stationery	$     \begin{array}{ccc}       20 & 60 \\       19 & 95     \end{array} $	
Freight charges	2 76	
Petty items (2)	2 93	
Superintendent's Dept., labor, \$53.84; material, \$77.68 Workshop Assistance (\$344.40):	131 52	
E. Slade, 52 weeks at \$6.60 \$343 20		
Overtime, 8 hours at 15c 1 20	20.00	
	344 40	94 501 77
	_	\$4,521 77
		<b>67.400.40</b>
33. Sub-Department of Astro-Physics.		\$7,422 43
Maintenance (\$321.06):	# 1 P	
Aikenhead Hardware Ltd., hardware	\$1 25 16 88	
Prof. C. A. Chant, disbursements:	10 00	
Laboratory supplies, \$11.40; drawing material, \$3.51;		
repairs, \$2.75; express and postage, \$4.55; sundries, \$10.24	32 45	
Harvard University, negatives	34 35	
Geo. M. Hendry Co., mounting charts	12 45	
D. J. Howell, plates	3 85	
J. L. Jones Engraving Co., cuts Geo. B. Meadows Co., models	8 95 8 30	
Northern Electric & Mfg. Co., supplies	12 34	
"Popular Astronomy," Carleton College, slides and		
prints	9 06 2 00	
J. G. Ramsay & Co., photographic supplies	9 75	
G. W. Ritchey, prints	12 10	
Students' Book Dept., books	26 05	
University of Chicago, prints	15 82 37 10	
Freight charges	23 67	
Superintendent's Dept., labor, \$37.76; material, \$16.93.	54 69	
Apparatus (\$719.62):  Bernhard Liebisch, atlas	4 29	
Clipsham & Delamere, apparatus	30 00	
E. Dent & Co., apparatus	222 46	
Foote Mineral Co., specimens	16 10 51 95	
R. Müller-Uri, apparatus	101 64	
Newton & Co., slides	24 81	
Photography, Dept. of, slides	13 85	
Underwood & Underwood, slides	2 53 20 00	
E. R. Watts & Son, apparatus	161 00	
Max Weg, maps and atlas	75 52	
Freight charges	7 81 47 25	
I am andit for apparetual harbon to torrit	\$1,100 27	
Less credit for apparatus broken in transit	59 59	

## 34. Geological Department.

Maintenance (\$301.43):		
Bausch & Lomb Optical Co., magnifiers and supplies	\$47 05	
Dominion Paper Box Co., trays	8 25	
Geo. M. Hendry Co., map	9 00	
International Geological Congress, guide books	25 00	
Office Specialty Mfg. Co., fyles	3 78	
Prof. W. A. Parks, petty disbursements	4 10	
D. Pike & Co., bags	7 20	
Photography, Dept. of, prints and slides	46 95	
Max Weg, books	9 06 13 50	
G. R. Workman, draughting	21 00	
University Press, printing and stationery	166 00	
Freight charges	1 77	
Petty items (2)	2 02	
Superintendent's Dept., labor, \$1.40; material, \$4.50	5 90	
_		
	370 58	
Less received from students for breakages	69 15	•
_	201 40	
Palmontological Material (\$72.54):	301 43	
Palæontological Material (\$72.54): Grebel, Wendler & Cie, specimens	67 33	
Ward's Natural Science Establishment, specimens	5 21	
Storage Cases (\$158.18):	0 21	
Office Specialty Mfg. Co., storage cases	158 18	
		\$532 15
35. Mineralogical Department.		
3F. ' . (00F0.00) .		
Maintenance (\$352.20):  Eimer & Amend, crucibles, etc	995C 07	
Fletcher Mfg. Co., bowls	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Fritz Köhler, supplies	13 45	
Lyman Bros. & Co., chemicals	36 59	
Norman Macdonald, carborundum	3 07	
Ontario Lime Co., plaster	1 85	
Peter Stöe, cutting topaz	5 05	
Students' Book Dept., books	5 10	
Toronto Electric Light Co., plate	5 00	
Prof. T. L. Walker, disbursements:		
Travelling expenses, \$14.00; postage, \$3.99; labor,		
\$3.60; sundries, \$9.50	31 09	
Ward's Natural Science Establishment, specimens	23 63	
Max Weg, books	18 97 44 60	
Freight charges	17 13	
Superintendent's Dept., labor, \$4.99; material, \$12.10	17 09	
	\$490 94	
Less received from students for breakages, sales of		
minerals, etc., Sessions 1912-13 and 1913-14	138 74	
	4050.00	
	\$352 20	
Apparatus (\$286.69):		
Peter Stöe, apparatus	286 69	
Cases and trays (\$154.55):		
Superintendent's Dept., labor, \$122.61; material, \$31.94	154 55	
_		\$793 44
26 Payahalagian Danauturant		
36. Psychological Department.		
Maintenance (\$384.97):		
T. Eaton Co., stop watch	\$14 00	
Gas Control Co., rent of governor	4 20	
Office Specialty Mfg. Co., table	4 00	

	36. Psychological Department.—Continued.		
	Prof. W. G. Smith, disbursements:  Laboratory supplies, \$15.12; cleaning and painting, \$9.00; lenses and mirrors, \$4.66; photographic work, \$4.00; bow, \$3.00; sundries, \$4.22  C. H. Stoelting Co., apparatus Students' Book Dept., books University Press, stationery Young People's Forward Movement, lantern Freight charges Superintendent's Dept., labor, \$60.36; material, \$70.98.  Laboratory assistance (\$200.00): John Line Lloyd Smith	40 00 95 33 19 75 15 10 53 50 7 75 131 34 100 00 100 00	<b>\$</b> 584 97
	37. Mathematical Department.		
Clas	ss Room Supplies (\$10.80): University Press, stationery	\$8 15 2 65	\$10 80
	38. Sub-Department of Mechanics.		
	Intenance and Supplies (\$77.50):  Art Metropole, pins Freek, Clark & Co., hardware Longmans, Green & Co., book Renouf Publishing Co., book Students' Book Dept., books University Press, stationery Superintendent's Dept., labor, \$5.28; material, \$6.32.  paratus (\$235.30): Freek, Clark & Co. Keufel & Esser W. F. Stanley & Co. University Press Freight charges Superintendent's Dept., labor, \$7.15; material, \$6.85.	\$3 00 11 30 3 36 1 22 25 85 21 17 11 60 31 41 49 27 66 22 69 50 4 90 14 00	\$312 80
	20 Delitical Science		,
Cla	39. Political Science.  ass Room Supplies (\$151.24): Office Specialty Mfg. Co., furniture	\$114 79 18 15 18 30	<b>\$151 24</b>
	40. History.		
Cla	ass Room Supplies (\$28.19): Geo. M. Hendry & Co., maps University Press, printing	\$18 69 9 50	\$28 19
	41. Italian and Spanish.		
Cl	ass Room, Supplies (\$25.75): Photography, Dept. of, slides Students' Book Dept., books University Press, stationery	\$12 75 4 00 9 00	\$25 75
	8 B.G.		ψ20 10

\$1,455 58

42. University College Departments.		
Greek (\$127.50): Prof. A. Carruthers, slides Photography, Dept. of, slides	\$125 00 2 50	
Latin (\$41.73):  Geo. M. Hendry & Co., maps  Photography, Dept. of, slides  University Press, printing, etc.	15 68 8 75 17 30	5
English (\$573.85): University Press, stationery	8 85	5
Reading Essays:  Mrs. P. Cudmore  Mrs. Mabel Hincks  Miss H. G. Macdonald  Miss Mona McLaughlin	150 00 150 00 115 00 150 00	0
French (\$100.54): Central Electric Supply Co., lens Photography, Dept. of, slides Chas. Potter, camera Students' Book Dept., books and stationery Topley Co., carbons University Press, printing, etc. Freight charges Superintendent's Dept., labor, \$1.86; material, 54c.	7 95 1 50 3 75 44 55 2 64 37 35 40 2 40	0 5 4 5 0
German (\$3.75): University Press, stationery	3 75	5
Orientals (\$107.06): Prof. J. F. McCurdy, books Students' Book Dept., books University Press, binding, etc.	13 66 88 15 5 25	
Ethics (\$9.25): Office Specialty Mfg. Co., fyle	6 00 <b>3</b> 25	
General Expenses: Stationery (\$48.40): The Bursar, postage supplied University Press, stationery	10 00 38 40	
Printing (\$10.55): University Press, printing	10 55	
Evening Telegram News Publishing Co. Toronto Daily Star Clerical Assistance to Registrar (\$343.20):	1 80 1 20 1 80	
Miss C. Tocque, 596 hours at 50c	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Incidentals (\$84.95): College Sermons Committee, hymnals Dominion Typewriter Exchange, supplies Gourlay, Winter & Leeming, piano hire Ryrie Bros., medal Toronto Railway & Steamboat Guide Co., sub. to Guide University Press, paper weight Superintendent's Dept., labor, 45c.; material, 5c	25 00 2 70 26 00 25 00 5 20 55 50	

### 43. World History.

	43. World History.		
Supp	plies (\$66.89):	<b>\$</b> 29 79	
	Theodor Benzinger, slides Photography, Dept. of, slides University Press, printing, etc.	2 25 34 70	
	Freight charges	15	\$66 89
	44. Trinity College Service.		
	Bursar, Trinity College, students' car fares paid for transportation to University lectures	\$794 36	\$794 36
		-	φ13± 00
	45. University Extension.		
	Summer Session, 1913 (\$3,823.08): Remuneration to Instructors:		
	Wm. Pakenham, English (and Director)	\$350 00	
	I. M. Levan, English	$\begin{array}{ccc} 250 & 00 \\ 250 & 00 \end{array}$	
	J. G. Workman, Mathematics	250 00	
	Wm. Ward, Commerce	$\begin{array}{ccc} 250 & 00 \\ 200 & 00 \end{array}$	
	A. N. Scarrow, Manual Training	200 00	
	A. T. Cringan, Music	200 00	
	Dr. J. W. Barton, Physical Training	$250 00 \\ 100 00$	
	G. N. Bramfitt, Physical Training	100 00	
	Miss Ivy Coventry, Physical training	120 00	
	Miss Hazel Doran, Physical Training	80 00 150 00	
	Miss L. L. Ockley, Household Science	150 00	
177	Miss Muriel Miller, Household Science	75 00	
E.	xpenses: Manual Training:		
	R. Laidlaw & Co., lumber	24 88	
	University Press, stationery and supplies	15 37	
	United Typewriter Co., rental of typewriter	9 75	
	Elementary Science:	15 48	
	Kny-Scheerer Co., specimens	19 40	
	Gourlay, Winter & Leeming, rental of piano	6 00	
	Physical Training: Connell Anthracite Mining Co., fuel for heating swim-		
	ming tanks	35 59	
	Mrs. Dixon, cleaner at gymnasium	14 00	
	Wm. Davies Co., provisions	3 15	
	Alex. Provan, provisions	17 87	
	City Dairy, milk	$\begin{array}{cc}1&00\\2&70\end{array}$	
S	pring Session in Household Science (April to June, 1913): Remuneration to Instructors:	2 .0	
	Miss E. M. Eadie	150 00	
	Miss A. L. Laird	100 00 150 00	
	Miss H. A. Paul	150 00	
	Miss L. L. Ockley	150 00	
	Expenses: Alex. Provan, provisions	22 59	
	City Dairy, milk	10 00	

45. University Extension.—Continued.		
Wm. Davies Co., provisions R. Barron, Ltd., provisions		47 74
Less paid in 1912-13	\$3,860 37	59 51
	\$3,823	
(Amount paid by the Provincial Government on account of Session 1913, \$3,860.59, included in Revenue from Fees.)	φ <b>υ</b> ,02υ	Vo
Correspondence Courses between Summer Sessions (\$1,561.04): Remuneration to Instructors (\$1,093.00):		
J. O. Carlisle	$\begin{array}{c} 21 \\ 201 \end{array}$	00 50
H. J. Crawford	180	
J. T. Crawford	115	
W. C. Ferguson H. A. Grainger	167	00 50
D. E. Hamilton		50
H. G. Manning		50
O. J. Stevenson	105 96	50
J. G. Workman		50
Expenses (\$468.04):		
Miss A. M. Brown, addressing circulars	10 111	67 32
Grand & Toy, Ltd., paper		00
Office Specialty Mfg. Co., cabinet	49	89
United Typewriter Co., rent of neostyle, \$15.00; supplies, \$12.11	27	11
University Press, printing, etc.	229	
Wm. Ward, duplicating	. 37	55
Preliminary Expenses, Summer Session, 1914 (\$331.30): The Bursar, postage supplied	130	00
Miss A. L. Laird, flannel, cotton, etc		00
University Press, printing and stationery	113	55
Printing and mailing circulars: H. Edwards	47	75
G. A. Walton		00
J. A. Whiting	24	00
(b) Teachers' Course (\$4.50): University Press, printing	1	50
c) Local Lectures (\$262.70):	4	50
Remuneration to Lecturers (\$215.00):		
A. H. Abbott	111 100	
W. J. Alexander J. A. Amyot		50
B. A. Bensley		0.0
G. S. Brett	110	50 00
C. A. Chant		30
F. E. Coombs		00
G. A. Cornish	132 13	
J. H. Faulli		00
M. Hutton	5	00
G. E. Jackson		00
E. J. Kylie W. A. Parks		00
M. W. Wallace	118	0.0
A. H. Young	5	00
Less paid by local centres	\$893 678	
Less pard by rocal centres	010	
	\$215	00

	45. University Extension.—Continued.		
	Printing, etc. (\$47.70):  Toronto Weekly Railway and Steamboat Guide Co.,		
	subscription to Guide	3 00	
(1)	University Press, printing Office Expenses (\$1,707.67):	44 70	
( 0 )	The Bursar, postage supplied	130 00	
	Grand & Toy, Ltd., stationery C. W. Mack, rubber stamp	6 70 1 25	
	Office Specialty Mfg. Co., folders	1 10	
	United Typewriter Co., inspection	10 70 79 90	
	Superintendent's Dept., labor, \$24.85; material, \$13.17	38 02	
	A. H. Abbott, services as secretary	300 00 500 00	
	E. A. Bott, services as assistant secretary	300 00	
	Miss C. Mead, 5 weeks at \$10.00 per week	50 00	
	Miss D. V. Freeborough, 4 weeks at \$15.00 per week Miss C. McCallum, 34 weeks at \$10.00, \$340.00; 8 weeks	60 00	
	at \$11.25, \$90.00; bonus for extra services, \$100.00	530 00	07.000.00
	·		\$7,690 29
			\$294,046 31
	III. FACULTY OF MEDICINE.		
	46. Salaries.		
An	atomy:		
ZXII	J. P. McMurrich, Professor, 12 mos. to 30th June	\$4,000 00	
	J. C. Watt, Lecturer (Sessional)	1,400 00	
	Assistants (Sessional): C. J. Copp	150 00	
	N. D. Frawley	150 00 150 00	
	W. B. Hendry (paid also in Gynæcology)) E. R. Hooper	150 00	
	W. W. Jones (paid also in Clinical Surgery))	150 00	
	O. A. McNichol W. A. Scott (paid also in Clinical Surgery)	150 00 150 00	
	N. S. Shenstone (paid also in Clinical Surgery)	150 00	
	C. B. Shuttleworth (paid also in Clinical Surgery) G. E. Wilson (paid also in Clinical Surgery)	150 00 150 00	
	W. W. Wright (paid also in Clinical Surgery)	150 00	
	G. R. Philp Technical Assistant:	50 00	
	Miss A. S. McDougall, 1st July to 31st Dec. at \$450 per		
	annum (resigned)	225 00	
	Miss J. Mair, 26th Jan. to 28th Feb. at \$436 per annum (resigned)	43 35	
	Miss M. Black, 5th March to 30th June at \$436 per		
	G. Lynne, Attendant, Dissecting Room, 12 mos. to 30th June	141 70 800 00	
	-		\$8,310 05
Pa	thology and Bacteriology:		
	J. J. Mackenzie, Professor, 12 months, to 30th June	3,600 00	
	D. Graham, Lecturer in Bacteriology (Sessional) A. I. McCalla, Fellow (Sessional), at \$500 (resigned 1st	1,700 00	
	March)	312 50	
	D. E. Robertson, Demonstrator and Assistant Curator of Pathological Museum (Sessional—paid also in Clinical		
	Surgery)	300 00	
	Assistants (Sessional):  O. R. Mabee	150 00	
	F. E. Watts (resigned 31st December)	75 00	
	C. E. C. Cole (paid also in Therapeutics)  J. A. Oille (paid also in Clinical Medicine)	100 00 100 00	
	the offic (para also in official medicine)	100 00	

46. Salaries.—Continued.		
G. A. Campbell J. M. Livingstone H. J. Shields L. B. Robertson (Easter Term)	50 00 50 00 50 00 25 00	
Assistants in Clinical Laboratory (Sessional): D. H. Boddington (paid also in Chemical Pathology) N. T. Maclaurin	125 00 150 00	
of Pathological building  F. Thibault  Glass-blowers, share of salaries detailed under Physiology  Miss I. E. Ruttan, Stenographer, 12 months to 30th June.	400 00 650 00 50 00 700 00	
_		\$8,587 50
Chemical Pathology: J. B. Leathes, Professor, 12 months to 30th June F. W. Rolph, Demonstrator, \$500; Assistant in Clinical	3,600 00	
Laboratory, \$250 (Sessional)	750 00	
Chemistry)	200 00	
sional—paid also in Pathology)	125 00 600 00	
Laboratory Attendants:  E. Blackaby, 1st July to 15th August at \$400 per annum (resigned)	50 00	
week (part time)	163 50 50 00	
		\$5,538 50
Pharmacy and Pharmacology: V. E. Henderson, Associate Professor, 12 months, to 30th		
June J. A. MacDonald, Instructor (Sessional) Class Assistants (Sessional):	\$2,500 00 200 00	
J. H. Duncan R. I. Harris F. C. Harrison	75 00 75 00 75 00	
D. E. S. Wishart T. James, Laboratory Assistant, 12 months, to 30th June.	75 00 650 00	
		\$3,650 00
Clinical Departments:  Medicine and Clinical Medicine:		
Associates (each 12 months to 30th June):  W. J. McCollum  J. H. Elliott  H. C. Parsons  G. W. Howland  H. S. Hutchison	\$300 00 300 00 300 00 300 00 300 00	
D. McGillivray  Demonstrators, Clinical Medicine (Sessional):  E. C. Burson	300 00 250 00	
F. A. Clarkson J. S. Graham J. H. McPhedran	250 00 250 00 250 00	
C. S. McVicar B. O'Reilly	250 00 250 00	
D. K. Smith G. S. Strathy C. J. Wegner	250 00 250 00 250 00	
C. J. Wagner A. J. Mackenzie R. W. Mann	200 00 200 00 200 00	
G. W. Ross	200 00	

\$500 00

10	OTTI DILOTT OF TOTAL OF		
	to C. V. i. Cartinual		
	46. Salaries.—Continued.		
	G. S. Young	200 00	
	W. F. McPhedran (for services Oct. and Nov., 1912)	50 00	
	Assistants, Clinical Medicine (Sessional):	150 00	
	A. W. Canfield (Pediatrics)	100 00	
	J. D. Loudon	100 00	
	J. A. Oille (paid also in Pathology)	100 00	
	M. B. Whyte	100 00	
~			\$5,450 00
Sur	gery and Clinical Surgery:		
	Associates, each 12 mos. to 30th June:  C. B. Shuttleworth (paid also in Anatomy)	300 00	
	J. F. Uren	300 00	
	T. B. Richardson	300 00	
	W. W. Jones (paid also in Anatomy)	300 00	
	W. J. O. Malloch	300 00	
	E. S. Ryerson (paid also as Assistant Secretary to Faculty)	300 00	
	W. A. Scott (paid also in Anatomy)	300 00	
	G. Silverthorn	300 00	
	Demonstrators, Clinical Surgery (Sessional):	000	-
	M. H. V. Cameron	200 00	
	R. E. Gaby (paid also in Bio-Chemistry) W. E. Gallie	$\begin{array}{cccc} 200 & 00 \\ 200 & 00 \end{array}$	
	J. A. Roberts	200 00	
	N. S. Shenstone (paid also in Anatomy)	200 00	
	G. E. Wilson (paid also in Anatomy)	200 00	
	A. B. Wright	200 00	
	Assistants, Clinical Surgery (Sessional):	400 00	
	A. S. Moorhead	$100 00 \\ 50 00$	
	D. E. Robertson (paid also in Pathology) W. W. Wright (paid also in Anatomy)	50 00	
	E. C. Williams, Laboratory Attendant, 1 Aug. to	00 00	
	30 June, at \$500 per an., of which one-half		
	charged to Physiology	229 17	
Oh			\$4,229 17
QD.	stetrics and Gynæcology: Demonstrators, Obstetrics (Sessional):		
	M. M. Crawford	\$250 00	
	J. A. Kinnear	250 00	
	W. J. Mabee	200 00	
	Demonstrators, Gynaecology (Sessional):	250 00	
	A. C. Hendrick	$\begin{array}{ccc} 250 & 00 \\ 250 & 00 \end{array}$	
	Helen MacMurchy	250 00 250 00	
	Assistants, Obstetrics (Sessional):	200 00	
	S. J. N. Magwood	150 00	
	G. Gallie	50 00	
	Assistant, Gynæcology (Sessional):	450.00	,
	F. A. Cleland	150 00	
	A. Johnston, Laboratory Attendant, 12 mos. to 30th June (half time)	225 00	
	oune (hair time)		\$2,025 00
Or	ohthalmology and Otology:		, _, , = 0 00
•	Assistants (Sessional):		
	C. Campbell	\$100 00	
	W. H. Lowry D. N. Maclennan	100 00 100 00	
	D. N. Maciennan	100 00	\$300 00
			, , , , , , ,
Ot	o-Laryngology:		
	Assistants (Sessional):	0170 00	
	P. Goldsmith Sorvices Session 1012 12)	\$150 00	
	P. Goldsmith (for services Session 1912-13) G. Royce	$100 00 \\ 150 00$	
	G. Royce (for services Session 1912-13)	100 00	
			\$500 00

### 46. Salaries.—Continued. Therapeutics: Demonstrator, etc., Anaesthesia (Sessional): S. Johnston, Demonstrator \$250 00 R. J. MacMillan, Assistant 150 00 Assistant in Therapeutics (Sessional): C. E. C. Cole (paid also in Pathology)..... 150 00 \$550 00 Psychiatry: J. M. Forster, Associate, 12 mos. to 30th June...... \$50 00 25 00 H. Clare, Demonstrator (Sessional) ..... \$75 00 Dental Surgery: A. D. A. Mason, Demonstrator (Sessional)...... \$50 00 \$50 00 \$13,179 17 Associate Professors (each 12 mos. to 30th June). H. B. Anderson, Clinical Medicine..... \$700 00 A. M. Baines, Clinical Medicine..... 700 00 700 00 700 00 700 00 A. Primrose, Clinical Surgery (paid also as Secretary to 700 00 F. N. G. Starr, Clinical Surgery. W. B. Thistle, Clinical Medicine 600 00 600 00 H. W. Aikins, Anatomy.... 450 00 450 00 G. Chambers, Clinical Medicine..... R. J. Dwyer, Clinical Medicine A. R. Gordon, Clinical Medicine H. T. Machell, Obstetrics, etc. 450 00 450 00 450 00 W. McKeown, Clinical Surgery..... 450 00 C. L. Starr, Clinical Surgery.... 450 00 450 00 450 00 K. C. McIlwraith, Obstetrics..... 450 00 350 00 350 00 350 00 . . . . . . \$10,950 00 Professors (each 12 mos. to 30th June): I. H. Cameron, Surgery and Clinical Surgery..... \$1,050 00 A. McPhedran, Medicine and Clinical Medicine...... J. A. Amyot, Hygiene R. D. Rudolf, Therapeutics..... 1.050 00 2,000 00 1.000 00 B. P. Watson, Obstetrics and Gynæcology ..... 1,000 00 N. A. Powell, Medical Jurisprudence..... 700 00 R. A. Reeve, Ophthalmology, etc. (retired 30th June).... G. R. McDonagh, Laryngology, etc. (retired 30th June)... 450 00 450 00 450 00 450 00 G. S. Ryerson, Ophthalmology, etc..... G. H. Burnham, Ophthalmology, etc... C. K. Clarke, Psychiatry (also Dean of Faculty).... N. H. Beemer, Mental Diseases (extra-mural—without salary) 450 00 . . . . . . A. H. Wright, for services as Professor of Obstetrics during part of Session 1912-13..... 500 00 \$9,550 00 Secretary's Office: A. Primrose, Secretary to Faculty, 12 mos. to 30th June (paid also in Clinical Surgery)..... \$800 00 E. S. Ryerson, Assistant Secretary, 12 mos. to 30th June

(paid also in Clinical Surgery).....

500 00

\$2,567 41

46. Salaries.—Continued.		
Stenographers (each 12 mos. to 30th June):		
Miss E. A. Jamieson	900 00 500 00	en 700 00
		\$2,700 00
		\$62,465 22
47. Retiring Allowances.		
Retiring allowances to Emeritus Professors (limited to five		
annual payments):  J. L. Davidson, final payment.  F. Le M. Grasett, final payment  J. A. Temple, final payment.  L. Teskey, final payment.  W. T. Stuart, fourth payment.  W. Oldright, fourth payment.  A. H. Wright, second payment.	\$500 00 500 00 500 00 500 00 300 00 250 00 250 00	\$2,800 00
48. Anatomical Department.		
A		
Anatomical Material (\$1,615.70): H. Cornish Chas. A. Down F. J. Hamon D. J. Harris Albert Ingram F. W. Matthews G. W. Morse H. R. Ranks N. J. Roadhouse J. K. Shinn Wm. Speers Material for Preservation (\$336.85): W. R. Brock Co., cloth John Catto & Son, cloth. H. S. Eckels & Co., supplies. Ingram & Bell, chemicals. Inland Revenue Department, methylated spirits. \$94 27 Less allowance on barrels returned. 11 15  Sanderson, Pearcy & Co., shellac. Freight charges Superintendent's Dept., (boxes), labor, \$26.63; material, \$35.87.	\$32 00 16 00 16 00 80 00 32 00 735 70 64 00 368 00 16 00 64 00 192 00 4 61 37 13 1 46 137 51 83 12 7 45 3 07 62 50	
Incidentals (614.86):  Albert Allen, embryological supplies Bridgens, Ltd., prints John Catto & Son, material for aprons. J. F. Hartz Co., models Ingram & Bell, medical supplies. Prof. J. P. McMurrich, petty disbursements. Miller Mfg. Co., coats John W. Smith, drawings. Spencer Lens Co., slide cabinet. St. John's Hospital, S.S.J.D., aprons. United Typewriter Co., inspection University Press, stationery and supplies. Victoria Paper and Twine Co., twine. Freight charges Superintendent's Dept., labor, \$81.12; material, \$37.17.	5 20 10 00 111 91 135 00 81 69 8 61 35 00 17 50 18 10 32 00 9 00 27 15 3 20 2 21 118 29	<b>\$2.567</b> 41

# 49. Pathology and Bacteriology.

Chemicals and Supplies (\$770.12): Canadian Carbonate Co., gas	\$9 00	
Dominion Carbonic Co., gas	45 00	
Eimer & Amend, chemicals and supplies	440 21	
Geo. W. Grant & Co., chemicals	3 00	
Ingram & Bell, chemicals and supplies	158 65	
Inland Revenue Department, methylated spirits \$61 45		
Less allowance on barrels returned 7 85		
	53 60	
Ontario Rubber Co., tubing	88	
I G Ramsay & Co., chemicals	7 93	
Schering & Glatz, chemicals	12 93	
Freight charges	38 92	
Apparatus (\$257.45):	197 90	
Ingram & Bell	$137 30 \\ 30 87$	
Ernst Leitz	5 25	
Chas. Potter	32 00	
Richards Bros.	21 65	
Carl Zeiss	29 38	
Superintendent's Dept., material	1 00	
Care of Refrigerating Plant (\$150.00):		
Toronto General Hospital, for share of services of attendant	150 00	
Incidentals (\$734.42):		
Aikenhead Hardware, Ltd., hardware	2 94	
Art Metropole, paper	3 89	
Bausch & Lomb Optical Co., supplies	5 03	
Beardmore Belting Co., belting	25 41	
Miss F. Cartwright, rabbits	5 10	
Fletcher Mfg. Co., repairs	4 75 3 50	
Geo. W. Grant & Co., oil	25 57	
Lake Simcoe Ice Co., ice	6 16	
Prof. J. J. Mackenzie, disbursements:	0 10	
Laboratory and office supplies, \$18.98; food for animals,		
\$18.06; car fares and postage, \$14.85; animals,		
\$14.50; animal house fixtures, \$11.55; groceries,		
\$4.19; sundries, \$5.87	88 00	
T. J. McDonnell, animals	57 00	
J. McGillian, fodder	70 60	
Miss M. Mitchell, drawings	19 50	
Ontario Agricultural College, animals	15 00	
Thos. Painter & Son, cupboard	9 50	
J. G. Ramsay & Co., photographic supplies	5 37 84 8 <b>2</b>	
Wm. Staughton, fodder	7 20	
Students' Book Dept., books	1 20	
for old machine, \$20.00—\$70.00; of which \$30.00		
charged to Chemistry	40 00	
University Press, printing and stationery	107 80	
Freight charges	29 62	
Petty items (5)	7 64	
Superintendent's Dept., labor, \$52.83; material, \$57.19	110.02	
-		\$1,911 99
50 Chamical Pathology		
50. Chemical Pathology.		
Maintenance, Chemicals and Supplies (\$1,204.47):		
Canada Stamp and Stencil Co., stamp	<b>\$2</b> 50	
Canada Stamp and Stencil Co., stamp	16 46	
Canada Stamp and Stencil Co., stamp	16 46 3 50	
Canada Stamp and Stencil Co., stamp	16 46 3 50 3 41	
Canada Stamp and Stencil Co., stamp. Canada Consolidated Rubber Co., tubing. T. Eaton Co., pails Eimer & Amend, chemicals Emil Greiner Co., glassware.	16 46 3 50 3 41 10 06	
Canada Stamp and Stencil Co., stamp. Canada Consolidated Rubber Co., tubing. T. Eaton Co., pails Eimer & Amend, chemicals Emil Greiner Co., glassware Ingram & Bell, basins	16 46 3 50 3 41	
Canada Stamp and Stencil Co., stamp. Canada Consolidated Rubber Co., tubing. T. Eaton Co., pails Eimer & Amend, chemicals Emil Greiner Co., glassware. Ingram & Bell, basins Prof. J. B. Leathes, disbursements:	16 46 3 50 3 41 10 06	
Canada Stamp and Stencil Co., stamp. Canada Consolidated Rubber Co., tubing. T. Eaton Co., pails Eimer & Amend, chemicals Emil Greiner Co., glassware Ingram & Bell, basins	16 46 3 50 3 41 10 06	

	50. Chemical Pathology.—Continued.		
	Lyman Bros. & Co., chemicals. Theodor Schuchardt, chemicals J. Stevenson & Son, tubes. University Press, books Vereinigte Fabriken, glassware and supplies. Freight charges Superintendent's Dept., labor, \$203.00; material, \$53.21.	2 61 169 51 6 00 6 00 609 23 97 63 256 21	\$1,204 47
	51. Pharmacy and Pharmacology.		
Ch	emicals, Supplies and Apparatus (\$611.17): Allen Mfg. Co., laundry F. J. Burns & Co., frogs Ludwig Castagna, apparatus Eimer & Abend, motor J. A. Fontaine, frogs Harvard Apparatus Co., supplies Prof. V. E. Henderson, disbursements: Hardware, etc., \$13.32; animals, \$9.20; glassware, \$3.00; sundries, \$5.21 Geo. M. Hendry Co., blackboard Ingram & Bell, instruments and supplies Lyman Bros. & Co., supplies J. McGillian, fodder Merck & Co., chemicals National Drug & Chemical Co., chemicals Ontario Rubber Co., tubing Photography, Dept. of, slides Purity Distilling Co., alcohol R. Robertson & Sons, cement Wm. Staughton, fodder C. Stewart, castings Toronto Dog and Cat Hospital, animals University Press, stationery Vereinigte Fabriken, apparatus Vokes Hardware Co., hardware Weston Electrical Instrument Co., apparatus Freight charges Superintendent's Dept., labor, \$26.74; material, \$71.75.	\$1 99 2 63 26 01 6 93 32 00 4 63 30 73 5 88 18 27 14 05 27 60 47 09 5 45 4 70 2 50 21 82 3 93 35 97 3 00 53 00 7 65 109 79 7 50 36 55 14 86 98 49	
	Less received from sale of pamphlets \$10 35 Less rabbits supplied to Dept. of Hygiene 1 50	\$623 02 11 85	
•	_		\$611 17
	. 52. Medicine.		
Ing F. Off	F. Hartz Co., apparatus gram & Bell, lens D. Mezen, glassware lice Specialty Mfg. Co., fyling cabinet perintendent's Dept., material	\$517 00 2 50 6 00 46 55 65 00	\$637 <b>0</b> 5
	53. Surgery.		
	pplies (\$112.19): Geo. M. Hendry & Co., blackboards Ingram & Bell, medical supplies Miller Mfg. Co., coats paratus (\$125.67):	\$57 50 39 69 15 00	
	Frank S. Betz Co.  J. F. Hartz Co.	55 67 70 00	\$237 86

54 and 55. Obstetrics and Gynæcology.			
Supplies (\$132.23):  Alexander Fraser, medical supplies	\$98 44 5 95 26 08 1 76		
Apparatus (\$630.55):  Ingram & Bell, scale  Ernst Leitz, apparatus  Medicinisches Waarenhaus, models  Spencer Lens Co., apparatus  Freight charges	10 00 329 63 192 72 94 65 3 55	\$762	78
$56. \ Ophthalmology.$			
30. Ophiliainiology.			
J. F. Hartz Co., apparatus	\$41 00	\$41	00
57. Oto-Laryngology.			
Ingram & Bell, models	\$60 00 60 00 46 50 230 90		
		\$397	40
58. Therapeutics.			
Baird & Tatlock, Ltd., apparatus Burroughs, Wellcome & Co., appliances Hupfeld, Lüdecking & Co., apparatus Ingram & Bell, appliances J. Stevenson & Son, syringes Petty items (2) Freight charges	\$31 09 6 37 8 47 16 58 6 15 2 79 20	\$71	er
		Φ11	00
59. Hygiene.			
T. Eaton Co., supplies Wm. Fenton, baskets Ingram & Bell, chemicals and supplies Thos. James, shelving University Press, stationery Petty items (3) Superintendent's Dept., labor, \$10.39; material, \$9.25.	\$9 60 10 00 180 30 6 00 7 80 4 90 19 64	\$238	24
60. Medical Jurisprudence.			
(Nothing Spent.)			
61. Medical Building.			
Heat and light (supplied from Central Power Plant): Gas, city current and occasional fuel (\$189.70):			
Consumers' Gas Co	\$189 70		
City Treasurer	179 26		
Caretaker's supplies (\$79.13): Superintendent's Dept., supplies	79 13		
Cleaning (\$848.93): Allen Mfg. Co., laundry Canadian Window Cleaning Co., cleaning windows Superintendent's Dept., labor	8 88 40 00 800 05		

	61. Medical Building.—Continued.			
	airs and Renewals (\$1,398.82):  Wm. Bartlett & Son, shades  Wm. Card, exterminating rats City Treasurer, elevator license  A. Matthews Ltd., repairs to roof  R. Robertson & Sons, masonry  Routery Bros., plastering  Superintendent's Dept., labor, \$857.46; material, \$442.62.  Less sundry credits: cleaning, 50c.; repairs, \$22.26	12 5 5 24 35 1,300 \$2,695 22	00 00 70 57 55 08 84 76	<b>\$3,473</b> 08
	62. Pathological Building.			
- Time				
rue	l and light (\$4,000.00): Toronto General Hospital, on account of heat and light			
Gas	supplied (subject to adjustment)	\$4,000	00	
	Consumers' Gas Co	349	30	
	ter (\$116.25): City Treasurer	116	25	
Car	etaker's Supplies (\$96.37): Superintendent's Dept., supplies	96	37	
Clea	ning (\$710.95):			
	Allen Mfg. Co., laundry	24	00	
Ren	Superintendent's Dept., labor	671	98	
	R. Robertson & Sons, masonry	57		
	Routery Bros., plastering	2 888		
		\$6,220	92	
	Less credit, repairs	, ,, , , , ,		
~		\$6,220	12	
Car	etaker, Alex. Wilson, 12 months to 30th June, \$700.00 (of which \$400.00 charged as laboratory attendant)	300	00	
				\$6,520 12
	63. General Expenses.			
	tionery, printing, postage and office supplies (\$1,362.27): American Medical Association, directory The Bursar, postage supplied Canadian Multipost Co., stamping machine F. C. Flannery, envelope sealer Harcourt & Sons, gowns Might Directories, Ltd., city directory United Typewriter Co., inspection and supplies University Press, calendar, printing and stationery Superintendent's Dept., labor, \$12.17; material, \$51.60. Medals and engraving Oropriation for Dean's office (\$640.75): Dr. C. K. Clarke, various disbursements	247 25 2 288 10 27 863 63 87	50 50 00 00 00 80 77 50	
	Less returned by Dr. A. Primrose of advance made in	\$2,003	02	
	1912-13	8	94	\$1,994 08

\$14,600 00

# Special Fund for Medical Research.

Special Funa for Medical Research.			
Salaries (\$8,586.68):			
W. Goldie, Director of Medical Clinic of Out-patient De-			
nartment. 15th October to 30th June at \$2,000.00 per			
annum	\$1,416 68		
Research Fellows:	1 500 00		
R. G. Armour, 12 months	1,500 00 1,500 00		
W. F. McPhedran, 12 months	1,500 00		
C. Imrie, 3 months at \$750.00, \$187.50; 9 months at	_,		
\$1,000,00. \$750,00	937 50		
N. C. Sharp, 9 months to 30th June at \$1,000.00	750 00		
K. M. B. Simon, 9 months to 30th June at \$750.00	562 50		
C. Greenwood, Laboratory Attendant, 12 months to 30th June at \$35.00 per month	420 00		
Laboratory Expenses and Equipment (\$793.35):	420 00		
Crofton Storage Battery Co., battery	12 00		
Fimer & Amend, chemicals	18 26		
J. Hope, white mice	11 10		
Ingram & Bell, apparatus and supplies	273 93		
F. & M. Lautenschlager, apparatus and supplies Prof. J. B. Leathes, disbursements: Animals, \$34.00;	179 73		
chemicals, absorbent cotton, etc., \$13.99; sundries, .70	48 69		
Leeds & Northrup Co., apparatus	107 25		
T. S. Plaskett, electrical work	16 08		,
Richards Bros., apparatus	13 00		
Spencer Lens Co., instruments	16 30		
Wm. Staughton, fodder      A. H. Thomas Co., syringes	5 49 8 60		
R. B. Turner, syringes	14 84		
University Press, circulars	5 00		
Wm. Woodley & Sons, apparatus	56 58		
	2 67		
Freight charges			
Petty items (3)	2 88		
Petty items (3)  Superintendent's Dept., material	2 88 95		
Petty items (3)	2 88 95	\$85,933  52	2
Petty items (3)  Superintendent's Dept., material	2 88 95	\$85,933 52	2
Petty items (3)  Superintendent's Dept., material	2 88 95	\$85,933 <b>5</b> 2	2
Petty items (3)	2 88 95	\$85,933 <b>52</b>	2
Petty items (3)	2 88 95	\$85,933 52	2
Petty items (3)	2 88 95	\$85,933 <u>5</u>	2
Petty items (3)	2 88 95	\$85,933 5 <u>5</u>	2
Petty items (3)	2 88 95 \$9,380 03	\$85,933 <u>52</u>	2
Petty items (3)	2 88 95		
Petty items (3) Superintendent's Dept., material  Charged to Medical Research Fund (Schedule 4a)  IV. FACULTY OF APPLIED SCIENCE. 64. Salaries.  Engineering.  J. Galbraith, Professor (also Dean of Faculty), 12 mos. to 30th June.	2 88 95 \$9,380 03	\$85,933 52	
Petty items (3)	2 88 95 \$9,380 03		
Petty items (3) Superintendent's Dept., material  Charged to Medical Research Fund (Schedule 4a)  IV. FACULTY OF APPLIED SCIENCE. 64. Salaries.  Engineering.  J. Galbraith, Professor (also Dean of Faculty), 12 mos. to 30th June.	2 88 95 \$9,380 03		
Petty items (3) Superintendent's Dept., material Charged to Medical Research Fund (Schedule 4a)  IV. FACULTY OF APPLIED SCIENCE. 64. Salaries. Engineering.  J. Galbraith, Professor (also Dean of Faculty), 12 mos. to 30th June.  Electrical Engineering.  T. R. Rosebrugh, Professor, 12 mos. to 30th June H. W. Price, Associate Professor, 12 mos. to 30th June	\$9,380 03 \$9,380 00 \$4,500 00		
Petty items (3) Superintendent's Dept., material  Charged to Medical Research Fund (Schedule 4a)  IV. Faculty of Applied Science. 64. Salaries.  Engineering.  J. Galbraith, Professor (also Dean of Faculty), 12 mos. to 30th June  Electrical Engineering.  T. R. Rosebrugh, Professor, 12 mos. to 30th June H. W. Price, Associate Professor, 12 mos. to 30th June Lecturers (Sessional):	\$9,380 03 \$9,380 00 \$4,500 00 2,300 00		
Petty items (3) Superintendent's Dept., material Charged to Medical Research Fund (Schedule 4a)  IV. FACULTY OF APPLIED SCIENCE. 64. Salaries. Engineering.  J. Galbraith, Professor (also Dean of Faculty), 12 mos. to 30th June  Electrical Engineering.  T. R. Rosebrugh, Professor, 12 mos. to 30th June H. W. Price, Associate Professor, 12 mos. to 30th June Lecturers (Sessional): W. S. Guest	\$9,380 03 \$9,380 03 \$4,500 00 \$3,600 00 2,300 00 1,300 00		
Petty items (3) Superintendent's Dept., material Charged to Medical Research Fund (Schedule 4a)  IV. Faculty of Applied Science. 64. Salaries.  Engineering.  J. Galbraith, Professor (also Dean of Faculty), 12 mos. to 30th June.  Electrical Engineering.  T. R. Rosebrugh, Professor, 12 mos. to 30th June H. W. Price, Associate Professor, 12 mos. to 30th June Lecturers (Sessional): W. S. Guest R. H. Hopkins	\$9,380 03 \$9,380 03 \$4,500 00 \$3,600 00 2,300 00 1,300 00 1,200 00		
Petty items (3) Superintendent's Dept., material  Charged to Medical Research Fund (Schedule 4a)  IV. Faculty of Applied Science. 64. Salaries.  Engineering.  J. Galbraith, Professor (also Dean of Faculty), 12 mos. to 30th June.  Electrical Engineering.  T. R. Rosebrugh, Professor, 12 mos. to 30th June H. W. Price, Associate Professor, 12 mos. to 30th June Lecturers (Sessional): W. S. Guest R. H. Hopkins A. R. Zimmer Demonstrators (Sessional):	\$9,380 03 \$9,380 03 \$4,500 00 \$3,600 00 2,300 00 1,300 00		
Petty items (3) Superintendent's Dept., material  Charged to Medical Research Fund (Schedule 4a)  IV. Faculty of Applied Science. 64. Salaries.  Engineering.  J. Galbraith, Professor (also Dean of Faculty), 12 mos. to 30th June.  Electrical Engineering.  T. R. Rosebrugh, Professor, 12 mos. to 30th June H. W. Price, Associate Professor, 12 mos. to 30th June Lecturers (Sessional): W. S. Guest R. H. Hopkins A. R. Zimmer  Demonstrators (Sessional): R. Taylor	\$9,380 03 \$9,380 03 \$4,500 00 \$3,600 00 2,300 00 1,300 00 1,200 00		
Petty items (3) Superintendent's Dept., material  Charged to Medical Research Fund (Schedule 4a)  IV. Faculty of Applied Science. 64. Salaries.  Engineering.  J. Galbraith, Professor (also Dean of Faculty), 12 mos. to 30th June.  Electrical Engineering.  T. R. Rosebrugh, Professor, 12 mos. to 30th June H. W. Price, Associate Professor, 12 mos. to 30th June Lecturers (Sessional): W. S. Guest R. H. Hopkins A. R. Zimmer  Demonstrators (Sessional): R. Taylor O. F. Adams	\$4,500 00 \$3,600 00 2,300 00 1,200 00 1,200 00 900 00 800 00		
Petty items (3) Superintendent's Dept., material  Charged to Medical Research Fund (Schedule 4a)  IV. Faculty of Applied Science. 64. Salaries.  Engineering.  J. Galbraith, Professor (also Dean of Faculty), 12 mos. to 30th June.  Electrical Engineering.  T. R. Rosebrugh, Professor, 12 mos. to 30th June. H. W. Price, Associate Professor, 12 mos. to 30th June. Lecturers (Sessional): W. S. Guest R. H. Hopkins A. R. Zimmer  Demonstrators (Sessional): R. Taylor O. F. Adams R. J. Allan	\$9,380 03 \$9,380 03 \$4,500 00 \$3,600 00 2,300 00 1,200 00 1,200 00 1,200 00 800 00 800 00		
Petty items (3) Superintendent's Dept., material  Charged to Medical Research Fund (Schedule 4a)  IV. Faculty of Applied Science. 64. Salaries.  Engineering.  J. Galbraith, Professor (also Dean of Faculty), 12 mos. to 30th June.  Electrical Engineering.  T. R. Rosebrugh, Professor, 12 mos. to 30th June. H. W. Price, Associate Professor, 12 mos. to 30th June. Lecturers (Sessional): W. S. Guest R. H. Hopkins A. R. Zimmer  Demonstrators (Sessional): R. Taylor O. F. Adams R. J. Allan W. B. Buchanan	\$9,380 03 \$9,380 03 \$4,500 00 \$3,600 00 2,300 00 1,200 00 1,200 00 1,200 00 800 00 800 00 800 00		
Petty items (3) Superintendent's Dept., material  Charged to Medical Research Fund (Schedule 4a)  IV. Faculty of Applied Science.  64. Salaries.  Engineering.  J. Galbraith, Professor (also Dean of Faculty), 12 mos. to 30th June.  Electrical Engineering.  T. R. Rosebrugh, Professor, 12 mos. to 30th June H. W. Price, Associate Professor, 12 mos. to 30th June Lecturers (Sessional): W. S. Guest R. H. Hopkins A. R. Zimmer  Demonstrators (Sessional): R. Taylor O. F. Adams R. J. Allan W. B. Buchanan F. Robbins, Electrician, 12 mos. to 30th June.  J. H. Challacombe, Assistant Electrician, 12 mos. to 30th June.	\$9,380 03 \$9,380 03 \$4,500 00 \$3,600 00 2,300 00 1,200 00 1,200 00 1,200 00 800 00 800 00 800 00 750 00		
Petty items (3) Superintendent's Dept., material  Charged to Medical Research Fund (Schedule 4a)  IV. Faculty of Applied Science. 64. Salaries.  Engineering.  J. Galbraith, Professor (also Dean of Faculty), 12 mos. to 30th June.  Electrical Engineering.  T. R. Rosebrugh, Professor, 12 mos. to 30th June. H. W. Price, Associate Professor, 12 mos. to 30th June. Lecturers (Sessional): W. S. Guest R. H. Hopkins A. R. Zimmer  Demonstrators (Sessional): R. Taylor O. F. Adams R. J. Allan W. B. Buchanan F. Robbins, Electrician, 12 mos. to 30th June. J. H. Challacombe, Assistant Electrician, 12 mos. to 30th June. Laboratory Attendant at \$400 per annum:	\$9,380 03 \$9,380 03 \$4,500 00 \$3,600 00 2,300 00 1,200 00 1,200 00 1,200 00 800 00 800 00 800 00		
Petty items (3) Superintendent's Dept., material  Charged to Medical Research Fund (Schedule 4a)  IV. Faculty of Applied Science.  64. Salaries.  Engineering.  J. Galbraith, Professor (also Dean of Faculty), 12 mos. to 30th June.  Electrical Engineering.  T. R. Rosebrugh, Professor, 12 mos. to 30th June H. W. Price, Associate Professor, 12 mos. to 30th June Lecturers (Sessional): W. S. Guest R. H. Hopkins A. R. Zimmer  Demonstrators (Sessional): R. Taylor O. F. Adams R. J. Allan W. B. Buchanan F. Robbins, Electrician, 12 mos. to 30th June.  J. H. Challacombe, Assistant Electrician, 12 mos. to 30th June.	\$9,380 03 \$9,380 03 \$4,500 00 \$3,600 00 2,300 00 1,200 00 1,200 00 1,200 00 800 00 800 00 800 00 750 00		

# Mechanical Engineering.

R. W. Angus, Professor, 12 mos. to 30th June	\$2,900 00	
Lecturers (Sessional): L. M. Arkley	1,700 00	
J. J. Traill	1,500 00	
I T Lagergren	1,500 00	
M. B. Jackson, Jr.	1,300 00	
Demonstrators (Sessional):	900 00	
J. H. Parkin D. J. Thomson	800 00	
F Hickey Machinist, 10 mos, salary	850 00	
R. Fullerton, Engineer of Experimental Plant, 12 mos. to 30th		
June	750 00 400 00	
T. J. Pope, Laboratory Fireman, 8 mos. salary	720 00	
G. S. Daing, haboratory hisbibituit, 12 most to over tunovitive.		\$13,320 00
Applied Mechanics.		
J. McGowan, Associate Professor, 12 mos. to 30th June	\$2,800 00	
P. Gillespie, Associate Professor, 12 mos. to 30th June	2,300 00	
C. R. Young, Assistant Professor, 12 mos. to 30th June	2,000 00	
A. T. Laing, Lecturer (Sessional—part time; paid also as Sec-	400 00	
retary to Faculty)	400 00	
R. J. Marshall	1,100 00	
A. Young	900 00	
W. K. Simpson, Mechanician, 12 mos. to 30th June	1,200 00 400 00	
J. J. Brown, Laboratory Attendant, 9 mos. salary	400 00	\$11,100 00
		17
Mining Engineering.		
H. E. T. Haultain, Professor, 12 mos. to 30th June	\$3,400 00	
F. C. Dyer, Lecturer (Sessional)	1,200 00	
J. T. King, Demonstrator (Sessional)	1,000 00	
A. L. Steele, Assistant (Sessional)	700 00	
E. Tozer, Laboratory Assistant, 12 mos. to 30th June	650 00 350 00	
		\$7,300 00
Metallurgical Engineering.		
G. A. Guess, Professor, 12 mos. to 30th June	\$3,250 00	
W. S. Bishop, Lecturer at \$1,400 (Sessional—paid from special		
fund)		
month	267 17	
-	201 11	\$3,517 17
•		
$Ferro ext{-}Metallurgy.$		
T. R. Loudon, Lecturer (Sessional)	\$1,800 00	
-		\$1,800 00
Gumanin a		
Surveying.		
L. B. Stewart, Professor, 12 mos. to 30th June	\$3,600 00	
W. M. Treadgold, Assistant Professor, 12 mos. to 30th June	2,100 00	
Lecturers (Sessional): S. R. Crerar	1 500 00	
E. W. Banting	1,500 00 1,300 00	
J. T. Ransom, Demonstrator (Sessional)	800 00	
Fellows (Sessional) at \$500:	40	
J. H. Curzon, % of \$500, balance in Drawing	187 50 187 50	
	101 00	\$9,675 00

#### Applied Chemistry. W. H. Ellis, Professor, 12 mos. to 30th June ...... \$4,000 00 J. W. Bain, Associate Professor, 12 mos. to 30th June ...... 2,800 00 Assistant Professors, each 12 mos. to 30th June: 2,000 00 E. G. R. Ardagh, Analytical Chemistry ..... 2,000 00 M. C. Boswell, Organic Chemistry ..... 1,000 00 L. J. Rogers, Demonstrator (Sessional) ..... J. B. Coghill, Assistant (Sessional) ..... 600 00 Fellows (Sessional) at \$500; 500 00 250 00 250 00 A. R. Duff (1st Feb. to 31st May)..... H. M. Lancaster, Special Lecturer in Sanitary Chemistry (Sessional—part time) ..... 300 00 750 00 G. E. Leworthy, Lecture Assistant and Glass-blower (Sessional) D. Sinclair, Laboratory Assistant, 12 mos. to 30th June ...... 950 00 Laboratory Attendant: 87 50 M. O'Bryan, 1st July to 30th Sept. at \$350 per an. (resigned) 222 36 R. Spence, 6th Oct. to 30th June at \$300 per ann. ..... \$15,709 86 Electro-Chemistry. J. T. Burt-Gerrans, Lecturer (Sessional) ...... \$1,300 00 200 00 M. O'Brien, Laboratory Attendant, 9 mos. salary..... \$2,300 00 Architecture and Drawing. (a) Architecture: C. H. C. Wright, Professor, 12 mos. to 30th June ...... \$3,600 00 A. W. McConnell, Lecturer (Sessional), at \$1,800 (on leave of absence on two-thirds salary) ..... 1.200 00 Instructors (Sessional): J. M. Lyle, substitute during absence of Lecturer, \$500; 1,000 00 instruction to night classes in Architecture, \$500... J. L. Banks, Modelling ..... 600 00 C. W. Jefferys, Freehand Drawing and Water Colour .. 600 00 \$7,000 00 (b) Drawing: C. H. C. Wright, Professor (paid as Professor of Architecture) ..... . . . . . . . . J. R. Cockburn, Assistant Professor, Descriptive Geometry, 12 mos. to 30th June ..... 2,100 00 Demonstrators (Sessional): L. T. Rutledge, \$1,000; instruction to night classes in 1.075 00 Architecture, \$75 ..... W. J. Smither ..... 1,000 00 H. H. Madill, \$900; instruction to night classes in Architecture, \$225 ..... 1.125 00 900 00 F. E. Watson ..... G. K. Williams ..... 900 00 800 00 L. A. Badgeley ..... J. S. Galbraith ..... 800 00 J. T. Howard ..... 800 00

W. H. Martin .....

G. R. Workman ....

J. H. Curzon (% of \$500, balance in Surveying) .....

F. R. Scandrett (% of \$500, balance in Surveying) ....

Miss J. C. Laing, Assistant and Stenographer, 12 mos. to 30th June

Fellows (Sessional) at \$500:

800 00

500 00

500 00

500 00

312 50

312 50

650 00

9 B.G.

	64. Salaries.—Continued.				
	Attendants in Drafting Rooms, each 9 mos. salary: G. Brown, \$500; additional for night classes in Architecture, \$50	550	0.0		
	C. J. Mead	350			
	Less charged to night classes in Architecture (Section 78)	\$20,975 850		\$20,125	00
	Engineering Physics and Photography.				
G. 7 W.	R. Anderson, Associate Professor, 12 mos. to 30th June L. Wallace, Demonstrator (Sessional) C. Murdie, Fellow (Sessional) btographers at \$60 a month, each 9 mos. salary:	\$2,300 900 500	00		
	A. J. Burge E. Collier	540 540		\$4,780	00
	Special Lectures.				
	S. Ferguson, Lecturer in Accountancy (Sessional) W. Langstaff, Lecturer in Company Organization (Sessional)	\$500 400		\$900	00
	Secretary's Office.				
A. 7	Γ. Laing, Secretary to Faculty and Librarian, 12 mos. to 30th				
Mis	June (paid also in Applied Mechanics)ss A. J. Rickard, Assistant to Secretary, 12 mos. to 30th June nographers:	\$2,000 800			
~~~	Miss R. Cave, 12 mos. to 30th June	650 400		\$3,850	0.0
	65. Chemistry and Mining Building.			\$113,477	
	at and light (supplied from Central Power Plant):	P549	7.0		
Gas	at and light (supplied from Central Power Plant): s, city current and occasional fuel (\$543.76): Consumers' Gas Co. ter (\$153.65):	\$543			
Gas	at and light (supplied from Central Power Plant): s, city current and occasional fuel (\$543.76): Consumers' Gas Co. ter (\$153.65): City Treasurer etaker's Supplies (\$179.46):	\$543 153			
Gas Wat Car	at and light (supplied from Central Power Plant): s, city current and occasional fuel (\$543.76): Consumers' Gas Co. ter (\$153.65): City Treasurer etaker's Supplies (\$179.46): Superintendent's Dept., supplies	·	65		
Gas Wat Car	at and light (supplied from Central Power Plant): s, city current and occasional fuel (\$543.76): Consumers' Gas Co. ter (\$153.65): City Treasurer etaker's Supplies (\$179.46): Superintendent's Dept., supplies aning (\$1,482.01): Allen Mfg. Co., laundry	153 179 13	65 46 18		
Gas War Car Clea	at and light (supplied from Central Power Plant): s, city current and occasional fuel (\$543.76): Consumers' Gas Co. ter (\$153.65): City Treasurer etaker's Supplies (\$179.46): Superintendent's Dept., supplies aning (\$1,482.01): Allen Mfg. Co., laundry Canadian Window Cleaning Co., cleaning windows Superintendent's Dept., labor	153 179	65 46 18 00		
Gas War Car Clea	at and light (supplied from Central Power Plant): s, city current and occasional fuel (\$543.76): Consumers' Gas Co. ter (\$153.65): City Treasurer etaker's Supplies (\$179.46): Superintendent's Dept., supplies aning (\$1,482.01): Allen Mfg. Co., laundry Canadian Window Cleaning Co., cleaning windows	153 179 13 30	65 46 18 00 83		
Gas War Car Clea	at and light (supplied from Central Power Plant): s, city current and occasional fuel (\$543.76): Consumers' Gas Co. ter (\$153.65): City Treasurer etaker's Supplies (\$179.46): Superintendent's Dept., supplies aning (\$1,482.01): Allen Mfg. Co., laundry Canadian Window Cleaning Co., cleaning windows Superintendent's Dept., labor eairs and Renewals (\$1,936.43): Wm. Bartlett & Son. shades Wm. Card, exterminating rats	153 179 13 30 1,438 36 12	65 46 18 00 83 44 00		
Gas War Car Clea	at and light (supplied from Central Power Plant): s, city current and occasional fuel (\$543.76): Consumers' Gas Co. ter (\$153.65): City Treasurer etaker's Supplies (\$179.46): Superintendent's Dept., supplies aning (\$1,482.01): Allen Mfg. Co., laundry Canadian Window Cleaning Co., cleaning windows Superintendent's Dept., labor pairs and Renewals (\$1,936.43): Wm. Bartlett & Son, shades Wm. Card, exterminating rats City Treasurer, elevator license	153 179 13 30 1,438 36 12 10	65 46 18 00 83 44 00 00		
Gas War Car Clea	at and light (supplied from Central Power Plant): s, city current and occasional fuel (\$543.76): Consumers' Gas Co. ter (\$153.65): City Treasurer etaker's Supplies (\$179.46): Superintendent's Dept., supplies aning (\$1,482.01): Allen Mfg. Co., laundry Canadian Window Cleaning Co., cleaning windows Superintendent's Dept., labor pairs and Renewals (\$1,936.43): Wm. Bartlett & Son, shades Wm. Card, exterminating rats City Treasurer, elevator license Johnson Temperature Regulating Co., repairs to regulators A. Matthews, Ltd., repairs to roof	153 179 13 30 1,438 36 12 10 57 310	65 46 18 00 83 44 00 00 58 50		
Gas War Car Clea	at and light (supplied from Central Power Plant): s, city current and occasional fuel (\$543.76): Consumers' Gas Co. ter (\$153.65): City Treasurer etaker's Supplies (\$179.46): Superintendent's Dept., supplies aning (\$1,482.01): Allen Mfg. Co., laundry Canadian Window Cleaning Co., cleaning windows Superintendent's Dept., labor nairs and Renewals (\$1,936.43): Wm. Bartlett & Son, shades Wm. Card, exterminating rats City Treasurer, elevator license Johnson Temperature Regulating Co., repairs to regulators	153 179 13 30 1,438 36 12 10 57	65 46 18 00 83 44 00 00 58 50 78		
Gas War Car Clea	at and light (supplied from Central Power Plant): s, city current and occasional fuel (\$543.76): Consumers' Gas Co. ter (\$153.65): City Treasurer etaker's Supplies (\$179.46): Superintendent's Dept., supplies aning (\$1,482.01): Allen Mfg. Co., laundry Canadian Window Cleaning Co., cleaning windows Superintendent's Dept., labor sairs and Renewals (\$1,936.43): Wm. Bartlett & Son. shades Wm. Card, exterminating rats City Treasurer, elevator license Johnson Temperature Regulating Co., repairs to regulators A. Matthews, Ltd., repairs to roof R. Robertson & Sons, masonry	153 179 13 30 1,438 36 12 10 57 310 16	65 46 18 00 83 44 00 00 58 50 78 13		
Gas War Car Clea	at and light (supplied from Central Power Plant): s, city current and occasional fuel (\$543.76): Consumers' Gas Co. ter (\$153.65): City Treasurer etaker's Supplies (\$179.46): Superintendent's Dept., supplies aning (\$1,482.01): Allen Mfg. Co., laundry Canadian Window Cleaning Co., cleaning windows Superintendent's Dept., labor airs and Renewals (\$1,936.43): Wm. Bartlett & Son, shades Wm. Card, exterminating rats City Treasurer, elevator license Johnson Temperature Regulating Co., repairs to regulators A. Matthews, Ltd., repairs to roof R. Robertson & Sons, masonry Superintendent's Dept., labor, \$987.51; material, \$505.62.	153 179 13 30 1,438 36 12 10 57 310 16 1,493 \$4,295	65 46 18 00 83 44 00 00 58 50 78 13 31 43		
Gas Wai Car Clea Rep	at and light (supplied from Central Power Plant): s, city current and occasional fuel (\$543.76): Consumers' Gas Co. ter (\$153.65): City Treasurer etaker's Supplies (\$179.46): Superintendent's Dept., supplies aning (\$1,482.01): Allen Mfg. Co., laundry Canadian Window Cleaning Co., cleaning windows Superintendent's Dept., labor cairs and Renewals (\$1,936.43): Wm. Bartlett & Son, shades Wm. Card, exterminating rats City Treasurer, elevator license Johnson Temperature Regulating Co., repairs to regulators A. Matthews, Ltd., repairs to roof R. Robertson & Sons, masonry Superintendent's Dept., labor, \$987.51; material, \$505.62.  Less sundry credits: cleaning, \$21.00; repairs, \$111.43  etaker, E. Bishop, 12 mos. to 30th June ssengers (\$166.33):	153 179 13 30 1,438 36 12 10 57 310 16 1,493 \$4,295 132 \$4,162 950	65 46 18 00 83 44 00 00 58 50 78 13 31 43 88 00		
Gas Wai Car Clea Rep	at and light (supplied from Central Power Plant): 5, city current and occasional fuel (\$543.76): Consumers' Gas Co. ter (\$153.65): City Treasurer etaker's Supplies (\$179.46): Superintendent's Dept., supplies aning (\$1,482.01): Allen Mfg. Co., laundry Canadian Window Cleaning Co., cleaning windows Superintendent's Dept., labor pairs and Renewals (\$1,936.43): Wm. Bartlett & Son. shades Wm. Card, exterminating rats City Treasurer, elevator license Johnson Temperature Regulating Co., repairs to regulators A. Matthews, Ltd., repairs to roof R. Robertson & Sons, masonry Superintendent's Dept., labor, \$987.51; material, \$505.62.  Less sundry credits: cleaning, \$21.00; repairs, \$111.43  etaker, E. Bishop, 12 mos. to 30th June	153 179 13 30 1,438 36 12 10 57 310 16 1,493 \$4,295 132	65 46 18 00 83 44 00 55 50 77 81 31 43 88 00 33 00		

## 66. Engineering Building.

Heat and light (supplied from Central Power Plant):		
Gas, city current and occasional fuel (\$35.56):  Consumers' Gas Co.	\$35 56	
Water (\$71.41): City Treasurer	71 41	
Caretakers' Supplies (\$154.54): Superintendent's Dept., supplies	154 54	
Cleaning (\$1,491.40): Allen Mfg. Co., laundry	9 78	
Canadian Window Cleaning Co., cleaning windows  Superintendent's Dept., labor	35 00 $1,446 62$	
Repairs and Renewals (\$1,226 76): Wm. Bartlett & Son, shades	14 04	
Wm. Card, exterminating rats  Elevator Specialty Co., repairs	$12 00 \\ 17 35$	
Matthews Bros., repairing walls	12 20	
A. Matthews, Ltd., repairing roof R. Robertson & Sons, masonry	89 36 12 21	
Routery Bros., plastering	11 00	
Superintendent's Dept., labor, \$607.34; material, \$451.26	1,058 60	
Less sundry credits: cleaning, \$11.00; repairs, \$33.14	\$2,979 67 44 14	
	\$2,935 53	
('aretakers (\$600.00):		
W. J. Graham, 12 mos. to 30th June (reduced service) S. J. Apted (supervision)	\$500 00 100 00	
C. McGee, 47 weeks 3 days at \$4.50	213 75	
_		\$3,749 28
67. Thermodynamics Building.		
67. Thermodynamics Building.		
Heat and light (supplied from Central Power Plant): Fuel for Experimental Plant (\$650.00):		
Heat and light (supplied from Central Power Plant): Fuel for Experimental Plant (\$650.00): Connell Anthracite Mining Co.	\$650 00	
Heat and light (supplied from Central Power Plant): Fuel for Experimental Plant (\$650.00): Connell Anthracite Mining Co	\$650 00 7 56	
Heat and light (supplied from Central Power Plant): Fuel for Experimental Plant (\$650.00): Connell Anthracite Mining Co. Gas, city current and occasional fuel (\$7.56): Consumers Gas Co. Water (\$128.11): City Treasurer		
Heat and light (supplied from Central Power Plant): Fuel for Experimental Plant (\$650.00): Connell Anthracite Mining Co. Gas, city current and occasional fuel (\$7.56): Consumers Gas Co. Water (\$128.11): City Treasurer Caretaker's Supplies (\$62.12): Superintendent's Dept., supplies	7 56	
Heat and light (supplied from Central Power Plant): Fuel for Experimental Plant (\$650.00): Connell Anthracite Mining Co. Gas, city current and occasional fuel (\$7.56): Consumers Gas Co. Water (\$128.11): City Treasurer Caretaker's Supplies (\$62.12): Superintendent's Dept., supplies Cleaning (\$108.21):	7 56 128 11	
Heat and light (supplied from Central Power Plant): Fuel for Experimental Plant (\$650.00): Connell Anthracite Mining Co. Gas, city current and occasional fuel (\$7.56): Consumers Gas Co. Water (\$128.11): City Treasurer Caretaker's Supplies (\$62.12): Superintendent's Dept., supplies Cleaning (\$108.21): Allen Mfg. Co., laundry Canadian Window Cleaning Co., cleaning windows	7 56 128 11 62 12 3 71 17 00	
Heat and light (supplied from Central Power Plant): Fuel for Experimental Plant (\$650.00): Connell Anthracite Mining Co. Gas, city current and occasional fuel (\$7.56): Consumers Gas Co. Water (\$128.11): City Treasurer Caretaker's Supplies (\$62.12): Superintendent's Dept., supplies Cleaning (\$108.21): Al!en Mfg. Co., laundry Canadian Window Cleaning Co., cleaning windows Superintendent's Dept., labor Repairs and Renewals (\$851.15):	7 56 128 11 62 12 3 71 17 00 87 50	
Heat and light (supplied from Central Power Plant): Fuel for Experimental Plant (\$650.00): Connell Anthracite Mining Co. Gas, city current and occasional fuel (\$7.56): Consumers Gas Co. Water (\$128.11): City Treasurer Caretaker's Supplies (\$62.12): Superintendent's Dept., supplies Cleaning (\$108.21): Al'en Mfg. Co., laundry Canadian Window Cleaning Co., cleaning windows Superintendent's Dept., labor Repairs and Renewals (\$851.15): Wm. Card, exterminating rats	7 56 128 11 62 12 3 71 17 00 87 50 12 00	
Heat and light (supplied from Central Power Plant): Fuel for Experimental Plant (\$650.00): Connell Anthracite Mining Co. Gas, city current and occasional fuel (\$7.56): Consumers Gas Co. Water (\$128.11): City Treasurer Caretaker's Supplies (\$62.12): Superintendent's Dept., supplies Cleaning (\$108.21): Allen Mfg. Co., laundry Canadian Window Cleaning Co., cleaning windows Superintendent's Dept., labor Repairs and Renewals (\$851.15): Wm. Card, exterminating rats Elevator Specialty Co., repairs R. Robertson & Sons. masonry	7 56 128 11 62 12 3 71 17 00 87 50 12 00 51 84 59 90	
Heat and light (supplied from Central Power Plant): Fuel for Experimental Plant (\$650.00): Connell Anthracite Mining Co. Gas, city current and occasional fuel (\$7.56): Consumers Gas Co. Water (\$128.11): City Treasurer Caretaker's Supplies (\$62.12): Superintendent's Dept., supplies Cleaning (\$108.21): Allen Mfg. Co., laundry Canadian Window Cleaning Co., cleaning windows Superintendent's Dept., labor Repairs and Renewals (\$851.15): Wm. Card, exterminating rats Elevator Specialty Co., repairs	7 56 128 11 62 12 3 71 17 00 87 50 12 00 51 84	
Heat and light (supplied from Central Power Plant): Fuel for Experimental Plant (\$650.00): Connell Anthracite Mining Co. Gas, city current and occasional fuel (\$7.56): Consumers Gas Co. Water (\$128.11): City Treasurer Caretaker's Supplies (\$62.12): Superintendent's Dept., supplies Cleaning (\$108.21): Allen Mfg. Co., laundry Canadian Window Cleaning Co., cleaning windows Superintendent's Dept., labor Repairs and Renewals (\$851.15): Wm. Card, exterminating rats Elevator Specialty Co., repairs R. Robertson & Sons, masonry Superintendent's Dept., labor, \$373.45; material, \$353 96.	7 56 128 11 62 12 3 71 17 00 87 50 12 00 51 84 59 90 727 41 \$1,807 15	
Heat and light (supplied from Central Power Plant): Fuel for Experimental Plant (\$650.00): Connell Anthracite Mining Co. Gas, city current and occasional fuel (\$7.56): Consumers Gas Co. Water (\$128.11): City Treasurer Caretaker's Supplies (\$62.12): Superintendent's Dept., supplies Cleaning (\$108.21): Allen Mfg. Co., laundry Canadian Window Cleaning Co., cleaning windows Superintendent's Dept., labor Repairs and Renewals (\$851.15): Wm. Card, exterminating rats Elevator Specialty Co., repairs R. Robertson & Sons. masonry	7 56 128 11 62 12 3 71 17 00 87 50 12 00 51 84 59 90 727 41	\$1,755 09
Heat and light (supplied from Central Power Plant): Fuel for Experimental Plant (\$650.00): Connell Anthracite Mining Co. Gas, city current and occasional fuel (\$7.56): Consumers Gas Co. Water (\$128.11): City Treasurer Caretaker's Supplies (\$62.12): Superintendent's Dept., supplies Cleaning (\$108.21): Allen Mfg. Co., laundry Canadian Window Cleaning Co., cleaning windows Superintendent's Dept., labor Repairs and Renewals (\$851.15): Wm. Card, exterminating rats Elevator Specialty Co., repairs R. Robertson & Sons, masonry Superintendent's Dept., labor, \$373.45; material, \$353 96.	7 56 128 11 62 12 3 71 17 00 87 50 12 00 51 84 59 90 727 41 \$1,807 15 52 06	
Heat and light (supplied from Central Power Plant): Fuel for Experimental Plant (\$650.00): Connell Anthracite Mining Co. Gas, city current and occasional fuel (\$7.56): Consumers Gas Co. Water (\$128.11): City Treasurer Caretaker's Supplies (\$62.12): Superintendent's Dept., supplies Cleaning (\$108.21): Allen Mfg. Co., laundry Canadian Window Cleaning Co., cleaning windows Superintendent's Dept., labor Repairs and Renewals (\$851.15): Wm. Card, exterminating rats Elevator Specialty Co., repairs R. Robertson & Sons, masonry Superintendent's Dept., labor, \$373.45; material, \$353 96.  Less sundry credits for repairs  68. Geodetic Observatory Building.  Heat and light (supplied from Central Power Plant):	7 56 128 11 62 12 3 71 17 00 87 50 12 00 51 84 59 90 727 41 \$1,807 15 52 06	
Heat and light (supplied from Central Power Plant): Fuel for Experimental Plant (\$650.00): Connell Anthracite Mining Co.  Gas, city current and occasional fuel (\$7.56): Consumers Gas Co. Water (\$128.11): City Treasurer Caretaker's Supplies (\$62.12): Superintendent's Dept., supplies Cleaning (\$108.21): Al!en Mfg. Co., laundry Canadian Window Cleaning Co., cleaning windows Superintendent's Dept., labor Repairs and Renewals (\$851.15): Wm. Card, exterminating rats Elevator Specialty Co., repairs R. Robertson & Sons, masonry Superintendent's Dept., labor, \$373.45; material, \$353 96.  Less sundry credits for repairs  68. Geodetic Observatory Building.  Heat and light (supplied from Central Power Plant): Water (\$25.00):	7 56 128 11 62 12 3 71 17 00 87 50 12 00 51 84 59 90 727 41 \$1,807 15 52 06	
Heat and light (supplied from Central Power Plant): Fuel for Experimental Plant (\$650.00): Connell Anthracite Mining Co. Gas, city current and occasional fuel (\$7.56): Consumers Gas Co. Water (\$128.11): City Treasurer Caretaker's Supplies (\$62.12): Superintendent's Dept., supplies Cleaning (\$108.21): Allen Mfg. Co., laundry Canadian Window Cleaning Co., cleaning windows Superintendent's Dept., labor Repairs and Renewals (\$851.15): Wm. Card, exterminating rats Elevator Specialty Co., repairs R. Robertson & Sons, masonry Superintendent's Dept., labor, \$373.45; material, \$353 96.  Less sundry credits for repairs  68. Geodetic Observatory Building.  Heat and light (supplied from Central Power Plant):	7 56 128 11 62 12 3 71 17 00 87 50 12 00 51 84 59 90 727 41 \$1,807 15 52 06	

## 68. Geodetic Observatory Building .- Continued.

Cleaning (\$148.50): Superintendent's Dept., labor Repairs and Renewals (\$226.32):	148	50	
Wm. Mallott Weather Strip Co., weather stripping	34	00	
Murray-Kay, Ltd., cork carpet	45	93	
Superintendent's Dept., labor, \$53.60; material, \$92.79	146	39	
			\$421 81

## 69. Electrical Engineering.

C	
Supplies (\$1,847.43): Aikenhead Hardware, Ltd., hardware	\$171 38
Mervin Armstrong, couplings	22 00
Baines & Peckover, galvanized iron	8 91
Bausch & Lomb Optical Co., supplies	21 67
British Aluminium Co., aluminum	8 75
R. J. Campbell, signs	6 55
Canadian General Electric Co., electrical supplies	428 17
Canadian Kodak Co., photographic supplies	96 65
Canadian Westinghouse Co., oil and supplies	64 19
Consolidated Bag and Paper Co., cutter	4 75
Consolidated Plate Glass Co., glass	5 72
Dean Bros., castings	8 63
E. Dietzgen Co., paper	2 59
Dodge Mfg. Co., pulley	3 42
T. Eaton Co., cloth	30 40
Engineering Society, supplies	16 41
Galloway Taylor & Co., castings	15 35
General Electric Review publications	16 10
J. A. Goddard, cartage	12 00
Ingram & Bell, tubing	5 25
Kilmer, Pullen and Burnham, brushes	16 20
H. W. Knight & Co., tubing	13 20
Lester Storage and Cartage Co., cartage	13 70
Lyman Bros. & Co., chemicals	32 13
H. Maunder & Co., enamelling	4 26
F. D. Mezen, glass blowing	$\begin{array}{ccc} 2 & 00 \\ 7 & 00 \end{array}$
Moir & Warren, binders	27 50
James Morrison Brass Mfg. Co., hardware	45 84
Northern Electric & Mfg. Co., wire	8 89
Ontario Rubber Co., tubing	7 62
Patterson & Heward, figures	3 76
Photography Dept. of, prints	12 25
J. G. Ramsay & Co., photographic supplies	7 20
Rogers Electric Co., switches	23 25
Prof. T. R. Rosebrugh, disbursements:	
Hardware, \$67.03; supplies, \$37.24; car fares, \$21.00;	
dry goods, \$10.60; express and cartage, \$3.55; sun-	
dries, \$10.50;	<b>1</b> 49 92
Prof. T. R. Rosebrugh, paid W. P. Dobson for out of town	
expenses re research work	7 50
Russill Hardware, Ltd., netting	4 74
Sanderson, Pearcy & Co., paint	9 51
Carl Schleicher & Schull, paper	30 15
Students' Book Dept., text-books	64 30
Toronto Hydro-Electric System, filter paper	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Trumbull Electrical Mfg. Co., slate	4 90
Wells Pattern and Machine Works, patterns	3 25
Westinghouse Electric & Mfg. Co., repairs	48 90
Weston Electrical Instrument Co., repairs	33 98
J. T. Wilson, Ltd., pans	4 50
A. H. Winter-Joyner, Ltd., lamps	6 57
10 B.G.	

69. Electrical Engineering.—Continued.		
Freight charges	25 23	
Petty items (8)	11 29 263 20	
Aikenhead Hardware, Ltd., tachometer	\$144 06	
Mervin Armstrong, base for generator	29 82 146 50	
Canada Cycle & Motor Co., wheel pulley	6 00	
Canadian General Electric Co., motors	80 48 438 50	
John Chattilon & Sons, scale	12 10	
Driver Harris Wire Co., apparatus	23 70	
Edison Storage Battery Co., apparatus parts  Electric Storage Battery Co., battery	29 55 7 81	
Electro Importing Co., apparatus parts	53 00	
J. A. Goddard, cartage on apparatus	14 00 36 15	
Leeds & Northrup, galvanometer	20 70	
F. D. Mezen, glass apparatus	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
James Morrison Brass Mfg. Co., terminals	34 55	
National Electric Heating Co., heaters	30 00	
Radio Apparatus Co., apparatus	60 15 77 08	
Siemens Co. of Canada, apparatus	144 00	
Thordarson Electric Mfg. Co., transformers	50 15 15 75	
Weston Electrical Instrument Co., apparatus	357 24	
A. R. Williams Machinery Co., apparatus	$\begin{array}{c} 45 & 00 \\ 80 & 22 \end{array}$	
Furniture, printing and incidentals (\$295.23):	00 22	
T. H. Hancock, tables	34 00 <b>54 56</b>	
Macey Office Equipment Co., cabinet and guides  G. N. Reynolds & Co., cabinet	28 40	
University Press, instruction sheets, etc	74 25	
Superintendent's Dept., labor, \$55.89; material, \$48.13	104 02	
Less received from students for damages to apparatus	\$4,131 17 54 00	
		\$4,077 17
70. Mechanical Engineering.		
Supplies (\$600.06):	0100 40	
Aikenhead Hardware, Ltd., hardware	\$139 40	
Laboratory and office supplies, \$14.30; repairs, \$6.25; oil, \$5.40; sundries, \$4.91	30 86	
Applied Chemistry, Dept. of, glassware	4 00	
Beardmore Belting Co., belting	8 00 10 00	
Crosby Steam Guage & Valve Co., guage	8 56	
Eimer & Amend, glassware and supplies	74 75 16 54	
Garlock Packing Co., packing	39 49	
Ingram & Bell, mercury	4 54 3 88	
Lyman Bros. & Co., mercury Lumen Bearing Co., castings	11 46	
McColl Bros. & Co., oil	31 12	
James Morrison Brass Mfg. Co., valve Ontario Rubber Co., tubing	2 20 3 40	
Photography, Dept. of, prints	17 15	
Students' Book Dept., book	2 25	

70. Mechanical Engineering.—Continued.		
University Press, printing and stationery	48 90	
Freight charges	12 50 4 52	
Petty items (2)	1 95	
Superintendent's Dept., labor, \$16.26; material. \$108.33	124 59	
Apparatus (\$1,310.55): W. H. Banfield & Sons, steel stamp	5 00	
Canadian Fairbanks-Morse Co., scale	5 00 31 10	
Canadian General Electric Co., fan	10 00	
Canadian Westinghouse Co., apparatus	290 50	
Eimer & Amend, balance	48 50	
Goddard Bros., cartage on apparatus	7 20	
John Inglis Co., apparatus	5 15 475 50	
R. G. Kirby, table	34 90	
Macey Office Equipment Co., furniture	22 50	
Northern Electric and Mfg. Co., voltmeter	25 07	
Office Specialty Mfg. Co., cabinet Purdy, Mansell, Ltd., piping	44 59 <b>14 50</b>	
Remington Typewriter Co., typewriter and desk	118 22	
Ryrie Bros., watch	11 00	
Students' Book Dept., text-books	12 80	
Torsion Balance Co., scale	40 15	
White & Thomas, tray Freight charges	5 00 5 <b>2</b> 9	
Petty items (2)	2 50	
Superintendent's Dept., labor, \$64.51; material, \$36.57	101 08	
Proportion of fuel for Experimental Plant (\$741.70):		
Connell Anthracite Mining Co., fuel	741 70	60 CTO 01
-		\$2,652 31
71. Applied Mechanics.		
11. Applied Mechanics.		0
Supplies (\$346.00):		
Aikenhead Hardware Ltd., hardware	\$98 61	,
Aikenhead Hardware Ltd., hardware Bains & Peckover, steel	20 83	*
Aikenhead Hardware Ltd., hardware Bains & Peckover, steel Britnell & Co, stone and cement	20 83 20 90	,
Aikenhead Hardware Ltd., hardware Bains & Peckover, steel	20 83	,
Aikenhead Hardware Ltd., hardware Bains & Peckover, steel Britnell & Co, stone and cement Dean Bros., castings Frazee Storage Co., cartage W. & J. G. Greey, iron	20 83 20 90 0 63 6 50 22 58	
Aikenhead Hardware Ltd., hardware Bains & Peckover, steel Britnell & Co, stone and cement Dean Bros., castings Frazee Storage Co., cartage W. & J. G. Greey, iron Rice Lewis & Son, iron	20 83 20 90 0 63 6 50 22 58 28 48	,
Aikenhead Hardware Ltd., hardware Bains & Peckover, steel Britnell & Co, stone and cement Dean Bros., castings Frazee Storage Co., cartage W. & J. G. Greey, iron Rice Lewis & Son, iron Photography, Dept. of, slides	20 83 20 90 0 63 6 50 22 58 28 48 22 30	,
Aikenhead Hardware Ltd., hardware Bains & Peckover, steel Britnell & Co, stone and cement Dean Bros., castings Frazee Storage Co., cartage W. & J. G. Greey, iron Rice Lewis & Son, iron Photography, Dept. of, slides Steel & Radiation, metal	20 83 20 90 0 63 6 50 22 58 28 48	,
Aikenhead Hardware Ltd., hardware Bains & Peckover, steel Britnell & Co, stone and cement Dean Bros., castings Frazee Storage Co., cartage W. & J. G. Greey, iron Rice Lewis & Son, iron Photography, Dept. of, slides	20 83 20 90 0 63 6 50 22 58 28 48 22 30 4 05	
Aikenhead Hardware Ltd., hardware Bains & Peckover, steel Britnell & Co, stone and cement Dean Bros., castings Frazee Storage Co., cartage W. & J. G. Greey, iron Rice Lewis & Son, iron Photography, Dept. of, slides Steel & Radiation, metal Freight charges Superintendent's Dept., labor, \$35.12; material, \$77.50.	20 83 20 90 0 63 6 50 22 58 28 48 22 30 4 05 8 50	
Aikenhead Hardware Ltd., hardware Bains & Peckover, steel Britnell & Co, stone and cement Dean Bros., castings Frazee Storage Co., cartage W. & J. G. Greey, iron Rice Lewis & Son, iron Photography, Dept. of, slides Steel & Radiation, metal Freight charges Superintendent's Dept., labor, \$35.12; material, \$77.50.  Apparatus (\$859.55):	20 83 20 90 0 63 6 50 22 58 28 48 22 30 4 05 8 50 112 62	
Aikenhead Hardware Ltd., hardware Bains & Peckover, steel Britnell & Co, stone and cement Dean Bros., castings Frazee Storage Co., cartage W. & J. G. Greey, iron Rice Lewis & Son, iron Photography, Dept. of, slides Steel & Radiation, metal Freight charges Superintendent's Dept., labor, \$35.12; material, \$77.50.  Apparatus (\$859.55): Canada Furniture Manufacturers Ltd., chairs	20 83 20 90 0 63 6 50 22 58 28 48 22 30 4 05 8 50 112 62	
Aikenhead Hardware Ltd., hardware Bains & Peckover, steel Britnell & Co, stone and cement Dean Bros., castings Frazee Storage Co., cartage W. & J. G. Greey, iron Rice Lewis & Son, iron Photography, Dept. of, slides Steel & Radiation, metal Freight charges Superintendent's Dept., labor, \$35.12; material, \$77.50.  Apparatus (\$859.55): Canada Furniture Manufacturers Ltd., chairs Canadian Fairbanks-Morse Ltd., meter	20 83 20 90 0 63 6 50 22 58 28 48 22 30 4 05 8 50 112 62	
Aikenhead Hardware Ltd., hardware Bains & Peckover, steel Britnell & Co, stone and cement Dean Bros., castings Frazee Storage Co., cartage W. & J. G. Greey, iron Rice Lewis & Son, iron Photography, Dept. of, slides Steel & Radiation, metal Freight charges Superintendent's Dept., labor, \$35.12; material, \$77.50.  Apparatus (\$859.55): Canada Furniture Manufacturers Ltd., chairs Canadian Fairbanks-Morse Ltd., meter A. C. Champagne, charts A. Chevojon, charts	20 83 20 90 0 63 6 50 22 58 28 48 22 30 4 05 8 50 112 62 24 70 14 60 3 15 5 80	
Aikenhead Hardware Ltd., hardware Bains & Peckover, steel Britnell & Co, stone and cement Dean Bros., castings Frazee Storage Co., cartage W. & J. G. Greey, iron Rice Lewis & Son, iron Photography, Dept. of, slides Steel & Radiation, metal Freight charges Superintendent's Dept., labor, \$35.12; material, \$77.50.  Apparatus (\$859.55): Canada Furniture Manufacturers Ltd., chairs Canadian Fairbanks-Morse Ltd., meter A. C. Champagne, charts A. Chevojon, charts Dean Bros., apparatus parts	20 83 20 90 0 63 6 50 22 50 22 30 4 05 8 50 112 62 24 70 14 60 3 15 5 80 21 50	
Aikenhead Hardware Ltd., hardware Bains & Peckover, steel Britnell & Co, stone and cement Dean Bros., castings Frazee Storage Co., cartage W. & J. G. Greey, iron Rice Lewis & Son, iron Photography, Dept. of, slides Steel & Radiation, metal Freight charges Superintendent's Dept., labor, \$35.12; material, \$77.50.  Apparatus (\$859.55): Canada Furniture Manufacturers Ltd., chairs Canadian Fairbanks-Morse Ltd., meter A. C. Champagne, charts A. Chevojon, charts Dean Bros., apparatus parts Eimer & Amend, balances	20 83 20 90 0 63 6 50 22 58 28 48 22 30 4 05 8 50 112 62 24 70 14 60 3 15 5 80 21 50 166 75	
Aikenhead Hardware Ltd., hardware Bains & Peckover, steel Britnell & Co, stone and cement Dean Bros., castings Frazee Storage Co., cartage W. & J. G. Greey, iron Rice Lewis & Son, iron Photography, Dept. of, slides Steel & Radiation, metal Freight charges Superintendent's Dept., labor, \$35.12; material, \$77.50.  Apparatus (\$859.55): Canada Furniture Manufacturers Ltd., chairs Canadian Fairbanks-Morse Ltd., meter A. C. Champagne, charts A. Chevojon, charts Dean Bros., apparatus parts	20 83 20 90 0 63 6 50 22 50 22 30 4 05 8 50 112 62 24 70 14 60 3 15 5 80 21 50	
Aikenhead Hardware Ltd., hardware Bains & Peckover, steel Britnell & Co, stone and cement Dean Bros., castings Frazee Storage Co., cartage W. & J. G. Greey, iron Rice Lewis & Son, iron Photography, Dept. of, slides Steel & Radiation, metal Freight charges Superintendent's Dept., labor, \$35.12; material, \$77.50.  Apparatus (\$859.55): Canada Furniture Manufacturers Ltd., chairs Canadian Fairbanks-Morse Ltd., meter A. C. Champagne, charts A. Chevojon, charts Dean Bros., apparatus parts Eimer & Amend, balances Elevator Specialty Co., repairs to apparatus Howard & Morse, motor and apparatus G. Koppmann & Co., charts	20 83 20 90 0 63 6 50 22 58 28 48 22 30 4 05 8 50 112 62 24 70 14 60 3 15 5 80 21 50 166 75 8 15	
Aikenhead Hardware Ltd., hardware Bains & Peckover, steel Britnell & Co, stone and cement Dean Bros., castings Frazee Storage Co., cartage W. & J. G. Greey, iron Rice Lewis & Son, iron Photography, Dept. of, slides Steel & Radiation, metal Freight charges Superintendent's Dept., labor, \$35.12; material, \$77.50.  Apparatus (\$859.55): Canada Furniture Manufacturers Ltd., chairs Canadian Fairbanks-Morse Ltd., meter A. C. Champagne, charts A. Chevojon, charts Dean Bros., apparatus parts Eimer & Amend, balances Elevator Specialty Co., repairs to apparatus Howard & Morse, motor and apparatus G. Koppmann & Co., charts Macey Office Equipment Co., fyling cabinet	20 83 20 90 0 63 6 50 22 58 28 48 22 30 4 05 8 50 112 62  24 70 14 60 3 15 5 80 21 50 166 75 8 15 199 95 11 87 30 76	
Aikenhead Hardware Ltd., hardware Bains & Peckover, steel Britnell & Co, stone and cement Dean Bros., castings Frazee Storage Co., cartage W. & J. G. Greey, iron Rice Lewis & Son, iron Photography, Dept. of, slides Steel & Radiation, metal Freight charges Superintendent's Dept., labor, \$35.12; material, \$77.50.  Apparatus (\$859.55): Canada Furniture Manufacturers Ltd., chairs Canadian Fairbanks-Morse Ltd., meter A. C. Champagne, charts A. Chevojon, charts Dean Bros., apparatus parts Eimer & Amend, balances Elevator Specialty Co., repairs to apparatus Howard & Morse, motor and apparatus G. Koppmann & Co., charts Macey Office Equipment Co., fyling cabinet Geo. Murphy Inc., album for prints	20 83 20 90 0 63 6 50 22 58 28 48 22 30 4 05 8 50 112 62  24 70 14 60 3 15 5 80 21 50 166 75 8 15 199 95 11 87 30 76 23 05	
Aikenhead Hardware Ltd., hardware Bains & Peckover, steel Britnell & Co, stone and cement Dean Bros., castings Frazee Storage Co., cartage W. & J. G. Greey, iron Rice Lewis & Son, iron Photography, Dept. of, slides Steel & Radiation, metal Freight charges Superintendent's Dept., labor, \$35.12; material, \$77.50.  Apparatus (\$859.55): Canada Furniture Manufacturers Ltd., chairs Canadian Fairbanks-Morse Ltd., meter A. C. Champagne, charts A. Chevojon, charts Dean Bros., apparatus parts Eimer & Amend, balances Elevator Specialty Co., repairs to apparatus Howard & Morse, motor and apparatus G. Koppmann & Co., charts Macey Office Equipment Co., fyling cabinet Geo. Murphy Inc., album for prints Office Specialty Mfg. Co., book cases	20 83 20 90 0 63 6 50 22 58 28 48 22 30 4 05 8 50 112 62  24 70 14 60 3 15 5 80 21 50 166 75 8 15 199 95 11 87 30 76 23 05 65 25	
Aikenhead Hardware Ltd., hardware Bains & Peckover, steel Britnell & Co, stone and cement Dean Bros., castings Frazee Storage Co., cartage W. & J. G. Greey, iron Rice Lewis & Son, iron Photography, Dept. of, slides Steel & Radiation, metal Freight charges Superintendent's Dept., labor, \$35.12; material, \$77.50.  Apparatus (\$859.55): Canada Furniture Manufacturers Ltd., chairs Canadian Fairbanks-Morse Ltd., meter A. C. Champagne, charts A. Chevojon, charts Dean Bros., apparatus parts Eimer & Amend, balances Elevator Specialty Co., repairs to apparatus Howard & Morse, motor and apparatus G. Koppmann & Co., charts Macey Office Equipment Co., fyling cabinet Geo. Murphy Inc., album for prints	20 83 20 90 0 63 6 50 22 58 28 48 22 30 4 05 8 50 112 62  24 70 14 60 3 15 5 80 21 50 166 75 8 15 199 95 11 87 30 76 23 05	
Aikenhead Hardware Ltd., hardware Bains & Peckover, steel Britnell & Co, stone and cement Dean Bros., castings Frazee Storage Co., cartage W. & J. G. Greey, iron Rice Lewis & Son, iron Photography, Dept. of, slides Steel & Radiation, metal Freight charges Superintendent's Dept., labor, \$35.12; material, \$77.50.  Apparatus (\$859.55): Canada Furniture Manufacturers Ltd., chairs Canadian Fairbanks-Morse Ltd., meter A. C. Champagne, charts A. Chevojon, charts Dean Bros., apparatus parts Eimer & Amend, balances Elevator Specialty Co., repairs to apparatus Howard & Morse, motor and apparatus G. Koppmann & Co., charts Macey Office Equipment Co., fyling cabinet Geo. Murphy Inc., album for prints Office Specialty Mfg. Co., book cases Students' Book Dept., text-books Wettlaufer Bros., crusher Freight charges	20 83 20 90 0 63 6 50 22 58 23 48 22 30 4 05 8 50 112 62  24 70 14 60 3 15 5 80 21 50 166 75 8 15 199 95 11 87 30 76 23 05 65 25 46 40 228 40 0 72	
Aikenhead Hardware Ltd., hardware Bains & Peckover, steel Britnell & Co, stone and cement Dean Bros., castings Frazee Storage Co., cartage W. & J. G. Greey, iron Rice Lewis & Son, iron Photography, Dept. of, slides Steel & Radiation, metal Freight charges Superintendent's Dept., labor, \$35.12; material, \$77.50.  Apparatus (\$859.55): Canada Furniture Manufacturers Ltd., chairs Canadian Fairbanks-Morse Ltd., meter A. C. Champagne, charts A. Chevojon, charts Dean Bros., apparatus parts Eimer & Amend, balances Elevator Specialty Co., repairs to apparatus Howard & Morse, motor and apparatus G. Koppmann & Co., charts Macey Office Equipment Co., fyling cabinet Geo. Murphy Inc., album for prints Office Specialty Mfg. Co., book cases Students' Book Dept., text-books Wettlaufer Bros., crusher	20 83 20 90 0 63 6 50 22 58 28 48 22 30 4 05 8 50 112 62  24 70 14 60 3 15 5 80 21 50 166 75 8 15 199 95 11 87 30 76 23 05 65 25 46 40 228 40	\$1,205 55

## 72. Mining.

Supplies (\$1,411.09):	
Paul O. Abbé, pebbles	<b>\$9 9</b> 9
Aikenhead Hardware Ltd., hardware	95 79
Wm. Ainsworth & Sons, weights	56 51
Baird & Tatlock Ltd. glassware and supplies	164 79
Boeckh Bros. & Co., brushes	21 83
Braun Corporation, plates	39 40
R. J. Campbell, signs	4 00
Canadian General Electric Co., lamps	<b>2</b> 5 56
Central Electric Supply Co., switches	17 20
Contractors Supply Co., lime	7 48
Denver Fire Clay Co., fire clay and supplies	112 15
Domes Mines Ltd., ore	15 00
Dominion Paper Box Co., trays	3 75
Driver Harris Wire Co., wire	8 05
W. A. Drummond & Co., measures	4 50
T. Eaton Co., supplies	64 44
Eimer & Amend, chemicals and supplies	26 86
Fletcher, Russell & Co., trays Gowans, Kent & Co., jars	36 49
Grand & Toy, Ltd., stationery	12 17
Prof. H. E. T. Haultain, petty disbursements	28 15
Kingston Feldspar and Mining Co., ore	1 79
Lyman Bros. & Co., chemicals	6 52
A. Matthews, pans	24 04
F. D. Mezen, glass blowing	22 00
Mussens, Ltd., hammers	15 00
Office Specialty Mfg. Co., guide cards	11 40
Ontario Rubber Co., tubing	$\begin{array}{cccc} 7 & 16 \\ 25 & 01 \end{array}$
Photography, Dept. of, slides and prints	29 60
Reid & Brown, iron	10 50
S. Robertson, sharpening steel	20 00
Elias Rogers Co., coal	40 50
Rogers Electric Co., batteries	8 28
Rogers Supply Co., sand and cement	19 73
Scythes & Co., bags	21 00
Sturtevant Mill Co., discs	24 30
Superior Mfg. Co., rubber stamps	6 25
F. G. Terry Co., fire brick	8 70
W. S. Tyler Co., paper	10 10
University Press, stationery and supplies	45 95
Vinegar Hill Zinc Co., lead	14 10
J. Wearing Refining Co., silver	7 50
Petty items (7)	12 34
Freight charges	134 40
Superintendent's Dept., labor, \$57.58; material, \$73.23	130 81
Apparatus (\$1,993.52):	
Baird & Tatlock, Ltd., apparatus	124 25
Canadian Allis-Chalmers, Ltd., work on apparatus	15 00
Denvet Fire Clay Co., apparatus	35 15
Dodge Mfg. Co., apparatus parts	61 89
T. Eaton Co., stools and carpet	56 05
Fletcher, Russell & Co., apparatus	17 15
B. Greening Wire Co., wire screens	19 76
A. Matthews, Ltd., apparatus parts F. D. Mezen, glass apparatus	122 62
G. C. Mooring, completing tube mill, \$370.93; apparatus	10 25
\$296.52	F0= 10
\$226.53 Norton Company, tube	597 46
Office Specialty Mfg. Co., cabinet	9 81
Reid & Brown, apparatus parts	6 00
S. Robertson, apparatus	10 80
Rogers Electric Co., apparatus parts	43 25 17 58
Taylor Instrument Companies, apparatus	12 60
The state of the s	12 00

72. Mining.—Continued.				
Torsion Balance Co., balances W. S. Tyler Co., sieves Varsity Cycle Works, apparatus parts Weston Electrical Instrument Co., ammeter Petty items (2) Freight charges Superintendent's Dept., labor, \$420.72; material, \$224.83	26 88 ( 8 ( 37 ( 6 ( 22 ( 645 )	05 40 42 13 <b>25</b>		
Less credit for apparatus broken in transit	\$1,993 6			
	\$1,987		\$3,398	37
73. Metallurgical Engineering.				
Cumulian (0027 00).				
Supplies (\$837.89):  Baker & Co., platinum wire  Eimer & Amend, chemicals and supplies  Prof. G. A. Guess, disbursements:  Supplies, \$37.13; oil, paints, etc., \$27.96; labor, \$9.98;	\$107 274			
crucibles, \$4.20; sundries, \$4.26; disbursed in previous year and not recouped, \$4.30; balance unexpended returned in 1914-15, \$12.17	100			
Imperial Oil Co., oil E. H. Sargent & Co., chemicals Standard Calorimeter Co., chemicals Toronto Silver Plate Co., silver	6 6 8 3 6 6	19 53		
University Press, printing, etc. Petty items (3) Freight charges	15 4 4 7 39 7	20 70 75		
Superintendent's Dept., labor \$217.86; material. \$55.31 Apparatus (\$1,086.06):	273			
Aikenhead Hardware Ltd., tools Wm. Ainsworth & Son, balances Canadian Copper Co., apparatus	64 172 81	15 31		
Canadian General Electric Co., motor Canadian Hoskins Ltd., meters Eimer & Amend, silica tubes	41 ( 45 ( 25 §	00 90		
Fletcher Mfg. Co., copper tubes  Fletcher, Russell & Co., furnace	75 ( 75 ( 15 )	$\frac{00}{24}$		
B. Greening Wire Co., sieves  Norton Company, apparatus  Plastics, Ltd., apparatus	10 4 7 3 37 9	34 96		
Petty items (3) Freight charges Superintendent's Dept., labor, \$225.45; material, \$251.30.	7 3 18 3 476	34		
Fitting up Laboratory for Ceramics (\$283.64): Paul O. Abbé, assay mill	20 I	50		
Canadian Porcelain Co., moulds	241		a	
Less cost of tube supplied to Dept. of Electrical Engineer-	\$2,207			
ing	2 (		\$2,205	59
74. Ferro-Metallurgy.				
Supplies (\$45.75):				
Photography, Dept. of, prints	\$26 6 19 1			

74. Ferro-Metallurgy.—Continued.		
Apparatus (\$92.59): Acheson Graphite Co., electrodes Dean Bros., apparatus parts Northern Electric and Mfg. Co., cable Thor Iron Works, Ltd., apparatus Weston Electrical Instrument Co., repairs to apparatus. Petty items (3) Freight charges	16 85 9 50 25 74 28 50 5 26 5 39 1 35	<b>\$</b> 138 34
75. Surveying.		
Supplies (\$223.76):  Art Metropole, linen Consolidated Optical Co., surveyor's supplies. Engineering Society, stationery and supplies. Keuffel & Esser, tools Rice Lewis & Son, mallets. Superior Mfg. Co., rubber stamps. Freight charges Superintendent's Dept., labor, \$27.50; material, \$11.12.  Apparatus (\$616.04): Bausch & Lomb Optical Co., chronograph. Philip Harris & Co., thermometers. A. Johnston, transit Keuffel & Esser, apparatus Superintendent's Dept., labor, \$42.96; material, \$19.12.  Cartage, etc. (\$81.10): Frazee Storage & Cartage Co., cartage. Prof. L. B. Stewart, car fares for staff to and from High Park. W. J. Stinson, two months' storage of instruments at High	\$15 05 126 22 9 55 12 60 10 20 2 94 8 58 38 62 148 95 24 79 150 00 230 22 62 08 21 00	
Park	45 00	\$920 90
76. Chemistry.		
Supplies (\$1,988.70):  American Platinum Works, platinum.  Prof. J. W. Bain, disbursements:  Hardware, paint, glass, etc., \$5.75; cotton and rubber tape, \$1.92; sundries, \$4.20.  Baird & Tatlock, Ltd., chemicals.  Baker & Adamson Chemical Co., chemicals.  J. Bishop & Co., crucibles, wire, etc.  Black Lake Asbestos Co., asbestos.  Boeckh Bros. & Co., brushes.  Canada Metal Co., tin.  Central Electric Supply Co., supplies.  Driver Harris Wire Co., wire.  T. Eaton Co., fyle and cards.  Eimer & Amend, chemicals, glassware and supplies.  Eureka Mineral Wool Co., asbestos.  Fletcher Mfg. Co., casing and repairs.  Freyseng Cork Co., corks  F. W. Harbord, rubber stamps.  Geo. M. Hendry Co., blackboard  Lake Simcoe Ice Co., ice  Lyman Bros. & Co., chemicals.  F. D. Mezen, glass tubing, etc.  John Millen & Sons, tubing  Nicholls Chemical Co., chemicals.  \$268 13  Less bottles returned.  76 50  Ontario Rubber Co., tubing	\$20 33 11 87 232 76 4 63 23 37 9 18 6 40 5 64 2 20 2 72 11 88 678 49 10 39 96 00 11 71 7 50 6 86 3 03 133 36 19 00 2 64	
Chas. Potter, gas	10 25 2 73	

#### 76. Chemistry.—Continued. 4 66 A. H. Thomas & Co., tubing..... 6 20 15 05 2 85 79 38 Superintendent's Dept., labor, \$233.58; material, \$108.37 341 95, Apparatus (\$532.85): 6 50 Alkenhead Hardware, Limited, micrometer ...,..... F. E. Becker & Co., cathetometer ..... 95 74 162 72 J. Bishop & Co., platinum ware ..... Canadian Westinghouse Co., motor ..... 17 49 W. A. Drummond & Co., tester ..... 12 15 7 00 4 21 Eimer & Amend, motor ..... Ingram & Bell, instruments ..... Leeds & Northrup Co., apparatus Rice, Lewis & Son, tools 207 25 19 79 Fitting up rooms (\$210.91): Superintendent's Dept., labor, \$137.93; material, \$72.98 .... 210 91 \$2,732 46 Less sundry credits: Glassware supplied to Dept. of Mechanical \$4 00 Engineering . ..... 3 25 Received from sale of cases ..... 7 25 \$2,725 21 77. Electro-Chemistry. Supplies (\$573.58.): Aikenhead Hardware, Limited, hardware ..... \$11 33 American Platinum Works, platinum wire ...... 26 36 29 88 J. T. Baker Chemical Co., chemicals ..... 18 00 Cánadian General Electric Co., lamps ..... Contractors Supply Co., fireclay ...... Death & Watson, separators and repairs ...... 3 85 16 20 Driver Harris Wire Co., wire ..... 7 70 13 90 Engineering Society, supplies ..... 7 60 Harbison-Walker Refractories, supplies ..... 88 69 66 32 Lake Simcoe Ice Co., ice ..... 4 01 Lyman Bros. & Co., chemicals ..... 95 17 Prof. W. Lash Miller, disbursements: Hardware, oils, etc., 64 09 53 55 Ontario Rubber Co., tubing ..... 3 64 University Press, printing and stationery ..... 35 70 W. W. Wells, chemicals G. R. Workman, draughting Petty items (4) 5 75 3 10 4 83 Freight charges ..... 9 91 Superintendent's Dept., material ..... 4 00 Apparatus (\$823.41): 9 31 Aikenhead Hardware, Limited, tools ...... Bausch & Lomb Optical Co., apparatus ..... 147 87 38 77 Canadian General Electric Co., apparatus parts ..... 6 25 Central Electric Supply Co., relay ..... 52 15 J. H. Challacombe, wiring oscillograph ..... 129 95 Fletcher Manufacturing Co., apparatus ..... Leeds & Northrup, apparatus ..... 137 35 George Leworthy, glass apparatus ..... 23 40 George Leworthy, glass apparatus Northern Electric and Mfg. Co., apparatus parts H. W. Petrie Co., pump Photography, Department of, slides 23 12 12 59 5 00 22 75 Plastics, Limited, apparatus parts ..... Rogers Electric Co., apparatus parts ..... 3 25

77. Electro-Chemistry.—Continued.		
	7 14	
Trumbull Electric Mfg. Co., battery	43 20	
Freight charges	7 89	
Superintendent's Dept., labor, \$95.52; material, \$57.90  Alterations in Laboratory (\$113.20):	153 42	
Superintendent's Dept., labor, \$50.80; material, \$62.40	113 20	
		\$1,510 19
78. Architecture and Drawing.		
Architecture:		
Supplies (\$346.29):		
Aikenhead Hardware, Limited, hardware	\$1 06 12 10	
American Architect, subscription	20 10	
Balmer & Blakely, plaster and cartage	30 65	
Canadian General Electric Co., carbons	2 03	
Central Electric Supply Co., wire	$\begin{array}{ccc} 3 & 50 \\ 10 & 50 \end{array}$	
T. Eaton Co., mats, screens, and supplies	57 43	
Engineering Society, cuts	9 17	
E. Harris Co., paint	$\begin{array}{c} 4 & 30 \\ 25 & 67 \end{array}$	
Photography, Dept. of, prints	19 30	
Students' Book Dept., pamphlets	5 50	
F. G. Terry Co., plaster paris	21 00	1
University Press, stationery and printing  Prof. C. H. C. Wright, petty disbursements	40 06 <b>5 00</b>	
Petty items (5)	4 75	
Freight charges	10 27	
Superintendent's Dept., labor, \$24.71; material, \$39.19	63 90	
Apparatus (\$548.36): Aikenhead Hardware, Limited, tools	8 31	
American Architect, books	33 66	
Architectural Book Publishing Co., books	40 15	
Art Metropole, portfolio	5 00 2 <b>7 7</b> 8	
E. Challener, model	7 85	
E. Dietzgen Co., pencil sharpener	11 30	
The Librarian, journals	3 50 5 25	
McCormack & Carroll, apparatus Office Specialty Mfg. Co., fyling cabinets	126 57	
Photography, Dept. of, slides	43 90	
F. E. Simpson, moulds	$     \begin{array}{rrr}       50 & 00 \\       134 & 00     \end{array} $	
Students' Book Dept., text books	1 10	
Superintendent's Dept., labor	49 99	
Assistance and models for life class (\$135.00):	05.00	
Prof. C. H. C. Wright, paid for services of models	35 00 10 <b>0 00</b>	
F. E. Simpson, assistance		
Remuneration to Instructors, detailed under Salaries	850 00	
	1,879 65	
Drawing:		
Supplies (\$267.32):		
E. Dietzgen Co., paper	10 41	
Engineering Society, supplies	45 98 <b>127 22</b>	
Students' Book Dept., books	2 20	-
University Press, stationery and supplies	29 77	
United States Geological Survey, maps	3 21 9 00	
Petty items (2)	2 92	
Freight charges	5 85	
Superintendent's Dept., labor, \$24.64; material, \$6.12	30 76	

78. Architecture and Drawing.—Continued.			
Apparatus (\$101.99):			
Keuffel & Esser, instruments	20	04 45	
White & Thomas, apparatus part	2		
Superintendent's Dept., labor, \$24.78; material, \$24.72.  Printing Instruction Sheets (\$70.20):	49		
Photography, Dept. of, prints	65	60 60	
	\$2,319	16	
Less received from sale of old locks		00	\$2,317 16
79. Physics and Photography.			
Physics:			
Supplies (\$197.04): Aikenhead Hardware, Ltd., hardware	\$20	79	
Prof. G. R. Anderson, disbursements: Hardware, paint, etc., \$4.04; car fares, \$3.25; sun-	Ψ20	10	
dries, \$6.44	13		
Canadian General Electric Co., electrical supplies  E. Dietzgen Co., repairs	36 6		
Fletcher Mfg. Co., repairs		15	
Philip Harris & Co., thermometers		07	
Geo. M. Hendry Co., glasswareLake Simcoe Ice Co., ice	28 7		
Lyman Bros. & Co., chemicals	15	75	
Reliance Moulding Co., moulding	4 11		
Petty items (2)	2		
Freight charges	25		
Superintendent's Dept., labor, \$2.86; material, \$10.13  Apparatus (\$540.08):	12	99	
Ernemann Apparatus Co., apparatus	32		
Macey Office Equipment Co., cabinet	51 31		
Topley Company, apparatus	423		
	\$737	12	
Photography:			
Supplies (\$876.92): Actien Gesellschaft, chemicals	\$197	0.7	
Ansco Co., supplies	53		
Central Electric Supply Co., lamps	6		
Eugene Dietzgen Co., supplies	21 11		
T. Eaton Co., supplies	5	00	
C. P. Goerz, supplies	3 87		
J. G. Ramsay & Co., supplies	24		
Reliance Moulding Co., moulding	20		
Dr. C. Schleussner, plates	$\begin{array}{c} 47 \\ 296 \end{array}$		
University Press, stationery	5	85	
Petty items (2) Freight charges		50 48	
Superintendent's Dept., labor, \$68.81; material, \$16.19	85		
Apparatus (\$835.10):			
T. Eaton Co., camera	18 463		
A. B. Ormsby Co., booth for kinematograph	110	00	
Topley Company, apparatus	242	75	
Percy Blair, 6 weeks at \$4.50	27	00	
Wm. Clegg, 9 weeks at \$4.00	36	00	
H. Faulkner, 16 weeks at \$4.50	72	-00	
	\$2,584	14	

79. Physics and Photography.—Continued	•		
Less sundry credits: Received for goods damaged in transit \$5 94 Work done for various departments (including accounts receivable \$99.70)	\$563	99	\$2,020 15
80. General Expenses.			φ2,020 10 -
Stationery, printing and office supplies (\$1,118.20): Acton Publishing Co., time-tables. The Bursar, postage supplied A. T. Laing, petty disbursements. Library Bureau of Canada, cards. Might Directories, Ltd., directories. Remington Typewriter Co., inspection and supplies. G. N. Reynolds & Co., fyling cases. United Typewriter Co., inspection University Press, printing calendar, stationery, etc. Petty items (2)	704	00 75 00 00 50 00	
-			\$1,118 20
		_	\$148,971 56
V. FACULTY OF HOUSEHOLD SCIENCE.			
81. Salaries.			
Household Science Department: Miss A. L. Laird, Associate Professor, 12 mos. to 30th June. Miss E. M. Eadie, Lecturer in Household Economics (Ses-	\$2,400	00	
sional—paid also in Education)	1,000	00	
Miss N. L. Pattinson  Miss H. A. Paul  Miss L. L. Ockley  Miss Lexa Denne, Assistant (Michaelmas Term)	900 800 700 300	00 00	
Food Chemistry Department: Miss C. C. Benson, Associate Professor of Physiological			\$6,100 00
Chemistry (also Secretary to the Faculty) 12 mos. to 30th June	\$2,400		
Miss O. G. Patterson, Instructor (Sessional)	600		\$3,000 00
		-	\$9,100 00
82. Household Science Building and Departs	nent.		
(a) Maintenance of Building:  Heat and light (supplied from Central Power Plant):  Gas, city current and occasional fuel (\$157.90);			
Consumers' Gas Co	\$146 11	30 30	
City Treasurer	187	64	
Superintendent's Dept., supplies	100	88	
Superintendent's Dept., labor	955	42	
Wm. Card, exterminating rats City Treasurer, elevator license R. Robertson & Sons, masonry. Superintendent's Dept., labor, \$142.87; material, \$191.72 Sundries, changes in elevator control, steam connections, etc. (\$347.42):	10	00 00 10 59	

82. Household Science Building and Department.—	Continue	d.		
Elevator Specialty Co., repairs to motor	24 322	60 82		
Less sundry credits: cleaning \$6.00; repairs, \$2.00	\$2,128 8	95 00		
Caretaker, F. Hanmer, 12 months to 30th June	\$2,120 885	95 00	80.00	0.5
(b) Maintenance of Department: Household Science branch: Laboratory supplies, provisions, fuel, etc. (\$779.36): R. Barron, Ltd., groceries City Dairy Co., milk Connell Anthracite Mining Co., fuel. Wm. Davies Co., provisions Harris Abattoir Co., meat and provisions Miss A. L. Laird, petty disbursements Lever Bros., cleaning material Lyman Bros. & Co., chemicals H. W. Nelson & Co., matches A. Provan, groceries University Press, bags	\$105 70 24 72 174 7 20 13 5 282	00 28 39 65 66 75 78 00 64 95	\$3,005	95
Superintendent's Dept., material Laboratory Attendance (\$748.15):  Mrs. Bowes, 3½ months at \$29.00 \$101.50  173½ days at \$1.40 243.10  Mrs. Longley, 45½ days at \$1.40  Mrs. Parkinson, 2 days at \$1.35  Mrs. Rogers, 5 days at \$1.35  Mrs. Smart, 65 days at \$1.40  Mrs. Stonestreet, 171 days at \$1.40  Food Chemistry branch:	344 63 2 6 91 239	70 70 75 00		
Maintenance (\$166.13):  Baird & Tatlock, Ltd., glassware and supplies Dr. C. C. Benson, disbursements:  Food supplies, \$13.89; utensils and office supplies, \$5.94; sundries, \$4.73 T. Eaton Co., refrigerator, \$7.45; utensils, \$4.15 Eimer & Amend, chemicals and supplies Harvard Apparatus Co., kymograph Lake Simcoe Ice Co., ice Ontario Rubber Co., tubing University Press, printing S. S. White Dental Mfg. Co., gas Freight charges Superintendent's Dept., labor, \$3.40; material \$1.20.	6 13 2 3 4	56 60 44 65 20 07 25 80 87 60		5
Less received from students for breakages  Laboratory Attendance (\$157.77):  K. Bain, at 17½ cents an hour	\$183 17 \$166 \$154 3	45 \ 13		
General Expenses: Stationery, printing and incidentals (\$82.31): The Bursar, postage supplied University Press, calendar and stationery Petty items (2) Superintendent's Dept., labor, \$4.10; material, \$8.28.	24 43 2 12	25 68	øy Ann	70
			\$1,933 \$14,039	
			917,000	01

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## VI. FACULTY OF EDUCATION.

## 83. Salaries.

Tr. Dalama Durfacer of History and Coionea of Education		
W. Pakenham, Professor of History and Science of Education (also Dean of Faculty), 12 months to 30th June	\$3,600 00	
Associate Professors:	40,000	
H. T. J. Coleman, 1st July to 30th Sept. (resigned)	750 00	
P. Sandiford, 12 months to 30th June	2,700 00	
H. J. Crawford, also Head Master of University Schools, 12	9 000 00	
months to 30th June	3,000 00	
Jecturers in Methods; also Chief Instructors, University Schools, each 12 months to 30th June:		
G. A. Cornish, Science	2,300 00	
J. T. Crawford, Mathematics	2,200 00	
O. J. Stevenson, English and History	2,100 00	
W. C. Ferguson, French and German	2,100 00	
F. E. Coombs, Elementary Subjects	2,100 00	
S. W. Perry, Art and Commercial Work, also Assistant	1 000 00	
Instructor, University Schools	1,900 00	
30th June:		
T. M. Porter	2,000 00	
H. A. Grainger	2,000 00	
J. A. Irwin	1,900 00	
J. O. Carlisle	1,800 00	
J. G. Workman	1,800 00	
W. J. Dunlop	1,700 00	
G. A. Cline	1,600 00 1,600 00	
W. L. C. Richardson	1,600 00	
A. N. Scarrow; also Instructor in Faculty of Education	1,600 00	
G. N. Bramfitt; " " " "	1,500 00	
D. E. Hamilton	1,400 00	
J. B. Wallace (ten payments)	1,400 00	
Miss E. M. Eadie, Instructor in Household Science (Sessional—	100.00	
paid also in Faculty of Household Science)  Supervisors of Practice Teaching (Sessional):	100 00	
L. E. Embree, High Schools	100 00	
W. E. Groves, Public Schools	100 00	
Stenographer in Dean's Office:		
Miss E. Watkins, 1st July to 31st August at \$650 per annum		
(resigned)	108 32	
Miss V. Kerr, four weeks at \$9 per week	$\begin{array}{ccc} 36 & 00 \\ 472 & 00 \end{array}$	
Miss L. Swinarton, 29th Sept. to 30th June at \$12 per week	412 00	\$45,566
		φ 20,000
84. Education Building and Department.		
(a) Maintenance of Building:		
Fuel (\$1,171.56): W. H. Cox Coal Co., fuel	\$1,039 28	
Connell Anthracite Mining Co., fuel	13 80	
Britnell & Co., cartage	118 48	
Light*(\$655.26):		
Consumers' Gas Co	7 98	
Toronto Electric Light Co	647 28	
Water (\$122.46):	199 46	
City Treasurer	122 46	
Scientific Boiler Compound Co., compound	12 50	
Superintendent's Dept., supplies	226 68	
Cleaning (\$1,310.24):		
Allen Manufacturing Co., laundry	6 38	
Canadian Window Cleaning Co., cleaning windows Superintendent's Dept., labor	18 00	
Repairs and Renewals (\$1,036.85):	1,285 86	
Aikenhead Hardware, Limited, locks	50 00	
Wm. Bartlett & Son, blinds	8 57	
	~	

	84. Education Building and Department.—Cont	inued.		
	Canada Floors, Limited, on account for stair treads R. Robertson & Sons, cutting doorway		81 50 15	
	Less sundry credits: light, \$7.50; cleaning, \$52.50;	\$4,535	55	
	repairs, \$26.90	86	90	
	Engineer and Caretaker, S. Hunter, 12 months to 30th June	\$4,448	65	
	at \$1,200.00 (less 4½ days)	1,185 400	00	
	(paid also as Laboratory attendant under Dept.)	247	80	\$6,281 45
(b)	Maintenance of Department:  Payment to City for use of Schools (\$3,300.00):  The Board of Education, City of Toronto  Clerical Assistance (\$286.00):	\$3,300	00	
	Miss Jean Ward, 52 weeks at \$5.50	286	00	
	The Bursar, postage supplied Library Bureau of Canada, card cabinet Might Directories, Ltd., city directory Prof. Wm. Pakenham, disbursements:		00 00 00	
	Car fares, \$12.54; telegrams, express, etc., \$4.58; fee for supply Instructor, \$2.50; sundries, \$4.17; balance unexpended returned in 1914-15, \$1.21  United Typewriter Co., inspection University Press, calendar, printing and stationery. Superintendent's Dept., material General Supplies and Apparatus for class-room use (\$2,464.33) Aikenhead Hardware, Ltd., tools and hardware Art Metropole, drawing supplies, etc. Berlin Photographic Co., prints Braun & Co., picture P. P. Caproni & Bros., models.  E. Dietzeen Co. instruments and drawing supplies	18 529 4 : 42 32 15 9 62	05 21 29 50 61 15	
	E. Dietzgen Co., instruments and drawing supplies T. Eaton Co., bookcase, \$54.45; shades, \$53.00; cabinet and supplies, \$29.97 E. B. Eddy Co., matches W. & J. George, Ltd., glassware and supplies Gourlay, Winter & Leeming, rent of piano J. F. Hartz Co., chemicals Heintzman & Co., rent of piano George M. Hendry Co., seats, \$52.43; supplies, \$13.22. Keystone View Co., cabinet R. Laidlaw & Co., lumber Rice Lewis & Son, locks Lyman Bros. & Co., chemicals C. W. Mack, rubber stamps Mackenzie & Co., framing George B. Meadows Co., lockers Owl Drug Stores, bottles T. S. Plaskett, repairs Rogers Electric Co., apparatus and supplies Russill Hardware Co., hardware "The School," copies of "The School," \$5.00; maps, \$3.00 Robert Simpson Co., burlap Students' Book Dept., text books, stationery and supplies	137 4 430 244 65 28 157 15 38 10 38 154 36 9 15 8 36	70 30 00 05 00 65 10 93 00 25 00 60 10 26 90 00 46	
	Teachers' College, slides Arthur Tooth & Sons, picture 'Yopley Company, supplies	7	70 77 05	

84. Education Building and Department.—Cont	inued.	
United States Geological Survey, maps University Press, stationery and supplies Warwick Bros. & Rutter, examination paper R. M. Williams, diplomas Sundry Newspapers, advertising re-opening of school. Petty items (11) Freight charges Superintendent's Dept., labor, \$205.66; material, \$241.05 Athletics (\$282.33): Dunlop Tire & Rubber Goods Co., hose and couplings. A. G. Spalding Co., balls Stock & Bickle, medals	13 34 131 40 41 50 3 50 12 00 19 48 49 72 446 71 22 71 16 55 87 90	-
Superintendent's Dept., labor, \$146.73; material, \$8.44 Laboratory Assistance (\$80.00):	155 17	
A. Scott, 40 weeks at \$2.00 (paid also as Messenger)	80 00	- \$7,134 71
•	`	\$58,982 48
VII. FACULTY OF FORESTRY,	-	
85. Salaries.		
B. E. Fernow, Professor (also Dean of Faculty), 12 months to 30th June	\$4,000 00	
C. D. Howe, Assistant Professor, at \$2,100, of which \$1,050 charged to Botany, 12 months to 30th June	1,050 00	
Lecturers (Sessional): A. H. D. Ross	1,800 00	
J. H. White, \$1,700, of which \$350 charged to Botany Miss E. W. Mills, Stenographer in Dean's office, 12 months to	1,350 00	
30th June	550 00	\$8,750 00
86. Forestry Building and Department.	·	
(a) Maintenance of Building:		
Fuel (\$358.74): Connell Anthracite Mining Co	\$358 74	•
Light (\$326.52): Consumers' Gas Co	37 24	
Toronto Electric Light Co	289 28	
City Treasurer	30 88	
Superintendent's Dept., supplies	66 97	1
Allen Manufacturing Co., laundry Superintendent's Dept., labor Repairs and Renewals (\$495.94):	$\begin{array}{c} 2 & 70 \\ 240 & 10 \end{array}$	
Adams Furniture Co., chairs  Canada Glass Mantels and Tiles, Ltd., tiles  R. Robertson & Sons, masonry	6 90 8 50 14 70	
Routery Bros., plastering	7 90 457 94	
	\$1,521 85	
Less sundry credits: cleaning, \$7.00; repairs, \$2.30	9 30	
Caretaker, H. Lonergan, 12 months to 30th June	\$1,512 55 600 00	
(b) Maintenance of Department:		- \$2,112 55
Apparatus (\$276.57):  Eimer & Amend, sieves	<b>\$</b> 13 67	
chimneys, \$3.60; tumblers, \$3.00; pans, \$2.80; sundries, \$1.20	14 60	)

86. Forestry Building and Department.—Continued	l.	
George M. Hendry Co., maps		87 50
Emil Pfenninger & Co., apparatus	11	
Photography, Dept. of, prints and slides	23	
Queen City Glass Co., opal glass	8	
Rudd Paper Box Co., boxes	12	
W. E. Saunders & Co., boxes		77 25
Students' Book Dept., books Topley Company, jars and balance	129	
University Press, mounting cards		25
Petty items (2)		71
Superintendent's Dept., labor, \$25.65; material, \$5.15	30	
Office expenses, printing and postage (\$110.13):	00	00
The Bursar, postage supplied	40	00
Prof. B. E. Fernow, petty disbursements	3	
O. B. Stanton & Wilson Co., paper		00
United Typewriter Co., inspection and supplies		50
University Press, stationery and supplies	50	
Superintendent's Dept., material	3	46
Fittings and Contingencies (\$111.02):	-	F 0
Dale Furniture Co., tables	7	50
Prof. B. E. Fernow, disbursements: Express, postage and car fares, \$9.98; telegrams, \$5.63; framing and		
photographic supplies, \$4.20; sand, \$3.75; sund-		
ries, \$1.79	25	2 =
Might Directories, Ltd., clippings		70
Freight charges	$\frac{3}{24}$	
Superintendent's Dept., labor, \$31.56; material, \$16.44	48	
Reserve for Summer work, travel and special lectures (\$375.00):	10	00
Prof. B. E. Fernow, advance for expenses locating		
camp, etc	87	66
A. H. D. Ross, travelling expenses, field work, etc	7	34
W. N. Miller, lectures on trail and telephone construc-		
tion	30	
Dr. H. von Schrenk, lectures on diseases of timber	200	
A. S. Williams, lectures on logging	50	00
Clerical Assistance (\$115.30):	4.4	0.0
W. F. Bumsted, 44 hours at 25c. Miles Burford, 298 hours at 35c.	11	
Miles Burlord, 498 Hours at 50c	104	30

\$988 02

\$11,850 57

## VIII. RESIDENCES AND DINING HALL.

#### 87. Men's Residences.

\$0	
339	86
192	39
349	00
58	80
51	
2	00
9	75
	339 192 349 231 58 51 3,653 2

87. Men's Residences.—Continued.		
Wm. Card, exterminating rats T. Eaton Co., utensils Robt. Simpson Co., utensils Standard Bedding Co., mattress Petty items (3) Superintendent's Dept., labor, \$743.43; material, \$566.45.	15 00 37 20 8 35 5 20 2 86 1,309 88	
*	00.007.04	
Less sundry credits: International Geological Congress \$300 00 City Planning Congress 37 50 Sundry repairs 61 94	399 44	\$5,868 20
99 Waman'a Dasidanasa		
88. Women's Residences.		
Fuel (\$1,705.88):  Connell Anthracite Mining Co.  Light (\$693.21):	\$1,705 88	
Consumers' Gas Co. Toronto Electric Light Co.	243 74	
Toronto Hydro-Electric System	$342 16 \\ 107 31$	
Water (\$148.51): City Treasurer	148 51	
Repairs and Renewals (\$1,194.96):		
Boiler Repair & Grate Bar Co., grate bars	$\begin{array}{cccc} 40 & 50 \\ 23 & 67 \end{array}$	
City Storage Co., cartage	1 10	
Murray-Kay, Ltd., rugs and carpet	142 82	
Reliance Moulding Co., moulding	8 10 12 84	
Routery Bros., plastering	39 35	
Robt. Simpson Co., tables	5 70	
Freight charges	3 18 917 70	
Superintendent is septi, labor, volunt, volunt		
Less sundry credits for repairs	\$3,742 56 13 93	
	\$3,728 63	•
Housekeeping Account: Provision and Housekeeping Expenses (\$7,686.52):		
Acme Dairy Co., milk	\$713 36	
Bowes Co., provisions, butter and eggs	908 24 $2,474 72$	
Brown Bros., meat	2,414 12	
travelling expenses, \$6.00; soap, \$5.30; food sup-	159 10	
plies. \$3.65; sundries, \$16.69	153 19 380 12	
W. J. A. & H. Carnahan, medical supplies	1 75	
Carter & Leonard, fish	136 52. 105 63	
Club Coffee Co., coffee	78 40	
Geo. Coles, cake, etc.	254 49	
R. T. Dean, flowers  Fox Provision Co., provisions	5 25 278 67	
Gourlay, Winter & Leeming, piano hire	98 00	
Gowans, Kent & Co., dishes	$\begin{array}{cccc} 121 & 91 \\ 2 & 35 \end{array}$	
Gurney Oxford Stove Co., repairs	3 80	
Harris Abattoir, meat	25 05	

\$15,293 24

00 Wayania Pasidanasa Cartinus I	
88. Women's Residences.—Continued.	
H. J. Heintz Co., pickles	60 90
Knickerbocker Ice Co., ice	81 00
Lake Simcoe Ice Co., ice	24 00
Rice Lewis & Son, cutlery	9 35
F. W. Matthews, ambulance service	2 50
Michie & Co., spring water, etc	7 06
Dr. Miller, Stamford, apples	28 00
Murray-Kay, Ltd., carpet sweeper and brushes	13 00
F. Simpson & Sons, provisions	7 49
Geo. Sparrow & Co., utensils and repairs	60 75
Swan Bros., groceries	1,182 79
Students' Book Dept., stationery	2 30
Chas. Topping, vegetables	436 95
University Press, printing and stationery	13 80
John Wanless & Co., clock	10 00
Superintendent's Dept., labor making bread box	5 18
Cleaning and House Service (\$3.285.27):	
Allen Mfg. Co., laundry	290 32
Baillies' Laundry, laundry	<b>36</b> 26
Canadian Window Cleaning Co., cleaning windows	8 00
Superintendent's Dept., cleaning material, etc	68 81
Pay Lists, wages of servants, maids, etc	2,860 38
Employment Agencies, securing maids	21 50
•	
	\$14,700 42
Superintendent, Mrs. M. H. Campbell, 12 months to 30 June	1,100 00
	A4 F 000 40
Town and the Administration of Contract of	\$15,800 42
Less credited from International Geological Congress	507 18
<del>-</del>	
00 701-1 77-77	
89. Dining Hall.	
Fuel (\$241.20):	2044 00
Fuel (\$241.20): Connell Anthracite Mining Co	<b>\$24</b> 1 20
Fuel (\$241.20): Connell Anthracite Mining Co	
Fuel (\$241.20): Connell Anthracite Mining Co. Light (\$177.52): Consumers' Gas Co.	\$241 20 177 52
Fuel (\$241.20):  Connell Anthracite Mining Co.  Light (\$177.52):  Consumers' Gas Co.  Cleaning and House Service (\$7,249.96):	177 52
Fuel (\$241.20): Connell Anthracite Mining Co. Light (\$177.52): Consumers' Gas Co. Cleaning and House Service (\$7,249.96): Allen Mfg. Co., laundry	177 52 634 61
Fuel (\$241.20): Connell Anthracite Mining Co. Light (\$177.52): Consumers' Gas Co. Cleaning and House Service (\$7,249.96): Allen Mfg. Co., laundry Pay Lists, wages of waiters and other servants	177 52
Fuel (\$241.20): Connell Anthracite Mining Co. Light (\$177.52): Consumers' Gas Co. Cleaning and House Service (\$7,249.96): Allen Mfg. Co., laundry Pay Lists, wages of waiters and other servants Food Supplies (\$22,882.96):	177 52 634 61 6,615 35
Fuel (\$241.20):     Connell Anthracite Mining Co. Light (\$177.52):     Consumers' Gas Co. Cleaning and House Service (\$7,249.96):     Allen Mfg. Co., laundry     Pay Lists, wages of waiters and other servants Food Supplies (\$22,882.96):     Barnes Bros., fruit	177 52 634 61 6,615 35 5 75
Fuel (\$241.20):     Connell Anthracite Mining Co. Light (\$177.52):     Consumers' Gas Co. Cleaning and House Service (\$7,249.96):     Allen Mfg. Co., laundry     Pay Lists, wages of waiters and other servants Food Supplies (\$22,882.96):     Barnes Bros., fruit     Belle Ewart Ice Co., ice	177 52 634 61 6,615 35 5 75 149 89
Fuel (\$241.20): Connell Anthracite Mining Co. Light (\$177.52): Consumers' Gas Co. Cleaning and House Service (\$7,249.96): Allen Mfg. Co., laundry Pay Lists, wages of waiters and other servants Food Supplies (\$22,882.96): Barnes Bros., fruit Belle Ewart Ice Co., ice W. L. Bengough, fruit	177 52 634 61 6,615 35 5 75 149 89 9 00
Fuel (\$241.20): Connell Anthracite Mining Co. Light (\$177.52): Consumers' Gas Co. Cleaning and House Service (\$7,249.96): Allen Mfg. Co., laundry Pay Lists, wages of waiters and other servants Food Supplies (\$22,882.96): Barnes Bros., fruit Belle Ewart Ice Co., ice W. L. Bengough, fruit J. J. Brennan, fruit	177 52 634 61 6,615 35 5 75 149 89 9 00 11 00
Fuel (\$241.20): Connell Anthracite Mining Co. Light (\$177.52): Consumers' Gas Co. Cleaning and House Service (\$7,249.96): Allen Mfg. Co., laundry Pay Lists, wages of waiters and other servants Food Supplies (\$22,882.96): Barnes Bros., fruit Belle Ewart Ice Co., ice W. L. Bengough, fruit J. J. Brennan, fruit Calumet Tea & Coffee Co., meal	177 52 634 61 6,615 35 5 75 149 89 9 00 11 00 15 00
Fuel (\$241.20): Connell Anthracite Mining Co. Light (\$177.52): Consumers' Gas Co. Cleaning and House Service (\$7,249.96): Allen Mfg. Co., laundry Pay Lists, wages of waiters and other servants Food Supplies (\$22,882.96): Barnes Bros., fruit Belle Ewart Ice Co., ice W. L. Bengough, fruit J. J. Brennan, fruit Calumet Tea & Coffee Co., meal Canada Bread Co., bread	177 52 634 61 6,615 35 5 75 149 89 9 00 11 00 15 00 1,238 65
Fuel (\$241.20):     Connell Anthracite Mining Co. Light (\$177.52):     Consumers' Gas Co. Cleaning and House Service (\$7,249.96):     Allen Mfg. Co., laundry     Pay Lists, wages of waiters and other servants Food Supplies (\$22,882.96):     Barnes Bros., fruit     Belle Ewart Ice Co., ice     W. L. Bengough, fruit     J. J. Brennan, fruit     Calumet Tea & Coffee Co., meal     Canada Bread Co., bread     Canada Tea Co., tea	177 52 634 61 6,615 35 5 75 149 89 9 00 11 00 15 00 1,238 65 27 60
Fuel (\$241.20):     Connell Anthracite Mining Co. Light (\$177.52):     Consumers' Gas Co. Cleaning and House Service (\$7,249.96):     Allen Mfg. Co., laundry     Pay Lists, wages of waiters and other servants Food Supplies (\$22,882.96):     Barnes Bros., fruit     Belle Ewart Ice Co., ice     W. L. Bengough, fruit     J. J. Brennan, fruit     Calumet Tea & Coffee Co., meal     Canada Bread Co., bread     Canada Tea Co., tea     Carpenter Bros., fruit	177 52 634 61 6,615 35 5 75 149 89 9 00 11 00 15 00 1,238 65 27 60 13 50
Connell Anthracite Mining Co.  Light (\$177.52): Consumers' Gas Co.  Cleaning and House Service (\$7;249.96): Allen Mfg. Co., laundry Pay Lists, wages of waiters and other servants  Food Supplies (\$22,882.96): Barnes Bros., fruit Belle Ewart Ice Co., ice W. L. Bengough, fruit J. J. Brennan, fruit Calumet Tea & Coffee Co., meal Canada Bread Co., bread Canada Tea Co., tea Carpenter Bros., fruit Chatsworth Marketing Co., fruit	177 52 634 61 6,615 35 5 75 149 89 9 00 11 00 15 00 1,238 65 27 60 13 50 31 50
Connell Anthracite Mining Co.  Light (\$177.52):  Consumers' Gas Co.  Cleaning and House Service (\$7,249.96):  Allen Mfg. Co., laundry  Pay Lists, wages of waiters and other servants  Food Supplies (\$22,882.96):  Barnes Bros., fruit  Belle Ewart Ice Co., ice  W. L. Bengough, fruit  J. J. Brennan, fruit  Calumet Tea & Coffee Co., meal  Canada Bread Co., bread  Canada Tea Co., tea  Carpenter Bros., fruit  Chatsworth Marketing Co., fruit  Cleghorn & Co., fruit and vegetables	177 52 634 61 6,615 35 5 75 149 89 9 00 11 00 15 00 1,238 65 27 60 13 50 31 50 545 85
Connell Anthracite Mining Co.  Light (\$177.52): Consumers' Gas Co.  Cleaning and House Service (\$7,249.96): Allen Mfg. Co., laundry Pay Lists, wages of waiters and other servants  Food Supplies (\$22,882.96): Barnes Bros., fruit Belle Ewart Ice Co., ice W. L. Bengough, fruit J. J. Brennan, fruit Calumet Tea & Coffee Co., meal Canada Bread Co., bread Canada Tea Co., tea Carpenter Bros., fruit Chatsworth Marketing Co., fruit Cleghorn & Co., fruit and vegetables Club Coffee Co., coffee	177 52 634 61 6,615 35 5 75 149 89 9 00 11 00 15 00 1,238 65 27 60 13 50 31 50 545 85 18 70
Connell Anthracite Mining Co.  Light (\$177.52):  Consumers' Gas Co.  Cleaning and House Service (\$7,249.96):  Allen Mfg. Co., laundry  Pay Lists, wages of waiters and other servants  Food Supplies (\$22,882.96):  Barnes Bros., fruit  Belle Ewart Ice Co., ice  W. L. Bengough, fruit  J. J. Brennan, fruit  Calumet Tea & Coffee Co., meal  Canada Bread Co., bread  Canada Tea Co., tea  Carpenter Bros., fruit  Chatsworth Marketing Co., fruit  Cleghorn & Co., fruit and vegetables  Club Coffee Co., coffee  Geo. Coles, Ltd., ice cream	177 52 634 61 6,615 35 5 75 149 89 9 00 11 00 15 00 1,238 65 27 60 13 50 31 50 545 85 18 70 28 85
Connell Anthracite Mining Co.  Light (\$177.52):  Consumers' Gas Co.  Cleaning and House Service (\$7,249.96):  Allen Mfg. Co., laundry  Pay Lists, wages of waiters and other servants  Food Supplies (\$22,882.96):  Barnes Bros., fruit  Belle Ewart Ice Co., ice  W. L. Bengough, fruit  J. J. Brennan, fruit  Calumet Tea & Coffee Co., meal  Canada Bread Co., bread  Canada Tea Co., tea  Carpenter Bros., fruit  Chatsworth Marketing Co., fruit  Cleghorn & Co., fruit and vegetables  Club Coffee Co., coffee  Geo. Coles, Ltd., ice cream  Davidson & Hay, groceries	177 52  634 61 6,615 35  5 75 149 89 9 00 11 00 15 00 1,238 65 27 60 13 50 31 50 545 85 18 70 28 85 5 40
Connell Anthracite Mining Co.  Light (\$177.52):  Consumers' Gas Co.  Cleaning and House Service (\$7,249.96):  Allen Mfg. Co., laundry  Pay Lists, wages of waiters and other servants  Food Supplies (\$22,882.96):  Barnes Bros., fruit  Belle Ewart Ice Co., ice  W. L. Bengough, fruit  J. J. Brennan, fruit  Calumet Tea & Coffee Co., meal  Canada Bread Co., bread  Canada Tea Co., tea  Carpenter Bros., fruit  Chatsworth Marketing Co., fruit  Cleghorn & Co., fruit and vegetables  Club Coffee Co., coffee  Geo. Coles, Ltd., ice cream  Davidson & Hay, groceries  James Dempster, bread	177 52 634 61 6,615 35 5 75 149 89 9 00 11 00 15 00 1,238 65 27 60 13 50 31 50 545 85 18 70 28 85 5 40 403 77
Connell Anthracite Mining Co.  Light (\$177.52):  Consumers' Gas Co.  Cleaning and House Service (\$7,249.96):  Allen Mfg. Co., laundry  Pay Lists, wages of waiters and other servants  Food Supplies (\$22,882.96):  Barnes Bros., fruit  Belle Ewart Ice Co., ice  W. L. Bengough, fruit  J. J. Brennan, fruit  Calumet Tea & Coffee Co., meal  Canada Bread Co., bread  Canada Tea Co., tea  Carpenter Bros., fruit  Chatsworth Marketing Co., fruit  Cleghorn & Co., fruit and vegetables  Club Coffee Co., coffee  Geo. Coles, Ltd., ice cream  Davidson & Hay, groceries  James Dempster, bread  M. Doyle Fish Co., fish	177 52 634 61 6,615 35 5 75 149 89 9 00 11 00 15 00 1,238 65 27 60 13 50 31 50 545 85 18 70 28 85 5 40 403 77 97 59
Connell Anthracite Mining Co.  Light (\$177.52):  Consumers' Gas Co.  Cleaning and House Service (\$7,249.96):  Allen Mfg. Co., laundry  Pay Lists, wages of waiters and other servants  Food Supplies (\$22,882.96):  Barnes Bros., fruit  Belle Ewart Ice Co., ice  W. L. Bengough, fruit  J. J. Brennan, fruit  Calumet Tea & Coffee Co., meal  Canada Bread Co., bread  Canada Tea Co., tea  Carpenter Bros., fruit  Chatsworth Marketing Co., fruit  Cleghorn & Co., fruit and vegetables  Club Coffee Co., coffee  Geo. Coles, Ltd., ice cream  Davidson & Hay, groceries  James Dempster, bread  M. Doyle Fish Co., fish  H. P. Eckardt & Co., groceries	177 52 634 61 6,615 35 5 75 149 89 9 00 11 00 15 00 1,238 65 27 60 13 50 31 50 545 85 18 70 28 85 5 40 403 77 97 59 603 39
Connell Anthracite Mining Co.  Light (\$177.52): Consumers' Gas Co.  Cleaning and House Service (\$7,249.96): Allen Mfg. Co., laundry Pay Lists, wages of waiters and other servants  Food Supplies (\$22,882.96): Barnes Bros., fruit Belle Ewart Ice Co., ice W. L. Bengough, fruit J. J. Brennan, fruit Calumet Tea & Coffee Co., meal Canada Bread Co., bread Canada Tea Co., tea Carpenter Bros., fruit Chatsworth Marketing Co., fruit Cleghorn & Co., fruit and vegetables Club Coffee Co., coffee Geo. Coles, Ltd., ice cream Davidson & Hay, groceries James Dempster, bread M. Doyle Fish Co., fish H. P. Eckardt & Co., groceries Farmers' Dairy Co., milk	177 52 634 61 6,615 35 5 75 149 89 9 00 11 00 15 00 1,238 65 27 60 13 50 31 50 545 85 18 70 28 85 5 40 403 77 97 59 603 99 2,870 96
Connell Anthracite Mining Co.  Light (\$177.52): Consumers' Gas Co.  Cleaning and House Service (\$7,249.96): Allen Mfg. Co., laundry Pay Lists, wages of waiters and other servants  Food Supplies (\$22,882.96): Barnes Bros., fruit Belle Ewart Ice Co., ice W. L. Bengough, fruit J. J. Brennan, fruit Calumet Tea & Coffee Co., meal Canada Bread Co., bread Canada Tea Co., tea Carpenter Bros., fruit Chatsworth Marketing Co., fruit Cheghorn & Co., fruit and vegetables Club Coffee Co., coffee Geo. Coles, Ltd., ice cream Davidson & Hay, groceries James Dempster, bread M. Doyle Fish Co., fish H. P. Eckardt & Co., groceries Farmers' Dairy Co., milk Harris Abattoir Co., meat	177 52  634 61 6,615 35  5 75 149 89 9 00 11 00 15 00 1,238 65 27 60 13 50 31 50 545 85 18 70 28 85 5 40 403 77 97 59 603 99 2,870 96 11,355 32
Connell Anthracite Mining Co.  Light (\$177.52):  Consumers' Gas Co.  Cleaning and House Service (\$7,249.96):  Allen Mfg. Co., laundry  Pay Lists, wages of waiters and other servants  Food Supplies (\$22,882.96):  Barnes Bros., fruit  Belle Ewart Ice Co., ice  W. L. Bengough, fruit  J. J. Brennan, fruit  Calumet Tea & Coffee Co., meal  Canada Bread Co., bread  Canada Tea Co., tea  Carpenter Bros., fruit  Chatsworth Marketing Co., fruit  Cleghorn & Co., fruit and vegetables  Club Coffee Co., coffee  Geo. Coles, Ltd., ice cream  Davidson & Hay, groceries  James Dempster, bread  M. Doyle Fish Co., fish  H. P. Eckardt & Co., groceries  Farmers' Dairy Co., milk  Harris Abattoir Co., meat  R. B. Hayhoe & Co., groceries	177 52  634 61 6,615 35  5 75 149 89 9 00 11 00 15 00 1,238 65 27 60 13 50 31 50 545 85 18 70 28 85 5 40 403 77 97 59 603 39 2,870 96 11,355 32 113 88
Connell Anthracite Mining Co.  Light (\$177.52): Consumers' Gas Co.  Cleaning and House Service (\$7;249.96): Allen Mfg. Co., laundry Pay Lists, wages of waiters and other servants  Food Supplies (\$22,882.96): Barnes Bros., fruit Belle Ewart Ice Co., ice W. L. Bengough, fruit J. J. Brennan, fruit Calumet Tea & Coffee Co., meal Canada Bread Co., bread Canada Tea Co., tea Carpenter Bros., fruit Chatsworth Marketing Co., fruit Cleghorn & Co., fruit and vegetables Club Coffee Co., coffee Geo. Coles, Ltd., ice cream Davidson & Hay, groceries James Dempster, bread M. Doyle Fish Co., fish H. P. Eckardt & Co., groceries Farmers' Dairy Co., milk Harris Abattoir Co., meat R. B. Hayhoe & Co., groceries H. J. Heintz Co., pickles	177 52  634 61 6,615 35  5 75 149 89 9 00 11 00 15 00 1,238 65 27 60 13 50 31 50 545 85 18 70 28 85 5 40 403 77 97 59 603 39 2,870 96 11,355 32 113 88 7 55
Connell Anthracite Mining Co.  Light (\$177.52):  Consumers' Gas Co.  Cleaning and House Service (\$7,249.96):  Allen Mfg. Co., laundry  Pay Lists, wages of waiters and other servants  Food Supplies (\$22,882.96):  Barnes Bros., fruit  Belle Ewart Ice Co., ice  W. L. Bengough, fruit  J. J. Brennan, fruit  Calumet Tea & Coffee Co., meal  Canada Bread Co., bread  Canada Tea Co., tea  Carpenter Bros., fruit  Chatsworth Marketing Co., fruit  Cleghorn & Co., fruit and vegetables  Club Coffee Co., coffee  Geo. Coles, Ltd., ice cream  Davidson & Hay, groceries  James Dempster, bread  M. Doyle Fish Co., fish  H. P. Eckardt & Co., groceries  Farmers' Dairy Co., milk  Harris Abattoir Co., meat  R. B. Hayhoe & Co., groceries  Limperial Extract Co., extracts	177 52  634 61 6,615 35  5 75 149 89 9 00 11 00 15 00 1,238 65 27 60 13 50 31 50 545 85 18 70 28 85 5 40 403 77 97 59 603 39 2,870 96 11,355 32 113 88
Connell Anthracite Mining Co.  Light (\$177.52): Consumers' Gas Co.  Cleaning and House Service (\$7;249.96): Allen Mfg. Co., laundry Pay Lists, wages of waiters and other servants  Food Supplies (\$22,882.96): Barnes Bros., fruit Belle Ewart Ice Co., ice W. L. Bengough, fruit J. J. Brennan, fruit Calumet Tea & Coffee Co., meal Canada Bread Co., bread Canada Tea Co., tea Carpenter Bros., fruit Chatsworth Marketing Co., fruit Cleghorn & Co., fruit and vegetables Club Coffee Co., coffee Geo. Coles, Ltd., ice cream Davidson & Hay, groceries James Dempster, bread M. Doyle Fish Co., fish H. P. Eckardt & Co., groceries Farmers' Dairy Co., milk Harris Abattoir Co., meat R. B. Hayhoe & Co., groceries H. J. Heintz Co., pickles	177 52  634 61 6,615 35  5 75 149 89 9 00 11 00 15 00 1,238 65 27 60 13 50 31 50 545 85 18 70 28 85 5 40 403 77 97 59 603 99 2,870 96 11,355 32 113 88 7 55 5 00

#### 89. Dining Hall.—Continued.

os. Dining Han.—Commuea.			
James Lumbers Co., groceries	90	10	
Geo. W. Manly, meat		90	
Maple Leaf Milling Co., flour	193		
Medland Bros., groceries	1,359		
T. J. Medland, Ltd., groceries	275		
Minto Bros., tea		25	
Wm. Neilson Co., ice cream		25	
Nicholson & Dempster, vegetables		25	
Rutherford, Marshall & Co., honey, etc.		93	
J. J. Ryan, vegetables	99		
Ryley & Sons, eggs	387		
F. Simpson & Sons, groceries	584		
Stevens' Meat Co., meat		41	
Stronach & Sons, vegetables	24		
Chas. Topping, vegetables	402		
Todhunter, Mitchell & Co., coffee, etc	200		
Vanluven Bros., maple syrup	27		
Warren Bros. & Co., groceries	652		
White & Co., fruit and vegetables	779	54	
Petty items (2)	2	48	
Dishes, utensils and sundry expenses (\$1,631.93):			
Wm. Card, exterminating rats	4	60	
John Catto & Son, table linen and towelling	123		
Davidson & Hay, sealers	10		
T. Eaton Co., utensils	31		
Fletcher Mfg. Co., utensils and repairs	21		
Gowans, Kent & Co., dishes and glassware	290		
Gurney Foundry Co., utensils	21		
Inglis & Co., table linen	134		
	33		
Miller Mfg. Co., coats	59	-	
Miller & Sons, flowers		40	
Northern Aluminum Co., aluminum ware			
W. G. Patrick & Co., table linen		00	
Dr. Victoria Reid, attending injured dietitian	12		
Dr. D. E. Robertson, attending injured waiter	20	00	
Miss V. M. Ryley, disbursements: express and freight,			
\$31.62; utensils, \$10.90; office supplies, \$5.96; postage			
and telephone tolls, \$5.40; dry goods, \$5.03; drugs,			
\$4.81; sundries, \$18.42; to be accounted for in 1914-15,			
\$2.85	84		
Geo. Sparrow & Co., utensils and repairs	200		
John Taylor & Co., cleaning material	9		
Toronto Silver Plate Co., cutlery	18	00	
University Press, printing meal tickets, etc	90		
Women's Welcome Hostel, fee for securing waiters	3	50	
Petty items (5)	7	48	
Superintendent's Dept., labor, \$282.22; material, \$157.43	439	65	
_			
	\$32,183	57	
Superintendent, Miss V. M. Ryley, 12 months to 30 June	. 1,250	00	
	\$33,433	57	
Less credited from International Geological Congress,			
\$900.00; Civic Planning Congress, \$100.00	1,000	00	
, , , , , , , , , , , , , , , , , , ,			\$32,433 57
		_	
			\$53,595 01
		_	
· · · · · · · · · · · · · · · · · · ·			

## IX. (90) ROYAL ONTARIO MUSEUM.

## X. (91) CENTRAL LIGHT, HEAT AND POWER PLANT.

Fuel (\$26,649.23):			
W. H. Cox Coal Co. Britnell & Co., teaming	\$24,008 2,640		
City Electric Current (\$1,424.24): Toronto Electric Light Co.	1,424	24	
Water (\$265.90):			
City Treasurer	265	90	
etc. (\$3,674.89): Aikenhead Hardware, Ltd., tools	6	26	
Babcock & Wilcox, Ltd., guage glasses		20	
Bell Telephone Co., repairs to cable in tunnel	20	67	
Callis, Sheppard & Abbott, repairs to meter		00	
Canadian General Electric Co., packing		50 06	
Canadian Window Cleaning Co., cleaning windows		00	
Wm. Card, exterminating rats		00	
Philip Carey Co., engineers' supplies		10	
Central Station Steam Co., counters		03	
Collett's Carriage Works, tools		50 94	
Gardner Grate Co., grates		10	
Garlock Packing Co., packing		02	
International Engineering Works, valve rod	29	00	
G. S. Knickerbocker, analysis of coal		00	
G. C. Mooring, boiler compound		50	
Purdy, Mansell, Ltd., repairing mains	123 121		
R. Robertson & Sons, repairing floors and drains	171		
L. J. Rogers, analysis of fuel	48		
Schaeffer & Budenberg Mfg. Co., charts		53	
Scientific Boiler Compound Co., boiler compound  The Superintendent, disbursements: inspection of scales,	23	75	
\$10.87; oil, \$8.00; sundries, \$1.60	20	47	
Turnbull Elevator Mfg. Co., repairs to elevator	226		
Freight charges	66	48	
Petty items (4)		72	
Superintendent's Dept. labor, \$929.22; material, \$1,503.11	2,432	33	
Engineers, firemen and helpers (\$7,992.47): Chief Engineer:			
Chas. Moseley, Sr., 1st July to 23rd September, at			
\$2,400.00; 23rd September to 30th June, at			
\$2.000.00	2,092	22	
Assistant Engineers, at \$840.00 per annum: C. S. Moseley, 12 mos. to 30th June	840	0.0	
J. Sandie, 12 mos. to 30th June, overtime 2 hours	842		
W. Smith, 12 mos. to 30th June		0.0	
Firemen and helpers to 30th June:			
At \$60.00 per month			
At \$50.00 per month			
	3,378	25	
			\$40,006 73
XI. (92) Contingencies.			
City Treasurer, local improvement taxes for 1913 on 11 Queen's			
Park, \$20.83; 85 St. George Street, \$12.47	\$33	30	
W. N. Ponton, K.C., valuation of Belleville lands		00	
Loudon Portrait Fund:			
Wm. Orpen, amount required to complete payment  Napler Tercentenary Celebration, subscription to Memorial	79	49	
Napler Tercentenary Celebration, subscription to Memorial volume	ç	77	

XI. (92) Contingencies.—Continued.  Interest on Contractors' Deposits, re Central Power Plant Construction:  W. J. McGuire, Ltd.  Purdy, Mansell, Ltd.	271 96		\$504 56
XII. (93) CAPITAL ACCOUNT CHARGES.			
Accountant, Supreme Court of Judicature, fifth annual payment on debenture issue of 1909	\$25,260 6,568 15,157 18,945	00	\$65,930 00
•			\$931,452 57

## APPENDIX IV.

## University Press.

Transactions for year ending 30th June, 1914.

Receipts during 1913-14	<b>\$35</b> ,224 36	
General accounts	5,230 74	@40.455.10
Expenses (detailed below)  Value of supplies bought in advance and on hand 30th June, 1914 \$1,488 00 and work in progress 295 00	\$34,670 78	\$40,455 10
Less liabilities	1,259 00	
	1,200 00	33,411 78
Surplus on operations, 1913-14		\$7,043 32 1,259 00
Carried to Plant Account		\$5,784 32
Plant Account.		
Amount of account, 30th June, 1913	\$5,263 73 3,501 83	
Transferred from Operating Account	\$8,765 56 5,784 32	
Ledger balance 30th June, 1914		\$2,981 24
Details of Expenditure. Operating Accoun	ıt.	
R. J. Hamilton, Manager, 12 mos. salary R. J. Hamilton, allowance for clerical work E. A. Hughes, 6 3-5 mos. salary as bookkeeper Pay Lists, wages of employees	\$1,000 00 200 00 606 17 19,594 76	\$21,400 93
Printing and binding supplies (\$13,208.85):  Alexander & Cable Lithographing Co., lithographing Art Metropole, Ltd., paper Ault & Wiborg, printing ink Barber & Ellis, Ltd., paper Barber Paper & Coating Mills, paper W. A. Blachford, ruling, etc. Brigdens, Ltd., half-tones W. R. Brock Co., ribbon J. Brotherton, ribbon Brown Bros., paper, etc. Brown Stewart & Co., paper Bryant Press, printing Buntin-Reid Co., paper Business Systems, Ltd., paper The Bursar, postage supplied Canada Paper Co., paper E. Carroll, grinding knives	\$42 00 47 89 106 54 618 33 523 00 221 50 275 11 12 86 5 00 3,411 54 417 27 14 00 642 00 18 60 368 70 311 51 11 00	

Aď

## University Press.—Continued.

University Press.—Continued.	
College Press, printing	50 00
Copp, Clark Co., binding, etc.	295 43
Dennison Mfg. Co., tags	9 59
	7 18
R. Dinnis & Son, lumber	
Dominion Envelope Co., envelopes	39 48
Dominion Leather Goods Co., cases	198 72
Dominion Paper Box Co., tubes, etc.	32 40
J. Doust, fyling cases	7 00
Gordon E. Edward, commutators	37' 00
W. J. Gage & Co., paper	239 67
Goldsmith Bros., gold leaf	27 00
G. Goulding & Sons, ribbon	9 00
Grand & Toy, blankbooks, stationery	197 95
F. W. Halls Paper Co., paper	92 61
R. J. Hamilton, disbursements: cleaning, \$61.50; carpentry	
work and material, \$14.09; freight, cartage, etc., \$12.77;	
car fares, \$8.84; sundries, \$7.06	104 26
G. M. Hendry Co., supplies	4 17
Hoyt Metal Co., metal	18 00
Imperial Oil Co., oil	21 64
W. S. Johnston & Co., printing	29 50
Kilgour Bros., bags	4 07
Lanston Monotype Machine Co., monotype supplies	318 30
H. J. Logan, wire	14 30
Littlejohn & Vaughan, electros	10 90
McFarlane Sons & Hodgson, paper	154 57
Geo. B. Meadows Co., guard	7 50
Menzies & Co., cards	36 73
Miller & Richard, supplies	6 62
Moir & Warren, paper	27 00
John Muir & Son, leather	36 96
National Paper Goods, Co., envelopes	6 78
National Typewriter Co., typewriter supplies	73 48
Office Specialty Mfg. Co., office supplies	16 69
Paste & Gum Co., paste	16 00
B. Pearce, envelopes	4 00
Ratcliff Paper Co., paper	2 45
Remington Typewriter Co., paper	3 00
E. & J. Richardson, leather	94 14
Shackell, Edwards & Co., printing ink	98 33
Southam, Ltd., printing	81 38
Standard Embossing Co., embossing, etc.	390 10
W. J. Stewart, ruling	40 49
Students' Book Dept., stationery and sundries	125 00
St. Lawrence Paper Mills Co., paper	1,840 50
Telfer Mfg. Co., boxes	115 40
F. S. Thomas & Co., ruling, etc.	285 55
Toronto Delivery & Cartage Co., cartage	45 68
	41 40
United Typewriter Co., typewriter supplies	25 00
Warwick Bros. & Rutter, examination books	32 25
	552 32
Wilson, Munroe & Co., paper, etc	116 54
Freight charges	22 85
Petty items (20)	95 12
Superintendent's Dept., labor, \$45.79; material, \$49.33	20 12
vertising (\$61.00):	36 00
Tripity University Poview	10 00
Trinity University Review University Y. M. C. A.	15 00
University 1. M. O. A	15 00

\$13,269 85

# Details of Expenditure, Plant Account.

Hoyt Metal Co., monotype metal	\$83	73
Lanston Monotype Machine Co., equipment	3,069	55
Miller & Richard, type, etc	162	22
James Robertson Co., monotype metal	123	20
Freight charges	33	40
Superintendent's Dept., labor, \$16.10; material, \$13.63	29	73
_		- \$3,501 83

\$3,043 31

# APPENDIX V.

## SUPERINTENDENT'S STORES AND SUNDRY LABOR ACCOUNT.

Supplies on hand 30th June, 1913	
Purchases during year:	
Advance Oil Supply Co., oils	\$37 50
Aikenhead Hardware, Ltd., hardware	636 39
Alberene Stone Co., soapstone	80 53
Wm. Bartlett & Sons, blackboard	18 56
C. H. Basters & Co., lamps	697 48
Wm. Blaikie, castings	6 71
Boeckh Bros. & Co., brushes and brooms	205 81
W. J. Bolus & Co., wallpaper	6 04
Booth-Coulter Copper & Brass Mfg. Co., hose and reels	48 50
W. R. Brock Co., cloth	372 78
Wm. Calder & Son, blacksmithing	9 55
Callis, Sheppard & Abbott, journal box	40 00
Canada Glass Mantels & Tiles Ltd., glass	1,207 70
Canada Hardware Ltd., hardware	513 96
Canada Show Case Co., locks	32 40
Canadian Allis-Chalmers Ltd., compressor	360 75
Canadian General Electric Co., motor and brushes	25 25
Canadian H. W. Johns-Manville Co., pipe covering	68 83
Canadian Powers Regulator Co., regulators	74 00
John Catto & Son, towels	21 60
Central Electric & Schools Supply Co., electrical supplies	1,533 66
Chapman & Walker, lamps	379 80
Freek Clark Co., hardware	123 81
Consumers' Gas Co., burners	9 00
Crescent Oil Co., oil	72 48
Henry Disston & Son, saws	5 94
Dominion Radiator Co., plumbers' and steamfitters' supplies	1,753 19 383 27
C. A. Dunham & Co., traps	509 49
Dunlop Tire Co., hose and couplings  Eagle Lock Co., locks	101 29
T. Eaton Co., Ltd., supplies	91 52
H. P. Eckardt & Co., cleaning material	272 14
Economy Fuse & Mfg. Co., fuse	265 98
E. B. Eddy Co., toilet paper	254 00
Electric Storage Battery Co., batteries	28 81
Fletcher Mfg Co., dust-pans	8 24
Garlock Packing Co., waste	102 94
Gurney Foundry Co., plumbers' supplies	24 42
T. H. Hancock & Co., lumber	1,362 57
Geo. M. Hendry Co., crayons, blackboards, etc	96 28
Frank Hillock & Co., lumber	19 67
Imperial Ladder Co., ladders	
Interlake Tissue Mills, towels	52 00
Warden King, Ltd., grates, etc.	23 17
R. Laidlaw & Co., lumber	1,782 45
Lansing ('o., casters	19 84
Lyman Bros., chemicals	17 25
McColl Bros. & Co., paints, oils, etc.	550 25
McFarlane Ladder Works, ladders	23 72 5 75
McGregor & McIntyre, glass	20 00
Alex. Marks & Son, plumbers' supplies	8 55
Master Builders Co., concrete hardener	15 00
A. Matthews, Ltd., piping,	202 09
Matthews Bros., moulding	33 00
Geo. B. Meadows, wire work	47 45
John Millen & Son, horn	6 00
Jas. Morrison Brass Mfg. Co., plumbers' supplies	1,405 32
G. W Moss, tungsten lamps	35 00
Mott & Co., drinking fountains	106 05

## Stores and Labour Account.—Continued.

Murray-Kay Co., cork carpet	238 79	
National Typewriter Co., ribbons, etc.	35 00	
H. W. Nelson Co., brooms and shovels	48 35	
Northern Electric Mfg. Co., electrical supplies	23 10	
Ontario Lime Co., lime	21 76	
Ontario Rubber Co., tips, etc.	14 56	
Onward Mfg. Co., floor-wax	24 80	
Page Wire Fence Co., fence	106 15	
Palmer & Elliott, wall-paper	5 60	
H. L. Peiler & Co., traps	21 50	
C. H. Perkins & Co., flanges	12 25	
N. L. Piper Railway Supply Co., oil	24 90	
Reid & Brown, castings	14 05	
Rice, Lewis & Son, hardware	40 39	
P. L. Robertson Mfg. Co., screws	55 67	
Sadler & Haworth, belting		
	35 30 2.262 68	
Sanderson Pearcy Co., paint, oil, etc.		
Scientific Boiler Compound Co., boiler compound	47 63	
Scythes & Co., waste	10 45	
Sheet Metal Products Co., iron	31 34	
Robert Simpson Co., wallpaper	84 22	
Sloan Valve Co., valves	42 88	
J. B. Smith & Son, lumber	195 49	
Soclean, Ltd., cleaning material	25 00	
Standard Foundry Co., castings	67 04	
Standard Rubber Supply Co., rubber	25 20	
Standard Sanitary Mfg. Co., plumbers' supplies	1,439 95	
Steel & Radiation, Ltd., plumbers' supplies	26 90	
Sturgeons, Ltd., paint	59 92	
Talbot & Talbot, mop cloths	106 00	
Topley Company, glass	30 00	
Toronto Brass Mfg. Co., screws	37 <b>0</b> 0	
Toronto Electric Light Co., heaters	39 00	
Toronto Wood Turning Works, lumber	38 65	
Uneeda Specialty Mfg. Co., dusters	7 41	
Union Rubber & Supply Co., sheet-rubber, washers, etc	109 35	
University Press, stationery	22 20	
Weiss & Biheller, Ltd., lamps	100 00	
Stephens, Welch & Co., cleaning material	35 QS	
West Disinfecting Co., cleaning material	32 40	
A. R. Williams Machine Co., shafting, etc.	19 48	
Wm. E. Wilson Co., plumbers' supplies	24 28	
The Superintendent, petty disbursements, gasoline, etc	15 76	
Freight charges	87 58	
Items under \$5.00 (20)	49 64	
	10 01	\$22,025 63
	_	<b>422,020 00</b>
		\$25,068 94
Sundry labor, as per pay lists:		
Carpenters	\$10,047 70	
Electricians	3.005 58	
Painters		
Plumbers		
	6,151 16 10,001 10	
Laborers, firemen, etc.	16,617 64	
Cleaners	10,017 04	49,965 03
	_	10,000 00
		\$75.033 97
Apportionment of the foregoing:		
Labor.	Material	
Administration (\$10.336.72):		
Bursar's Office	\$0 30	
Registrar's Office	0 77	
Superintendent's Office	0 92	
Library Building 976 70	340 46	

976 70

Library Building .....

## Stores and Labour Account.—Continued.

Library Current	230 2	8 90	65
Gymnasium Building	528 4	9 89	61
Gymnasium: Aid to Athletics	4 0	5 0	40
Convocation Hall	977' 3	5 , 549	69
Grounds	5,938 0		15
Convocation Expenses	5 0	0	
Examinations	29 4		
Receptions	2 5		
Faculty of Arts (\$12,922.01):			
Main Building	3,611 1	7 1,748	30
Biological Building	1,131 0		
Biological Department	99 6		14
Botanical Department	629 0		
Bio-Chemical Department	99 5	1 120	66
Physiological Department	80 2		26
Chemical Bullding	894 1		
Chemical Department	313 2		
Physical Chemistry Department	18 1		64
Physics Building	1,569 7		
Physical Department	67 3		
Astro-Physical Department	78 5		43
Geological Department	1 4		50
Mineralogical Department	127 6		04
Psychological Department	60 3		98
Mathematical Department			6 <b>5</b>
Mechanics	12 4		17
Political Science	12 6		68
French Department	1 8	_	-
University College Incidentals	0 4		05
University Extension	24 8		
Faculty of Medicine (\$4,632.64):	44 0	9 19	17
Anatomical Department	107 7	z 79	04
Pathological Department	107 7		
Chemical Pathology Department	52 8 203 0		19
Pharmacological Department			21
Modical Department	26 7		75
Medical Department	4 4		00
Hygiene Department	1 4		28
Modical Duilding	10 3		25
Medical Building Pathological Building	1,657 5		
Cononel Exposure	1,251 4		
General Expenses	12 1	7 51	60
Faculty of Applied Science (\$10,663.49):	0.400.0		
Chemistry and Mining Building	2,426 3		
Engineering Building	2,053 9		
Thermodynamics Building	460 9		
Observatory Building	202 1		
Department of Electrical Engineering	234 3		
Department of Mechanical Engineering	80 7		
Department of Applied Mechanics	41 2		88
Department of Mining Engineering	478 3		
Department of Metallurgical Engineering.	637 0		64
Department of Surveying	70 4		24
Department of Applied Chemistry	371 5		35
Department of Electro-Chemistry	146 3		30
Department of Architecture and Drawing	124 <b>1</b>	2 70	03
Department of Engineering Physics and			
Photography	71 6	7   26	32
Faculty of Household Science (\$1.731.49):			
Household Science Building	1,236 6		03
Household Science Department	7 5	0 10	28
Faculty of Education (\$2,901.29):		_	
Education Building	1,782 6		
Education Department	352 3	9 253	54

Stores and Labour Account.	-Continu	ıed.			
Faculty of Forestry (\$847.27):					
Forestry Building	531	90	233	11	
Forestry Department	57	21	25	05	
Residences and Dining Hall (\$6,743.82):					
Men's Residences	4,397		915		
Women's Residences	529		387	84	
Women's Residence, Housekeeping Account	5	18	68	81	
Dining Hall	282		157	43	
Central Power Plant	4,307	47	1,503	11	
University Press	45	79	49	33	
Printing Plant Account	16	10	13	63	
Antitoxin Laboratory Alterations	386	36	345	10	
Museum Building Construction Account	621	30			
Pathological Building Construction Account	863	09	881	07	
Central Heat, Light and Power Construction					
Account	231	46	140	75	
Knox College Extension	77	59	761	96	
Alterations to No. 4 Queen's Park	1,456	13	808	53	
Repairs to Rented Properties	188	58	148	61	
Royal Ontario Museum	3,841	99	2,510	14	
Medical Research Fund			0	95	
Work done for members of the staff, etc. (in-					
cluding accounts receivable on 30th June,					
\$568.87)	492	92	946	88	
	\$49,965	03	\$21,452	54	¢51 417 57

\$71,417 57

Ledger balance 30th June, 1914, Schedule 5a......\$3,616 40

# APPENDIX VI.

DETAILS OF EXPENDITURE ON NEW BUILDINGS, ETC.

DETAILS OF EXPENDITURE ON NEW DUILDINGS	, EIC.			
1. Central Heat, Light and Power Plant (Construction):			-	
General Contracts (\$366.862.45):				
Babcock & Wilcox, boilers	\$25,768	85		
\$1,081.25	9,177	23		
L. K. Comstock & Co., tunnels, etc., \$163,739.38; extra payment re errors, etc., \$5,200.00	168,939	38		
Darling & Pearson, architects' and engineers' fees and expenses	27,378	36		
W. J. McGuire, Ltd., tunnel piping, etc., \$79,679.65;				
extra payment re errors, etc., \$7,126.53	86,806			
Murphy Iron Works, mechanical stokers  Purdy, Mansell, Ltd., power house piping	10,425 $32,403$			
R. Robertson & Sons:—	02,700	7 (		
Chimney and smoke tunnel \$5,699 00				
Foundation for engine				
Removal of boiler				
Wall in tunnel	5.963	0.6		
Lighting Grounds (\$4,000.00):	0.000	20		
Dominion Illuminating Rental Co., lamp standards	1,000			
R. Robertson & Sons, bases for standards	26	80		
Superintendent's Dept., labor, \$1,127.08; material, \$1,846.12	2,973	20		
Domestic Hot Water Supply (\$1,711.93):	2,310	20		
Superintendent's Dept., labor, \$530.27; material,				
\$1,181.66	1,711	93		
R. Robertson & Sons, foundation for pump	49	80		
Superintendent's Dept., labor, \$891.57; material,				
\$3,658.45 ,	4,550	02		
Floor Drain in Boiler Room (\$293.15): R. Robertson & Sons, masonry	187	20		
Superintendent's Dept., labor, \$22.90; material, \$83.05.				
Diverting City Water Mains (\$635.90):				
City Treasurer, diverting mains				
Purdy, Mansell, Ltd., connecting service	31	79		
Permanent connection with City Service (\$345.14): Toronto Electric Light Co., wiring	345	14		
Switchboard Panel (\$1,000.00):	010			
Electrical Engineering Department (1911-12) for ex-				
penditure in connection with motor generator set.	1,000	00		
Domestic Telephone System (\$799.38): Superintendent's Dept., labor, \$395.08; material, \$404.30	799	38		
Route across Carbrook Property (\$3,000.00):				
J. H. Mayne Campbell & A. H. Campbell, executors of				
estate of the late A. H. Campbell		00		
Interest on advances during construction (to December, 1911)	_	46		
-		_		
	\$388,696			
Less received from sale of old material	1,717	22	\$386,979	01
Extension to Knox College:			4000,010	0.1
Superintendent's Dept., labor, \$77.59; material, \$761.96,				
on account of construction	839	55	000	
			839	55
			\$387,818	56
Expended prior to 1913-14				
Expended during 1913-14	63,328	70	0907 010	56
			\$387,818	00

2.

## Expenditures on New Buildings .-- Continued.

napenatianes on 14th Butturnys. Continued	4.
Pathological Building (Construction):	
General Contracts (\$134,454.53):	
Canada Foundry Co., ornamental iron	\$5,525 00
Canada Glass, Mantels & Tiles, Ltd., marble and tile,	\$0,020 00
\$5,884.90; hardware, \$1,718.45	7,603 35
	11,830 00
R. C. Dancy, plastering	
Darling & Pearson, architects' fees	6,685 97 10,369 10
Dominion Bridge Co., structural steel	
Eadie, Douglas Co., terra cotta	2,100 00
Forbes Roofing Co., roofing and sheet metal	1,335 05
George Henry, carpentry	12,074 40
A. E. Phillips, painting and glazing	2,369 79
Purdy, Mansell, Ltd., plumbing and heating	16,207 68
R. Robertson & Sons, masonry	55,650 94
Turnbull Elevator Co., elevators	2.453 25
Superintendent's Dept., domestic hot water system,	
labor, \$77.93; material, \$172.07	250 00
Fence (\$367.10):	
Canadian Allis-Chalmers, Ltd., fence and erection	350 00
Superintendent's Dept., labor, \$14.40; material, \$2.70	17 10
Roadway (\$221,20):	
City Treasurer, crossing at Christopher Street	12 60
Britnell & Co., stone	41 10
Superintendent's Dept., labor	167 50
Equipment:	
(a) General Interior Furnishings and Fittings	
(\$33,728.28):	
Alberene Stone Co., alberene stone	684 85
Wm. Bartlett & Sons, blinds	244 21
Canadian Fire Underwriters Association, inspection	13 58
Canada Furniture Manufacturers, Ltd., chairs and	
stools	165 16
Canada Glass, Mantels & Tiles, Ltd., tiling	99 00
City Storage Co., cartage	1 90
Consumers' Gas Co., piping	6 50
J. H. Craig, drafting	15 00
Kent Company, Ltd., refrigerating plant	2,288 00
Geo. B. Meadows, Ltd., lockers	684 40
Morse-Bulger Destructor Co., animal destructor	270 00
R. Robertson & Sons, animal house and destructor	124 40
Turnbull Elevator Mfg. Co., dumb waiter	72 00
Vereinigte Fabriken, animal house equipment	210 00
Williams & Cole, plans and specifications for fume	
cabinet	75 00
Freight charges	20 12
Superintendent's Dept., labor and material as	
follows:	
Labor. Material.	
Laboratory plumbing,	
carpentry, painting,	
etc	
Animal house and de-	
structor	
Refrigerating plant . 299 83 404 22	
Fume flues 533 76 501 90	
Locks for laboratory	
cupboards	
Shelf supports for	
laboratory tables 382 85	
Lecture room seats 133 76 380 94	
Chart drawers 42 00 32 50	
Blackboards	
Chairs and stools 42 79 21 62	
Library furniture 62 56	
Lockers	

## ${\it Expenditures \ on \ New \ Buildings.}\hbox{--}{\it Continued}.$

	Shades	191	60 95 30	207 162	09		
		\$15,243	83	\$13,510	33	\$28,754	16
(b)	Instruments and Apparatus Pathology (\$3,465.56):	for the	Dep	artment	of		
	J. F. Hartz Co., epidiascope	and dra	wing	g appara	tus	\$634	
	Topley Company, microscop Spencer Lens Co., microton	ne and i	oara:	ffin bath	 S	$2,400 \\ 431$	
(c)	Instruments and Apparatu of Chemical Pathology Baird & Tatlock, Ltd., blowp \$27.00; calorimeter, \$56 \$28.17; gas apparatu \$100.00; sterilizer, \$1	s for t (\$7,925. dipes, \$44.00; dige s, \$74.0	he 1 .74): 4.12; ester: 03;	Departm centrifus and sti incubat	ent ige, ils, tor,		
	\$52.46; staff outfit, \$1	25.00;	stud	ents' ou	tfit,	001	F-0
	\$59.00	 n room 35.13; bi pump	equi urne	pment . rs, \$26.0	0	63 61 1	25 00 13 10 03
	International Instrument C	o., centr	ifug	es, \$529.	55;	707	9.0
	digesters and stills, \$ Inland Revenue Dept., met Johnson, Matthey & Co., pla	hylated atinum v	spir vare	its and dis	hes	106	92 41
	Kny-Scheerer Co., students W. H. Kuhlmann, balance.						79 31
	C. F. Palmer, kymograph .					464	73
	R. Robertson & Sons, concer Franz Schmidt & Haensch	rete wor	k for	r centrif	uge	75	00
	spectroscopes, \$126.75					347	46
	Theodor Schuchardt, reager Vereinigte Fabriken: autoc \$183.25; blowpipes, \$50 drying apparatus, \$13 gas apparatus, \$46.00; \$50.00; ovens, \$87.00; \$40.00; vacuum plan \$138.00; students' outfit atory outfit, \$330.00; re	elaves, \$1 .00; calc .00; fun glassward press, t, \$89.0 t, \$579.66 eagent as	120.0 prim rnac e, \$4 \$31.0 0; b; cl	0; balan eter, \$31 es, \$135 15.73; m 00; sha staff ou inical la tock bot	ces, .00; .40; ills, ker, tffit, bor- tles,		95
	\$500.00					2,839 16	04 5 80
	Freight charges Superintendent's Dept., lal						71
		Labo			erial.		
	Centrifugal machine. Compressor		7 48 3 88		3 66 1 49		
	Pumps	28	3 50	388	8 50		
	Motors and shafting. Stands, racks, etc		1 24 9 44		7 91 8 26		
	Operation room equip-						
	ment		3 00		5 <b>10</b> 0 89		
	-						
		\$765 	9 57	\$87	5 81	1,64	5 38
Cli	nical Theatre at Toronto Ge	eneral H	ospi	tal (\$775	.35):		
	Wm. Bartlett & Son, blir	ıds				2	8 32
	Geo. M. Hendry Co., chair Superintendent's Dept.,					60	0 00
	\$52.30					14	7 03

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R. C. Dancy, plastering	2,000	00		
McDonald & Wilson, electric fixtures	706	45		
Rice, Green & Co., electric wiring	500	00		
R. Robertson & Sons, masonry	7,500	0.0		
Grading, etc. (\$1,020.14):				
City Treasurer, crossing at Bloor St	. 33	24		
R. Robertson & Sons, stone and culverts	86	90		
W. H. Thomson, teaming	331	50		
Superintendent's Dept., labor	568	50		
Fittings and Equipment (\$250.45):				
T. Eaton Co., mats	52	50		
Rice Lewis & Son, turnstiles	145	15		
Superintendent's Dept., labor, making cases	52	80		
			\$13,016	92
Expended prior to 1913-14			355,563	56

	\$3	68	,580	48
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4.	Women	a's Residences:
	No. 4	Queen's Park

Fu

٠	4	wueen's r	ark:
	A	lterations	(\$4,908.82):

Canadian Fire Underwriters' Association, electrical		
inspection	4	00
Canadian H. W. Johns-Manville Co., covering boil-		
ers	14	25
City Treasurer, installing water mains	28	00
A. Matthews, metal work and piping	131	30
Routery Bros., plastering	387	80
Superintendent's Dept., labor, \$2,535.38; material,		
\$1,808.09	4,343	47

\$4	9	ብጸ	82	

rnishings (\$3,839.32):			
Alderson, Hammond & Ritchey, finishing floors	\$58	00	
Anchor Mfg. Co., beds	145	70	
Wm. Bartlett & Son, shades	30	34	
W. R. Brock & Co., carpet, linen, etc	454	05	
John Brown, blankets	151	12	
Canada Furniture Mfrs., Ltd., furniture	1.486	48	
John Catto & Sons, spreads	27		
T. Eaton Co., trays	7	20	
John Macdonald & Co., curtains		62	
F. J. Moore, tables		00	
Murray-Kay, Ltd., linoleum, rugs, etc	778		
P. Myles, wardrobe	50		
Phillips Mfg. Co., mirrors	12		
M. Rawlinson, cartage		65	
Debont Clarates Co.	_		
Robert Simpson Co., gas appliance	1	75	
Standard Bedding Co., mattresses	119	40	
Toronto Silver Plate Co., cutlery	113	26	

Freight Superin \$12

Expenditures on New Buildings.—Continued.			
chargestendent's Dept., labor, \$176.72; material,	39	47	
1.97	298	69	

\$3,856 32 Credit for bookcase supplied Library ...... 17 00

\$3,839 32

Less amount received from the Ontario Government in lieu of repairs after occupation....

800 00

\$8,748 14

\$7,948 14

\$7,948 14



92

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## REPORT

OF THE

# Secretary and Registrar

OF THE

## PROVINCE OF ONTARIO

FOR THE YEAR
ENDING 31st DAY OF OCTOBER

1914

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO



TORONTO:

Printed by L. K. CAMERON, Printer to the King's Most Excellent Majesty
1915

Printed by
WILLIAM BRIGGS
Corner Queen and John Streets
TORONTO

To His Honour, John Strathearn Hendrie, Commander of the Royal Victorian Order, a Lieutenant-Colonel of the Militia of Canada, etc., etc., etc.

Lieutenant-Governor of the Province of Ontario.

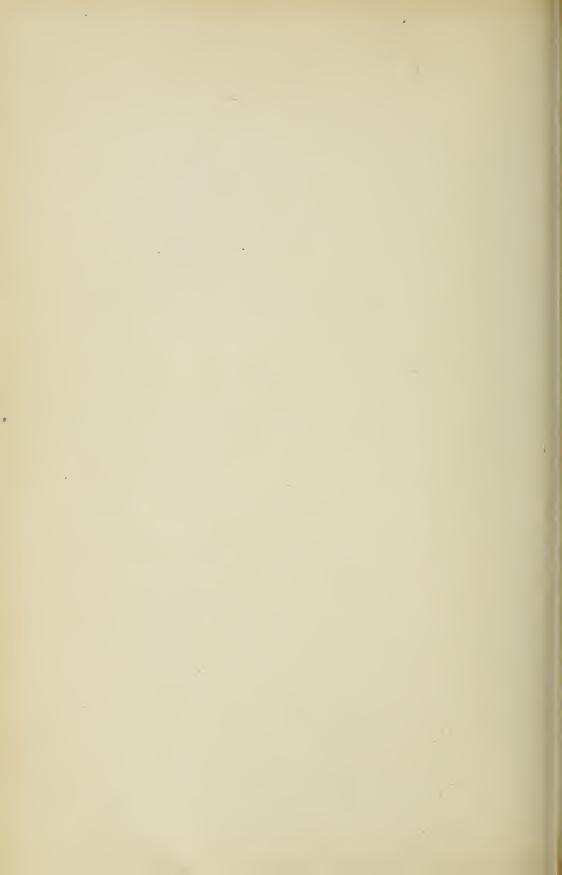
MAY IT PLEASE YOUR HONOUR:

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, 1914.

W. J. HANNA,

Secretary and Registrar of the Province of Ontario.

Provincial Secretary's Office, Toronto, April 14th, 1915.



#### REPORT

OF THE

## SECRETARY AND REGISTRAR

OF THE PROVINCE OF ONTARIO

For the Year ending October 31st, 1914

PROVINCIAL SECRETARY'S OFFICE,

TORONTO, April, 1915.

To the Honourable

WILLIAM JOHN HANNA, M.P.P.

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, 1914, 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, 1914.

November	\$15,757	50
December	1 )	
January	,	
February	41,507	76
March		18
April		
May		
June	,	
July	- ,	
August	18,089	
September	,	
October	11,774	
Total		

#### STATEMENT OF SOURCE OF FEES RECEIVED DURING 1914.

Letters Patent, Licenses, etc	\$176,270	05
Companies' Returns		
Automobile Licenses	149,210	45
Commissions		
Certificates		
By-Laws, Copies and Searches	2,257	36

Fotal.....\$359.782 3

#### NUMBER OF CHARTERS AND LICENSES ISSUED.

Year.	Number of Instruments.	Fees.
1892	158	\$6,780 00
1893		8,465 00
1894		7,729 00
1895		10,000 00
1896	154	14,335 00
1897	358	34,650 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		227,312 90
1908		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		232,079 05
1912–13	1,305	232,364 35 •
1913–14	1,120	176,270 05

REPORT OF LICENSES ISSUED FOR AUTOMOBILES, ETC., DURING THE YEAR 1914.

Auto Licenses: To cars owned in Ontario To others	25,308 6,416	31.724		
Motor Cycle Licenses: To motorcycles owned in Ontario To others	3,457 176	,		
To chauffeur licenses	3,763	3,633 3,763		
Total receipts for all licenses			149,210	45

The usual Tables and Appendices accompany this Report.

All of which is respectfully submitted,

S. A. ARMSTRONG,
Provincial Secretary.

APPENDIX A.

List of Companies incorporated for the year 1914, ending October 31st.

Name.	Address.	Capital.
А.		
Aurora Rink Company, Limited	Aurora	\$25,000
Algonquin Ranch Company, Limited		40,000
Automat Advertising Company of Canada, Limited, The		40,000
Aird Island Logging & Trading Company, Limited		10,000
Anchor Cap & Closure Corporation of Canada, Limited		50,000
Arthur Flour Mills, Limited, The		40,000
Allfeatures, Limited		40,000
Ante-Fired Clay Products Company, Limited, The		250,000
Antonio Silver Mines, Limited	Toronto	1,500,000
Appin Cemetery Company, Limited, The	Appin	3,000
Azoff Natural Gas Company, Limited, The	Canfield	40,000
Atikokan Development Company, Limited, The	Alwington	40,000
Adams Block, Limited	Lindsay	40,000
Armstrong & DeWitt, Limited		40,000
American Textile Machine Company, Limited		40,000
Adelaide Leaseholds, Limited		40,000
Advertiser Job Printing Company, Limited, The		150,000
Almas Confectionery Company, Limited, The		40,000
Anglo-Canadian Oils, Limited		100,000
Armstrong & Paffard, Limited	Toronto	100,000
Allan General Supplies, Limited		50,000
Austin Press, Limited		40,000
Attercliffe Standard Brick, Block and Tile Company, Limited	Attercliffe Sta	40,000
Anglo-Canadian Construction Company, Limited	North Bay	100,000
Anglo-Canadian Motor Sales Company, Limited	Toronto	50,000
Arrow Neckwear Company, Limited, The	Toronto	40,000
· · ·		
В.		
Breslau Wood Products Company, Limited		25,000
Blodgett Reinforced Safety Tube Company, Limited	Toronto	100,000
Brantford Heights, Limited	Hamilton	40,000 99,900
	Burlington	10,000
British Home Building Company (Toronto), Limited, The	Toronto	150,000
Brick & Dundas, Limited	London	40,000
Baker Construction Company, Limited	Toronto	\$40,000
Border Cities Realty Company, Limited	Windsor	50,000
Belleville Creamery, Limited	Bel!eville	30,000 200,000
Brantford Exterior Cleaning Company, Limited	Toronto	40,000
Boyd Pressed Brick Company of Milton, Limited		200,000
Beaver-Acetylene Company, Limited		40,000
Brockville, Country Club, Limited, The	Brockville	40,000
Barrie Club, Limited, The	B'arrie	40,000
Beam Bros. Manufacturing Company, Limited, The		40,000
Buff Pressed Brick Company of Hamilton, Limited, The Beeson Non-Skid Tire Band Company, Limited		40,000
Bertrand Lockhart Lumber Company, Limited	Port Arthur	40,000 75,000
Business Aids, Limited	Toronto	40,000
Brant Theatre Company, Limited, The		100,000
Burrows of Belleville, Limited	Belleville	50,000
Burk's, Limited	Toronto	40.000
Brantford Computing Scale Company, Limited, The	Brantford	150,00 <b>0</b>

Name.	Address.	Capital.
Barrie Masonic Temple Company, Limited	Barrie	40,000
Bartlett Vehicle Patents, Limited	Toronto	250,000
Berlin Floral Company, Limited, The	Berlin	40,000
Brampton Estates, Limited	Toronto	200,000
Brantford Piano Case Company	Brantford	100,000
Bath, W. T. Belleville Club, Limited, The	Midland Belleville	40,000 15,000
Benjamin Wheel Company, Limited	Yarker	150,000
Baldwin, Evans & Co., Limited	West Lorne	10,000
Beaver Bag Manufacturers, Limited	Toronto	40,000
Bowlby Sand, Lime, Brick Company, Limited	Milton	100,000
Bennett & Thwaites, Limited	Hamilton Brockville	75,000 10,000
Berlin Office & Fixture Company, Limited, The	Berlin	60,000
British Canadian Import Company, Limited	Toronto	1,000,000
Bobcaygeon Rural Telephone Company, Limited	Bobcaygeon	4,200
Burnaby Lumber Company, Limited	Toronto	40,000
Burgess, J. W., Limited	Bala Trenton	40,000
Blohm Company, Limited, C.A.  Blagdon, Limited	Toronto	50,000
Blachford Shoe Manufacturing Company, Limited	Toronto	50,000
British Canadian Film Company, Limited	Toronto	40,000
Broadway Social Club, Limited	Toronto	40,000
Baldwin Pianos, Limited	St. Thomas	40,000
Builders' Cement Tiles, Limited	Hamilton Kingston	40,000 50,000
Bassett Steamship Company, Limited	Toronto	100,000
Baker Laundry, Limited, The	Ottawa	80,000
B'est Weather Strip Company, Limited	Hamilton	40,000
Bassano Townsites Company, Limited	Toronto	100,000
Berlin Home Builders and Investments, Limited	Berlin Brantford	10,000
Brantford Bowling and Athletic Club, Limited	Lindsay	40,000
Bargnesi Company, Limited, The	Copper Cliff	40,000
Beachburg Milling Company, Limited, The	Pembroke	40,000
Beaver Wood Fibre Company, Limited, The	Thorold	1,000,000
Belmont Property Company of Ottawa, Limited, The	Ottawa Hamilton	20,000
Barton Sand and Gravel Company, Limited, The	Keuora	100,000 25,000
Dijou incario company, Dimiteu	110000101111111111111111111111111111111	25,000
C.		
Capital Lands Corporation, Limited	Toronto	40,000
City Garage Company of North Bay, Limited, The	North Bay	40,000
Century Pressed Brick & Tile Company, Limited	Georgetown Hamilton	250,000
Citizens' Fuel and Ice Company, Limited	Toronto	500,000
Canadian Bartlett Automobile Company, Limited	Toronto	
Cleary Mines, Limited	Toronto	
Champion Brick and Tile Company, Limited, The	Kingsville	75,000
Consumers' Tire and Rubber Company, Limited, The	St. Catharines.	800,000
Canadian Sales Agency, Limited	Hamilton	40,000
Canadian Elevator Equipment Company, Limited	Toronto	100,000
Credit Valley Stone Company, Limited, The	Toronto	250,000
Construction Supply Company, Limited	Toronto	60,000
Canadian Oak Leather Company, Limited, The	Brantford	100,000
Commercial Account Registers, Limited	Toronto Hamilton	100,000
Connolly-Agnew Contsruction Company, Limited, The	Toronto	100,000
Concrete Builders, Limited	Oshawa	

List of Companies incorporated for the year 1914, ending October 31st.—Continued.

Name.	Address.	Capital.
Casey Majestic Mines, Limited	Toronto	40,000
Canadian College of Mano-Therapy, Limited, The Canadian Kennedy Manufacturing and Engineering Company,	Hamilton	40,000
Limited	Niagara Falls Toronto	1,000,000
Canadian Copper and Armour Plate Company, Limited	Toronto	1,000,000
Cochrane Northland Post, Limited, The	Cochrane	10,000
Chapmans, Limited	Toronto	300,000
Canadian Auxiliary Syndicate, Limited	Toronto	40,000
Canadian Sewer Pipe and Clay Product Company, Limited. Clauss Shear Company, Limited, The	Hamilton	150,000 40,000
Custodis Canadian Chimney Company, Limited	Toronto	50,000
Canadian Maier Company, Limited	Toronto	25,000
City Homes, Limited	Toronto	40,000
Central Ice and Cold Storage Company, Limited	Windsor	500,000
Canadian Peat Company, Limited, The	Toronto	250,000
Consolidated Cafes, Limited	Toronto Ottawa	40,000 100,000
Canadian Union Metal, Limited	Galt	40,000
Carleton Dairy, Limited	Ottawa	100,000
Canadian Engineering and Contracting Company, Limited	Hamilton	100,000
Canadian Metal Products, Limited	Guelph	100,000
Canadian Casket Company, Limited	Wiarton	300,000
Canadian Home Construction Company, Limited	Orillia	
Canadian Live Stock News, Limited, The	Toronto	,
Cecil Investments, Limited	Ottawa	250,000
Canadian Fertilizer Company, Limited	Chatham	40,000
Chick Contracting Company, Limited	Windsor	100,000
Canadian Mersereau Company, Limited	Toronto	25,000
Cloverdale Creamery, Limited, The	Niagara Falls Hamilton	300,000 40,000
Crescent Dresses, Limited	Toronto	40,000
Canadian Turbine Company, Limited	Toronto	50,000
Cataract Junction Sand and Gravel Company, Limited, The.	Toronto	50,000
Connaught Northern Hotel, Limited	Toronto	50,000
Coal Trestle Company, Limited	Windsor Ottawa	40,000 300,000
Carleton Amusement Company	Ottawa	40,000
Canadian Fleischer Gas Company, Limited	Toronto	40,000
Canadian Expansion Bolt Co., Limited	Toronto	40,000
Crystal, H. S. & T. Company, Limited	Toronto	10,000
Canadian Menace Publishing Company, Limited	Aurora Toronto	40,000 3,000,000
Consolidated Assets Company, Limited	Toronto	500,000
Consumers Mail Order Company, Limited, The	Alliston	40,000
Canadian Zagelmeyer Company, Limited	Windsor	30,000
Conness-Till Film Company, Limited, The	Toronto	50,000
Criterion Manufacturing Company of Toronto, Limited, The. Canada Chain Company, Limited, The	Toronto	40,000
Canada Lock Company, Limited	Hamilton	40,000
Canada Cut Glass Company, Limited	Toronto	25,000
Capital Contractors, Limited	Ottawa	40,000
City Properties, Limited	Toronto	40,000
Carlton Hotel Company, Limited, The Crystal Beach Midway Restaurant, Limited	Ottawa	40,000
Canadian Sand and Gravel Company, Limited	Crystal Beach Thorold	40,000 100,000
Copper Cliff General Supply Company, Limited	Copper Cliff	25,000
Canadian Automatic Fire Alarm Company, Limited, The	Bracebridge	40,000
Cart Lake Cobalt Silver Mines, Limited	Toronto	2,000,000
Charles Mueller Company, Limited, The	Waterloo	250,000

Name.	Address.	Capital.
Canadian Dolarway Paving Company, Limited, The	Windsor	40,000
Canadian Picture Stamp Company, Limited, The	Ottawa	40,000
Canada Pole and Shaft Company, Limited, The	St. Catharines	400,000
Connaught Building Corporation, Limited	Mimico	40,000
Carleton Apartments, Limited, The	Hamilton	50,000
Campbell, T. J., Company, Limited	Midland	25,000
Canadian-Detroit Steel Products, Limited	Windsor	40,000
Canadian Sporting Life, Limited	Toronto	10,000
Canadian Novelty and Supply Company, Limited	Toronto Waterloo	40,000
Schipper, N. B., Company, Limited	Toronto	60,000 40,000
City Metal Products Company, Limited	Ford City	100,000
Canadian Storage Battery Company, Limited	Toronto	40,000
Coomac Oil Fields, Limited	Toronto	3,000,000
Chippewa Development Company, Limited	Chippewa	40,000
Crompton, E. B., & Company, Limited	Bracebridge	150,000
Caslake, J. A., Limited	Collingwood	40,000
Cobourg Felt Company, Limited, The	Cobourg	200,000
Clansman Mines, Limited	Toronto	1,500,000
Cemco, Limited	Toronto	40,000
Canadian Coil Company, Limited	Walkerville	40,000
Canadian Journal of Music, Limited	Toronto	50,000
Canada Yeast and Manufacturing Company, Limited	Toronto	100,000
Canadian Pure-o-phone Company, Limited	Toronto	100,000
Curtis Fire Systems, Limited	Berlin	250,000
Canadian Simplex Motors, Limited	Toronto	40,000
Canadian Jewish Publishing Company, Limited	Toronto	40,000
Canadian Shipbuilding and Dry Dock Company, Limited	Owen Sound	
Caldwell Feed and Cereal Company, Limited Caulfield, S., & Sons, Limited	Dundas	100,000
Comfort Horseshoe Company, Limited, The	Toronto	15,000
Clifton Sand and Gravel Corporation, Limited	Toronto	150,000
Canadian-American Graphite Company, Limited	Prescott	250,000
Campbell's Whitewear Company, Limited	Toronto	40,000
Central Casket Company, Limited	Welland	40,000
Copeland Medicine Company, Limited	Toronto	80,000
Canadian Credit Men's Association, Limited, The	Toronto	40,000
Creosoted Block Paving Company, Limited	Toronto	100,000
D.		
Dickson Building Company, Limited, The	Dundas	40,000
Dart Cycle Car Company, Limited, The	Toronto	100,000
Dominion Agency Corporation, Limited	Toronto	40,000
Dominion Milk Flour Company, Limited, The	Listowel	1
Dominion Suspender Company, Limited, The	Niagara Falls	500,000
DeMar Novelty Company, Limited	Fort Erie	10,000
Drayton Mills, Limited	Toronto	50,000
Dominion Mausoleum Company, Limited, The	Brantford	
Dunlop Coal Company, Limited	Toronto	,
Dominion Lock Company, Limited	Toronto	100,000
Darlow Detective Agency, Limited	Toronto	40,000
Dumarts, Limited	Toronto	40,000
Demees Electroplating and Manufacturing Company	Berlin	40,000 40,000
Driftwood Lands and Timber, Limited	Toronto	150,000
Dunning's, Limited	Toronto	100,000
Daly Tea Company, Limited, The	Napanee	300,000
Davies & Newton, Limited	Toronto	

Name.	Address.	Capital.
Dunlop and Company, Limited	Pembroke	300,000
Dominion Clay Products Company, Limited, The	Toronto	
Dyer, W. E., Company, Limited	Toronto	250,000
Dunn-Horton, Limited	Toronto	40,000
Dominion Motor Car Company, Limited	Berlin	40,000
Dominion Fur Farming Company, Limited, The	Ridgetown	100,000
Day Building Company, Limited, The	Sudbury	40,000
Dominion Linens, Limited	Guelph	300,000
Diver, The J. M. Sons & Company, Limited	Sarnia	
Dove-Smith Inventions Development Company, Limited	Niagara Falls	50,000
Dominion Cigar Company, Limited	Hamilton	40,000
Dale Wax Figure Company, Limited	Toronto	50,000
Direct Sales Company, Limited	Toronto	40,000
	Toronto	162,000
Dartmoor, Limited		
Dutton Fruit and Vogstable Crowers Limited Company	Toronto	40,000 40,000
Dutton Fruit and Vegetable Growers, Limited, Company	Waterloo	
Dominion Ironite Company, Limited	Toronto	40,000
Dominion Builders' Supplies, Limited	Toronto	40,000
E.		
East Hamilton Home Builders, Limited	Hamilton	100,000
Exeter Manufacturing Company, Limited, The	Exeter	20,000
Eureka Fence Brace Company Limited, The	Essex	20,000
Excelsior Plate Glass Company, Limited	Toronto	50,000
East Main Street Welland Syndicate, Limited	Toronto	40,000
Erie Construction Company, Limited	Toronto	40,000
Edmund Scheuer, Limited	Toronto	150,000
Equity Builders and Contractors, Limited	Toronto	40,000
Eureka Smoke Consumer Company of Canada, Limited	Toronto	10,000
East Welland Park Land Company, Limited, The	Toronto	40,000
Emmett Company, Limited, The	Toronto	40,000
Essa Fish, Fur and Sporting Company, Limited, The	Toronto	40,000
Electric Palaces, Limited	Hamilton	40,000
Eureka Rubber and Tire Company, Limited, The	Toronto	40,000
Elgin Farmers, Limited, The	St. Thomas	100,000
Eganville Enterprise Printing and Publishing Co., Limited	Eganville	10,000
Edgemount Realty Company, Limited	Toronto	40,000
Elora Furniture Company, The, Limited	Elora	40,000
Electric Bond and Share Company, Limited	Hamilton	100,000
Edward Irvine and Company, Limited	Toronto	10,000
Eastwood Land Company, Limited, The	Toronto	40,000
Elms Amusement Company, Limited	Crystal Beach	40,000
Excelsior Electric Manufacturing Company, Limited	Toronto	40,000
Empire Music and Travel Club, Limited	Toronto	25,000
Eastern Cities House Building Company, Limited	Toronto	100,000
Edmonton Stock Yards, Limited	Toronto	1,500,000
Essex Motorcycle and Machine Company, Limited	Essex	100,000
F.		
Fitzgerald and Company, Limited	Toronto	50,000
French River Lumber Company, Limited, The	Toronto	40,000
Fidelity Agency Corporation, Limited	Toronto	40.000
Fort William Baseball and Amusement Company, Limited	Fort William	10,000
Frank H. Harris Lumber Company, Limited	Toronto	40,000
Fox Chain Company, Limited	Hamilton	200,000
Fort William Printers, Limited	Fort William	40,000
Frontenac Mica Company, Limited	Sydenham	50,000
Farrell Engineering Company, Limited, The		40,000
rairen Engineering Company, Limiteu, The	TOTAL Day	20,000

Name.	Address.	Capital.
Fortier and Walker, Limited	Toronto	40.000
Fort William Opera Company, Limitetd	Fort William	40,000
Flax Towels, Limited	Gravenhurst	150,000 100,000
Fussel-McReynolds Company, Limited	Toronto	40,000
Fireco Range Company, The	Hespeler	50,000
Favary Tire Company, Limited	Toronto	500,000
Ford-Smith Machine Company, Limited, The	Hamilton	100,000
Fischhman Mattress Company, Limited	Toronto	40,000
Fitzpatrick & O'Connell, Limited	Toronto	40,000
Fearman, The F. W. Company, Limited	Hamilton	500,000
Fibre Boxes, Limited	Toronto	40,000
Fort Frances Athletic and Driving Association, Limited, The	Fort Frances	40,000
Fairbanks, H. C., Limited	Toronto	50,000
Fidelity Construction Company, Limited	Toronto	40,000
Fashion Shop, Limited, The	Toronto	40,000
Frank Wilson & Company, Limited	Midland	40,000
Fairgrieve Metal and Stamping Company, Limited	Toronto	75,000
Field Lumber Company, Limited, The	Field	50,000
Fibred-Asphalt Paving Company, Limited	Toronto	500,000
Finch Brothers, Limited	Hamilton	125,000
Feick Manufacturing Company, Limited, The	Berlin	40,000
Ford's, Limited	Toronto	40,000
Fleming Publishing Company, Limited	Owen Sound	40,000
Flexilac Paint Company, Limited	Toronto	50,000
G.		
General Exploration Company, Limited	Toronto	250,000
Givin, J. M., Limited	Toronto	50,000
Globe Casket Company, Limited	London	40,000
Galt Knife Company, Limited	Galt	50,000
Gould-Leslie, Limited	Brantford	40,000
Gardner Basket Company, Limited, The	St. Catharines	45,000
Great Northern Land Company, Limited (Amalgamation)	Toronto	600,000
Georgian Bay Summer Resort Company, Limited, The	Owen Sound	60,000
Graphic Advertisers, Limited	Toronto	40,000
Great West Securities, Limited	Toronto	40,000
Garment, The J. & G. Manufacturing Company, Limited	Toronto	40,000
Gay Company, Limited, The	Oshawa	40,000
Gibson and Company, Limited	Toronto	100,000
Green, H. C., Limited	Toronto	40,000
Glen Boyd, Limited	Toronto	230,000
General Builders and Investments, Limited	Fort William	250,000
Gowganda Power Company	Gowganda	100,000
Graham Hotel Company, The	Port Arthur	50,000
Great Manitou Park Company, Limited	North Bay	40,000
General Vending Machines, Limited	Windsor	25,000
George Taylor Hardware, Limited	New Liskeard .	250,000
Gerard Mines, Limited	Ottawa	1.000.000
Great Western Exploration Company, Limited	Toronto	100,000
Grimsby Specialty Company, Limited	Grimsby	50,000
General Adjustment Bureau of Canada, Limited, The Georgian Bay Navigation Company, Limited	Toronto	50,000
Grand Valley Commercial Temperance Hotel Company, Lim-	Owen Sound	40,000
ited, The	Grand Valley	10.000
Galt Wire and Ornamental Iron Company, Limited, The	Grand Valley Galt	10,000
Guilford, Limited	Toronto	40,000 160,000
Glen Lake Cobalt Mines, Limited	Toronto	
Greater Toronto Lands, Limited		100,000
Gas Accumulator Company (Canada), Limited		50,000
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Name.	Address.	Capital.
Glass Garden Builders, Limited	Toronto	50,000
Gardner Mercantile Company, Limited, The	Arnprior	35,000
Germerica Mining Company, Limited	Windsor	650,000
Gordon Agencies, Limited	Port Arthur	40,000
	,	
H,		
Haldimand Montana, Limited	Toronto	40,000
Hepworth Silica Pressed Brick Company, Limited, The	Hepworth	125,000
Happy Home Medicine Company, Limited	Toronto	40,000
Hamilton Molybdenum Alloys Company, Limited	Hamilton	500,000
Hill-Willcoc Patents Company, Limited	Windsor	40,000
Hubbs and Hubbs, Limited	Toronto	40,000
Heaton and Meir, Limited	Toronto	20,000
Hulbert, The L. R. Company, Limited	St. Catharines	40,000
Hunton-Kirkland Gold Mines, Limited	Haileybury	1,500,000
Hebrew Mutual Corporation, Limited	Toronto	30,000
Hardie Redmond Company, Limited	Toronto	40,000
Hamilton Co-operative Grocery Corporation, Limited	Hamilton	5,000
Huntsville Woollen Mills Company, Limited, The	Huntsville	40,000
Hamilton Sand and Gravel, Limited	Hamilton	80,000
Hamilton Baseball Club, Limited, The	Hamilton	40,000
Humphrey Bicycle and Motor Company, Limited	Toronto	100,000
Hope Manufacturing Company, Limited	Toronto	40,000
Harrison, J. A., Coal Company, Limited	Toronto	
Honeyford and Vernon, Limited	Collingwood	40,000
Huron Club, Limited, The	Collingwood	5,000
Health Milk, Limited	London	150,000
	Ottawa	40,000
Henry Morris, Limited	Toronto	40,000
Harrison, The T. F. Company, Limited	Kingston	50,000
Hamilton Gas and Oil, Limited	Hamilton	40,000
Hotel-and-Trade Laundries, Limited	Toronto	100,000
Hillcrest Park, Limited, The	Brockville	40,000
Hoover Electric Cleaning and Service Company, Limited, The	Toronto	40,000
Harvey National Supply and Manufacturing Company, Lim-	тогошто	40,000
ited, The	Toronto	50,000
Herkimer Apartments, Limited	Hamilton	150,000
Homewood Apartments, Limited	Toronto	40,000
Haynes Press, Limited, The	Toronto	40,000
Honsinger Cigar and Tobacco Company, Limited	St. Thomas	100,000
Hedley Shaw Milling Company, Limited	Toronto	1,000,000
Hotel Adelaide, Limited	Toronto	40,000
Huntsville and Lake of Bays Telephone Company, Limited,		.,
The	Dwight	4.000
Hydro Vacuum, Limited	Toronto	60,000
Henry Davis and Company, Limited	Toronto	40,000
Harris and Harris, Limited	Toronto	50,000
Hoshal, Limited	Toronto	40,000
Harold Hats, Limited	Toronto	40,000
Hammell, Ryan and Harris, Limited		40,000
	Hamilton	40,000
Hermann Johnston Motors, Limited	Toronto	500,000
	Toronto	10,000
	Toronto	100,000
Household Co-operative Stores, Limited	Toronto	400,000
Hibernian Hall Association, Limited, The	Toronto	40,000
Hepinstall, C. H. & Sons, Limited	St. Thomas	40,000
Tia. amana weatty Company, Elmitea	mamilton	100,000

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Name.	Address.	Capital.
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I.		
Inland Pulp & Paper Company, Limited	Thorold	200,000
International Capitalists, Limited	Toronto	500,000
Iberville Realty, Limited	Ottawa	100,000
Inland Construction Company, Limited, The	Toronto	200,000
Industrial Organizers, Limited	Toronto Sault Ste. Marie.	10,000
Independent Supply Company, Limited	Toronto	40,000
Ile Import Company, Limited, The	Toronto	40,000
Interstate Electric Novelty Co. of Canada, Limited International Safe & Register Company, Limited	Toronto Fort Erie	100,000
Industrial Co-operative Society of Hamilton, Limited, The	Hamilton	40,000
International Importers, Limited.  Isabella Mansions, Limited, The	Toronto	40,000 60,000
isabella diansions, Dimited, The	)	00,000
. J.		
John T. Hepburn, Limited	Toronto	200,000
John A. Marshall Brick Company, Limited, The	Mount Dennis	40,000
John M. Garland, Son & Company, Limited  John ver Mehr Engineering Company, Limited	Ottawa Toronto	500,000
Jeffery and Sons, Limited, F. W	Midland	50,000
John C. Gilchrist Lumber Company, Limited	Toronto	200,000
Jaspar Securities Company, Limited	Hamilton   Toronto	40,000
Johnson & Ross, Limited	Toronto	40,000
James Horrigan Company, Limited	Port Arthur	100,000
K.		
Kemptville Investors, Limited, The	Kemptville	24,000
Kawneer Manufacturing Company, Limited	Toronto	100,000
Keves Livery and Taxi Service, Limited	Galt	40,000
Kingsclere, Limited	Toronto	240,000
Kel-Kee Cyclecar Company, Limited	Toronto Kingston	40,000
Key Registry of Canada, Limited	Toronto	50,000 10,000
Knights of Columbus Club of London, Limited, The	London	20,000
Kingsville Hotel Company, Limited, The	Kingsville Teronto	10,000
Kortum Company, Limited	London	25,000
Kenora Super-Heater Stove Company, Limited	Kenora	50,000
Kress Shirt Company, Limited, The	Bridgeburg Toronto	100,000 50,000
, L.		00,000
Long, R. G. and Company, Limited	Toronto	150,000
Lang Bros. and Company, Limited	Toronto Berlin	150,000 100,000
Lakes Timber Company, Limited, The	Fort Frances	50,000
Lodar Non-Animal Casing Company, Limited, TheLally Gold Mines, Limited	Toronto	50,000 3,000,000
L'Union Nationale De Cochrane Compagnie, Limited	Cochrane	40,000
London Baseball Club, Limited, The Little River Brick and Tile Company, Limited	London	40,000
Lillico, R. J. and Company, Limited	Windsor Toronto	100,000 40,000
London Investments, Limited	London	50,000
Lyndhurst Rural Telephone Company, Limited, The Lake Shore Mines, Limited	Lyndhurst Haileybury	15,000 1,500,000
	rancjourj	2,000,000

Name.	Address.	Capital.
Company Timited The	Colt	40,000
Lion Silverware Company, Limited, The	Galt	, , , , , , , , , , , , , , , , , , , ,
Lake Shore Sand and Gravel Company, Limited, The	Toronto	40,000 127,000
Land Investments, Limited	Toronto	40,000
Luxfer Prism Company, Limited, The	Toronto	90,000
Laurabel Silver Mines, Limited	Toronto	1,000,000
London-Toronto and General Agency	Toronto	40,000
Lane Brothers	St. Catharines	100,000
Levy's	Hamilton	40,000
Lake of the Woods Boom Private Company, Limited	Kenora	
Lloyd-Thomas Company, Limited, The	Toronto	40,000
Lake of the Woods Rod & Gun Club, Limited, The	Kenora	
Lethbridge Brick Company, Limited, The	Steelton	00,000
Lorne Park Club, Limited	Toronto	40,000
Leasers, Limited	Niagara Falls	100,000
Laura Matilda Tea Rooms, Limited	Toronto	25,000
Lanspearys, Limited	Walkerville Hamilton	200,000
Leeks & Potts, Limited	Toronto	40,000
Lake of the Woods Golf Club, Limited	Keewatin	
Lake Nipissing Shipping & Transportation Co., Limited, The.	Toronto	40.000
Leslie, F. J., Limited	Niagara Falls	40,000
Lind Brokerage Company, Limited	Toronto	40,000
ma Diolotage Company, market Hiller Hiller		
M.		
McNaughton-McKay Electric Company, Limited	Windsor	40,000
Matthews & Son, Limited, C. B	Watford	40,000
Mechanics Building Company, Limited	Windsor	40,000
Marburg Brothers, Limited	Toronto	40,000
Mallagh Bookshop, Limited, The	London	40,000
Marten Lake Mining Company, Limited	Gowganda	2,000,000
McDonald, J. E., Limited	Toronto	40,000
Motor Agencies, Limited	Toronto	100,000
Motor Cars and Supply Company, Limited	Fort William	40,000 600,000
Mount McKay Products, Limited	Toronto	40,000
Milton Social Club, Limited, The	Milton	3,000
Muskoka Lakes Supply Company, Limited	Port Sandfield.	40,000
Martz, Limited	Hamilton	40,000
Main Realty Company, Limited	Hamilton	40,000
Minaker-Kirkland Gold Mines, Limited	Haileybury	1,500,000
McNeil Cemetery Company, Limited, The	Sonya	1,000
Marbles and Tiles, Limited	Toronto	32,000
Model City Realty Company, Limited, The	Toronto	50,000
Mar Novelty Company, Limited, The	Fort Erie	10,000
McGeough Manufacturing Company, Limited, The	Toronto	150,000
Metropolitan Construction Company, Limited	Toronto	100,000
Mornington and Wellesley Telephone Company, Limited, The.	Millbank	12,000
Moyer-Lovelace Company, Limited	St. Catharines	40,000
Mineral Springs Sand & Gravel Company, Limited, The		40,000
Morgan Hardware Company, Limited, The	Peterborough	40,000
	Toronto	$125,000 \\ 200,000$
McAinsh and Company, Limited	Toronto	50,000
Meadow Gold Butter Company, Limited	Toronto	40,000
	Toronto	750,000
Maul and Rigg, Limited	Windsor	10,000
Maple Leaf Lumber Company, Limited	Toronto	40,000
Munder Tungsten Lamp Company, Limited	Guelph	50,000
Malcolm Condensing Company, Limited	St. George	250,000
Multipress Company, Limited	Toronto	60,000

List of Companies incorporated for the year 1914, ending October 31st.—Continued.

Name.	Address.	Capital.
Mount Realty Company, Limited	Brantford	50,000
McKee's, Limited	Hamilton	40,000
McGiffin, W. R. and Company, Limited	Toronto	1,000,000
Merchants Syndicate Catalogue Company, Limited	Toronto	75,000
Mayflower Medicine Company, Limited, The	Windsor Thessalon	40,000
McDonald, Burns, Limited	Dresden	25,000
Milk Products Company of Canada, Limited, The	Toronto	200,000
Monarch Refillable Fuse Company, Limited	Hamilton	40,000
Moore Hardware Company, Limited	St. Catharines	50,000
Morpeth Park, Limited	Toronto	240,000
Minnewaska Sanitarium Company, Limited	Gravenhurst	100,000
Man Store, Limited, The	Sault Ste. Marie.	40,000
Mara, The Wm. Company, Limited	Toronto	100,000
Montgomery Crawford Mining Company, Limited	New Liskeard	400,000
McKinnon, Mather and Hyslop Company, Limited	Toronto	40,000
Muskoka Co-operative Society, Limited, The	Bracebridge	10,000
Mildmay Electric Light Company, Limited, The	Mildmay	10,000
Morris Land Company, Limited	Fort William	40,000
Maple Leaf Bedding Company, Limited, The	Galt	
Monarch Paper Company, Limited	Toronto	40,000
Morrisburg and Ottawa Construction Company, Limited Malt Products Company of Canada, Limited	Ottawa	40,000
Motor Repairs, Limited	Toronto	40,000
Melady and Company, Limited	Toronto	200,000
Melville-Davis Touring and Steamship Company, Limited	Toronto	40,000
McWilliam and Everist, Limited	Toronto	100,000
McNally, G. A., and Company, Limited	Sault Ste Marie	50,000
Midcity Securities, Limited	Hamilton	100,000
N.		[
Northern Ontario Trading and Ranching Company, Limited.	Toronto	500,000
Non-Nitro Explosives Company, Limited	Toronto	180,000
Niagara Investments, Limited	Toronto	100,000
Niagara Peninsula Land and Building Company, Limited	Toronto	
National Vending Machine Company, Limited, The	Toronto	100,000
New Ontario Pressed Brick Company, Limited	Sudbury	
Northern Canada Supply Company, Limited	Toronto	200,000 40,000
North Shore Investments, Limited	North Bay	
Northern Ontario Pulp and Development Company, Limited.	Toronto	
Nickel Masonic Temple, Limited	Sudbury	40,000
Northern Ontario Theatres, Limited	Cobalt	
North Woods Mines, Limited	Toronto	
National Electric Company, Limited		
Limited	Toronto	750,000
National Agricultural Association	Toronto	
Niagara Grain and Feed Company, Limited	Toronto	50,000
New City Estates, Limited	Toronto	
Nature's Creation Company of Canada, Limited	Toronto	, ,
Niagara Silk Company, Limited		
National Contracting Company, Limited	Toronto	40,000
North Toronto Freehold Estates, Limited	Toronto	105,000
Northern Trap Rock Company, Limited	Toronto	
Northern Development and Construction Company, Limited	. Toronto	50,000
Neal London Bread Co., Limited	London	40,000
New Extension Mines, Limited	Toronto	100,000

Name.	Address.	Capital.
Niagara Spanish Aerocar Company, Limited, The	Niagara Falls	110,000
National Copper Company, Limited	Toronto	1,000,000
Nuca Oil Company, Limited	Ottawa	750,000
Noble Air Pump Company, Limited	Toronto	25,000
Newaygo Company, Limited	Port Arthur	200,000
Northern Business College, Limited	Owen Sound	40,000
National Amusements, Limited	Ottawa	50,000
0.		
Oro Pytongian Mining Company Limited The	Hamilton	1,500,000
Ore Extension Mining Company, Limited, The	London	50,000
Ontario Furniture Company, Limited	Windsor	40,000
Ottawa Valley Trading Company, Limited	Ottawa	50,000
Ostrich Manufacturers, Limited	Toronto	40,000
Ontario Rand, Limited	Toronto	1,500,000
Orme, Limited	Ottawa	200,000
Ontario Tire and Rubber Company, Limited, The	Welland	750,000
Oliver Rogers Stone Company, Limited, The	Owen Sound	60,000
Ontario Highway Advertisers, Limited	Toronto	40,000
Ocean Securities, Limited, The	Toronto	40,000
Ontario Sand Company, Limited	Niagara Falls	45,000
Ontario Construction and Investments, Limited	Toronto	40,000
Ontario Liquor Importers, Limited	Toronto	40,000
Ottawa City Cartage Company, Limited	Ottawa	40,000
Ottawa Motor Transport, Limited, The	Ottawa	40,000
Ontario Northern Construction Company	Toronto	300,000
Ore Mountain Mines	Hamilton	1,000,000
Ontario Flexotile Products, Limited, The	Toronto	50,000
Ontario Storage and Cartage, Limited	Toronto	100,000
Oakville Basket and Veneer Company, Limited Oil and Gas Development Syndicate, Limited, The	Oakville Hamilton	40,000
Ontario Concrete Post Company, Limited, The	Brantford	40,000
Orpen Conduit Company, Limited, The	Toronto	40,000
Overland Sales Company, Limited, The	Toronto	15,000
Ontario Fertilizers, Limited	Toronto	100,000
Ottawa Hotel Company, Limited, The	Ottawa	40,000
Oddfellows' Temple of Sudbury, Limited	Sudbury	50,000
Old Country Furniture Stores, Limited	Toronto	40,000
Ottawa New Edinburgh Clubhouse Company, Limited, The	Ottawa	50,000
Orme Investments, Limited	Ottawa	100,000
P. s		
Port Arthur Hardware, Limited	Port Arthur	40,000
Parkhill Investors, Limited	Toronto	40,000
Peachland Co-operative Company, Limited, The	Louth	
Pneuma Tubes, Limited	Toronto	
Pollocks, Limited	Arnprior	20,000
Patrick Building, Limited	Toronto	200,000
Patterson Candy Company, Limited, The	Toronto	200,000
Palmer Building and Contracting Company, Limited, The	Toronto	100,000
Pickering, The I. G. Company, Limited	Toronto	40,000
Pioneer Securities Corporation of Canada, Limited	Toronto	40,000
Port Sydney Land and Mining Company, Limited	Toronto	100,000
Peninsular Security Company, Limited	Windsor	40,000
Porritt Garage Company, Limited	Kingston	25,000
Port Stanley Supply Company, Limited	Port Stanley	40,000
Port Stanley Manufacturing Company, Limited, The	Port Stanley	40,000
Pay Ore Mines, Limited	Wentworth	500,000
Tenetanguishene Daunen riouse Company, The	Penetanguishene	10,000

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Name.	Address.	Capital.
Porcupine Pet Gold Mine, Limited	ma	1
Porcupine Porphyry Hill Gold Mines, Limited	Toronto	1,000,000
Princess Hat Company, Limited	Toronto	1,000,000
Portal Land Company, Limited	Toronto	40,000
Pneumatic Wheel Company, Limited	Port Arthur	
Phenix Engraving, Limited	Toronto	
Port Colborne Tug Company, Limited, The	Toronto	40,000
People's 5 and 10 Cent Stores, Limited.	Port Colborne Toronto	40,000 150,000
Porcupine Vipond Mines, Limited	Toronto	1,500,000
Pleasant View Surveys, Limited	Hamilton	
People's Produce Company, Limited, The	Toronto	100,000
Port Dalhousie Co-operative Fruitgrowers' Association, Lim-	10101110	100,000
ited, The	Port Dalhousie	10,000
Port Colborne Dock and Coal Company, Limited	Toronto	50,000
Park Properties, Limited	Toronto	200,000
People's Dairy Co., Limited, The	Toronto	40,000
Prudential Land and Securities Company, Limited	Toronto	40,000
Patent Products, Limited	Toronto	40,000
Pollay Aeroplane Company, Limited, The	Toronto	60,000
Preston, F. C., Limited	Haileybury	40,000
Parry Sound Barrel and Manufacturing Company, Limited	Parry Sound	500,000
Port Dover Canning Company, Limited	Toronto	200,000
Port Colborne Development Company, Limited	Port Colborne	50,000
Peninsular Motor Sales Company, Limited	Petrolea	40,000
Penberthy Construction Company, Limited	Toronto	60,000
Peterborough Fuel and Transfer Company, Limited, The	Peterborough	40,000
Provincial Novelty Company, Limited, The	Toronto	40,000
Pembroke Curling Club, Limited.	Pembroke	
Parkhill Lumber and Manufacturing Company, Limited, The	Parkhill	30,000
Photoplays, I imited	Toronto	40,000
Peters, J. Henry Co., Limited	Toronto	
People's Restaurant Company of Ontario, Limited	Toronto	50,000
Q.		
Output City Date to the Control of t		200 000
	Toronto	200,000
R.	-	
Royal Motor Supply Company, Limited, The	Toronto	50,000
Russell Arena Company, Limited, The	Russell	10,000
Renirew Molybdenum Mines, Limited, The	Mt. St. Patrick	1,500,000
River Realty Company, Limited, The	Windsor	15,000
Regal Men's Wear, Limited	Toronto	40,000
Reliance Investments, Limited	Toronto	40,000
Robert Noble, Limited	Norval	100,000
Rockliffe Land and Building Company, Limited	Ottawa	30,000
Rogerson Coal Company, Limited, The	Toronto	40,000
Rothschild and Company, Limited	Sudbury	300,000
Royal Metals Separator Company, Limited	Kenora	100,000
Royal Hotel, Marmora, Limited	Marmora	20,000
Roberts Advertising Company, Limited	Toronto	500,000
Refractory Ore Converters, Limited	Hamilton	150,000
Revel Security Company, Limited	Sarnia	40,000
Rotary Amalgamators, Limited	Toronto	40,000
Russell Land Company, Limited	Toronto	250,000
Robertson and Sherris	Toronto	20,000
	Tillsonburg	40,000
Renfrew and Shamrock Telephone Association, Limited, The	Renfrew	2,000
Raphael's, Limited	Hamilton	40,000

Name.	Address.	Capital.
Rolando Fruit Company, Limited, The	Toronto	10.000
Robertson, J. S., Company, Limited, The	Toronto	40,000
Royal Laundry Company, Limited, The	Hamilton	
Robert Simpson Drug Company, Limited, The	Toronto	$\frac{40,000}{25,000}$
Rameses Temple Company, Limited	Toronto	100,000
Reliance Moulding Company, Limited	Kingston	100,000
Rocsand Company, Limited	Hamilton	100,000
Robinson Cabinet Manufacturing Company, Limited, The	Walkerville	40,000
Reid & Brown Structural Steel and Iron Works, Limited	Toronto	100,000
Rosedale Hotel, Limited	Toronto	50,000
Royal City Match Company, Limited, The	Guelph	100,000
Rubberset Company, Limited	Toronto	40,000
Robert Craig Company, Limited, The	Brockville	40,000
Ryan and Company, Limited	Toronto	50,000
S.		
Ginarian Galan Garanana Timitad	TD	=0.000
Simplex Sales Company, Limited	Toronto	50,000
Stewart, A. C., Limited	Leamington	40,000
Sudbury Furniture Company, Limited, The	Toronto	100,000
Solo Player Piano Company, Limited	Clinton	40,000
Stoddard's, Limited	Toronto	40,000
Stratford Country Club, Limited, The	Stratford	40,000
Security Realty Company, Limited	Toronto	150,000
Students' Amusement Club, Limited, The	Toronto	10,000
Sulphur Products, Limited	Toronto	150,000
Standard Cloak Company, Limited, The	Toronto	40,000
Scarborough Company of Canada, Limited, The	Hamilton	40,000
Schumacher Gold Mines, Limited	Toronto	2,000,000
Standard Grain and Hay Company, Limited, The	Sudbury	40,000
Scheifele & Fischer, Limited	Waterloo	40.000
Sterling Coffee Company, Limited, The	Toronto Sault Ste. Marie	40,000
Sorley, A. B., Limited	Toronto	40,000
Stoness Anglin Gilbert Mica Mining Company, Limited	Kingston	90,000
Sterling Supply Company, Limited	Ottawa	40,000
Standard Smelting and Refining Company, Limited	North Bay	150,000
Stratford Bed Company, Limited, The	Stratford	40,000
Sand Mixing Machine Company of Canada, Limited, The	Brantford	50.000
St. Clair Development Company, Limited, The	Toronto	40,000
Simpson Planing Mill Company, Limited, The	Toronto	40,000
Skootamatta Power and Development Company, Limited, The.	Hamilton	300,000
Sudbury Club, Limited	Sudbury Toronto	40,000
Skipper Bros., Limited	Toronto	40,000
Smythe, J. F., and Company, Limited	Windsor	100,000
St. Thomas Electrical Company, Limited, The	St. Thomas	40,000
Superior Amusements, Limited	Port Arthur	40,000
Standard Welding Company, Limited	Hamilton	3,000
Sherman Theatre & Building Company, Limited		40,000
St. Mary's Cement, Limited	Toronto	1,500.000
Seaman and Sons Company, Limited	Sauble Falls	70,000
St. Mary's Milling Company, Limited	St. Mary's	50,000
Sterling Lumber Company, Limited	Toronto	100.000
Solina Supply Company, Limited, The	Solina	10,000
St. Williams Fruit Preservers, Limited	St. Williams	40,000
Shea's Hippodrome Theatre, Limited	Toronto	750,000
S.D.S. Realty Company, Limited, The	Toronto	45,000
Sterling Gum Company of Canada, Limited, The	Toronto	10,000

Name.	Address.	Capital.
Sarnia Co-operative Society, Limited, The	Sarnia	10,000
Smith, The A. L. Company, Limited	Port Arthur	40,000
Stratford Bowling Greens, Limited	Stratford	40,000
Strand Hotel, Limited, The	Toronto	100,000
Schipper, N.B., Company, Limited	Toronto	40,000
Sambro Manufacturing Company, Limited	Toronto	5,000
Standard Cleaning Products, Limited	Hamilton	100,000
St. Andrew's Realty Company, Limited	Toronto	5,000
Shropshire Estates, Limited	Toronto	250,000
Smith and Chapple, Limited	Chapleau	125,000
Smith, G. T., Limited	Toronto	40,000
Stratford Davenport Company, Limited	Stratford	25,000
Standard Automobile Supply Company, Limited, The Stewarttown Quarries, Limited, The	Toronto	40,000 80,000
Sterling Construction Company, Limited	Milton	40,000
Simcoe Portrait Company, Limited	Toronto	40,000
South American Products, Limited	Hamilton	40,000
St. Vincent Investments, Limited	Toronto	100,000
South Kensington Land Company, Limited	Toronto	200,000
Shannon, The Wm., Co., Limited	Toronto	40,000
St. David's Sand Company, Limited	St. Catharines	50,000
Swift Current Investments, Limited	Toronto	50,000
Sarnia Metal Products Company, Limited, The	Sarnia	100,000
Signry, Limited, The	London	10,000
Standard Radiating Company, Limited, The	Toronto	80,000
St. Clair Conservation Company, Limited, The	Sarnia	300,000
St. Catharines Silk Mills, Limited	St. Catharines	100,000
Sudbury Drug Company, Limited, The	Sudbury	40,000
Star Whitewear, Limited	Berlin	150,000
St. Clement's School, Eglinton, Limited	Toronto	10,000 40,000
T	10101110	40,000
m		
Trent Valley Canners, Limited	Trenton	1,000,000
Toronto Auto Repair and Garage Company, Limited, The	Toronto	40,000
Tomack's, Limited	Toronto	40,000
Thomson Realty Company, Limited, A. C	London Toronto	40,000
Tom, The W. A., Construction Company, Limited	Collingwood	45,000
Troostwyk, Birkin and Greenfield, Limited	Port Arthur	30,000
Todhunters, Limited	Toronto	1,000,000
Taylor Portable Steel Derrick, Limited	Toronto	40,000
Trenton Cooperage Mills, Limited	Trenton	100,000
Thedford Celery and Fruit Company, Limited, The	Thedford	40,000
Tanner Drug Company, Limited	Lakefield	40,000
Theta Delta Chi House Corporation of Toronto, Ltd	Toronto	40 000
Toronto Automat Advertisers, Limited, The	Toronto	10,000
Toronto Sand and Gravel Company, Limited	Toronto	50,000
Tierney Construction Company, Limited, The	Ottawa	100.000
Temiskaming Development Company, The	Hamilton	40,000
Toronto and Hamilton Electric Company, Limited, The	Hamilton	
Taylor Wine and Spirit Company, Limited	Hamilton	40,000
Toronto European Agencies, Limited, The	Toronto	
Terrace Lawn Cemetery Company, Limited, The	North Bay	,
Twin Cities Transportation and Amusement Co., Limited	Fort William	40,000
Thomas Reinforced Concrete Company, Limited	Walkerville	
Toronto Pharmacal Company, Limited, The	Toronto	100,000
Tristate Oil and Gas Company, Limited, The	Toronto	
Toronto Automobile Trade Association, Limited, The	Toronto	10,000
Tanner & Gates, Limited	Toronto	100,000
	Toronto	
Templeton's Rheumatic Capsule Corporation, Limited	Toronto	100,000

Uxbridge Piano Company, Limited, The	,000
United Motion Picture Theatres, Limited	,000 ,000 ,000
Uranisphere Company, Limited, The Brantford 100, Unique Shoe Company, Limited, The Toronto 40, Uxbridge Piano Company, Limited, The Uxbridge 40, United Farmers' Co-operative Company, Limited, The Peterborough 10, Union Social Club, Limited Toronto 10, United Motors, Limited Toronto 50, Uffelmann Brothers, Limited Waterloo 40,	,000 ,000 ,000
Uranisphere Company, Limited, The Brantford 100, Unique Shoe Company, Limited, The Toronto 40, Uxbridge Piano Company, Limited, The Uxbridge 40, United Farmers' Co-operative Company, Limited, The Peterborough 10, Union Social Club, Limited Toronto 10, United Motors, Limited Toronto 50, Uffelmann Brothers, Limited Waterloo 40,	,000 ,000 ,000
Unique Shoe Company, Limited, The	,000 ,000 ,000
Uxbridge Piano Company, Limited, The	,000
United Farmers' Co-operative Company, Limited, The Peterborough 10, Union Social Club, Limited Toronto 10, United Motors, Limited Toronto 50, Uffelmann Brothers, Limited Waterloo 40,	,000
United Motors, Limited	,000
Uffelmann Brothers, Limited Waterloo 40,	
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Union Cement Company, Limited, The Owen Sound 200,	,000
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V.	t
Vineland Growers' Co-operative, Limited Vineland Station 10,	,000
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Vacuum Gas and Oil Company, Limited	,000
Victor Amusement Company, Limited London 40	,000
	,000
Valley Improvement Company, Limited Toronto 220	,000
w.	,
White Falls Lumber Company, Limited	0,000
Windsor Properties, Limited	,000
The state of the s	,000
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Willys-Overland of Canada, Limited, The	,000
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William English Canoe Company, Limited, The Peterborough 40	,000
Whitton Company, Limited, The Bracebridge 30	,000
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TYY11	0,000, 0,000,
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William Markus, Limited Pembroke 40	,000
Watson Cycle-Car Company, Limited Toronto 100	0,000
Wentworth Motors, Limited Hamilton 40	0,000
William Beatty Lands and Timber, Limited Parry Sound 100	0,000
Weatherhead Paper Company Limited The	4 4 14 17 1
Weatherhead Paper Company, Limited, The	),000 ),000

Name.	Address.	Capital.
Weston Masonic Temple, Limited	Weston	40,000
Wallaceburg Lumber Company, Limited	Wallaceburg	40,000
Wallers, Limited	Toronto	40,000
White Reserve Mining Company, Limited, The	Toronto	200,000
William Mitchell Company, Limited, The	Kincardine	25,000
West Lorne Motors, Limited	West Lorne	50,000
Western Ontario Natural Gas Company, Limited	Brantford	1,000,000
West End Pharmacy, Limited	Ottawa	20,000
Willowdale Land Company, Limited	Toronto	100,000
Wilson Building Company, Limited	Hamilton	40,000
Weston Real Estate Corporation, Limited	Toronto	1,250,000
Windsor Lawn Bowling Club, Limited	Windsor	40,000
Windsor Abbatoir, Limited	Windsor	40,000
Woodbridge Saddlery Supply Company, Limited	Toronto	40,000
Washington Burial Company, Limited, The	Toronto	40,000
Waterdown Stock Farm, Limited	Hamilton	40,000
War Novelty Company, Limited	Toronto	40,000
Walker, R. E., and Company, Limited	Fort William	150,000
Warwick Wheel Company of Canada, Limited	London	100,000
Welland Co-operative Society, Limited	Welland	10,000
Waterloo County Grand River Park, Limited	Berlin	50,000
Western Foundation Company of Canada, Limited	Toronto	200,000
Westmount Park, Limited	Berlin	100,000
West Lake Brick and Products Company, Limited	Wellington	250,000
Windsor Factories and Real Estate Company, Limited	Toronto	500,000
Y.		
Ve Craftsman's Shanna Limited	TD.	
Ye Craftsman's Shoppe, Limited	Toronto	50,000
York Amusement Company, Limited	Toronto	40,000
Young's Lunch, Limited	Toronto	100,000
York Specialty Company, Limited	Toronto	40,000

List of Corporations licensed to do business in Ontario.

Name of Corporation.	Where incorporated.	Attorney.
A.		
Addressograph Company Abitibi Power & Paper Co., Limited Alexander Hamilton Institute American Oil Processes, Limited Andrew Wilson & Company, Limited American Wood Working Machinery Co. Aultman & Taylor Machinery Co., The Algoma Timber and Lumber Company Anglo-French Exploration Co., Ltd., The American LaFrance Fire Engine Co. of Canada, Limited Atlantic Terra Cotta Company	Dominion New Jersey Dominion Dominion Pennsylvania Ohio Michigan Gr. Britain & Ireland. Dominion	G. M. Clark. Wm. Garlock the Ygr. Joseph Cushman. William Eberts Brown. John Burr Tyrrell. Alfred Bicknell.
В.		
Burnside Gold Mines, Limited British and Colonial Press, Limited Barnett-McQueen Co., Limited, The Bigney, S. O., Company Baker, Smith and Company	Dominion	Otto F. Strange. John Alex. MacIntosh.
C.		
Confederation Construction Co., Limited. Cobourg Dyeing Company, Limited, The.	Dominion	Michael John O'Brien. Cornelius Arthur Mas- ten.
Carter's Tested Seeds, Incorporated Consolidated Stone Company, The Canadian Film Company, Limited Cole Buckhorn Machine Company Canned Foods, Limited Cott-a-Lap Company, Limited Canadian Northern Town Properties Co	Indiana Alberta Delaware Dominion Dominion	John H. Melady. A. W. Steward. Philip Kauffman. W. R. Percival Parker. George Chas. Loveys.
Limited Chappell, Allen & Co., Limited Cedars Rapids Transmission Co., Ltd Canadian Aviation Company, Limited Cedars Rapids Manufacturing & Power	Dominion Gr. Britain & Ireland. Dominion Dominion	Seeley Benedict Brush. Leighton McCarthy. Wm. Archibald Dean.
Company, Limited, The	Dominion	
The Canadian Laco-Philips Co., Limited Clark, W., Limited Cobalt Porcupine Syndicate, Limited Cleveland Storage Company, The Callophone, Limited	Manitoba Dominion Dominion Dominion Ohio British Columbia	Clarence C. Bothwell. R. S. McIndoe. William J. Kidd. William J. Taylor.
Canadian General Fire Extinguisher Co. Limited Canada Furniture Manufacturers, Ltd Canadian Universal Film Co., Limited Certone Company	Dominion  Dominion  Dominion	James S. Lovell. Gilbert A. Webster.
Canadian Griscom-Russell Co., Limited Crystal Oil Co. of Calgary, Limited Calgary-Alberta Oils, Limited Canadian Mexican Estates, Limited Canadian Carbonate Company, Limited	Alberta	Grant Cooper. Samuel A. McAllister. James Steller Lovell.

List of Corporations licensed to do business in Ontario.—Continued.

Name of Corporation.	Where incorporated.	Attorney.
D.		
Drummond, McCall & Company, Limited Denis Advertising Signs, Limited Dominion Manufacturers, Limited De Laval Manufacturing Co., Ltd., The. Dupont Fabrikoid Company Dominion Wire Rope Co., Limited, The.	Dominion Dominion Quebec Delaware	D. A. Reidy. Fred W. Coles. William R. Breyfogle. W. A. Cotton.
Dominion Estate & Mining Investment, Limited	Dominion  Dominion  Michigan	James Hyland.  Jas. Arthur Seybold.  Alex. Robert Bartlet.
Domestic Vacuum Cleaner Company  Detroit Fuse & Manufacturing Company.		tafson.
E.		
Empire Coal Company, Limited Eastern Terminal Elevator Co., Limited. Eagle & Globe Steel Co., Limited, The	Manitoba	F. Hettle Young. Robert Vivian Clar
Exolon Company, The  Empire Ring Manufacturing Company, Incorporated		Holton Richard Mor
F.		
Fur Farmers' Bureau and Exchange, Limited, The	Dominion  Dominion  Prince Edward Island.  Dominion	Thomas Sidney Kirby.  Louis Meunier.  Frank Denton.  Sidney Chilton Mew-
Foley Brothers	Minnesota	burn. John H. Moss. Wm. Symon Morlock.
G.		
Grolier Society of London, The	Ohio Dominion Dominion	William J. Gawne. Wm. John McWhinney. Charles Garber.
н.		
Hanson-Bellows Company	Wisconsin	Chas. Franz, the Ygr.
I.		۳.
Interprovincial Brick Co. of Canada, Limited	Dominion	Alex. Murray Gordon.

List of Corporations licensed to do business in Ontario.—Continued.

Name of Corporation.	Where incorporated.	Attorney.
Ј.		
James Elgar Johnson, B. J. Soap Company, Limited. John H. Parker, Canadian, Limited. Jacob and Joseph Kohn, Incorporated	Dominion	George M. Clark. J. M. Adam.
K.		
Kalmus, Comstock & Wescott, Inc	Massachusetts Michigan Gr. Britain & Ireland.	John Alex, Macintosh
L.		
Lanston Monotype Machine Company	Virginia	Harry F. McMahon.
M.		
Mining Corporation of Canada, Ltd., The Mark, F. W. Construction Company, In-		
corporated Maple Leaf Gum Company Marine Welding Company	Delaware	William Batten Mc-
McDonald Hydro-Electro Heating Company, Limited	Dominion	Pherson.  Harold F. Meech.
N.		
National Electric Heating Co., Ltd., The Northern Electric Company, Limited National Tube Company, Limited Nash Canadian Syndicate, Limited Nesbitt, Thomson & Company, Limited North American Reference Book Co., Inc.	Dominion Dominion Gr. Britain & Ireland. Dominion	Frederick M. Davis. Harry Rooke. Charles Herbert Nash.
0.		
Ogden Electric Manufacturing Company, Limited, The Oil Processes, Limited Ohio Brass Company, The	Dominion	Edward Sevhold
P.		
Porcupine Central Development Syndicate, Limited, The	Gr. Britain & Ireland.	Nelson William Gil-
Pulp Wood Company Pierson U Bar Company Port Arthur Construction Company, Limited	New York	Peter Lyndon Fraser.
Port Arthur (Ontario) Buildings, Limited, The	-	Wm Fitzgarald Lang.
, R.		
Reckitts (Over Sea) Limited	Gr. Britain & Ireland. Dominion	Whitefield Aston. James Steller Lovell.

List of Corporations licensed to do business in Ontario.—Continued.

Name of Corporation.	Where incorporated.	Attorney.
Russell Jennings Manufacturing Company, Limited Ryan-Agency, Limited Roger Miller and Company, (P.E.I.) Limited Rauch and Lang Carriage Company, The Richey, Browne and Donald, Incor Riker-Hegeman Drug Stores, Limited. S.	Dominion Manitoba  Dominion  Ohio New York	George S. Sherritt.  Roger Miller. The Imperial Trusts Co. of Canada. W. R. Percival Parker
Steffens and Noelle Aktien-Gesellschaft. Sasgen Derrick Company. St. Thomas Bronze Company, Limited. Steel Equipment Company, Limited, The Sterling Coal Company, Limited. St. Clair Beach, Limited Stephens Engineering Company, The South America Cabinet Woods, Limited	Illinois Dominion Dominion Dominion Dominion Illinois	Mathias T. Sasgen. James Boyd Potts, John H. Reeves. Albert R. Gibson. Sydney Cecil Robinson. James R. Roaf. John Hugh Francis
Stromberg-Carlson Telephone Manufactur- ing Company		Blue. Nathan W. Baldwin.
T.		
Thompson, W. J. Company, Incor Thomas Firth and Sons, Limited Toronto-Hamilton Home Builders, Ltd. Triefus, S. and E., and Stripp, Limited Toronto and Canadian Building, Company, Limited	Gr. Britain & Ireland. Gr. Britain & Ireland. Gr. Britain & Ireland. Gr. Britain & Ireland.	Alfred Bicknell. Joseph J. Hoidge. Ernest Stripp. Thomas Howell
Teck-Lebel (Kirkland) Syndicate, Ltd	Gr. Britain & Ireland.	Hamilton Cassels.
υ.		
United States Playing Card Co., The. United Cigar Stores, Limited	New Jersey Dominion	W. R. P. Parker. George Chas. Loveys.
V.		
Van Buren Excavator Company, Limited. The	Dominion	Gwyn Llewellyn Fran- cis.
Valve, D.G.C. Company of Canada, Ltd.	Dominion	
w.	1	
Walsh, E. H. and Company, Limited Winnipeg International Securities Corporation, Limited William Cowlin and Son, (Canada) Ltd William Bradley and Son, Canadian, Ltd. Wolthausen Hat Corporation, Ltd., The Wisconsin Bridge and Iron Company Welch Co., Limited. The Wilt Twist Drill Company of Canada. Limited.	Manitoba Gr. Britain & Ireland. Dominion Dominion Wisconsin Dominion	William C. Graham. Sydney Victor Kendall. George Charles Loveys. Frederick Wolthausen. George Charles Loveys. G. F. Peterson. Abraham Darst Wilt.
Welch Co., Limited. The	Dominion	G. F. Peterson. Abraham Darst Wil

List of Corporations to whom supplementary licenses were issued.

Name of Corporation.	Date.
Α.	
American Cyanamid Company (authorizing it to use capital in Ontario to the extent of \$2,000,000)	Jan. 14, 1914.
B. Borden Milk Company, Limited (authorizing it to use capital in Ontario to the extent of \$1,000,000)	Mar. 17, 1914. April 22, 1914.
C. Crown Cork & Seal Company, of Baltimore City, The (authorizing it to use within the Province of Ontario all powers, privileges and rights set forth in License and Supplementary License)	Nov. 7, 1913.  Jan. 19, 1914.
F. Farewell Estates, Limited, The (License in Mortmain)	Mar. 20, 1914.
Huyler's (authorizing the corporation to use in Ontario capital to the extent of \$40,000)	July 9, 1914.
L.  Linde British Refrigeration Company, Limited, The (authorizing into use, exercise and enjoy all powers and privileges granted to the Linde Canadian Refrigeration Company, Limited)	
N.  North British Rubber Company, Limited, The (authorizing it to use in Ontario capital to the extent of \$100,000)  National Cash Register Company (authorizing it to use capital in Ontario to the extent of \$600,000)  Niagara & Erie Land Corporation, Limited, The (License in Mortmain)	June 18, 1914.  July 20, 1914.
P. Pilkington Brothers (Limited) (extending their powers)	-
Spalding, A. G. and Brothers (authorizing the company to use in On tario capital to the extent of \$140,000)	
W. Wolseley Tool & Motor Car Company, Limited, The (authorizing the company to use capital in Ontario to the extent of \$250,000) Wolseley Motors, Limited (authorizing exercise of powers given to the corporation under the original name of The Wolseley Tool and Motor Car Company, Limited)	. April 27, 1914. e

List of Companies whose Capital was Increased.

Name of Company.	From	То	Date
Α.			
Arcade, Limited, The	150,000	250,0000	December 27, 1913.
The	20,000 40,000		January 14, 1914. May 14, 1914.
Limited	100,000 2,000,000		May 29, 1914. June 20, 1914.
В,			
Buntin, Gillies & Company, Limited Bell Fruit Farms, Limited Boase, Limited	75,000 150,000 60,000		December 5, 1913. July 6, 1914. July 7, 1914.
C.		- i	
Canadian General Securities Company, Ltd Caulfield, Burns and Gibson, Limited Canadian Dredging Company, Limited Chapman and Walker, Limited Columbus Cobalt Silver Company, Ltd., The Crown Realty, Limited Cook-Fitzgerald Company, Limited, The	200,000 50,000 750,000 50,000 600,000 40,000 50,000	125,000 1,000,000 150,000 800,000 100,000 250,000	November 3, 1913. December 31 1,913. January 24, 1914. February 7, 1914. February 14, 1914. March 12, 1914. March 14, 1914.
Cox & Cummings, Limited	40,000		April 14, 1914. May 14, 1914.
Dome Extension Mines Company, Ltd., The  Dome Lake Mining & Milling Company, Ltd.,  Dominion Stamping Company, Ltd., The  Ditchburn Pleasure Boats, Limited  Dominion Mausoleum Company, Ltd., The		1,000,000 500,000 100,000	February 4, 1914. February 11, 1914. February 12, 1914. May 20, 1914. September 12, 1914.
E.			
Electro Metals, Limited	300,000	1,000,000	April 21, 1914.
F.			
Flexible Conduit Company, Limited, The	50,000	100,000	April 14, 1914.
G.			
Gunn, Langlois & Company, Limited	100,000 750,000 50,000 100,000	1,000,000 2,000,000 75,000 135,000 200,000	November 21, 1913. January 2, 1914. February 3, 1914. February 18, 1914. April 28, 1914.
Berlin, Limited	10,000	100,000	June 16, 1914.  June 12, 1914.  September 21, 1914.

List of Companies whose Capital was Increased.—Continued.

Name of Company.	From	То	Date
H.			
Hamilton Dairy Company, Limited	40,000 75,000 100,000 40,000	150,000 195,000	February 13, 1914. April 11, 1914. May 19, 1914. September 29, 1914.
I,			
International Specialty Manufacturing Company, Limited, The	20,000 100,000 250,000	250,000	January 24, 1914. July 25, 1914. August 14, 1914.
L.			
La Mine D'Or Huronia, Limited Lautz-Dunham Company, Limited, The Lake Superior Dry-dock and Construction Com-	1,000,000 40,000		November 5, 1913. February 21, 1914.
pany, Limited, The  Lorne Power Company, Limited, The  Laberge Lumber Company, Limited, The	1,500,000 300,000 100,000	1,000,000	April 27, 1914. July 2, 1914. July 6, 1914.
M.			
Murray Shoe Company, Limited, The  Mueller, H., Mfg. Company, Limited  McKittrick Properties, Limited  Moose Mountain, Limited	50,000 300,000 1,000,000 2,500,000	500,000 3,000,000	November 11, 1913. February 12, 1914. March 4, 1914. July 11, 1914.
N.	, , ,		,
Noble Manufacturing Company, Limited, The	100,000	150,000	November 29, 1913.
o.			
Old Orchard Land Company, Limited Oshawa Golf Club, Limited, The	50,000 10,000		February 6, 1914. April 1, 1914.
Р.		f	
Petrolia Wagon Company, Limited Price, S., and Sons, Limited Prices, Limited Porcupine Krist-Thompson Mines, Limited	100,000 100,000 100,000 1,500,000	200,000	November 13, 1913. December 16, 1913. February 12, 1914. June 23, 1914.
R.			
Russell Rural Telephone Company, Limited Renfrew Machinery Company Limited, The Riley-Ramsey Company, Limited, The	9,000 250,000 40,000	1,000,000	July 2, 1914. August 11, 1914. September 1, 1914.
S.			
Sarnia Bridge Company, Limited Sarjeant Company, Limited, The Staunton's, Limited Stroud Telephone Company, Limited, The Steel Trough and Machine Company, Ltd., The Stormont Electric Light and Power Company,	50,000 50,000 200,000 4,000 25,000	200,000 p 500,000 p 15,000 p	December 10, 1913. December 24, 1913. March 3, 1914. March 2, 1914. March 31, 1914.
South Bruce Rural Telephone Company, Ltd.,	50,000	200,000 ј	Tuly 20, 1914.
The	10,000	50,000	October 9, 1914.

List of Companies whose Capital was Increased.—Continued.

Name of Company.	From.	То	Date
	FIOIII	10	Date
T.			
Tillsonburg Electric Car Company, Ltd., The.	40,000	100,000	March 10, 1914.
U.			
Upper Spanish Improvement Company, Ltd.,			
The	20,000	120,000	March 5, 1914.
The			May 7, 1914.
United Fuel Supply Company, Limited United Gas and Fuel Company, of Hamilton,	1,350,000	2,700,000	June 18, 1914.
Limited	500,000	1,000,000	October 9, 1914.
V.			
Volcanic Oil and Gas Company, Limited, The.	1,500,000	3,000,000	May 4, 1914.
W.			
·			
Woodbine Hotel Company, Limited, The Wentworth Mineral Water Company, Ltd., The	100,000 $7,500$		December 19, 1913.
Windsor Truck & Storage Company, Ltd., The	40,000		January 6, 1914. January 16, 1914.
Wallaceburg Brass & Iron Manufacturing Com-	- 0,000	100,000	Junuary 10, 1011.
pany, Limited. The	40,000		February 5, 1914.
Wells and Gray, Limited	40,000	100,000	April 4, 1914.
The	40,000	100 000	April 6, 1914.
Winnett & Wellinger, Limited	40,000		June 11, 1914.
Y.			
1,			
York-Ontario Silver Mines, Limited	1,000,000	1,500,000	June 16, 1914.

#### List of Corporations whose Names were Changed.

From.	То.	Date
<u></u> В.		
poration, Limited	Upper Canada Securities Corporation, Limited	Nov. 27, 1913. Dec. 18, 1913. May 1, 1914.
C.		
Cockburn & Rea, Limited Chapleau Cottage Hospital	Cockburn & Bundy, Limited Lady Minto Hospital at Chapleau,	
Crottie's, Limited	The	March 10, 1914. July 18, 1914.
Limited, The D.	Wells Bros. Co., of Canada, Ltd	April 30, 1914.
· ·	Davidson Bowles, Limited	Dec. 29, 1913
Dominion Gasoline Engine Company, Limited	Dominion Gas Tractor Company, Limited	
Ditchburn, The H., Boat Manufacturing Company, Limited	Ditchburn Pleasure Boats, Ltd	May 20, 1914.
Œ,		
Essenkay Sales Company of Toronto, Limited The	Tire Import Company, Ltd., The .	Oct. 31, 1914.
F.		
Fradette, Thomson & McKay, Ltd. Ford City Metal Products Com-	Harware Company of Toronto, Ltd. Richard Marshall Co., Ltd	July 7, 1914.
	Ontario Pressed Steel Co., Ltd	Sept. 18, 1914.
G.		
Grand Union Hotel Company of Toronto, Limited Galt Brass Manufacturing Com-	Carls-Rite Hotel Company, Ltd	Sept. 12, 1914.
pany, Limited, The	Galt Brass Company, Limited	Sept. 21, 1914.
H. Hamilton Advertising Agency, Ltd.	Hamilton Advertisers' Agency, Limited	Ech 9 1014
Hayes Development Company Ltd.,	Brechen Ridge Realty Company. Limited, The	
Harley-Kay Knitting Machine Com-	Harley-Kay, Limited	
J.		
Jasper Land Company, Ltd., The.	Hay, Limited	Feb. 2, 1914.

List of Corporations whose Names are Changed .- Continued.

	m.	Dete
From.	То.	Date
K.		
Kilmer, Pullen & Burnham, Ltd	Kir-Ben, Limited	Nov. 10, 1913. Nov. 13, 1913.
Keystone Underwriting & Broker- age Company, Limited, The Kerr Addison Mines, Limited	Tudhope-Aletter, Limited Associated Goldfields Mining Company, Limited	
М.		
Macfarland, G. W., Co., Ltd Mendelssohn Choir of Toronto, The Montgomery & Company, Limited	Moore-Telford, Limited	Feb. 21, 1914. March, 18, 1914. April 22, 1914.
Moore, A. E., Floral Co., Ltd	Georgetown Floral Company, Ltd	July 7, 1914.
. О.		
Ontario Pipe Line Co., Ltd., The	United Gas & Fuel Company of Hamilton, Limited	Nov 27 1913
Ottawa Motor Transport, Ltd., The Olympia Club	Ottawa Motor Transport, Limited. The Iron Duke	April 27, 1914.
P.		•
Parisian Laundry Company of Hamilton, Limited, The	Dairy & Poultry Foods, Limited Parisian Sanitary Laundry of Hamilton, Limited Porcupine Krist-Thompson Mines, Limited	March 24, 1914.
Rutherford, Marshall, Limited	A. H. Read, Limited	June 6, 1914.
S.		
Securities Sales Company, Limited Shuttleworth-Carew, Limited	Security Sales Company, Ltd Shuttleworth, J. R., & Sons, Ltd	April 27, 1914. July 7, 1914.
v.	v	
Vipond Porcupine Mines, Ltd., The W.	Ward Porcupine Mines Company, Limited	April 23, 1914.
Wells Adjustable Chaplet Company Limited	Western Dairy, Limited	Dec. 2, 1913. Dec. 15, 1913. Jan. 27, 1914.
Winn Company, Limited	Perth Shoe Company, Limited, Raper, Washington & Fleury Burial Company, Limited	April 17, 1914.

# List of Corporations whose Powers were Extended.

Name.	Date.
A. Algoma Steam Laundry Company, Limited, The (extending its powers and re-dividing its capital)	Dec. 14, 1913.
В.	
Brown, The J. F., Company, Limited (extending its powers)  Big Point Company Club, The (extending its powers)	
C.	
Canadian Rumely Company, Limited, The (authorizing meetings out of Province)  Chapman & Walker, Limited (authorizing casting vote at meetings of directors)  Columbus Cobalt Silver Company, Limited, The (making the Company subject to the provisions of Part XI of the Act)	Feb. 7, 1914.
Canadian Estates Company, Limited (authorizing meetings out of the Province).  Canadian General Securities Company, Limited (re-dividing its capital stock).	April 3, 1914. July 17, 1914.
Consumers' Gas Company of Toronto (re-dividing its capital stock, providing for remuneration to directors)	Aug. 28, 1914. Oct. 17, 1914.
D.	
Drug Trading Company, Limited (amending Supplementary Letters Patent).  Dominion Lines, Limited (converting common into preference shares) Dominion Mausoleum Company, Limited, The (changing the Head Office of the Company and authorizing meetings of the directors in the City of Brantford.	May 30, 1914. Aug. 20, 1914. Sept. 12, 1914.
F.	
Foley-O'Brien, Limited (authorizing meetings within and without the Province)	May 4, 1914.
u.	
Guardian Realty Company of Canada, Limited (confirming by-laws of the Company and extending powers)  Georgina Houses (changing name of company and extending powers). Gunn's, Limited (re-dividing its capital stock)  German Printing and Publishing Company of Berlin, Limited (re-dividing its capital stock)  Gilson Manufacturing Company, Limited (authorizing commission on	Nov. 8, 1913.  Nov. 26, 1913.  Feb. 9, 1914.  May 7, 1914.  June 16, 1914.  June 12, 1914.
H.	
Householders Co-operative Stores, Limited (re-dividing its capital stock)	Oct. 15, 1914.

# List of Corporations whose Powers were Extended.—Continued.

Name.	Date.
I.	
International Capitalists, Limited (extending its powers) International Specialty Manufacturing Company, Limited, The (creating preference shares, and authorizing payment of commission on	
sale of shares)	Dec. 18, 1913.
К.	
Kent, Garvin & Company, Limited (deleting special provisions of Letters Patent)	Aug. 26, 1914.
Lake Simcoe Ice Supply and Cold Storage Company, Limited, The (varying by-laws of the Company, creating preference shares, and authorizing payment of commission on sale of shares)	Dec. 18, 1913. Feb. 21, 1914.
M.	
McKittrick Properties, Limited (re-dividing capital stock)	March 6, 1914. April 16, 1914. June 12, 1914.
N.	,
North Shore Investments, Limited (amending Letters Patent)	March 6, 1914.
0.	
Oshawa Golf Club, Limited, The (amending its Letters Patent and re-dividing its capital stock)	April 1, 1914.
P.	
Petrolia Wagon Company, Limited (re-dividing its capital stock and authorizing commission not exceeding 10% on sale of shares) Price, S., & Sons, Limited (repealing and rescinding by-laws in re	Nov. 13, 1913.
gard to preference shares)  Porcupine Krist-Thompson Mines, Limited (re-dividing its capital stock)	Dec. 16, 1913.
S.	June 20, 1314.
Simcoe Club, Limited, The (amending its Supplementary Letters	
Patent)	Jan. 13, 1914. March 3, 1914.
shares) Stormont Electric Light & Power Company, Limited, The (converting common into preference shares and authorizing meetings out of Ontario)	

List of Corporations whose Powers were Extended.—Continued.

Name.	Date.
Sturgeon River Improvement Company, Limited, The (extending the period of its existence)	Aug. 13, 1914. Oct. 9, 1914.
T,	
Tillsonburg Electric Car Company, Limited, The (authorizing payment of commission)	Mar. 10, 1914.
zing company to hold meetings out of Ontario)	July 16, 1914.
U.	
Upper Spanish Improvement Company, Limited, The (authorizing works and approving of the construction thereof, as set forth in a report filed with the Petition for Supplementary Letters Patent)	
· W.	1
Woodbine Hotel Company, Limited, The (authorizing allotment of new shares)	Dec. 19, 1913.
Z.	
Zorra Telephone Company, Limited, The (authorizing it to mortgage its assets and to issue bonds)	June 11, 1914.

## List of Corporations without Share Capital.

	1
Name of Corporation.	Place.
Α.	
Art Gallery of Hamilton  Albert Residence for Men  Aberdeen Plummer Centre Line Telephone Association, The  American Aid Society of Canada	Hamilton. Windsor. Plummer. Toronto.
В.	
Balmy Beach Gun Club, The British Empire Club of Guelph, The Board of Trade of the Village of Tweed Bow-Wow Minstrel and Social Club Belleville Golf Club, The Bureau of Municipal Research Balmy Beach College Balmoral Athletic Club Brant Patriotic and War Relief Association	Toronto. Guelph. Tweed. Toronto. Belleville. Toronto. Toronto. Toronto. Brantford.
C.	
Chapleau Cottage Hospital Canadian National Trotting and Pacing Harness Horse Association, The Corinthian Club, The Canadian Oral Prophylatic Association, The City Social Club, The Classic Athletic Club, The Club Frontenac, Ottawa	Chapleau. Toronto. Toronto. Toronto. Brantford. Toronto. Ottawa.
D.	
Dominion Club, The	Ottawa. Drayton.
E.	· 7/4
Eatonia Club, The	Toronto. St. Thomas. Toronto.
F.	
First Narajow Charitable Society	Toronto. Toronto. Toronto.
G.	
Garden Hill Co-operative Fruit Growers' Association, The	Bowmanville. Garden Hill.
H.	
Hamilton Football Grounds Association, The Hazelwood Hunt Club, The	Hamilton. Toronto.
J.	
Jewish Ladies' Charitable Association	Toronto.

## List of Corporations without Share Capital.—Continued.

	/
Name of Corporation.	Place.
Kimberley Poultry Association, The Kehillas Jacob Congregation	Kimberley. Toronto.
L.  Lutheran Club, The	Merlin.
Master Brewers Association of Canada Municipal Improvement Association of Toronto, The Mimico Board of Trade Midland General and Marine Hospital	Toronto. Toronto. Mimico. Midland.
Nanking Club	Toronto.
Ontario Agricultural College Students Co-operative Association Ontario Motor League, Incorporated Olympia Club Oddfellows' Temple Club, The Orient Social Club Olympic Club, The Ontario Tobacco Growers' Co-operative Association, The Ossington Athletic Club  P.	Guelph. Toronto. Hamilton. Toronto. Eastview. Guelph. Kingsville.
Plummer, Aberdeen and Galbraith Rural Telephone Association, The. Polish Falcons Gymnastic Association of Canada	Havilah. Hamilton.
Riverdale Settlement Roncesvalles Bowling and Athletic Club, The Riverdale Business Men's Association Rose Mutual Telephone Club S.	Toronto. Toronto. Toronto. Rydal Bank.
Sunderland Athletic Association, The Shuniah Club, The Saint Charles Social Club St. Augustine's Seminary of Toronto	Toronto.  Port Arthur. Eastview. Toronto.
T. Toronto Press Club, The Toronto Skating Club Toronto Chauffeurs' Protective Association, The Tomchei Shabot Congregation Toronto Mining Exchange, The Trustees of Willowdale Park Cemetery	Toronto. Toronto. Toronto. Toronto. Toronto. Toronto.
Western Social Club of Ottawa Waverley Club, The Wentworth Athletic Club Women's Canadian Club of Hamilton, The Workers' Educational Society of Fort William, The	Ottawa. Toronto. Hamilton. Hamilton. Fort William.

#### List of Corporations whose Capital has been Decreased.

Name of Company.	From.	То	Date
Industrial Buildings, Limited			June 12, 1914. Oct. 20, 1914.

### List of Corporations whose Charters were Surrendered.

Name of Corporation.	Date
Α.	
Algoma Iron Works, Limited Algoma Steel Company, Limited, The Algoma Commercial Company, Limited, The. Amherstburg Electric Light, Heat and Power Company, Limited, The. Applegath, Limited Aberdeen Brick Works, Limited Armour, Limited	Nov. 13, 1913. Nov. 13, 1913. Nov. 13, 1913. Nov. 24, 1913. Feb. 4, 1914. May 11, 1914. June 15, 1914.
В.	
Booth Copper Company of Toronto, Limited, The	Feb. 4, 1914. June 17, 1914.
C.	
Conger Coal Company of Toronto, Limited, The Canadian Locomotive Company, Limited Capital Brewing Company, Limited, The Carp Milling Company, Limited Canadian Moloney Electric Company, Limited Cavendish Lumber Company, Limited, The Cobalt Townsite Mining Company, Limited	Nov. 17, 1913. Feb. 17, 1914. Apr. 3, 1914. Apr. 3, 1914. Apr. 24, 1914. Sept. 2, 1914. Oct. 17, 1914.
·D.	
Dominion Reduction Company, Limited	Jan. 3, 1914.
E.	
Echlin, H. W., Limited Empire Salt Company, Limited, The	Jan. 24, 1914. May 11, 1914.
Н.	
Hamilton Wine and Spirits Vaults, Limited	Aug. 26, 1914.
I,	, e
Ivor Match Machine Company, Limited	May 16, 1914.
K.	
Kingsville Electric Light Company, Limited	Nov. 24, 1913.
L.	
Leamington Light and Heat Company, Limited, The	Nov. 24, 1913.

## List of Corporations whose Charters were Surrendered.—Continued.

Name of Corporation.	Date
M.	
Moore and Browne, Limited	July 4, 1914. Aug. 1, 1914.
N.	
Napance Rink, Limited	Dec. 3, 1913.
0.	
Otisse Mining Company, Limited, The	Apr. 11, 1914.
P.	
Paper Bottle and Package Company, Limited	Jan. 30, 1914. Feb. 12, 1914.
S.	
Sault Ste. Marie Pulp and Paper Company, Limited, The Swansea Smelting and Refining Company, Limited Saunders and Evans, Limited Standard Wire Fence Company of Woodstock, Limited Saint Thomas Brass Company, Limited, The Stewart Company, Limited, The Sunderland Electric Power Company, Limited, The	Dec. 10, 1913. Jan. 30, 1914. Mar. 16, 1914. Mar. 17, 1914. Mar. 31, 1914.
T.	
Toronto Indestructible Brick Company, Limited Tudhope-Knox Company, Limited Toronto Automobile Trade Association Townsite Extension Mines, Limited	Dec. 10, 1913. Feb. 12, 1914. June 22, 1914. Oct. 17, 1914.
U.	
United Motors	Jan. 26, 1914.
W.	
Willowdale Rural Telephone Company, Limited	Feb. 5, 1914.

#### Proclamations Gazetted.

#### 1914.

- Re Act re approaches and avenues in Queen's Park, Toronto, Nov. 1, 8, 1913.
  Re An Act to create the Territorial and Provisional Judicial District of Temiskaming, Dec. 27, 1913, Jan. 3, 10, 1914.
- Re Blind River Town, re Old Wooden Bridge, Feb. 7, 14, 21st, 1914.
- Re Canada Temperance Act, re County of Huron, Nov. 22, 29, Dec. 6, 1913.
- Re Canada Temperance Act, re County of Peel, Nov. 22, 29, Dec. 6, 1913.
  Re Canada Temperance Act, re the County of Welland, Nov. 22, 29, Dec. 6, 1913.
- Re Canada Temperance Act, re the District of Muskoka, May 30, June 6, 13, 1914.
- Re His Honour John Strathearn Hendrie, to be Lieutenant-Governor for Ontario, Oct. 3, 10, 17, 1914. Re Ingersoll, Town in County of Oxford, August 8, 15, 22, 1914.
- Re Legislative Assembly of Ontario to Convene 18th day of February, January 31, February 7, 14, 1914.
- Re Murder of Lorne Campbell Moss on 1st May, 1913, at Dunnville, Nov. 8, 15, 22, 1913.
- Re Provincial Election for Ontario, June 29th, 1914, May 30, June 6, 13, 1914.
- Re Revised Statutes of Ontario, Feb. 14, 21, 28, 1914.
- Re Thanksgiving Day, October 12th, 1914, Sept. 19, 26, Oct. 3, 1914. Re Voters' Lists for Ontario, May 16, 23, 30, 1914. Re Workmen's Compensation Act, Sept. 26, Oct. 3, Oct. 10, 1914.

#### APPENDIX A.

Supplementary List of Companies incorporated for the year 1913, ending October 31st.

•		
Name.	Address.	Capital
Α.		
Auto-Transportation, Limited	Toronto	150,000
В.		200,000
Barton Hotel Company, Limited, The	Mary T	40,000
Blair Bros., Limited		100,000
С.		
Centre Gry Realty Company, Limited, The Cornhill, Limited Canada Bonded Attorney and Legal Directory, Limited	Toronto	40,000 110,000 50,000
G.		
Geo. H. Gillespie and Company, Limited	Madoc	150,000
н.		
Hartley Bay Fishing & Hunting Club, Limited	Sudbury	10,000
I.		
International Drug Company, Limited, The	Port Arthur	40,000
Ј.		
Jackson Manufacturing Company, Limited, The Jamaica Food Products, Limited John A. Hertel Company (Private Company), Limited, The John Heard & Co., Limited Jones, Girouord & Co., Limited	Toronto  Toronto St. Thomas	50,000 40,000 75,000
К.		
Kirkland Lake Development Company, Limited (No Pers	Toronto	40,000
L.		
Lake Superior Dry-Dock and Construction Co., Limited, The Lawrence Park, Hamilton, Limited	Sault Ste. Marie Hamilton	1,500,000 40,000
М.		et a
Murray Sign Company, Limited	Toronto Tp. Toronto	100,000 75,000
N.		
Northern Building-Material and Iron Company, Limited Nash Realty Company, Limited, The	Sault Ste. Marie St. Catharines.	50,000 100,000
P.		
Purifico Company of Canada, Limited, The	Bridgeburg	40,000

Supplementary List of Companies Incorporated for the year 1913, ending October 31st.—Continued.

Name.	Address.	Capital.
R.		
Ramsden Sand, Gravel and Brick Company, Limited, The	Toronto	100,000
S.		
Standard Drug, Limited	London Fort Erie	25,000 40,000
T.		
Temiskaming Automobile & Supplies, Limited	Cobalt	40,000
W.		
Weseloh, Goudie, Limited	Berlin	200,000

APPENDIX B.

Supplementary List of Corporations Licensed to do Business in Ontario.

Name of Corporation.	Where Incorporated	Attorney.
A.	1	
Armour Grain Company	New Jersey	Mahlon Kitchen Cowan.
L.		
Larned, Carter and Company Lewis, W. D., Company	Michigan New Jersey	Richard V. LeSueur. James R. Roaf.
M.		
McCutcheon Bros., Limited	Dominion	Gordon D. McCutcheon
O		
Ontario Steel Products Company, Ltd	Dominion	Walter T. Sampson.
R.	,	-
Ross Realty Company, Limited, The Raymond Construction Company, Ltd	Dominion	Philip D. Ross. H. C. Wotherspoon.
v.		
Vermont Marble Company	Vermont	Thomas M. Howard.

APPENDIX C.

Supplementary List of Companies Whose Capital was Increased.

Name of Company.	From	То	Date
Α,			
American Laundry Machinery Co., Ltd., The	40,000	<b>150,</b> 000	October 11, 1913.
В.		i	4000
Boake Manufacturing Company Limited, The.	60,000	300,000	October 22, 1913.
M.		•	
Monarch Construction and Realty Co., Ltd	<b>40,</b> 000	150,000	March 1, 1913.
R.		4	
Renfrew White Granite Company, Ltd., The.:	180,000	250,000	October 30, 1913.

APPENDIX D.

Supplementary List of Corporations whose Names were Changed.

From	То	Date
C.		
Commercial Land Co., Ltd., The M.	Commercial Realty Investments, Limited	
Methodist Union, The		
National Boxes, Limited, The O.	National Paper Goods Company, Limited, The	
	Valley Creamery of Ottawa, Ltd	Oct. 29, 1913.
S. Shuttleworth, J. R., & Sons, Ltd	Shuttleworth-Carew, Limited	Oct. 30, 1913.
<b>w.</b> ,		
Weber's, Limited	Moore, B. W., Company, Ltd	Sept. 13, 1913.

# Supplementary List of Corporations Whose Powers were Extended.

Name of Company.	Date.
B	
Boake Manufacturing Company, Limited, The (extending their powers)	Oct. 22, 1913.
F.	
Frontenac Floor and Wall Tile Company, Limited (providing for dividends on preference shares)	Oct. 31, 1913.
N.	
National Gas Company, Limited (authorizing exercise of municipal franchise)	Oct. 31, 1913.
P.	
Preston Car & Coach Company, Limited, The (converting common into preference shares and authorizing commission not over 5% on sale of preference shares)	July 10, 1913.
U.	
United Gas Companies, Limited, The (amending Supplementary Letters Patent)	Oct. 31, 1913.
Supplementary List of Corporations Without Share Ca	upital.
Name.	Place.
В.	
Bar Point Masonic Club	Amherstburg.
н.	
Hungarian Club, The	Crowland.
w.	
Women's College Hospital and Dispensary	Toronto.

# REPORT

RELATING TO THE REGISTRATION OF

# Births, Marriages and Deaths

IN THE

# PROVINCE OF ONTARIO

FOR THE

Year Ending 31st December,

1914

(Being the 45th Annual Report)

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF [ONTARIO



TORONTO:

Printed and Published by L. K. CAMERON, Printer to the King's Most Excellent Majesty
1915

SIR:-

I have the honour to submit for your approval the Forty-Fifth 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, 1914.

I have the honour to be, Sir,

Your obedient servant,

Johnes motbullough

Deputy Registrar-General.

To Hon. W. J. Hanna,

Registrar-General of Ontario.

# REPORT UPON

# Births, Marriages and Deaths

# FOR THE YEAR 1914

This is the Forty-fifth Annual Report of vital statistics for the Province of Ontario, for the year ending December 31st, 1914. It shows an increase in the number of births registered during the year and a decrease in the number of marriages and deaths.

The following table shows the total registrations and makes a comparison between the number of registrations for 1913 and 1914:

_	1914	Ratio:	1913	Ratio.
The whole Province	B. 66,225	24.0	64,516	24.0
	M. 24,245	8.8	26,998	10.0
	D. 32,440	11.8	34,317	12.7
The whole Province	B. 28,009	27.9	26,914	28.1
	M. 12,537	12.5	14,089	14.7
	D. 12,853	12.8	13,887	14.4
Town Municipalities	B. 4,611	28.7	4,077	26.4
	M. 1,821	11.3	1,943	7.0
	D. 2,481	15.4	2,485	16.1
Province, excluding Cities and Towns	B. 33,605 M. 9,887 D. 17,106	$ \begin{array}{c c} 21.1 \\ 6.2 \\ 10.7 \end{array} $	33,585 10,966 17,943	26.4 7.0 11.4

#### POPULATION.

The estimated population of Ontario for 1914 was 2,749,840. Of this, the cities contain 1,002,320, or 36.3 per cent. of the total. The towns of over 5,000 population have 160,495 or 5.8 per cent., while rural Ontario contributes 57.8 per cent. of the whole.

It will be noted that the rates per 1,000 of population are considerably higher in the city and town municipalities than in the rural municipalities.

For the sake of comparison with other years the following table showing the total Births and Deaths in Ontario, excluding still-births, for each of eighteen years, and the ratio per 1,000 of population is appended.

		10		
	Births.	Ratio.	Deaths.	Ratio.
1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910	46,868 46,067 44,286 45,549 45,281 46,973 47,709 49,158 50,808 50,621 52,289 54,878 53,448 54,755	20.7 20.4 19.4 19.8 21.1 21.7 22.1 22.8 23.5 23.3 24.1 25.6 24.3 24.9	26,508 25,409 27,747 28,543 28,500 26,713 28,399 29,600 29,748 31,244 31,756 30,947 30,792 31,332	11.7 11.1 12.4 12.2 13.0 12.1 12.9 13.4 13.4 14.1 14.3 13.8 13.7
1911	56,096 58,870 64,516	22.6 22.4 24.0	31,878 32,150 34,317	12.6 12.4 12.7
1914	66,225	24.0	32,440	11.8

#### BIRTHS.

The births registered during the year were 66,225, a ratio of 24.0 per 1,000 of population. This is the same rate as for 1913.

The cities contributed 42.6 per cent. of all births. The towns of over 5,000 population, 6.9 per cent., and rural Ontario, 50.7 per cent.

#### ILLEGITIMATE BIRTHS.

The total number of illegitimate births registered was 1,469, an increase of 75 over the preceding year. Of every 1,000 births which occur in Ontario, 22.3 are illegitimate. As usual, the cities contributed the larger number, 1,074, or over 73.1 of the whole, being at the rate of 38.4 per 1,000 births. The towns gave 73 or 4.9 per cent. of the whole, being at the rate of 15.8 per 1,000 births. Rural Ontario gave 322 or 21.9 per cent. of the whole, being at the rate of 9.5 per 1,000 births.

#### MULTIPLE BIRTHS.

There were 759 pairs of twins born; 805 of these children being males and 713 females. Of these the cities contributed 310 and the towns 52 pairs of twins. Seven sets of triplets were registered; 9 boys and 12 girls. One case occurred in Saulte Ste. Marie; one in Toronto and one in Niagara Falls. One case each occurred in the Counties of Kent, Lincoln, Renfrew and Timiskaming District.

Of all births registered, 34,031 were males and 32,194 females; or 1,050 boys to 1,000 girls.

#### MARRIAGES.

The number of marriages registered during the year 1914, was 24,245, or 8.8 per 1,000 of population. This number is 2,753 less than that of the preceding year, or 1.2 less per 1,000 of population.

The largest ratio is shown in Welland and Essex Counties where the Cities of Niagara Falls and Windsor respectively, are situated. In spite of the amendment in The Act respecting the Solemnization of Marriages, a considerable number of parties continue to come from the United States to be married in Canada. The Department is very particular in examining all affidavits received in registered licenses and there does not seem to be any direct evidence that the law is being evaded. It must be admitted, however, that a suspicion is prevalent in the Department that there is an indirect evasion in the City of Niagara Falls. In Windsor, however, the law is complied with in all respects.

The following table will show how this amendment to The Marriage Act has affected the ratio of marriages in the cities just referred to during the year 1912, prior to the amendment, in 1913, when the amendment was adopted (May, 1913) and in 1914 when it was in force during the entire year.

	1912 Marriages	Ratio per 1,000		Ratio per 1,000	1914 Marriages	Ratio per 1,000
Niagara Falls	839	86.7	492	40.9	291	24.9
	3,429	176.2	1,423	65.8	622	27.6

The ratio of marriages per 1,000 of population in these cities is still twice as high as the average 12.5, for the city municipalities.

The following table shows the marriages by denominations and the number of men and women claiming adherence to the denominations.

#### MARRIAGE BY DENOMINATIONS.

Denomination.	Bridegrooms.	Brides.	Total.
Anglican Presbyterian Methodist Roman Catholic Baptist Congregationalist Lutheran Evangelical Association Hebrew Salvation Army Other denominations Not stated	5,453 5,050 6,159 3,836 1,382 227 690 109 352 98 838 48	5,461 5,118 6,092 3,973 1,431 232 682 110 345 98 666	10,914 10,168 12,251 7,809 2,813 459 1,372 219 697 196 1,504 85

The following table shows the total persons who married at different ages.

MARRIAGE BY AGES.

Ages.	Bridegrooms.	Brides.	Total.
15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70 and over Age not stated	443 8,634 7,878 3,513 1,609 807 495 344 198 143 87 66 28	4,607 10,134 5,304 2,045 943 504 302 160 80 58 33 18	5,050 18,768 13,182 5,558 2,552 1,311 797 504 278 201 120 84 85

The following table shows by percentage how members of any one denomination intermarried, in other words, the balance, shown in the second column will be the mixed marriages.

#### INTER-MARRIAGES AND MIXED MARRIAGES.

	% who Inter-married.	% who contracted mixed marriages.
Hebrew	97.55	2.45
Roman Catholic	87.96	12.04
Salvation Army	81.63	18.37
utheran	69.37	30.63
lethodist	65.85	34.15
inglican	64.22	35.78
vangelical Association	63.01	36.99
resbyterian	60.86	39.14
aptist	50.88	49.12
Congregationalist	41.39	58.61

#### CONJUGAL RELATIONS

The following tables show the conjugal relations of the contracting parties:

PROVINCE	Bachelors	Widowers	Divorced Men	Total Brides
Spinsters	21,468 651 31	1,294 730 10	37 10 14	22, <b>7</b> 99 1,391 55
Total Bridegrooms	22,150	2,034	61	24,245

CITIES	Bachelors	Widowers	Divorced Men	Total Brides
Spinsters	11,032 409 32	636 364 9	34 7 14	11,702 780 55
Total Bridegrooms	11,473	1,009	55	12,537

Towns	Bachelors	Widowers	Divorced Men	Total Brides
Spinsters	1,594 49 2	103 69 1	3	1,700 118 3
Total Bridegrooms	1,645	173	3	1,821

#### DEATHS.

The total number of deaths registered in the Province for 1914 was 32,440, being a ratio of 11.8 per 1,000 of population. This is a decrease of 1,877 deaths and a decrease of .9 in the ratio.

The ten most active causes, excluding congenital debility and old age, were:

		Per cent. of total deaths.
0 1 77 1 70	0.0=0	
Organic Heart Diseases		9.1
Tuberculosis	2,340	7.2
Pneumonia	2,009	6.1
Cancer J	1,914	5.9
Apoplexy	1,306	4.0
Infantile Diarrhoea	1,215	3.6
Diseases of the Arteries	1,093	3.3
Bright's Disease	1,022	3.1
Paralysis	558	1.7
Infantile Convulsions	497	1.5

When one is making a comparison of death rates in any rural municipality it should be borne in mind that each county municipality includes any city, town or towns which may be in that county, and to obtain the county rate only, this must be considered, e.g., York County, including Toronto, shows 6,537 deaths with a rate of 11.8 per 1,000; the same county, excluding Toronto, has a ratio of 12.1 per 1,000. Carleton County, including Ottawa, has a death rate of 11.8 per 1,000 of population; excluding Ottawa, the rate is 17.3.

The death rate from organic diseases of the heart is higher than in the preceding year (2,829). The same is true of cancer (1,806).

#### TUBERCULOSIS.

Tuberculosis continues to occupy a most prominent place as a cause of death. The number of deaths due to this cause in 1914 was 2,340, being 46 more than for 1913. While there was a slight increase in the number over that of the preceding year, the ratio per 100,000 of population has remained unchanged, being 85.

The following table is of interest in comparing population and deaths from tuberculosis:

	Deaths.	%	Population.	%	Ratio per 100,000 population.
Total	2,340	100	2,749,840	100	85
City Municipalities Town Municipalities Rural Municipalities	873 173 1,294	37.30 7.40 55.30	1,002,320 160,495 1,587,025	36.40 5.84 57.76	87 107 81

Following will be found tables showing deaths from tuberculosis over a period of 10 years:

DEATHS IN ONTARIO FROM TUBERCULOSIS BY AGES, 1905-1914.

Year.	Total.	sio per 100,000	0-1	ndei	2	year 3	4	5-9	10-14	15–19	20-29	30–39	40-49	50–59	69-09	62-02	80 & over.	Not'stated.	Total deaths from all causes.
	25,527	Rati	700	413	219	137	143	444	602	1,989	6,954	4,965	3,166	2,164	1,507	684	132	308	316,604
1905	2,667	$\frac{-}{116}$		55	31	21	18	47	85	266	813	509	341	212	144	79	16	30	29,748
1906	2,911			72	23	14	14	38	74	234	724	604	367	228	169	66	19	14	31,244
1907	2,530		74	41	27	20		44	62	206	745	499	311	227	173		9	13	
1908	2,511	110	68	46	20	13	13	43	67	216	764	479	315		136		14	30	30,947
1909	2,380		47	27	25	9	15	54	54	179	687	487	290	222	163		15	40	30,792
1910		102	38	35		15		36	55	184	652	463	293	222	160		18	24	
1911	2,353		63	30		10		48	64	181	618	476	325	218	156		12	34	
1912	2,250	87	53	30	19	9	15	46	42	154	631	500	304	200	134			42	
1913	2,294	85	53	36	20	10		32	41	188	632	479	313	204	156		10	47	34,317 -
1914	2,340	85	54	41	20	16	11	56	58	181	688	469	307	214	116	63	12	34	32,440

## DEATHS FROM TUBERCULOSIS IN THE PROVINCE BY CLASSES

		1	-	-				-	-					•					
									Aga	29								Sax	
		0-1	<b></b>	G₹	3	च	5-9	10-14	15-19	50-59	80-89	40-49	50-59	69-09	20-79	80 and over	Not	Male	Female
Total	2,340	54	41	20	16	11	56	58	181	688	469	307	214	116	63	12	34	1.168	1,172
Tuberculosis of the lungs. Acute Miliary Tuberculosis Tuberculous Meningitis Abdominal Tuberculosis. Pott's Disease. White Swelling Tuberculosis of other organs Disseminated Tuberculosis.	149 105 10 10 37	5 31	4	2 1 1	1 1 1	2 3 4 1 1	18 2 25 9 1	6 10 5	1 7 9	633 14 24 1 	8 9	1 2 17 1	188 4 2 16		1 1	• • • • •	31	993 26 72 47 4 6 16 4	14

	NATI	VITY			Sociai onditi							Mos	THS	•				
	Canada	Foreign	Not Stated	Single	Married	Not Stated	Jan.	Feb.	March	April	Мау	June	July	August	Sept.	October	Nov.	Dec.
Total	1.816	491	33	1,158	1,113	69	197	205	197	252	198	199	177	206	190	165	•158	196
Tuberculosis of the Lungs. Acute Miliary Tuberculosis Tuberculous Meningitis. Abdominal Tuberculosis. Pott's Disease. White Swelling. Tuberculosis of other organs Disseminated Tuberculosis.	136 88 9	17 1 2 6		912 27 136 49 7 6 18	11 12 53 3	2 1 3	12 10 2 1	17	168 2 6 13 1 1 5	15 8 1	163 4 16 11 1	3	2	10	13 15	4 14	8	4

TOTAL NUMBER OF DEATHS FROM TUBERCULOSIS IN EACH COUNTY IN ONTARIO FOR TEN YEARS, 1905-1914.

	-	•			(		(		,	1	
	Total.	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914
Totals	24,527	2,667	2,911	2,530	2,511	2,380	2,291	2,353	2,250	2,294	2,340
Algoma	429	77	70	45	43	27	34	33	33	39	28
Brant	358	24	50	54		32	26	28	38	32	35
Bruce	519	65	48	66	1	43	64	47	36		
Carleton	1,526	145	158	155		161	127	163			
Dufferin	111	17	13	11	15		10	10	9		7
Elgin	300 628		38 81	20 66		28 63	18 62	26	26 61		
Essex Frontenac	572	64	59			43		60 63			
Grey	528		80		1			32			
Haldimand	155		12								
Haliburton	40		4	7			4	3			
Halton	159		29					17	16		
Hastings	555	73	83	55	53	56	56	51	53		
Huron	459	67	49	50	62	44	44	44	14	27	31
Kenora	69					13		16	7	15	
Kent	574	64	96					51	51		
Lambton	498		78					41	30		
Lanark	385	46	48	1				30			
Leeds and Grenville	842		109					82			
Lennox and Addington	201	24	26					18			
Lincoln	345	37	46	26	35	$\frac{30}{2}$	42	29		36	
Manitoulin Middlesex	1.057		145	103	118						
Muskoka	376	1	24				34		1 00		
Nipissing	315										
Norfolk	198		29							-	
Northumberland and Dur-	100			1		01			**		
ham	510	56	57	64	63	48	49	45	44	51	33
Ontario	353	44	43	37	44	23	40	42	23	33	24
Oxford	419	51	47		50						
Parry Sound	150		24								
Peel	182		21								
Perth	341										
Peterboro'	424		51								
Prince Edward	528 148										
Rainy River	112							6			
Renfrew	363										
Simcoe	791	89	109	1				1			
Stormont, Dundas and Glen-	101		100								
garry	792	86	85	100	102	81	66	83	58	59	72
Sudbury	117	1				22	18	10	18	20	29
Thunder Bay	378	26	34	38	26	32	44	38	35	47	
Timiskaming	33									12	
Victoria	239		23		14						
Waterloo	425	40	35					42			
Welland	340	33	34					31			
Wellington	449		52				40	50			
Wentworth	1,183		132	97		128	127 504	107			
York	+5,034	452	553	484	524	464	504	520	490	492	1 040

#### INFANT MORTALITY.

The number of children who died during 1914 under the age of 5 years was 8,516, as compared with 9,515 for the preceding year. This is a decrease of 999. The decrease took place in the first three years of age, while increases occurred in the latter two.

	Total	Under 1	1	2	3	4
1913		7,596 6,835	992 808	447 359	274 305	206 212

In 1913, the deaths under one year amounted to a ratio of 117.7 per 1,000 births; in 1914, the ratio dropped to 103.2. This is most gratifying.

The following table shows a comparison of the death rates per 1,000 births, between 1913 and 1914.

- 1	1913	1914
Whole Province. City Municipalities Town Municipalities Rural Municipalities	117.7 140.3 148.3 95.7	103.2 115.9 129.9 88.8

Excluding cities and towns

It will be observed that while the death rate in the whole Province falls much below that of cities and towns, the latter carries the highest rate of all, while that of the rural districts is lowest. It seems that the reasons for the higher death rate in towns is due to the fact that in towns less attention is paid to sanitary conditions than is the case in cities. In most cities there is a full-time medical officer of health, the supply of milk is controlled by by-law which provides for inspection of the milk and of the dairies. In some of the cities, notably Toronto, all milk is pasteurized, supplied in bottles and distributed in a most satisfactory manner. In a large number of towns, the medical officer of health is paid but a mere pittance for his services and has little or no incentive to carry out his duties properly. It is a notorious fact that the milk supply of many of our towns is scandalously filthy and consequently about as dangerous a poison as could be given a child. In addition, while cities screen and promptly dispose of manure and garbage, thus preventing the breeding of flies; in most of the smaller towns nothing is done to limit the swarming of these diseasecarrying insects. In the rural districts the milk is fed fresh to children, before the disease germs have had time to multiply. The effect of the pasteurization of milk is apparent in the low death rate among infants in cities like Toronto.

Johnw mot bullough

Deputy Registrar General.

#### TABLE No. 1.

o wing the number of Births, Marriages and Deaths, in the Province and in each County Municipality, together with the ratio per 1,000 of population. Also the estimated population for the Province, and for each municipality, 1914.

Counties.	Estimated Population.	Births.  Excluding Still- Births.	Ratio per 1,000.	Marriages.	Ratio per 1,000.	Deaths. Excluding Still- Births.	Ratio per 1,000.
Totals	2,749,840	66,225	24.0	24,245	8.8	32,440	11.8
Algoma Brant. Bruce. Carleton. Dufferin. Elgin Essex Frontenac Grey Haldimand Haliburton Halton. Hastings. Huron. Kenora 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 Thurder Bay Timiskaming Victoria Waterloo Welland. Wellington Wentworth. York	51, 400 49, 920 46, 560 130, 220 16, 110 45, 520 75, 320 44, 830 64, 920 21, 680 5, 650 24, 550 55, 990 68, 670 68, 41, 380 11, 680 101, 450 11, 450 121, 800 27, 230 41, 380 27, 230 41, 380 27, 370 53, 440 41, 530 47, 980 27, 370 51, 540 43, 010 52, 540 43, 010 52, 540 68, 800 68, 800 69, 900 69, 360 61, 800 61, 800 61, 800 61, 800 61, 800 61, 800 61, 800 61, 800 61, 800 65, 800 65, 800 65, 800 65, 800 66, 800 67, 777 69, 360 68, 800 68, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800 69, 800	1,949 528 900 566 1,132 781 438 1,036 982 1,715 294 319 1,188 1,929 1,249 1,025 1,836 1,294 1,326 1,326 1,326 1,072 3,602	15.8 26.1 22.6 24.8 18.7 19.3 25.9 21.4 18.3 21.0 24.2 19.0 21.6 16.3 21.6 17.3 24.5 14.5 22.0 20.2 20.2 21.2 20.2 21.2 20.2 21.2 20.2 21.2 20.2 21.2 21	366 441 150 25 166 452 323 71 441 445 239 353 139 45 900 142 273 228 379 308 186 137 368 354 354 400 142 273 228 379 400 227 403 288 599 430 227 493 388 599 430 227 493 388 599 430 227 493 388 599 430 227 493 388 599 430 227 493 388 599 430 227 493 388 599 430 227 493 358 599 430 227 493 358 599 430 227 493 358 599 430 227 493 358 599 430 227 493 358	6.88 6.66 9.3 6.77 13.9 8.14 6.77 6.44 6.77 8.04 6.57 7.06 8.38 8.77 8.34 7.44 8.37 6.77 8.34 7.45 8.37 6.97 8.34 7.45 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8.37 8	1,069 781 453 676 373 303 727 610 652 1,598	11.1 10.3 10.6 13.3 10.4 10.5 12.4 11.6 12.8 9.8 10.4 11.4 11.4
*This high rate is due to the registration	n of a number	of births w	hich oc	curred in 19	13, being	registered	in 1914.

<sup>\*</sup>This high rate is due to the registration of a number of births which occurred in 1913, being registered in 1914.

TABLE No. 2.

Showing the total number of Births, Marriages and Deaths, and the ratio per 1,000 of/population in each City in Ontario, 1914.

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	1,002.320	28,009	27.9	12,537	12.5	12,853	12.8
Belleville Berlin Brantford Chatham. Fort William. Guelph Hamilton Kingston. London. Niagara Falls Ottawa. Peterborough Port Arthur St. Catharines. St. Thomas Sarnia Stratford. Toronto. Windsor Woodstock	11,230 18,880 26,100 12,830 27,180 16,800 101,190 21,260 54,220 11,650 97,900 19,650 18,320 15,860 15,490 12,090 14,570 475,000 9,600	240 531 808 250 956 353 2,845 517 1,200 2,592 476 702 500 340 270 357 13,949 626 203	21.3 28.1 30.9 19.4 35.1 21.0 28.1 24.3 22.1 25.2 38.3 21.5 21.9 22.3 24.5 29.3 27.8 21.1	130 222 296 194 254 145 1,163 287 607 291 1,072 207 210 238 186 179 139 5.964 622	11.5 11.7 11.3 15.1 10.3 8.6 11.5 13.4 11.1 24.9 10.5 11.4 15.0 11.9 10.5 27.6 27.6 13.6	149 211 281 230 311 209 1,158 372 802 140 1,697 254 215 243 218 156 165 5.602 316	13.2 11.1 10.7 17.9 11.4 12.4 11.4 17.4 11.7 12.9 11.7 15.3 14.0 12.8 11.3 11.7

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, 1914.

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	160,495	4,611	28.7	1,821	11.3	2,481	15.4
Barrie Brockville Cobalt Cobourg Collingwood Cornwall Galt Ingersoll Kenora Lindsay North Bay Orillia Oshawa Owen Sound Pembroke Port Hope Sault Ste. Marie Smith's Falls Sudbury Welland	7,215 9,275 7,590 5,000 6,200 7,050 12,020 5,040 6,510 8,140 10,980 7,760 8,270 12,560 7,500 5,150 13,200 6,790 6,770 7,475	279	25.0 24.5 38.4 22.2 23.0 23.4 26.8 21.8 30.1 22.6 36.9 20.3 33.5 27.2 30.5 27.2 30.5 33.3 33.3	109 500 75 90 132 56 38 101 121 74 83 125 75 42 180 58	12.1 9.1 14.3 10.0 12.7 10.9 11.1 5.8 12.4 11.0 9.5 10.0 -9.9 10.0 8.2 13.6 8.5 19.5 14.3	158 139 71 102 99 146 95 92 138 152 63 198 86 263	14.4 18.6 14.6 21.0 15.0 22.4 11.5 14.0 15.6 12.1 13.2 12.2 11.1 11.0 20.2 12.2 12.6 38.7 13.4

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, 1905-1914, inclusive.

Counties.	1905	1905	1907	1908	1909	1910	1911	1912	1913	1914	Totals.
Totals	51,911 23.5	51,710 23.3	53,584 24.1	56,155 25.6	54,465 24.3	55.871 24.9	57,235 22.6	*58.870 22.4	*64,51 <sub>6</sub>	*66,225 24.0	570,542 23.8
Algoma ,	1.525	1,340 29.1	1,370 29.6	1,211 28.3	757 16.3	784 16.8	795 18.8	849 19.1	894 17.4	813 15.8	10,338 22,4
Brant	859 22.2	809 20.9	938 24.1	1,000 25.0	931 23.8	1.048 26.5	1.100 23.9	1.160 24.7	1,202 24.3	1.365	10.350 £4.1
Bruce ,	1,268 21.2	1,192 19.9	1,187 19.7	1,130 18.7	1,289 21.3	1,195 18.4	1,060 21.1	1,069 21.6	1,061 22.9	1,059 22.6	11,510 20.7
Oarleton	2,433 24.8	2,436 24.7	2.567 26.0	1,606 26.3	2,515 25.3	2,568 25.8	2.659 22.8	2,993 25.1	3,127 24.8	3,232 24.8	26,136 25.0
Dufferin	435 20.4	425 15.0	340 15.8	400 18.6	368 17.0	387 17,4	352 19.8	321 18.3	367 22.3	30° 18.7	3,697 18.3
Elgin '	786 12.8	861 19.4	889 20.0	938 21.1	900 20.1	861 19.1	843 19.0	828 18.6	814 18.2	882 19.3	8,602 18.7
Essex	1.615 27.2	1,549 26.1	1,385 23,2	1.681 28.2	1,528 25.5	1.589 26.4	1,594 23.5	1,579 22.9	1,848 25.0	1,958 25.9	16.326 25.3
Frontenac	878 19.4	926 20.4	837 18.4	893 19.6	974 21.3	901 19.7	861 22.0	872 20.8	1.019 23.2	962 21.4	9,123 20.6
Grey	1,512 21.4	1,353 19.1	1,438 20.3	1,400 19.7	1,484 20.8	1.384 19.3	1,390 21.0	1,269 19.2	1.329 20.4	1,192 18.3	13,751 19.9
Haldimand	388 18.0	441 20.4	408 18.7	434 20.0	418 19.2	414 19.0	408 18.9	425 19.6	435 19.9	421 19.4	4,192 19.3
Haliburton	203 30.6	197 29.6	216 32.3	204 30.5	219 32.6	174 25.0	182 28.7	146 20.5	109 19.2		1,923 29,7
Halton	448 22.6		429 21.5	460 23.0	447 22.3	460 22.9	484 21.8	420 18.7	497 21.5		4,569 21.5
Hastings	1,148 19.1	1,150 19,1	1,393 23.1	1,289 21.3	1,245 20.5	1,192 19.6	1,229 22,0	1,310 23.5	1,320 23.9		12,634 21.6
Huron	1,151 18.4	1,130 18.0	1.166 18.5	1,091 17.3	1,059 16.7	983 15.5	1,085 20.4	974 18.5	984 19.3	956 19.0	10.579 18.1
Kenora					285	213	239 13.1	246 13.7	262 13.7		1.571 14.2
Kent	1,191 20.5	1,223 21.0	1,120 19.1	1,210 20.6	1.093 18.6	1,165 19.7	1,237 22.0	1,187 21.0	1,223 21.4	1,270 21.6	
Lambton	1,194 20.8	1,193 20.7	1,073 18.5	1,107 19.1	942 16.2	943 16.2	942 18.3	957 18.9	945 17.9		10,268 18.3
Lanark	682 18.1	702 18.5	697 18.4	714 18.8	670 1 <b>7.</b> 5	695 18.2	668 19.4	693 19.9	724 21.0	666 19.1	6,901 18.8
Leeds and Grenville	1,118 18.7	1,124 18.7	1,162 19.3	1,117 18.5	1,068	1,073 17.7	959 17.6	1.018 18.7	922 17.4		
Lennox and Addington	431 18.2		404 17.0	401 16.8	382 16.0	361 15.0	367 18.0	391 17.8	356 17.8		3,795 16.9
Lincoln	680 22.0	669 21.6	652 20.9	704 22.6	687 21.9	715 22.8	735 20.7	806 22.4	920 23.2		7,582 22.2
Manitoulin					247	226	186 16.8	206 18.8	239 21.4		
Middlesex	1,839 18.1		1,929 20.4	1,997 21.1	1,854 19.5	1.844	1,820 18.7		1,948 19.4		
Muskoka	633 29.8		605 28.3	626 29.2	604 28.1	565 26.2	534 25.1		506 24.8		
Nipissing	1,608 59.4		1,742 64.0	1,607 58.9	1,195 43.7	1,703 62.0	1,688 28.5		1,276 36.0		14.951 45.7
Norfolk	579 19.6		572 19.3	536 18.0	562 18.8		571 21.0	517 19.0	475 17.5		
Northumberland and Durham	1,121 17.8	1.110 17.6	1,164 18.4	1,164 18.3	1,134 17.8		1,142 19,2		1,075 18.1		
*Still-births not included.											

<sup>\*</sup>Still-births not included.

### TABLE No. 4—Concluded.

Counties.	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	Totals.
Ontario	798 19.5	805 19.6	860 20.9	885 21.4	849 20.5	876 21.1	843 20.5	808 19.5	931 22.6	881 21.2	8,536 20.6
Oxford	1,001 20.4	975 19.8	986 20.0	994 20.1	997 20.1	973 19,6	926 19.5	974 20.4	1,008 21.4	972 20.2	9,806 20.1
Parry Sound	657 26.0	814 32.2	759 29.8	855 33.6	675 26.4	691 27.0	790 29.7	675 26.0	632 23.4	781 28.5	7.329 28.2
Peel	377 17.3	384 17.6	381 17.4	446 20.3	427 19.4	426 19.3	414 18.7	418 18.8	446 20.4	438 20.0	<b>4.157</b> 18.9
Perth	1,033 20.4	1,054 20.8	1,029 20.2	1,004 19.7	1,029 20.1	972 19.0	947 19.2	963 19.6	950 18.8	1,036 20.4	10,017 19.8
Peterborough	850 23.3	870 23.7	870 23.7	986 26.8	866 23.4	930 25.1	925 22.2	977 23.0	969 22.8	982 22.8	9,225 23.6
Prescott and Russell	1,950 40.7	1,819 37.9	1,733 36.0	1,881 38.9	1,760 36.3	1 842 37.0	1,767 34.1	1.659 31.6	1,860 36.7	1.715 32.4	17,986 36.1
Prince Edward	296 16.3	315 17.3	321 17.6	328 17.9	326 17.8	319 17.4	332 19.3	290 16.8	342 20.4	294 17.4	3,163 17.8
Rainy River	356 21.4		441 26.3	457 27.2	240 14.2	234 13.8	215 21.3	254 28.1	334 31.9	319 29.0	3,232 23.6
Renfrew	1,508 28.2		1,391 25.9	1,471 27.3	1,291 23.9	1,227 22.7	1,223 23.5	1.179 22.9	1,223 23.3	1,188 22.1	13,08? 24.5
Simcoe	1,986 23.8		2.032 24.6		1,981 23.5	1.851 21.9	1.873 22.0	1,804 21.0	1,964 22.8	1,929 22.4	19,492 23.0
Stormont, Dundas and Glengarry	1,531 21.9	1,469 21.0	1,465 20.9	1,497 21.2	1,460 20.7	1,237 17.5	1,330 20.7	1,135 17.7	1,259 20.0	1,249 19.5	13,632 20.1
Sudbury					836	665	818 23.4	779 19.7	873 21.4	1,025 24.0	4,996 22.1
Thunder Bay	501 39.4		784 61.4			1.083 84.1	1,241 31.7	1,353 33.0	1,657 38.2	1,836 40.3	10.926 52.1
Timiskaming									876 30.3	1.294 44.5	2,170 37.4
Victoria	685 21.2		686 21.1	774 23.7	661 20.2	691 21.0	584 19.3	648 20.9	607 20.1	551 17.9	6,614 20.7
Waterloo	1,327 24.9		1,325 24.7	1,612 30.0	1,347 25.0	1,430 26.5	1,429 22.8	1.515 23.3	1,643 21.0	1,819 26.2	14,697 25,0
Welland	728 22.7		738 22.8	857 26.6	780 24.1	917 28.3	942 22.3	1.044 24.1	1,149 23.6	1,326 24.8	
Wellington	1,065 18.9		1,099 19.4	1,134 19.9	1,111 19.5	1,108 19.4	1,100 20.1	1,085 19.9	1,105 20.3	1,072 19.5	10.955 19.5
Wentworth	1,965 24.4		2,280 28.2		2,336 28.7	2,622 32.1	2.663 23.8	3.149 26.9	3,379 25,2	3,602 26.4	26,552 27.2
York	7,572 27.4		8,721 31.4	10,421 37.4	9,765 35.0	10,532 37.6	11,743 26.4	12.573 26.1	15,439 29,8	15,877 28.7	110,551 30.8

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 (1905-1914), inclusive.

1								-		-	
Counties.	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	Totals.
Totals	20,426	19,846	21,915	21.058	22,366	24,036	25,807	28,845	26,998	24,245	235, <b>54</b> 2
	9,2	8.9	9.8	9.0	10.0	10.7	10.2	11.1	10.0	8.5	9.7
Algoma	464	387	482	475	382	302	340	403	342	352	3,929
	10.1	8.4	10.4	10.2	9.2	6.4	8.0	9.0	6.6	6.8	8.5
Brant	314	<b>33</b> 0	359	329	325	385	414	467	485	443	3,851
	8.0	8.5	9.2	8.4	8.3	9.0	9.0	9.9	9.8	8.8	8.8
Bruce	389	374	369	299	355	352	311	344	372	311	3,476
	6.5	6.2	6.1	4.9	5.8	5.8	6.2	6.9	8.0	6.6	6.3
Oarleton	939 9.5	812 8.2	959 9.7	925 9.3	941 9.4	1,047 10.5	1.123 9.6	1.221 10.2	1,194 9.5	1.224 9.3	10,385
Dufferin	141	142	134	140	119	134	142	130	113	112	1,307
	6.6	6.6	5.1	6.5	5.5	5.2	8.0	7.4	6.8	6.9	6.4
Elgin	369	315	341	396	352	334	349	368	387	357	3,561
	8.3	7.1	7.6	8.9	7.8	7.4	7.7	8.2	8.7	7.7	7.9
Essex	1,911	1,843	2,168	2,120	2,508	2,836	3,426	4,149	2,082	1,050	24,093
	32.2	31.0	36.2	35.8	41.9	47.8	50.7	60.2	28.1	13.9	37.7
Frontenac	324	307	356	326	366	364	381	427	382	366	3,599
	7.1	6.8	7.8	7.3	8.0	7.9	8.9	10.2	8.7	8.1	8.0
Grey	542	476	492	412	432	468	460	496	506	441	4,725
	7.7	6.7	6.8	5.8	6.0	6.5	7.1	7.5	7.7	6.7	6.8
Haldimand	182	127	151	174	136	149	130	146	153	150.	1,498
	8.4	5.8	6.9	8.0	6.2	6.8	6.0	6.7	7.0	6.9	6.8
Haliburton	27	41	32	37	26	30	31	22	35	25	306
	4.0	6.6	4.7	5.5	3.8	4.4	4.9	3.9	6.1	4.4	4.8
Halton	147 7.4	132 6.1	134 6.7	118 5.9	134 6.7	130 6.4	132 5.9	160 7.1	180 7.7	166 6.7	1.433
Hastings	466	448	493	486	469	430	439	470	664	450	4.817
	7.7	7.4	8.1	8.0	7.7	7.0	7.8	8.4	12.0	8.0	8.2
Huron	429	411	423	376	358	398	364	348	372	323	3,802
	6.8	6.5	6.7	5.9	5.6	6.2	6.8	6.6	7.3	6.4	6.4
Kenora					72	69	72 3.9	54 3.0	188 9.9	71 3.5	526 5.0
Kent	403 6.9	437 7.5	402 6.9	425 7.2	408 6.9	454 7.7	459 8.1	475 8.4	502 8.8	$\frac{451}{7.6}$	4.416 7.6
Lambton	485 8.4	<b>46</b> 6 8.1	509 8.8	483 8.3	466 8.0	486 8.3	523 10.1	518 10.2	450 8.5	445 5.3	4,831 8.7
Lanark	260	260	249	223	219	274	264	245	279	239	2.512
	6.9	6.8	6.5	5.8	5.8	7.0	7.6	7.1	8.1	6.9	6.8
Leeds and Grenville	449	428	437	433	437	452	426	498	449	353	4,362
	7.5	7.1	7.3	7.1	7.2	7.4	7.8	9.1	8.4	6.7	7.5
Lennox and Addington	180	157	156	173	169	143	169	154	183	139	1,623
	7.6	6.6	6.5	7.2	7.0	5.0	8.2	7.0	9.1	7.0	7.1
Lincoln	237 7.6	240 7.7	236 7.5	231 7.4	290 9.2	294 9.3	332 9.3	348 9.7	355 8.9	393 9.5	2,956
Manitoulin					67	69	57 5.1	56 5.2	65 5.8	45 3.8	359 4.9
Middlesex	799	793	863	781	745	813	834	928	900	900	8,356
	8.5	8.4	9.1	8.2	7.8	8.5	8.5	9.4	8.9	8.8	8.6
Muskoka	172 8.1	173 8.1	167 7.8	150 7.0	133 6.2	134 6.4	132 6.2	160 7.5	148 7.2	142 7.2	1,511
Nipissing	312	321	455	379	344	423	428	473	254	273	3,661
	11.5	11.8	16.7	13.8	12.5	15.4	7.2	7.5	6.8	7.0	11.0
Norfolk	212 7.2	203 6.8	232	208 6.9	193 6.4	226 7.5	183 6.7	193 7.1	211 7.8	228 8.3	2,089
Northumberland and Durham	453 7.2	451	449 7.1	395 6.2	401 6.3	415 6.5	404 6.8	390 6.5	431	379 6.4	4.168

#### TABLE No. 5-Concluded.

Counties.	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	Totals.
Ontario	262 6.4	287 6.9	250 6.0	261 6.3	263 6.3	264 6.3	269 6.5	277 6.7	292 7.0	308 7.4	2,733 6.5
Oxford	370 7.5	303 6.1	381 7.7	332 6.7	372 7.5	336 6.7	352 7.4	382 8.0	358 7.6	400 8.3	3,586 7.3
Parry Sound	171 6.7	203 8.0	225 8.0	193 7.5	174 6.8	160 6.2	194 7.3	167 6.4	179 6.6	186 6.7	1.852 7.0
Peel	144 6.6	144 6.6	129 5.8	153 6.9	163 7.4	136 6.1	133 6.0	142 6.0	134 6.1	137 6.2	1,415 6.3
Perth	406 8.0	402 7.9	394 7.7	349 6.8	349 6.8	337 6.5	369 7.5	403 8.2	372 7.3	368 7.2	3,749 7.3
Peterborough	319 8.7	323 8.8	303 8.2	294 7.9	334 9.5	315 8.5	346 8.2	377 8.8	353 8.3	354 8.2	3,318 8.5
Prescott and Russell	375 7.8	326 6.7	402 8.3	333 6.9	349 7.2	348 7.1	350 6.7	336 6.4	342 6.7	330 6.2	3,491 7.0
Prince Edward	131 7.2	134 7.3	147 8.0	139 7.6	123 6.7	122 6.6	116 6.7	116 6.7	120 7.1	6.9	1,265 7.0
Rainy River	132 7.9	144 8.6	161 9.6	196 11.6	81 4.8	91 5.4	74 7.3	96 9.3	104 9.9	125 11.3	1,204 8.5
Renfrew	382 7.1	374 6.9	384 7.1	370 6.8	371 6.8	369 6.8	318 6.1	360 7.0	385 7.3	408 7.6	3,721 6.9
Simcoe	660 7.9	626 7.5	671 8.0	574 6.8	580 6.8	630 7.4	635 7.4	647 7.5	498 5.7	599 6.9	6,120 7.1
Stormont, Dundas and Glengarry	485 6.9	448 6.4	487 6.9	436 6.2	467 6.6	388 5.4	331 5.1	366 5.7	399 6.3	430 6.7	4,237 6.2
Sudbury					181	163	122 3.4	183 4.6	256 6.2	227 5.3	1.132
Thunder Bay	15.4	212 16.6	276 21.6	305 23.8	354 27.5	386 30.0	418 10.6	461 11.2	595 13.7	493 10.8	3,696 18.1
Timiskaming									281 9.7	288 9.9	
Victoria	218 6.7	237 7.0	211 6.4	183 5.6		217 6.6	199 6.5	213 6.8	220 7.2	234 7.6	
Waterloo	422 7.9	418 7.8	482 8.9	463 8.6		482 8.9	486 7.7	576 8.8	623 9.1	632 9.1	
Welland	369 11.5	378 11.8	404 12.5	767 23.7		1,375 42.4	1,524 36.1	1,840 42.5	1,108 22.8	743 13.9	25.0
Wellington	407 7.2	392 6.9	416 7.3	431 7.5	378 616	426 7.4	378 6.9	378 6.9	412 7.7	358 6.5	
Wentworth	840 10.4	850 10.5	951 11.7	887 10.9		1,075 13.1	1,271 11.3	1.464 12.5	1,548 11.6	1,320 9.6	
York	3,531 12.8	3,571 12.1	4,193 15.1	3.899 14.0		4,805 17.1	5,604 12.6	6,418 13.3	6,737 13.0	6,358 11.5	

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 (1905-1914), inclusive.

Counties.	1905	1906	4000								
Detale			1907	1908	1909	1910	1911	1912	1913	1914	Totals.
1 otals	31,371	32,782	33,502	32,714	32,628	33,539	34,341	*32,150	*34,317	*32,440	329,784
	14.2	14.8	15.0	14.6	14.6	14.9	13.6	12. <sub>4</sub>	12.7	11.8	13.8
Algoma	620	651	566	596	413	490	461	470	515	400	5,182
	13.5	14.1	12.2	12.8	8.8	10.5	10.9	10.6	10.0	7.7	11.1
Brant	498	455	588	546	536	551	565	567	568	510	5.384
	12.9	11.7	15.4	14.0	13.8	14.0	12.3	12.1	11.4	10.2	12.7
Bruce	742	796	776	718	706	650	648	621	603	540	6,800
	12.4	13.3	12.9	11.9	11.6	10.7	12.9	12.5	13.0	11.5	12.2
Carleton	1.734 17.6	1.719 17.2	1,811	1.830	1,773 17.8	1,917 19.2	2,147 18.4	1,933 16.3	2,142 17.0	2,084 16.0	19.090 17.6
Dufferin	263	287	256	218	207	219	185	166	190	158	2.149
	12.3	13.4	11.9	10.1	9.6	10.1	10.4	6.6	11.5	9.8	10.5
Elgin	489	575	550	562	527	488	505	539	526	561	5,322
	11.0	13.0	12.4	12.6	11.8	10.9	11.3	12.1	11.8	12.3	11.9
Essex	727	893	774	849	830	800	881	808	919	867	8,348
	12.2	15.0	13.0	14.2	13.8	13.3	13.0	11.7	12.4	11.5	13.0
Frontenac	643	691	706	611	605	697	672	705	740	657	6,727
	14.2	15.3	15.5	13.4	13.2	15.2	15.7	16.8	16.9	14.6	15.0
Grey	885	830	837	770	795	711	743	738	767	679	7,725
	12.5	11.7	11.8	10.8	11.1	9.9	11.2	11.2	11.7	10.4	11.2
Haldimand	245	267	240	211	226	228	276	229	265	255	2,442
	11.4	12.4	11.1	9.7	10.4	10.4	12.8	10.6	12.1	11.7	11.2
Haliburton	74	77	84	78	80	68	74	62	40	81	718
	11.1	11.5	12.5	11.6	12.0	10.1	11.7	10.9	7.0	14.3	11.2
Halton	264	309	263	258	249	254	258	229	234	223	2,541
	13.3	15.5	13.2	12.9	12.4	12.6	11.6	10.2	10.1	9.0	12.0
Hastings	730	718	851	771	731	780	806	709	725	754	7,575
	12.1	11.9	14.1	12.7	12.0	12.8	14.4	12.7	13.1	13.4	12,9
Huron	692	743	726	705	720	627	673	600	643	589	6,718
	11.0	11.7	11.5	11.1	11.3	9.8	12.7	11,2	12.6	11.7	11.1
Kenora					136	114	116 6.4	146 8.4	128 6.7	148 7.1	783 7.1
Kent	746	777	801	735	705	733	787	608	674	700	7,266
	12.8	13.3	14.5	12.5	12.0	12.4	14.0	10.4	11.8	11.9	12.5
Lambton	742	782	770	702	647	588	639	611	607	560	6,648
	12.6	13.6	13.3	12.1	11.1	10.1	12.4	12.0	11.5	10.5	11.9
Lanark	516	466	480	484	435	479	434	428	402	461	4,585
	13.7	12.3	12.8	12.7	11.4	12.2	12.6	12.4	11.6	13.4	12.5
Leeds and Grenville	892	843	877	742	785	798	764	896	759	720	8,076
	14.9	13.2	14.6	12.3	12.1	13.1	14.0	16.5	14.3	13.8	13.8
Lennox and Addington	289	305	308	267	263	316	264	229	256	208	2,705
	12.2	12.8	12.1	11.2	11.0	13.2	12.9	10.4	12.8	10.4	11.9
Lincoln	472	492	450	424	505	482	459	460	544	536	4,824
	15.2	15.8	14.4	13.6	16.0	15.3	12.9	12.8	13.7	12.9	14.2
					90	67	72 6.5	6.3	72 6.4	73 6.2	413 6.3
Middlesex	1.357	1,348	1,365	1,323	1,260	1,348	1,313	1,191	1,401	1,267	13,173
	14.4	14.3	14.4	13.9	13.2	14.1	13.5	12.1	14.0	12.5	13.6
Muskoka	334 15.7	294 13.8	238 11.1	275 12.8	279 13.0	257 11.9	243 11.4	209	210 10.2	188 9.4	2,527 11.9
Nipissing	640	775	845	772	758	812	730	618	444	296	6,690
	23.6	28.5	31.0	28.3	27.7	29.5	12.3	9.8	11.9	7.5	21.0
Norfolk	366	372	348	385	363	368	343	330	373	322	3,570
	12.4	12.5	11.7	12.9	12,1	12.3	12.6	12.1	13.7	11.8	12.4
Northumberland and Durham	816	813	869	827	765	861	757	739	727	704	7,870
	13.0	12.9	13.7	13.0	12.0	13.5	12.7	12.4	12.2	12.0	12.7

<sup>\*</sup> Still-births excluded.

TABLE No. 6-Concluded.

Counties.	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	Totals.
Ontario	499	529	507	556	571	617	559	494	536	495	5,363
	12.2	12.9	12.3	13.5	13.8	14.8	13.6	11.9	13.0	11.9	12.9
Oxford	726	783	714	582	566	565	629	582	583	532	6,262
	14.8	15.9	14.5	10.7	11.4	11.3	13.2	12.2	12.4	11.0	12.7
Parry Sound	299	382	355	305	268	252	316	272	259	272	2.980
	11.8	15.1	14.0	11.9	10.5	9.8	11.9	10.4	9.5	9.9	11.4
Peel	306	261	270	253	271	278	271	230	244	243	2,627
	14.0	11.9	12.3	11.5	12.3	12.6	12.2	10.3	11.1	11.1	11.9
Perth	526	570	569	573	558	524	514	520	532	522	5,408
	10.4	11.2	11.2	11.2	10.9	10.2	10.4	10.6	10.5	10.3	10.6
Peterborough	489	518	507	517	539	569	606	470	521	459	5,195
	13.4	14.1	13.8	14.0	14.6	15.3	14.5	11.0	12.2	10.6	13.3
Prescott and Russell	758	713	811	739	764	692	771	613	697	699	7,257
	15.8	14.8	16.8	15.3	15.7	14.2	14.8	11.6	13.7	13.3	14.6
Prince Edward	243	244	268	281	262	278	244	236	231	225	2,512
	13.4	13.4	14.7	15.4	14.3	15.1	14.2	13.7	13.7	13.3	14.1
Rainy River	187	306	383	422	83	96	111	79	122	115	1,904
	11.2	18.3	22.8	25.1	4.9	5.6	11.0	7.6	11.6	10.4	12.8
Renfrew	726	673	644	585	591	565	629	603	574	568	6,158
	13.6	12.5	12.0	10.8	10.9	10.4	12.1	11.7	10.9	10.5	11.5
Simcoe	1,118	1,252	1,113	1,089	1,159	1.083	1,156	1,042	1,048	1,069	11,129
	13.4	15.0	13.3	12.9	13.7	12.8	13.5	12.1	12.2	12.4	13.1
Stormont, Dundas and Glengarry	912	901	950	893	863	803	908	804	757	781	8,572
	13.0	12.8	13.5	12.7	12.2	11,3	14.1	12.5	12.0	12.2	12.6
Sudbury					359	405	362 10.3	423 10.7	456 11.2	453 10.6	2,458 10.7
Thunder Bay	267	564	485	557	480	600	523	494	725	676	5,371
	21.0	44.3	37.9	43.5	34.7	46.6	13.3	12.0	16.7	14.8	28.4
Timiskaming									297 10.2	373 12.8	670 11.5
Victoria	393	372	449	406	352	377	370	338	338	303	8,698
	12.1	11.4	13.8	12.4	10.7	11.5	12.2	10.8	11.1	9.8	11.5
Waterloo	635	682	681	664	693	793	736	661	778	727	7,050
	11.9	12.7	12.7	12.1	12.8	14.7	11.7	10.1	10.4	10.4	11.9
Welland	499	484	521	518	470	575	522	499	677	610	5,375
	15.6	15.1	16.2	16.0	14.5	17.7	12.3	11.0	13.9	11.4	14.3
Wellington	701	746	684	674	721	668	720	681	731	652	6,978
	12.4	13.2	12.0	11.8	12.6	11.7	13.2	12.5	13.4	11.8	12.4
Wentworth	1,318	1,388	1,419	1,511	1,467	1,579	1,606	1,654	1,603	1,593	15,138
	16.4	17.2	17.5	18.5	18.0	19.3	14.3	14.1	12.0	11.6	15.8
York	4,993	5,136	5,793	5,930	6.202	6.517	6.973	6,545	7,134	6.537	61,760
	18.1	14.9	20.8	21.3	22.2	23.3	15.6	13.6	13.7	11.9	17.5

TABLE No. 7. Recapitulation of Causes of Death by Classes of Diseases in Counties, 1914.

						Ages.	s.							Sex.	¥					~	Months.	ϔ				
Under 0-1,	.1	2.2	***	*6-9	10-14.	15-19.	\$0-20		20-29	*69-09	. *62-02	80 and over.	Not stated.	Male,	Female. Not stated.	.vanuat	February.	Матсћ,	.firqA	May.			September.	October.	November.	December.
558,6	618	305	505	<b>*</b> 49	153	<b>184</b>	2,069		727,2	<u></u> <b>≯87,</b> ξ	008,4	197,8	<b>†0</b> †	742.71	591,81	2,733	177,5	301,8	2,861	2,865		2,656	207,2	2,619	254,2	299'Z
7,280 405	1771	129	िहर	1	506	398	959 8	1	l .	l	8 794	214	92	513	767	. 601	209	639	899	ľ		1	7 577	219	268	919
3,504 584	66	51	54		55	26	107 1				999 8	418	30	1 062,			294	351	322					22%	530	308
4,216 6	9	1G	10	9 44	24	49	140				3 1213	633	€. €.	1,287	., 929	. 375	387	429	370					308	339	343
3,463 758	203	64	50 3		3 47	55	138 2				222	338	26	1 618,	.614		97	480	453					199	252	340
3,002 1,321	161	33	1 0+		69	86	140				961 9	98	17.	.614	388			19.1	186	171				309	173	991
1,505 23	101	63		4 21	80	38	82				9330	158	Ξ	814	169			145	141	144				132	110	115
339	:	:	:		:	13	150 1		36	1	:	:	G\$	:	339		33.	44	35	36	- 68		1 31	17	91	30
243 19	7	:	20		:	৽ং	6	19 1			0 72	50	-	141	103	. 21	52	68	13	17	e i			30	17	2.4
33	73	:	;		4	ଝ	- 171	60	63	64	2	દર		18	15.	-	G₹	63	લ્ર	70	G₹	-9	74	63	€₹	es
176 176	:	:	:	:	:	:	:	:	:	:	:		:	35	8.1	. 20	17	22	16	16	6		3 15	10	19	£-4
3,510 3,510	:	:	:	:	:	:	:	:	:	:	:	:	- C-X	,012	.498	. 259	254	86%	299					339	242	285
2,787	:	:	:	:	:	:	:	:	:	. 183	5 848	1,732	55	,382 1	., 405	. 234	68%	312	243				194	088	2.16	233
1 896 24	63	53	36		92 6	174	311 2			_	201 2	9.1	. E	,469	197		155	133	65 62					138	147	148
186 7	62	15	6	4 12	10	11	68	52		-	£55	9	62	998	330	. 40	<u>2</u>	36	es SS	15			33	32	500	5
Still-Births (not incl. in totals).   2,745   2,745						_	-:			_:				1 209	138	. 261		269	267					196	212	204
	1-0 40011 358 9	.1-0 rabnu	.1-0 rabra	.1 O 19hnU	.1-0 rabnU	.1 orabin	26. 20. 20. 20. 20. 20. 20. 20. 20. 20. 20	2. 20.	2 20 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	25	24. 17. 2	2 2 6 40 6 51 12 2 3 1 11 1 4 1 11 11 11 11 11 11 11 11 11 1	2 2 2 2 1 1 2 2 2 2 2 1 2 2 2 2 2 2 2 2	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	23	2. 20	2, 26, 26, 27, 28, 29, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	25	26. 12. 12. 12. 12. 12. 12. 12. 12. 12. 12	7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78 7. 78	2. 26. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6	2. 25. 25. 25. 25. 25. 25. 25. 25. 25. 2	2. 26. 29. 29. 29. 29. 29. 29. 29. 29. 29. 29	2. 26. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	10.00	1. 97

TABLE No. 8. Causes of Death by Classes of Diseases in Cities, 19

		Recapitulation	tula	tion	1 of		Causes	of	Death by	th		Classes		of	Dise	Diseases	5 =	Cities,	191	14.									
								Ages.								Š	Sex.					F	Months.	hs.					
Onuses of Death by Classes of Diseases.	.fstoT	.1-0 19buU	.1	3.		.e-č	10-14.	.61-31	*68-08	.68-08	*6†-0†		*69-09	70-79, 80 and over,	Not stated.	Male.	Female.	N. t stated.	February.	March.	.lingA	May.	June.	July.	August.	September.	October.	Хотетbет. December.	172000000000
Grand Total	12,853	8,249	375	152	+7	787	212	867	106	1,000	Z+0'1	381,1	15+'1	926	63	889,9	391,9	721.1	6+0,1	191,1	0+1,1	881,1	626	1,003	1,102	330.1	350.1	920	occl.
l. General diseasesII. Diseases of the nervous	2,970	921	18	99	59	31 158	8 90	114	100	355	255	390	370	259 6	60 31	1416	1554	92 1 22	85 82	898	979	270	82	818	828	72 92 92 92	328	336	255
gystem and the organs of special sense	1,301	23.00	=	0%	<u></u>	₩ 	25	88	16	5-1	107	132	189	808	11.0	099	6-11	: 118	100	128	131	011	102	66	86	1 16	110	109	113
111. Diseases of the circulatory	1,666	13	5.3	35	1.0	2 62	98 2	36	65	86	173	288	383	396	6 961	87.1	795	156	15-1	170	191	116	143	981	10	- 88	117	11 12	130
IV. Diseases of the respiratory	1,481	2883	68	23	-61	- 13	æ	8	99	110	126	Ξ	178	194 10	9 201	192	790	188	61-1	17.9	174	180	28	53	0.2	26	26	95 1	111
by Diseases of the digestive system	1,408	695	96	<u>∞</u>	<u>c</u> :	9	25.	98	65	86	95	6.1	92		31 4	756	652	88	89	82	82	83	Ş.	181	251	986	es es	2	19
the genito-urinary system and adnexa	619	- B	į-	25	:		-22	91 9	91	50	88	95	105	116	£-	336	893	60	56	55	69	99	26	£2,	7	55 57	87	- 64	<u>æ</u>
VII. The puerperal state	147		:	:	-:	:	:	es.	æ	5.	===	:	:	<u>:</u>	:	:	147	_	91	ĕ	<u>es</u>	9	=	<u>.</u>	9	10	9	6	1-
vill. Diseases of the skin and cellular tissue	97	æ	83 :	:		-:	:	:	ıG	21		œ	<u>∞</u>	7.	=	50	A		- 15	14	©?	æ	œ	10	-3	∞	9	č→	0.1
of the organs of locomotion.	<u></u>	:	**	:	:	_	27	25	4	572	23	-	:	<u>:</u>	-:	Ξ	ţ-		ox	G.S.	:	00	25	£=	-	:	€;	:	_
X. Malformations	Ξ.	-17-	:	:	:	:	:	:	:	:	:	:	:	:		36	38	<u>.</u>	- S	¿-	6	¥.G	9	9	re	00	-	9	00
XI. Diseases of early infancy	1,606	1,606	:	:	:	:	:	•	:	:	:	:	:		:	901	705	124	981	127	128	191	100	105	1 1 1	153	1.00	103	33
XII. Old age	644		:	:	:	:	:	:	:	:	:	:	48 2	308 38	385 3	303	349	55	56	3	59	62	20	6;	40	48	4.7	75	22
XIII, Affections produced by ex-	029	12	-81	-61	15	9 27	-23	99	105	133	87	200	21	G ?	29 7	213	158	528	3 37	45	49	69	02	ç.	25	20	55	- 8	5
XIV. Ill-defined diseases	149	4	65	03	n	:	् स	-	15	30	8	500	14	10	ಛ	833	99	16	13	17	6	8	13	œ	<b>o</b>	=	€.5		53
Still-Births (not included in totuls)	1,38.	1,384														- E	561	=	98	181	143	130	109	130	101	103			123

Recapitulation of Causes of Death by Classes of Diseases in Towns of 5,000 population, 1914. TABLE No. 9.

Second   S	Oguses of Death by Classes of Diseases.	a .le	der 0-1.					***		*68	*61	*69	1		t stated.		male.		reh.	.rch.			Nonths.		- 1su Z	ptember.	vember.	cem ber.	
286	otal	184,2	299 Un				6-9 95	1-01 75				237 50-				81/ 00t,t				247 Ma	dA +12	231 Ma	ing 491					195 De	
293	ral diseases		#	0	=				G₹		<u> </u>		58		1	318		l		1	1	87	355	94				127	
	em and of the organs			2	-				25				17			197						19	17	10				61	
364       36       17       34       36       17       34       36       16       32       29       24       14       16       36       36       16       36       36       11       16       16       15       16       16       15       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16 <t< td=""><td>ses of the circulatory</td><td></td><td></td><td></td><td>-</td><td>:</td><td></td><td></td><td><del>-</del></td><td></td><td></td><td></td><td>29</td><td></td><td>1 88</td><td>150</td><td>110</td><td>G E</td><td></td><td></td><td></td><td>es es</td><td>Ιĕ</td><td>-3</td><td>19</td><td></td><td></td><td>61 19</td><td></td></t<>	ses of the circulatory				-	:			<del>-</del>				29		1 88	150	110	G E				es es	Ιĕ	-3	19			61 19	
934   151   18   1   1   15   8   13   290   13   13   18   11   11   5   2   147   137   15   15   15   15   15   15   15   1	ses of the respiratory			- 2	77	77	20		10				88		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	153						G.	7	91	6.0			600	
1992	ses of the digestive			×	-		1 15		52				-11	===		147	137	-				20	7	Ğ.	30			22	
19	venereal diseases of genito-urinary sys-				:	?₹		:	-				08	7	73	16		•				11	7.0	x	3.5			9	
19	merneralstate								_			_	:	-:	-:	:	=				_	7.0	2.0	00				G2	
308 308 308 308 308 308 308 308	ses of the skin and ular tissue			:		<u>:</u>	-	:		:				₹~a		×		<del></del>		:	-	_	<del>-</del>	:	10		50	_:	
12       12       12       12       12       13       14       160       148       16       148       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16       16	organs of locomo-	_	:	:	-:	:	:	:	:	_	-:	-	:	:	:	<u>-</u> -		<u>:</u>	-:	<u>:</u>	:		:		-	:	:	-	
308 308 173 160 148 181 30 20 19 30 27 31 28 32 21 17 14 31 19 19 19 14 31 19 19 19 14 31 19 19 19 14 32 13 18 13 19 19 19 19 19 19 19 19 19 19 19 19 19	ormations	22	21	:	:	:	:	:	:	:	_ <u>:</u>	:	:	:	-	7.0		<del>-</del> :	ु इर	*C		:		-	:	:		<u>:</u>	
173	ses of early infancy				:	:	:	:	:	:	<u>:</u>	:	:	:	:	160							61	30	25 F=			200	
36 6 1 1 6 8 6 1 1 4 8 8 3 2 4 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ge			:	:	:	:	:	:	:	:	:	6		98 1	78							121	7	=				
36 36 13 19 19 18 33 19 19 18 33 19 19 18 33 19 15 16 16 18 33 19 15 16 16 16 16 16 16 16 16 16 16 16 16 16	nal causes		1	9	\$2				18					53	4 13	181							61	55	16			6 50	
221 221 17 19 18 33 19 19 19 16 16 16 16 16 16 16 16 16 16 16 16 16	efined diseases			9	1	:	-	:	=	4				:	:	933	13	:			_	20	ಣ	£-4	35	_		-71	
	rths (not included in				-					:					_	131	90	-:					1:0	-61	19			- 80	

**TABLE** Showing Total Deaths by Individual

								101				-3			
	CAUSES OF DEATH.	Total.	Algoma,	Brant.	Bruce.	Carleton,	Dufferin.	Elgin.	Еввех.	Frontenac.	Grey.	Haldimand.	Haliburton.	Halton.	Hastings.
	Grand Total	32,440	400	510	540	2,084	158	561	867	657	629	255	81	223	754
	T. Go and Borrows														
	I—General Diseases.  (A—Epidemic Diseases.)														
	Group Total	* 000													
	Group Total	7.288	90	92	114	519	43	129	180	164	138	58	7	48	151
1.	Typhoid Fever	358	14	4	7	20		2	10	11	7	2		5	5
	Malaria	1									1				
5. 6.	Smallpox	1 61	6	1	1						····i				
7.	Scarlet Fever Whooping Cough	111 196		1	3	22	1				1 8	2	1	2	1 7
9.	Diphtheria and Cronp	443	1		1 4	75	1	1 4	16	3	3	3		1	6
13.	Influenza	128 12	1	3	2	7		4	2	3	1			2	
14.	Dysentery Erysipelas	79 92	4		1	6 8		1	1 5	2	6	1			1 3
19.	Other epidemic diseases	10								• • • •					2
24.	Purulent infection and Septicæmia Tetanus	180 25	3	4	1	1		5	5	6	1			1	1
25. 26.	MycosesPellagra	1 3		• • • •				• • • •	••••	• • • •		••••	••••	••••	• • •
28.	Tuberculosis of the Lungs	1,982				133			52	44	29	18	3	13	36
30.	Acute Miliary Tuberculosis	149		4		12		1 4	2 2	2	1	1		2	4
31.	Abdominal Tuberculosis	105 10	1	1		9	1	2	1	3					1
33.	White Swelling				1	1						1			
35.	Disseminated Tuberculosis	7							3	2					
36. 37.	Rickets	24 38		• • • •		13		1	1	1			:	1	
38.	Gonococcus infection	2							••••			• • • •	••••		• • • •
	buccal cavity	113	1		2	4	3	2	2	1	3	4			2
	Cancer and other malignant Tumors of the stomach, liver	638	4	8	15	46	6	10	17	24	16	7		6	9
	Cancer and other malignant Tumors of the peritonæum, intestines, rectum	271	5	3	6	24	6	3	3	5	5	2			8
42.	Cancer and other malignant Tumors of the female genital organs	144	2	1	2	22		5	2	4	2			3	3
43.	Cancer and other malignant Tumors of the							i	- 1			2			Ü
44.	breast Cancer and other malignant Tumors of the	126	1	3	1	4	• • • • •		7	2	2	2			• • •
45.	skin	25	••••	• • • •	• • • •	1	••••	••••	1	••••	• • • •			••••	2
	organs and of organs not specified Other Tumors (Tumors of the female genital	565	1	8	3	21	3	19	14	16	11	3	••••	5	13
	organs excepted)	42				2				1		1			2 2
48.	Acute Articular Rheumatism	95 119	2	2	3	9 2	2	3	1 2	2	4	i	1	1	3 1
49. 50.	Diabetes	283 283	2	4	7	12	4	7	9	9	1 8	1	2	8	10
51.	Exophthalmic Goitre	102 14	4	2	-4	6	1	2	3	1	5	1		1	2
53.	Leucæmia	51	2		2				1	2	10				1
55.	Anæmia, Chlorosis	456 47	2	1	7	16 5	6	14	9	13		5			17
56. 57.	Alcoholism (acute or chronic)	89	1	2		3	1	2	2	1					3

No. 10, Diseases in each County, 1914.

_											_								4		,			,	<del>,</del>	_									
Harob.	Kenora.	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.	Timiskaming.	Thunder Bay.	Victoria.	Waterloo.	Welland.	Wellington.	Wentworth.	York,	Numbers.
589	143	700	560	461	720	208	536	73	1.267	188	296	322	704	495	532	272	243	522	459	609	225	115	568	,069	781	453	373	929	303	727	610	652	1,593	6,537	
	_			_	_	_	_	_	_			_			-	_	_		_	_	_	_	_		_	_			_	_		_		°	
126	31	160	125	105	172	43	101	16	318	56	42	54	135	122	129	55	55	123	113	156	51	31	125	222	181	91	132	50	73	206	112	144	339	1553	
3	1		6			2	6	4		1	5	5	12	5	4	7		6	6	20	1	3		11	5	25	14	11	4	9	11	6		44	1 3 4
2	1 1	3	1 1		2		 1		i 1	1	3	• •		• • •		1	22	5 4		1 6		3	 1	 i	19		2 6	2 1 1 2		3	i	i	8	8 31	5 6 7
2 1 6 1 3		19 7	3 10	3 7 2	2 4 3	3	3	3	24 2 2	1	4	2 1 2	11 7 1	8 1 3	5 1	5 2 2	3 3	4 1	7	21 1 1	3 1 1	1	12 6	22 1	8 2	9	1 5	2	2 1 1	5 29 9	4 1 4	5 2	21 21 2	40 96 23 4	1 3 4 5 6 7 8 9 10 13
3		1	2 1 6			1	1  1 3		2			1	6 3	• • • •	2 2	1		1 2		3	1	4	2	7 4	2	1 3	1 2		1	4	1	1 2 3	2 1 3 6	13 19 1	14 18 19
1	1	2	6	2	· · · · · · · · · · · · · · · · · · ·	2	3 1 	• •	11	2	1	1		5 2	6	1	1		5	2 	1	1	3 2	2	3	6	6	1		1	5		9	45 2 1	20 24
28		40	27 1 2	25 4	54	12	33	4	94	31	13	9	28	22	24	13	11	22 1 4	34	45 6 5	11	9	36	57 3 4	60	22	48 1 5	18	26	33	26 1 3	34	115	456 7 52	25 26 28 ~9
	2	1		3	1				3 1		2	3	95 22		3		1	2 1		2 1	• • •		4	4 5 1	2		4	1	1	4		5	2 3 * 5 1	22 2 2 2 3	*9 30 31 3 3
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4		2	3		8	2	5		10		1	1	2	 3			1	1	3		1				3		1			2	2	2	6	19	38
24	1	14	9	7	12	5	10		20	5	5	7	13	13	17	4	5	16	10	12	4	1	6	11			5	3	7	22	6	17	23	129	
3		5 4	2	1	2	2	2	• •	19 6	1		3	5	6	8		3	2	5	-	1		4	10	5	1	4	- 1	1 2	8	5	6	18	64 34	
3		2	5	3	2	1	3		7			1	3	4	2	1	5	1	2	• • • •	2		3	5	4	1				2	1	4	7	31	
10	4	20	11	9	15	4	10		38	3	3	4	7	10	1 15	8	3	13	16	4	10		7	15	14	2	6	3	9	17	5	13	25	115	
1 4		 i	1 2	1 1 3	2 1 1	1 2	 1 1	•	2 10	1 1	2	1	3 3	2 4	1 2		1	1 1 2	4	3	2		5 5	6 2 4	1	2	- 1		2 5		2	3 1 2	2 1 2	- 1	
3	1	5 3	5 2	3 6 3 12	10	1	1 1 2	1	-::	• •		3	7 2 1	6	6	2	2		3	4	5		8	7	9	il	2			iil.	8	5	18	8 26 20 1 43	49 50
2 9		1 5	13	12	4 15	3	10		24	-31			1 1 11	13	2 11 1	-1 <sup>T</sup> .	f	2 1 1 14	1 11	! !	5	3	1	3 .	3 2	1	2		:	3 15	3 1 9	12	1 2 13	23 7 11 70 17 31	52 53
•••		5	13		3		1		4			• •	1	1	1 2 1		2	1	1,	• • • [		2	1	18 2		3		i :			2	1 2	5	17 31	55 56 57

**TABLE** Showing Total Deaths by Individual

				Sno	WII	ıg	ota	ע וו	eat	hs	by I	Indi	ivid	ual
CAUSES OF DEATH.	Total.	Algoma.	Brant.	Bruce.	Carleton.	Dufferin.	Elgin.	Essex.	Frontenac.	Grey.	Haldimand.	Hali burton.	Halton.	Hastings,
II.—Diseases of the Nervous System and of the Organs of Special Sense.					-									
Group Total	3,504	31	65	75	166	17	70	89	88	74	29	11	24	102
60. Encephalitis 61. Simple Meningitis 62. Locomotor Ataxia 63. Other diseases of the spinal cord 64. Cerebral hæmorrhage, apoplexy 65. Softening of the brain 66. Paralysis without specified cause 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 75. Diseases of the eyes and their adnexa. 76. Diseases of the ears	29 426 45 103 1,306 47 558 58 106 125 23 497 16 23 125 5	15 3 1 1 1	1	21	38 2 2	1 5 1 5	1 7 30 2	1 2 4 8	5 82 3 17 4 5	1 3 20  11 2 6 2 1	3 2 14 1 5 1 	3 1 2 2 4 1 1	17	6 4 45 2 21 1 2 1  9 1 1 6
III Diseases of the Circulatory System.														
Group Total	4,216		80	78	215	31	-88	94		_	35	9	47	98
77. Pericarditis 78. Acute Endocarditis 79. Organic diseases of the heart 80. Angina Pectoris 81. Diseases of the Arteries, atheroma, aneurysm, etc 82. Embolism and Thrombosis 83. Diseases of the veins (varices, hæmorrhoids, phlebitis, etc.) 84. Diseases of the lymphatic system (lymphangitis, etc.) 85. Hæmorrhage; other diseases of the circulatory system	12	28 4 1	29 1 1	63 1 10 2	51	11	2	1 3 60 1 27 1	24 2 24 2	1 1 56 2 19 3	31	6 2 1	32 1 13	1 71 2 21 1 1 1
1VDiseases of the Respiratory System.														
Group Total  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  98. Other diseases of the respiratory system  (tuberculosis excepted)	3,468 3,468 45,6 225,5 307 493 2,009 109 109 7 111 4	40 1  6 3 2 28	63 -52 -53	1 1 1 4 1 42 6	1 2 2 12 15 30	1 2 5 3	61	119 	1	42 5 2	30 1 6 6 13 1	2 1 1 1	26 1 2 5 16	56 6 6 9 29 4
V.—DISEASES OF THE DIGESTIVE SYSTEM.  Group Total	3,002	53	62	35	285	8	24	68	36	49	9	4	11	73
99. Diseases of the Mouth and adnexa	13 38 10 85 271 1,215 149		6 10 17 2	1 7 2 2	2	 8 3 1	1 3 7	1	3 13 4	1 1 3 8 6 2	3	1	1	1 1 2 10 33 4
107. Intestinal Parasites 108. Appendicitis and typhilits 109. Hernias, Intestinal Obstructions. 110. Diseases of the Intestines. 111. Acute Yellow Atrophy of the Liver	283 283 248 140	4 3	3 4 4 1	6 7 1	28 19 11	1	3 2 1	8 7 1	2 5 1	8 4 1	1	1 1	1 1 1	? ?

No. 10.—Continued.

Diseases in each County, 1914—Continued.

Discases I	n caci	County,	1914-0	ontinucu.			
Huron. Kenora. Kent. Lambton.	Leeds and Grenville. Lennox and Addington.	Lincoln. Manitoulin. Middlesex.	Nipissing. Norfolk. Northumberland and Durham.	Ontario. Oxford. Parry Sound. Peel. Perth.	Preterborough.  Prescott and Russell. Prince Edward. Rainy River. Renfrew. Simcoe. Stormont, Dundas and Glengarry. Sudharv.	Thunder Bay. Timiskaming. Victoria. Waterloo.	Wellington. Wentworth. York.
54 14 80 55 1 2 2 4 5 9 1 21 7 32 28 1 21 7 32 28 2 1 3 3 2 5 2 9 3 5 2 9 3 5 9 3	52 99 26 4 8 3 3 2 3 3 2 2 1 1 26 38 11 1 1 6 18 8 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	2 3	67 72 19 34 49 1	3 2 6.	2 1 3 3 6 7 13 7 4 7 6 2 1 2 3 1 2 7 6 14 30 28 4 1 1 12 11 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	77 \$14 706    3 2 60    5 28 89 61    1 3 4 62    4 14 63    23 67 253 64    1 6 6 66    1 7 23 67    23 68 86 1 12 22 69    1 8 70    1 2 34 111 71    1 1 4 72    2 73 7 21 74    75    76
97 9 91 65 2 1 60 4 66 43 7 28 5 15 14 1 3	71 144 38 88 22 1 2 50 8 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 19 42 69 1 1 2	67 70 34 25 86 	2 1 3 1 3 6	8 39 20 33 76 92 1 1	88 233 830 10 77 10 77 10 10 77 10 10 10 79 10 10 10 10 10 10 10 10 10 10 10 10 10
	25 30 1 1 4 . 3 1 . 	3	1 6 2 3 13 2 2 3 13 3 7 2 13 6 13 30 2 2 1 3 1 2 2 1 3 1 2 2 1 3 1 2 2 1 1 3 1 1 2 2 1 1 1 1		1 2 5 1 5 14 1 5 8 4 5 6 3 1 9 10 7 2 4 8 121 19 37 11 8 32 59 39 2 10 1 1 2 2 1 9 1 3 3 1 1 1 1 2 6 1 1 1 1 2		61 174 7777
	7 6 11 13 3 2 4 3 1 2 2		2	2	9 1 1 6 11 2 13 62 3 2 16 25 2 4 5 1 5 8 7	1	1 9 100 3 1 101 4 6 13 102 3 14 60 103 11 66 294 104 2 8 27 105 1 107 7 9 5 51 108

# TABLE Showing Total Deaths by Individual

				She	owi	ng '	Tota	al D	eat	hs	by	Ind	ivid	ual
CAUSES OF DEATH.	Total.	Algoma,	Brant.	Bruce.	Carleton.	Dufferin.	Elgin.	Essex.	Frontenac.	Grey.	Haldimand.	Haliburton.	Halton.	Hastings,
V.—DISEASES OF THE DIGESTIVE SYSTEM—Con.  113. Cirrhosis 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).	157 15 245	1	6	3 2 2	13		5	1 9	3	ł	2	1	1	2 4 5 1
VI.—Non-Venereal Diseases of the Genito- Urinary System and Adnexa.  Group total	1,505			2	18	-	3	3		30			10	23
120. Bright's Disease. 122. Other diseases of the Kidneys and Adnexa. 123. Calculi of the Urinary Passages. 124. Diseases of the Bladder 125. Diseases of the Urethra, Urinary Abscess, etc. 126. Diseases of the Prostate. 129. 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.	102 18 21 18	2	1	2 2 1	3 3 1		2 2	2 2 1 1	2	21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 3		1	11 1 1 1 
VII.—The Puerperal State.	<b>3</b> 39	4	5	3	11	2	1	7	5	10	3			8
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, Sudden Death 140. Following Childbirth (not otherwise defined)	49 17 55 144 71 2	1 2 1	1 1 1 2	1 1 1			1	2 1 4	1 2 	1 3 2 4	1			1 1 4 2
VIII.—Diseases of the Skin and of the Cellular Tissue														
Group total	243 144 10 72 17	1		1		1	3	7 1 2 1	3	5			1 1 1	5
IX.—Diseases of the Bones and of the Organs of Locomotion.														
Group total	31			1 1	-		1							1
X.—Malformations.														
Group total	176	1	1	5	15		4	4	2	5				7

No. 10.—Continued.

Diseases in each County, 1914—Continued.

	-	30.	> 1	_			-		.,					LUIL		-										_								_
Haron,	Kent.	Tempton		Landin	Leeds and Archylle.	Lincoln.	Manitoulin.	Middlesex.	Muskoka.	Nipissing.	Norfolk.	Northumberland and Durham.	Ontario.	Oxford.	Parry Sound.	Pael.	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.	Numbers,
3			3	1 4 1	2	4		6 7	1	1 1 1	3	6	2 4	5	2 4	2	4	6 2 1 4	4 1	1	1 1 1	 2 1 6 	111 8	4  9	1 1 3	2 .3 1 3	3 1 8	1	3 11 6	99 . 22 . 99	2 7	3 11	ລຸຄ	113 114 115 116 117
33 2 3 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 1	6 3	3 1 2 1	32	40 11 4 28 11	0 1	-1-	4 51 7 	1 2	5	-	42 1 33 2  4 1 1		_	ii	12 1 8 1 1 2 2 1 1 2 1 1 1 1 1 1 1 1 1 1	36 4 26 1 2 3	15 2 7 1  1 2  2	21 3 15 3	13-11011	2 1 1 1	19 4 11 1 2  1	53 8 37 1 1  3 2 1	42 6 30 2 1 1	-	27 7 15 4 	-		8 24 2 1 1 5 1 · · · · · · · · · · · · · · · ·	25 19 11 1	50 3 33 4 2 6 1	73 6 55 3 . 1 	188 14 8 4 2 15 2 7 5	119- 120- 122- 123- 124- 125- 126- 129- 130- 131- 132-
5 5 5 1	. -	1 1 2	2	7 - 1 - 1 - 1 - 4	4	1	. .	1 4 1 3	- :: :: 1	7  1 1 4 1	-	2  1 1	-4 -1 1 1 1	3 2	_	2 1 1	6 1  2		8 1 1 3 3			10 1  1 7 1	22 4 1 3 8 5	11  1 8 2	2 4 3		3	1	10 1 1 1 4 3		3 1  1 	3 1  9 4	86 10 3 14 41 17	134 155 136 137 138
2.	21	0 6		2 1	2.	-	3	12 7		1	2 2	8 5	6	10	2 2	3	1	2	3	3 2		5 3	12 9	-7 -5 -1 -1	1 1	4 2 . 2	2		7 6	3	5 3 2	15 10 1 3 1	42 20 2 18 2	142: 143: 144: 145:
		1		-1-		•	1		1			1 1 			F	2		1			:-:		1	-		•	•••			•••		1 		146: 147
3	1	2	- -	2.	<u> -</u>	- -	2	5	1	1		3		1	-	3		_	 			1	10	ő		4	_	3	···	2		15	47	150

TABLE
Showing Total Deaths by Individual

				Sh	10W	ing	Tot	al [	Dear	ths	by	Indi	ivid	ual
CAUSES OF DRATH.	Total.	Algoma.	Brant.	Bruce.	Carleton.	Dufferin.	Blgin.	Безех.	Frontenac.	Grey.	Haldimand.	Haliburton.	Halton.	Hastinge,
XIDiseases of Early Infancy.														
Group total	3,510	54	37	41	319	14	32	111	64	52	24	12	20	52
151. Congenital Debility, Icterus, and Sclerema 152. Other Diseases peculiar to Early Infancy 153. Lack of Care	3,452 50	52	35	40	314	13,		111	64	52	23	12	20	52
154. XII.—OLD AGE.  Group total	2,787	38	63	67	112	15	75	72	54	100	31	21	21	114
XIII. APPECTIONS PRODUCED BY EXTERNAL CAUSES.														
Group Total	1,896	41	31	18	85	- 8	29	47	35	35	15	7	_13	56
155. Suicide by poison	60 2 31 7 23 14 15 5 82 22 176	2	1 2		1 1 2 1	1	2	····	1		2	1	1	1 1 1 1 1 1  5
169. Accidental Drowning	347 63 4 82		1	2	5	1		2		2		4		11 1
172. Traumatism by fall 173. Traumatism in mines and quarries. 174. Traumatism by machines. 175. Traumatism by other crushing (vehicles, railroad, landslides, etc.). 176. Injuries by animals	27 22		1 1	1			1		• • • •	1				10
176. Injuries by adimais 177. Starvation 178. Excessive cold. 179. Beffects of heat. 180. Lightning 181. Electricity (Lightning excepted). 182. Homicide by firearms 183. Homicide by cutting or piercing instruments 184. Homicide by other means. 185. Fractures (cause not specified). 186. Other external violence.	78 14 4 35 9	1			1	2	1	6	2	1			1	3
XIV.—ILL-DEFINED DISEASES.  Group Total	486		6		35		9				4			7
187. Ill-defined organic disease	14 103 369		1 5		15 18		1 8	5 8		1 10	2			2 5
Still-Births.  Not included in Totals	2,745	40	38	60	163	7	32	69	25	54	10	14	21	53

No. 10.—Concluded.

Diseases in each County, 1914.—Concluded.

	_										-	_		,			-				_														
Haron.	Kenora	Kent.	Lambton.	Lanark	Leeds and Grenville.	Lennox and Addington.	Lincoln.	Manitoulin.	Middlesex.	Muskoka,	Nipissing.	Norfolk.	Northumberland and Durham.	Ontario.	Oxford.	Parry Sound.	Peel.	Perth.	Peterbotongh.	Prescott and Enssell.	Prince Edward.	Rainy River.	Renfrew.	Simcoe.	Stormont, Dundas and Glengarry.	Sudbury.	Thunder Bay.	Timiskaming.	Victoria.	Waterloo.	Welland.	Wellington.	Wentworth.	York.	Nambers.
39	-	62	41	39 	37	10	55	9	87	18 18	79 79		48 47	45	35	32	-	40	46	112	-	-	55	110	61 59	93	82	100 99 1		81 77	74 71 1 2		172 167	831	151 152 153
88	1	56	64	54	74	30	54	8	96	22	15	31	119	46	53	18	30	65	34	63	39	7	68	120	110	10	6	5	33	61	42	90	101	291	154
21	1	1	40 2  1  1	18	36 2 1 1 1 1 1 1 1	1	555		1 2 2 2 1	18	25	17	32	29 2 1 1 1 5	26 1 1 1 1 1 1 3	1		19	31	28	7	10	34	56 1  1  3 2 8	30	65	82 2 2 1 1 1 1 2	1 2 1 3	25	30	69	28 2 1 1 2 2 3	73 2 4 1 1 1 7 5	1 5 4 1	155 156 157 158 159 160 163 164 165 166
1	3	4	3	 4 2  1	7	1 1	18		1	12	 4  1 1	1	4 1	1 5 	1 2	8 2	3	1 1	5 1  1	····2 1 ····2 2			7 6 	14 2	7 1	4 16 2  2 5	11 9	10 2  1 4 2	2 1	3 1	3	5	2 6 1 2 2	30 5 1 11 11	170 171 172 173
7	8	1 1 1	6 1	3 1 1 2 1	3	1 1	4  1 1 2 2  10 5		13 2  10 6	2 1 2	1 7 1 3 3 3	1 1 1 	8 1 5 3	1 1 1 1 1	4 1 1 	1 1	5 2 2 1	1 1 1 2	1 1 1 4 6	6 3 2 2 5	1 1	3	5	3 2 1  1  9 7	1 6  1 1 1  1 3 7	10	10 10 10 10 10 10 10 10 10 10 10 10 10 1	1 1 1 6 -	1 1	3 1	1 10 1 3 5 2	5 1	10 2 2 11 14	54 1 1 4 1	174 175 176 177 178 179 180 181 182 183 184 185
1 1 1 4	-	1 2	2 1 •••	10  5 5		1	8 5 3	-	.14 1 1 12			٤.	7  3 4	4 ···2 2	3	5 1 4	3 1	7  3 4	5 1 4	20	4 1 1 2	3	26	11 	8	10	65	5 2 3	4	5 1 4	14 2 3 9	7 2 5	20 5 15	64 2 14 48	187 188 189
28	6	46	48	22	29	ă	55	4	68	28	40	20	56	35	39	31	18	39	45	19	20	10	54	77	27	42	4	66	16	54	49	36	181	812	

TABLE No. 11.

Table Showing Total Deaths by Individual Diseases in each City.—1914.

OFFICIAL ENGLISH TRANSLATION. (Diseases and Causes of Death.)	Total,	Belleville.	Borlin.	Brantford	Chatham.	Fort William.	Guelph.	Hamilton.	Kingston.	London.	Ningara Palls.	Ottawa.	Peterborough.	Port Arthur.	St. Catharines.	St. Thomas.	Sarnia.	Strafford.	Toronto.	Windsor.	Woodstock.
Grand Total	12,853	140	211	281	230	311	200	1,158	372	802	140	1,697	254	215	243	218	156	165	5.602	316	124
1.—General Diseases.																	_				
Group Total	2,970	33	66	50	56	56	42	258	90	218	31	434	70	57	49	61	40	34	1236	63	26
1. Typhoid Fever. 3. Relapsing fever. 6. Measles 7. Scarlet Fever 8. Whooping Cough 9. Diphtheria and Croup. 10. Influenza 11. Cholera Nostras 12. Cholera Nostras 13. Cholera Nostras 14. Dysentery 15. Erysipelas 16. Other Epidemic Diseases. 17. Other Epidemic Diseases. 18. Persipelas 19. Other Epidemic Diseases. 19. Purluent Infection and Septicæmia 19. Persipelas 10. Purluent Infection and Septicæmia 10. Purluent Infection and Septicæmia 10. Purluent Infection and Septicæmia 11. Abdominal Tuberculosis 12. Potr's Disease 13. White Swelling 14. Tuberculosis of other Organs 15. Dissemimated tuberculos is 16. Rickets 17. Syphilis 18. Gonococcus infection 19. Cancer and other Malignant Tumors of the Stomach, Liver 19. Cancer and other Malignant Tumors of the Peritonæum, Intestines, Rectum 19. Cancer and other Malignant Tumors of the Pemale Genital Organs 19. Cancer and other Malignant Tumors of the Female Genital Organs. 19. Cancer and other Malignant Tumors of the Stomach, Liver 19. Cancer and other Malignant Tumors of the Premale Genital Organs. 19. Cancer and other Malignant Tumors of the Stomach, Liver 19. Cancer and other Malignant Tumors of the Premale Genital Organs. 19. Cancer and other Malignant Tumors of the Premale Genital Organs. 10. Cancer and other Malignant Tumors of the Premale Genital Organs on the Skin Cancer and other Malignant Tumors of the Premale Genital Organs and organs not specified 19. Cancer and other Malignant Tumors of the Skin Cancer and other Malignant Tumors of the Premale Genital Organs and Scancer and Organs and Scancer and Other Malignant Tumors of the Skin Cancer and other Malignant Tumors of the Premale Genital Organs and Scancer and Other Malignant Tumors of the Skin Cancer and Other Malignant Tumors of the Premale Genital Organs and Scancer and Other Malignant Tumors of the Premale Genital Organs of the General Other Malignant Tumors of the Other Other Additional Tumo	258 136 85 56 11	1 1 1 1 1 1 1 2 1 1 1 2	1 24 3 · · · · · · · · · · · · · · · · · ·	3	1 6 3 41	3	· · · · · · · · · · · · · · · · · · ·	2 3 3 3 3 4 4 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	244 1 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2	18 144 68 65 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		24 . 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		1 1 8 27 8 11 11 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	1 5 1 12 1 2 1 2 1	2 2 4
II.—Diseases of the Nervous Sistem and of the Organs of Special Sense.										j											
Group Total		22				-	50	125	-	79	15	133	?5 —	-		29	11	14	589	29	19
60. Encephalitis. 61. Simple meningitis. 62. Locomotor ataxia. 63. O her diseases of the spinal cord. 64. Cerebal hamornhage, apoplexy. 65. Softening of the brain. 66. Paralysis without specified cause.	14 189 16 28 465 10 167	**	1 1 8 1	2	3	1 10  2	5	48	21,	31	8	3 4	11	3	12	13	5	3	2 77 1 12 217 6 69	6	3

### TABLE No. 11-Continued.

		-0																		_	
OFFICIAL ENGLISH TRANSLATION. (Diseases and Causes of Death.)	Total.	Belleville.	Berlin.	Brantford.	Chatham.	Fort William.	Quelph.	Hamilton.	Kingston.	London.	Niagara Falls.	Ottawa.	Peterborough.	Port Arthur.	St. Catharines.	St. Thomas.	Sarnia.	Stratford.	Toronto.	Windsor.	Weodstock.
11Diseases of the Nervous System and of the Organs of Special SenseContinued.														1			l				
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. 76. Diseases of the Ears	31 9	1	1	1	1	Š	5	1 4 1 25	3	5		2 3 3 2 1 6		1 3	3	1	• • • • • • • • • • • • • • • • • • • •	3	21 14 8 111 3		1
IIIDiseases of the Circulatory System.																		Α			
Group Total	1,666	1—	-	-	_	-	-		-		-	172	-	-	-	-		-	737	41	15
77. Pericarditis 78. Acute Endocarditis. 79. Organic Diseases of the Heart 80. Angina Pectoris. 81. Diseases of the Arteries, Atheroma, Aneurysm.	11	5.5	15	23	27	14	14	116 2	43	65	13	119	50	13	33	29	6	15	436 19		11
etc	456	3	2		1		1	30	1	2	1	- 0	3			• • •	٠.	1		11	
Phlebitis, etc.).  84. Diseases of the Lymphatic System (Lymphangitis, etc.)	13	1		1							22	4	1					• •		1	• •
85. Hæmorrhage; other Diseases of the Circulatory System		1																1			
IV.—Diseases of the Respiratory System.		Γ															П			ł	
Group Total	1.481	11	17	34	3	17	27	142	33	89	12	169	17	23	17	19	15	12	706	45	13
86. Diseases of the nasal fossæ 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. Pulmolary emphysema 98. Other Diseases of the Respiratory System (tuber-culosis excepted)	16 3 94 116 261 865 33 39 4 32	2 1 11	1 6 2	1 1 4 . 6	3 3 1 2 2 2	1 6 4 12 20 1 1 1	6 19	5	1 4 26 1	2 8 11 6	1 1 2 7	2 7 12 26 102	1 13	1 1 3 16 2	1 1 2 2	i	1 1 . 7 . 3 9	2	52 57 148 389 12 13 1	2 2 11 22 4	··· 2 ··· 8 ··· 1 ··· 1
V.—DISEASES OF THE DIGESTIVE SYSTEM.																					
Group Total	1,408	10	18	43	29	65	16	120	27	69	9	229	35	35		10		20	591	33	11
99. Diseases of the Mouth and Adnexa. 100. Diseases of the Pharynx. 101. Diseases of the Desophagus. 102. Ulcer of the Stomach. 103. Other Diseases of the Stomach (cancer excepted). 104. Diarrhoa and Enteritis (under 2 years). 105. Diarrhoa and Enteritis (2 years and over). 107. Intestinal parasites 108. Appendicitis and Typhlitis. 109. Hernias, Intestinal Obstructions. 110. Diseases of the Intestines. 111. Acute yellow atrophy of the liver. 113. Cirrhosis 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).	20 3 38 98 633 51 1 123 123 81 4 50 1 19	1	311111111111111111111111111111111111111	1 3 4	3 3 2	1 1 2	1 ?	19 6	2 4 1 1 2	6 10 5	1 1	1 3 5 11 124 10 26 15 10 16 6	2	3 2	1 5 3	2	3	1 5 1	48 49 38 31 1 24 1 51	11	3 1 1

# TABLE No. 11.—Continued.

	ſ	_			-	1	1	1	ſ	i	1	1	ſ	1	-	7	1	1	[	1	7
OFFICIAL ENGLISH TRANSLATION. (DISEASES AND CAUSES OF DEATH.)	Total.	Relleville	Berlin.	Brantford	Chatham.	Fort William.	Guelph.	Hamilton.	Kingston.	London.	Niagara Falla.	Ottawa.	Peterborough.	Port Arthur.	St. Catharines.	St. Thomas.	Sarnia	Stratford.	Toronto.	Windsor.	Woodstock.
VINon-Venereal Diseases of the Genito-	1	İ	İ	<u>-</u>	1		ĺ				-		ĺ	İ	Ť	ĺ	İ	İ		Ţ	Ĺ
URINARY SYSTEM AND ADNEXA.  Group Total	. 619		118		10	11	17	59	17	41	4	70	8	1.5	1.9	111	15	119	259	99	10
119. Acute Nephritis	. 88 402		2 9		1 1	6	1 10	6 42	15	29	2 2	15	2	1	1	11	1 1 2	8	38 168	2 16	4 3
123. Calculi of the Urinary Passages	. 8	::		1	1				1			1			1			1	4		
124. Diseases of the Bladder	. 4	:	2				4	5	1				. 1	١.,	١.,		1	1 2	2		
129. Uterine Tumor (non-Cancerous)	. 10	-		1.	1 3			1				1					1		2 7	1 1	
131. Cysts and other Tumors of the Ovary	. 19	ŀ·						1					1						5	••	•••
Genital Organs	4		١٠٠					• • • •				1						• •	••••		1
cepted)	2	-	-	-	-	-	-		-		-		-	-	-		-	-			
VII.—THE PUERPERAL STATE.																					
Group Total	147	1			1	6	2		<u> </u> -			10		-	1		-	2		-	•••
134. Accidents of Pregnancy	. 8	   i	1			1	1	3	1	1			::						10 3		• •
136. Other Accidents of Labor	66	ļ::	1	2		3		6			1 1	, E	1	1 4				1	40	1 2	
138. Puerperal Albuminuria and Convulsions	27	ļ	1	• •				3	1		1			İ	1	••	• •	1			••
Sudden Death		ŀ	-		-	-	-		_		-			-	-	-	-		1	-	
VIII.—DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE.																					
Group Total	97	<u></u>	_	1		_	1	9	3	11			1	-	_	2	3	1	36	3	2
142. Gangrene	53 5		2	1			1	1	3			7		2		2			2		
144. Acute Abscess	35 4	 	 		1	1		2	::				1		i	···	1	::	15	2	···
IX.—Diseases of the Bones and of the Organs of Locomotion.																					
Group Total	21		• •	• •	• •			1	• •				1	1	1	1		···	8		1
146. Diseases of the Bones (tuberculosis excepted) 147. Diseases of the Joints (tuberculosis and rheu-	20			٠.		••	• •	1	• •	1	• •	- 7	1	٠.	1	1			7	٠.	1
matism excepted)	1	<u></u>	<u></u>	•	-:			••••	•••	••••		••••	<u></u>						1		•••
X.—MALFORMATIONS.									Ì												
Group Total	74	1				1		12	2	3		12		3	1	1			37	1	
150. Congenital malformations (stillbirths not included)	74	1				1		12	2	3		12		3	1	1			37	1	
XIDiseases of Early Infanot.										_							-				
Group Total	1,606	7	27	20	2)	38	18	148	43	59	15	274	25	19	37	16	15	20	757	41	7
<ul> <li>151. Congenital Debility, Icterus and Sclerema</li> <li>152. Other Diseases peculiar to Early Infancy</li> <li>153. Lack of Care</li> </ul>	1,578 4 24	7	•:		20	38	17		43	59	14	£69 5		19	36 1	• •	••	20		٠. ٠	7
154. XII.—OLD AGE.			-	-	-	-			- -						-	-		-		- -	
Gronp Total	644	16	17	26	8	2	24	52	18	54	13	71	15	2	12	32	11	17	229 1	15	7
		-	-)	-	-				-)-		-		-1		-	-j	—j	j		- -	

# TABLE No. 11.—Concluded.

OFFICIAL ENGLISH TRANSLATION. (DISRASES AND CAUSES OF DEATH.)	Total.	Belleville,	Berlin.	Brantford.	Chatham.	Fort William.	Guelph.	Hamilton.	Kingston.	London.	Niagara Falls.	Ottawa.	Peterborough.	Port Arthur.	St. Catharines.	St. Thomas.	Sarnia.	Stratford.	Toronto.	Windsor.	Woodstock.
XIII.—Affections Produced by External Causes.																					
Group Total	670	12	6	12	14	33	13	47	24	31	.17	7:0	8	39	31	10	16	10	279	13	3
155. Suicide by Poison 156. Suicide by Asphyxia 157. Suicide by Ilanging or Strangulation 158. Suicide by Prowning 159. Suicide by Firearms 160. Suicide by Firearms 161. Other Suicides 165. Other Acute Poisonings. 166. Other Suicides 167. Other Suicides 168. Absorption of Deleterious Gases (conflagration excepted) 168. Absorption of Deleterious Gases (conflagration excepted) 169. Accidental Drowning 170. Traumatism by Firearms 171. Traumatism by Firearms 171. Traumatism by Fall 173. Traumatism by Machines 174. Traumatism by Mother Crushing (vehicles, railroad, landslides, etc.) 175. Traumatism by Other Crushing (vehicles, railroad, landslides, etc.) 176. Injuries by Animals 178. Excessive Cold 179. Effects of Heat 181. Electricity (lightning excepted) 182. Homicide by Firearms	2 11 75 29 1 71 24 78 18 3 29 4 1 106 4 3 4	1 5	1 1 1	2 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 1	7 5.4 	1 2 3	1 1 4 2 3 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 · · · · · · · · · · · · · · · · · · ·	3	6 4	33 66 64 44 22 23 23 23 23 23 23 23 23 23 23 23 23	1	1 1 1 1 1 1 1 5 5 2 1 3 1 5	1	3	2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16 1 36 2 20 3 1 1: 40 1 1 1 1 3	1	2
184. Homicide by other means	1 119	1:			5	4	1 .						!		1 .			1	55	il	
186. Other External Violence	81					6	3	9	5	4	1	1:	2	1		8	3		32		
XIV.—ILL-DEFINED DISEASES.																					
Group Total	149	2	2	5	3	2 -	3 -	13		11	-		2	-	-	- -	- -		51	6	۰
187. III-Defined Organic Disease	35 107	1 1	2	1 4	1 2	2	3	4 9			1	11 16	• • • • • • • • • • • • • • • • • • • •		3			1	11 44		•
STILL-BIRTHS.			1																		
Not included in totals	1,384	14	18	38	19	1()1	ó	144	18	45	11	126	23 5	38	i	- 1	2 3	. :	725	23 1	0
				-			_		_				-								-

#### TABLE No. 12.

38

# Table Showing!Total Deaths by Individual Diseases in each Town of 5,000 population, 1914.

OFFICIAL ENGLISH TRANSLATION. (DISEASES AND CAUSES OF DEATH.)	Total.	Barrie.	Brockville.	Cobalt.	Cobourg,	Collingwood	Cornwall.	Ingrapoli	enora.	Lindsay.	North Bay.	Orillia.	Oshawa,	Owen Sound.	Pembroke.	Port Hope.	Sault Ste. Marie.	Smith's Falls.	Sudbury	Welland.
}	T	=	9	0,0	9	0	00	7	-1-	H	Z	0	0	0	ы	-G	00	Ω2	00	=
Grand Total	2,481	104	173	111	105	93	158	71	102	66	146	95	92	138	152	63	198	98	263	93
IGENERAL DISEASES.			-		- -		- -	- -	-		-									
Group Total	563	24	55	12 5	21 3	21 8	31 3	5 3	3 25	3 26	.24	50	18	33	37	13	57	21	56	19
1. Typhoid Fever	76		7	4	3	3.	2	•5	2 1	3	3	1	1	.3	4		11		-53	3
6. Measles	9																	• • • •		1
7. Scarlet Fever	17	i			3			.)				1	2	3			1	1		i
9. Diphtheria and Croup	20	3	1		الو	1	1.	:	2 .	. 1	1				3		1	3	3	
10. Influenza	3 1			::	1 .	1 .		1												
14. Dysentery		1				٠.١				. 1	- 0			,	1			2		;
18. Erysipelas	14		1	• •	1			1.		. 1	-2	1				1	1	• • • •	2	1
19. Other Epidemic Diseases	-5()	ļ					1.		1 .		2		2		-5		5	4	6	
24. Tetanus	1		٠.	1 .		٠.	٠.'٠	٠.			٠.									• • •
26. Pellagra	148	6	16	4	6	5	11	1.	8	9 9	5	5	3	····s	12	3	17	7	7	3
29. Acute Miliary Tuberculosis	5					1		1.			1		3						1	1
30. Tuberculous Meningitis	11	1:	• •	• • •	• • •	• •	5.	٠.	٠.			1		• • • •	• • • •	1				S
31. Abdominal Tuberculosis	6	1						1 .				1							1	
36. Rickets	-5	1									. 1								1	
37. Syphifis	-2				• •	• •														•••
of the Buccal Cavity	6	1	?				!	1.					1	. 1						
40. Cancer and other Malignant Tumors of the Stomach, Liver	38	1	-1		1	1	2	G	0)	1 1	2		-2	6	1	8	1	1		1
41. Cancer and other Malignant Tumors of	0.	1			1										ĵ			1		
the Peritonæum, intestines, rectum.	.5.†	1	2		1	-)	1	1	3 .			2	1	.2	.)	1	5		1	• • •
42. Cancer and other Malignant Tumors of the Female Genital Organs	4										1			1			1			1
43. Cancer and other Malignant Tumors	0					.)														
of the Breast 44. Cancer and other Malignant Tumors	6	1	٠.	•	• •	-							1		1				1	
of the Skin	2												1		1					
45. Cancer and other Malignant Tumors																				
of other Organs and of Organs not Specified	34	2	6	1	1	1	1	1	-1	4 :	5 1			1	1	1		9	1	1
46. Other Tumors (Tumer of the female		1.				6)					1							1	1	
genital organ excepted)		1.	1		1	1	1				 !		1		4		1			
48. Chronic Rheumatism and Gout	9	1		!		1	.:	4.		. :	١.,		2	1	1					
50. Diabetes 51. Exophthalmic Goitre	16	1::	0		* *	::	1	Ĭ.	~ .	: :			73	1 2	1		3		1	1
53. Leucæmia	3												1			1	1			
54. Anemia, Chlorosis		-3	3		5)	1	1	4 .	٠	. :	3		1	,	2		2			1
55. Other general diseases		1	3				::			4.									3	1
			-	-	-	_	-		-					_						
IIDISEASES OF THE NERVOUS SYSTEM																				
AND OF THE ORGANS OF SPECIAL SENSE.																				1
Group Total	235	18	21	ă	16	10	14	18	5 1	211	4 13	3 1	9	13	18	11	13	3 -	1.1	7
	-	- -	-	-	_		-			- -			-	-	-		_	_		
60. Encephalitis											11 3			1					• • •	
61. Simple Meningitis	•)										1								1	
63. Other Diseases of the Spinal Cord	11	1			1	1	1	1			2 1	1 :	3	200					2	1
64. Cerebral Ilamorrhage, Apoplexy 65. Softening of the Brain	. 4		1		1						1					. 1				
66. Paralysis without Specified Cause	. 31	1 :			1	- 1		6	->		1		1 3			3 2			1 2	2
67. General Paralysis of the insane 68. Other forms of Mental Alienation	1 5				• •											1	1			
69 Epitepsy						1														
70. Convulsions (non-puerperal)	*)				1	1		0 0		•)	310								6	1
72. Chores								1					1 1	. 1						1
73. Neurulgua and Neuritis	. 5	1		. 1	1 1	- 1							2 1							
74. Other Diseases of the Nervous System	1 10					1	1						1	1 ^					1	

# TABLE No. 12—Continued.

	ADL				_	_	_			110											
OFFICIAL ENGLISH TRANSLATION. (DISEASES AND CAUSES OF DEATH.)	Total.	Barrie.	Brock ville.	Cobalt.	Cobourg.	Collingwood.	Cornwall.	Galt.	Ingersoll.	Kenora.	Lindsay.	North Bay.	Orillia.	Oshawa.	Owen Sound.	Pembroke.	Port Hope.	Sault Ste. Marie.	Smith's Falls.	Sudbury.	Welland.
III DISEASES OF THE CIROULATORY																					
System.  Group Total	360	15	<b>3</b> 9	8	1-4	9	19	16	7	8	12	8	11	15	18	17	11	9	12	8	14
77. Pericarditis	2 3 181 11 59 1	3	10		3	2	1		4	3	3	3		4	5	19	*)		5	1	12
IV.—DISEASES OF THE RESPIRATORY SYSTEM.	242																	18		28	
Group Total		18	18	13	10	-	20	-	10	3	-	19	8		-21						
87. Diseases of the Larynx	17	3 1 1 3 1	3 1 1 7 3	1 8	36	4	1 2 3 11 1	2 5	i 9	3	1 2 2	1 15 1	2 6	1 2 6 1	5 11 1	2	1 2 2	2 14	1 3 4	5 16 1	2 2 2 5
Apoplexy 95. Gangrene of the lung. 96. Asthma. 98. Other Diseases of the Respiratory System (Tuberculosis excepted)	5 2 9	2	• •	• •			2	i		::	1		• • • •	• • • •	2	1					2
V.—DISEASES OF THE DIGESTIVE SYSTEM																					
Group Total	284	5	11	17	10	9	19	13	6	19	-	2S —	- 8	4	10	26			14	47	9
99. Diseases of the mouth and adnexa 100. Diseases of the phary nx 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	14 126	i	1	12	1 3		1 3	1 4	1	15	1 1	3 18	2		1	1  2 9		12	2. 4	28	
over.)	13 35 22	1	1	2		2 2	05 60 50	5 1		1		1 2	3 2			8		2 1 1	1 1	9 3	1
110. Diseases of the Intestines. 113. Cirrhosis of the Liver. 115. Other Diseases of the Liver. 116. Diseases of the Spleen 117. Simple Peritonitis (Non-puerperal)	12 11 14 2 25		1 1 6	1 1 1	2 2	1	2 1 5	••	::	2 1		1 2	1	 i	1 2	2 8	1	 1	12	2 1 1 1 1	2
118. Other diseases of the digestive system (cancer and tuberculosis excepted).																					
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																		!			
Group Total		1-	-	_	-	-	-	-	-	-	-	-	5		_		_		-		-
119. Acute Nephritis	55	3	4		6	3	ă	5 27	5		3			1	2		2	4	• • • •	4	
Adnexa.  123. Calculi of the Urinary Passages	5 3	1 1		1	i 1	5	1							1							
VII.—THE PUERPERAL STATE.							1	- 60					3					2	1	9	4
Group Total	41	-		1	• •	-3	-	-0	2	-2	1	3	-		1		• • • •				-
134. Accidents of pregnancy. 135. Puerperal hæmorrhage. 136. Other accidents of labor. 137. Puerperal septicæmia. 138. Puerperal albuminuria and convulsions. 140. Following childbirth (not otherwise	2 5 20 8	1		i	1		1 5	1		2			1	1					····i		
defined)	1	1											1								

# TABLE No. 12-Concluded.

						d.									nd.	1		Marie.	ills.		_
OFFICIAL ENGLISH TRANSLATION. (DISEASES AND CAUSES OF DEATH.)	Total.	Barrie.	Brockville.	Cobalt.	Cobourg.	Collingwoo	Cornwall.	Galt.	Ingersoll.	Kenora.	Lindsay.	North Bay.	Orillia.	Oshawa.	Owen Sound.	Ретргоке.	Port Hope.	Sault Ste. Marie	Smith's Falls.	Sudbury.	Welland.
VIII.—DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE.  Group Total	19	1	-				-	-		_	1					1	1	1	2	1	1
142. Gangrene	11 6 2	1	::	::	::	1	::		::	2	1		2		]	1 	1	1	<u>1</u>		 i
IX.—Diseases of the Bones and of the Organs of Locomotion.  Group Total	1												1								
146. Diseases of the Bones (tuberculosis excepted)	1								-	-	-		1								
X -Malformations.																					
Group Total	12			1	1	1			<u></u>	··		1	1	1		1	1	1	1		1
150. Congenital malformations ( - births not included)	12	1		_1	1	1	-:	-				1	1	1		1	_1	1	1		1
XIDiseases of Early Infanor.					,		40					34						25	40	40	1.4
Group Total	308	15	10	+1		9	1.5	11	-2	10	11	24		15	-16			27	13	42	14
i51. Congenital Debility, Icterus and Sclerema	304	13	115	41	2	9	12	15	. 2	16	11	24	6	15	16	15	4	26	13	42	13
fancy	3			-			-	2										1			
154. XIIOLD AGE.			ķ.							l											
Group Total	173	13	7	1 2	19	8	23	16	6		9	4	9	6	12	11	9	1:	3	-5	
XIII.—Affections Produced by External Causes.			l						1	h											
Group Total	214		10	8	4	î	5	-1	-	-	-		-					23	2	- 50	9
155. Suicide by Poison	1 3	1.	i		i										1					1	
struments 165. Other Acute Poisonings 166. Conflagration	2 7 1 13								::	1 2	1			· · · · · · · · · · · · · · · · · · ·	2	2					
flagration excepted)  169. Accidental Drowning  170. Traumatism by Firearms  171. Traumatism by cutting or piercing	6 46 10		. 1		i	1 1	1 1	i	1	1 4		8	1	1				10	1	10	2
instruments 172. Traumatism by Fall 173. Traumatism in mines and quarries 174. Traumatism by machines 175. Traumatism by Other Crushing (ve-	1 4 6 1	:	: : :		1		::	::						2						4	1
hicles, railroad, landslides, etc)  178. Excessive Cold	1		1 .	3 .					. 1	l á	1	. 1	1					.] 1	1		1
183. Homicide by cutting or piercing instruments.  185. Fractures (Cause not Specified)  186. Other External Violence	1 27 29	-	1 .	2	2	1 22 %	2	1 2		2	3 2	2 1		1 1			3'		1	6	
XIV ILL-DEFINED DISEASES.		- -	-			1	1-			-	-										
Group Total	36		1	2	2	. :	2 5	2		1.	. 1	1 3	3	. 2		4	1 :	1 :	5 8	3 4	1
187, Ill-defined organic disease	1		· ·	:			2			i .							2				i
189. Cause of Death not Specified or Ill- defined	1		0.0	2	2		1	2	1			1	3	1			2				3
Still-Births.		-	1	1		1	-		-		-										
Not included in totals	218	1	9 1	0.2	1; 9		4  3	311	7)	51.	4 10	012:	1	1 5	16	1-	1	7 1	1 :	5 19	9 19

TABLE No. 13.

Showing Infant Mortality under 5 years of age in Ontario, 1914.

	Showing intent triot tarry and y						
	OFFICIAL ENGLISH TRANSLATION. (DISEASES AND CAUSES OF DEATH.)	Total.	Under 1 Yr.	1 Year.	2 Years.	3 Years.	4 Years.
	Grand Total	8,519	6,835	808	359	305	212
	I.—GENERAL DISEASES.						
	Group Total	900	405	177	129	102	87
5. 6. 7. 8. 9. 10. 13. 14. 18. 20. 24. 229. 331. 32. 33. 34. 45. 47. 49. 50. 53. 54.	Typhoid Fever Smallpox Measles. Scarlet Fever. Whooping Cough. Diphtheria and Croup. Influenza. Cholera Nostras Dysentery. Erysipelas. Other epidemic Diseases. Purulent Infection and Septicæmia Tetanus Tuberculosis of the Lungs. Acute miliary tuberculosis Tuberculous Meningitis. Abdominal Tuberculosis. Pott's Disease White Swelling Tuberculosis of other Organs Rickets Syphilis Gonococcus infection Cancer and other malignant tumors of the Peritonaeum, Intestines, Rectum Cancer and other malignant tumors of other organs and of organs not specified. Acute Articular Rheumatism Scurvy. Diabetes. Leuchæmia Anæmia Chlorosis. Other General Diseases.	15 143 577 195 206 222 4 33 222 76 9 2 3 3 3 1 1 1 1 4 33 2 2 2 3 3 2 3 3 3 3 3 3 3 3 3 3 3	2 1 6 6 1199 45 177 2 188 30 3 13 12 17 5 31 1 11 30 11 11 11 11 11 11 11 11 11 11 11 11 11	3 	9 2 1 1 1 2 2 2	3 10 20 33 2 2 4 4 9 1 1 1 1 1 1 1	5 16 3 36 1 3 2 3 4 1 1 1 2 1 2 1
H.	—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE.  Group Total	818	584	99	54	54	27
61. 63. 64. 66. 68. 69. 71.	Encephalitis Simple Meningitis Other Diseases of the Spinal Cord. Cerebral Hæmorrhage, Apoplexy Paralysis without specified cause. Other forms of mental alienation. Epilepsy Convulsions of Infants. Chorea.	14 256 20 1 3 2 4 495 2	9 154 3 1 1 1 1 2 402 2	1 41 5 1	1 23 4  1 23	2 28 6 1 1 1	1 10 2  1 10
3. 74. 75.	Neuralgia and neuritis Other Diseases of the Nervous System. Diseases of the Eyes and their adnexa. Diseases of the Ears.	1 17 2 1	6 2	4	2	3	1 2 

### TABLE No. 13.—Continued.

Showing Infant Mortality under 5 years of age in Ontario, 1914.—Continued.

OFFICIAL ENGLISH TRANSLATION. (DISEASES AND CAUSES OF DEATH.)	Total.	Under 1 Yr.	1 Year.	2 Years.	3 Years.	4 Years.
III.—DISEASES OF THE CIRCULATORY SYSTEM. Group Total	35	6	5	5	10	9
<ul> <li>77. Pericarditis</li> <li>78. Acute Endocarditis.</li> <li>79. Organic Diseases of the Heart.</li> <li>80. Afgina Pectoris</li> <li>82. Embolism and Thrombosis</li> <li>83. Diseases of the veins (varices, hæmorrhoids, phlebitis, etc.).</li> <li>84. Diseases of the Lymphatic System (Lymphangitis, etc.)</li> <li>85. Haemorrhage; other diseases of the circula-</li> </ul>	5 9 11 1 2 1 4		<u>2</u>		4 3 1	1 2 6
tory system	2	1			1	
Group Total	1,101	758	196	64	50	33
86. Diseases of the nasal fossæ 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. 96. Asthma. 98. Other Diseases of the respiratory system (tuberculosis excepted)	2 25 1 192 9 324 509 10 22 5	222 353 4 14	28 1 72 83 2 3 1	16	1 13 25	1 17 2
V. DISEASES OF THE DIGESTIVE SYSTEM.	1 005	1 201	101	20	10	10
99. Diseases of the mouth and adnexa	9 5 1 2	7	191		1 1	16
103. Other Diseases of the Stomach (Cancer excepted)		1,075			1 7	3 7 3 1
117. Simple Peritonitis, (non-puerperal).  118. Other Diseases of the digestive system (cancer and tuberculosis excepted)	31	20	<u>.</u>	1	2	2
VI. NON-VENEREAL DISEASES OF THE GENITO- URINARY SYSTEM AND ADNEXA.						
Group Total	40		9	3	1	4
120. Bright's Disease	38 2		9	3	1	3 1

## TABLE No. 13.—Concluded.

Showing Infant Mortality under 5 years of age in Ontario, 1914.—Concluded.

Showing infant Mortanty under 5 years (	n age m	Ontai	10, 12	17,00	meruae	u.
OFFICIAL ENGLISH TRANSLATION. (DISEASES AND CAUSES OF DEATH.)	Total.	Under 1 Yr.	1 Year.	2 Years.	3 Years.	4 Years.
VIII.—DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE. Group Total	26	19	4	••••	3	• • • • •
142. Gangrene 143. Furunele 144. Acute Abscess. 145. Other Diseases of the Skin and Adnexa	3 1 12 10	2 1 8 8	2		2	
IX.—DISEASES OF THE BONES AND OF THE ORGANS OF LOCOMOTION. Group Total	8	2	5	••••		1
146. Diseases of the bones (Tuberculosis excepted).	8	2	5			1
X.—MALFORMATIONS. Group Total	176	176				
150. Congenital malformations (stillbirths not included)	176	176				
XI.—DISEASES OF EARLY INFANCY. Group Total		3,510				
<ul><li>151. Congenital Debility, Icterus and Sclerema</li><li>152. Other Diseases peculiar to early Infancy</li><li>153. Lack of Care</li></ul>	3,452 8 50	3,452 8 50				
XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES. Group Total	206	24	4		36	31
164. Poisoning by food 165. Other Acute Poisonings	1 33 5		2		,	1
<ul><li>167. Burns (Conflagration excepted)</li></ul>	83 3		28	1		
169. Accidental Drowning. 170. Traumatism by Firearms. 171. Traumatism by cutting or piercing instruments	28 4 1			·	8	1
172. Traumatism by Fall. 175. Traumatism by other crushing (vehicles, railroad, landslides, etc.). 176. Injuries by animals	12			4		3
179. Effects of heat. 184. Homicide by other means. 185. Fracture (cause not specified) 186. Other External Violence	12 12 16		· · · · · · · · · · · · · · · · · · ·	1 1 1	1	4
XIV.—ILL-DEFINED DISEASES. Group Total	92	2 7	6(	12	3 9	4
188. Sudden death 189. Cause of Death not Specified or Ill-defined	96	4 -		1:		1
STILL-BIRTHS.  Not Included in totals	2.74	5}				

TABLE No. 14.

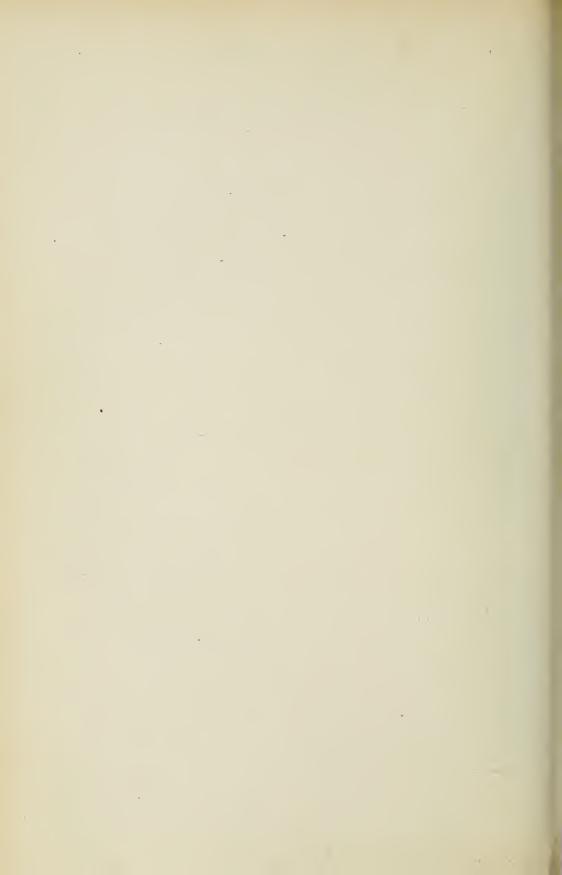
Deaths by Occupations—Counties, 1914.

Occupations.	Totals.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	.62-02	80 and over.	Not stated.
Total males and females	22,700	784	2,069	2,135	2,236	2,727	3,784	4,800	3,761	404
Male.										
Total males	12,036	447	1,093	1,091	1,191	1,471	2,033	2,554	1,929	231
Agents Architects Artists and Photographers Bakers and Confectioners Barbers Barbers Barbers Barbers Blacksmiths Boilermakers Bookbinders Bookkeepers and Accountants Brakesmen Brasstinishers Brewers and Distillers Brickmakers Brokers Boilders and Contractors Butchers Cabinetmakers Coariage and Wagonmakers Carriage and Wagonmakers Cement Workers Chauffeurs Chauffeurs Chesse and Buttermakers Chemists and Druggists Cligarmakers Civil Engineers Civil Engineers Civil Engineers Civil Engineers Coopers Dentists Drovers and Horse Dealers Belectricians Engineers, Marine Railway Stationary Unspecified Factory Hands Farmers Firemen, Civic Marine Railroad Unspecified Foreumen Furriers Gardeners and Florists Government Officials Harness Makers Hoteksepers Hucksters and Podlars Hunters and Fishermen Inmates of Institutions Inspectors Journalists Laborers Laundrymen Lawyers and Barristers Linemen Liverymen and Hostlers Lumbermen	82 12 9 44 48 8 45 27 97 5 2 91 91 27 3 3 7 3 7 3 27 327 327 327 327 327 3	1 1 2 2 3 4 4 1 1 1 1 4 4 1 1 1 1 1 1 1 1 1 1 1	99 21 14 11 6 6 2 22 22 23 13 1 1 24 4 21 1 1 24 4 100 14 155 7 6 1 1 1 2 2 2 2 3 3 1 1 1 1 2 7 6 6 1 1 7 7 6 7 7 7 7 7 7 7 7 7 7 7 7	14 2 3 3 11 1 1 2 9 9 1 1 1 2 2 2 3 3 0 6 5 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 8 2 2 7 6 6 100 11 1 1 3 8 8 13 3 2 42 42 44 4 5 5 7 7 9 21 1 1 1 1 3 3 2 2 10 6 6 198 8 1 1 1 1 1 1 2 1 1 1 2 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	21 21 2 18 2 18 3 16 6 8 10 45 3 11 11 2 2 2 4 4 6 6 7 8 10 10 11 11 11 12 13 14 15 16 16 16 17 18 18 19 19 19 19 19 19 19 19 19 19	20 3 3 10 1 12 1 19 2 2 3 9 7 68 23 9 7 68 1 1 20 1 1 2 2 2 1 1 1 2 2 3 4 4 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1	7 2 1 4 4 1 3 3 2 4 4 1 1 3 6 6 4 3 3 2 4 4 1 1 3 6 6 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1
Managers and Superintendents	44 52	1 4	3 4 4 6	8 5 14 8	12 8 14 9	10 6 17 12	8 13 9 14	3 11 12 6	5 6 4	2

### TABLE No. 14—Concluded.

## Deaths by Occupations-Counties, 1914-Concluded.

		,				,	-	,	,	
Occupations—Mate,	Total.	15-19.	20-29.	30-39.	40-49, .	50-59.	69-69*	.62-02	80 and over.	Not stated.
Merchants	241	1	12 1	26	32	42	53	53	17	5
Millers	34		2	1	4	11	1 8	2 5	3	
Mill Hands	22	2	7	3	2	2	2		3	1
Millwrights	17		1	1	5		5	5	3	
Miners Moulders	59 <b>4</b> 3	2	17	15 5	9 6	7	1	2 2	1 2	5
Music Teachers and Musicians	10			2	2	2	11 2	1 1	1 1	
Painters and Decorators	96	3	7	10	17	17	20	14	6	2
Physicians and Veterinary Surgeons	79		4	10	12	17	11	17	7	1
Plasterers and Lathers Plumbers and Steamfitters.	13 31	3	2 8	2 7	1 7	2 4	4	1	. 1	
Policemen	9		2	1	2		3	1		
Policemen	9		1	2	5	1				
Printers	53 16	-4	13	7	11	8 3	7 6	3 5	2	
Public Officials Railroad Employees.	108	2	22	16	19	23	16	8	2	
Sailors	65	2	8	10	6	11	7	11	7	3
Salesmen	28 24	1	5 6	17	4	3 3	1 2	2 3		
Servants, Porters and Stewards	47	4	10	7	8	8	6	3	2	1
Shippers	16		2	4	4	3	1	1	1	
Shoemakers	68 15	3	4 5	2 3	1 1	4	16	24	14	
Steel and Iron Workers	36	1	12	11	5	2	1 1	1 1		1
Stenographers	3		2			1				
Stonecutters	12 19			3	1	3	3	2	1	
Students	69	52	3	7	8	1				
Tailors	53	1	4	11	9	4	8	8	7	1
Tanners and Curriers	10		1	1	1	2	3	1	1	
Teamsters and Drivers Telephone and Telegraph Operators	114 13	5	21	12	?1 4	34	11	8	2	
Tinsmiths	17	1	5	î	3	2	3	2		
Undertakers	2 4			; .			1	1		
Upholsterers	15	1 1	1	1	1 3	6	1 4	* * * * * * * * * * * * * * * * * * * *	• • • • • • •	
Watchmen and Caretakers	57		3	4	6	13	19	10	2	
Weavers	7 25	1		1	1		1	1	2	
WoodworkersOther occupationsNo occupations	104	1 5	13	1 13	18	3 21	5 16	8 16	1 2	
No occupations	2,746	112	127	102	120	174	392	815	837	121
Female.										
Total females	10,663	337	976	1,044	1,045	1,256	1.751	2,250	1,832	173
Artists	5		2		1					
Bookkeepers and Accountants	12	2	5	2	2	1		1		1
Civit Servants	2							1	1	
Clerks	34 6	8	19	4 2	2		1 1	• • • • • • • • • • • • • • • • • • • •		
Domestics and Housekeepers	406	27	49	24	44	58	74	87	39	4
Dressmakers	43	1	5	9	11	5	5	5	1	1
Factory Hands	19 5,709	7 38	10 571	808	754	826	1,009	1,056	601	31
Housewives Inmates of Institutions. Lanndry Hands	404	2	14	24	34	48	63	124	90	5
Lanndry Hands	2		1		1					
Milliners	15 12	3	3 5	3 4	2 2	1	3	• • • • • • • •		
Nuns and Religious Sisters	32		9	3	1 7	1	9	4	5	
Nurses Saleswomen	51	1	13	12	7	5	5	3	3	- 9
School Teachers	8 37	1	12	7	9	3	1 2	2	1	1
Seamstresses Stenographers	11		2	2	2	3		2		
Students	17 55	3 47	7 8	6	1				• • • • • • • • • • • • • • • • • • • •	
StudentsTailoresses	9	4.1		1	3	1				1
Telegraph and Telephone Operators	10	3	7							
Weavers Other occupations	2 10		2	1	1 2		• • • • • • • • • • • • • • • • • • • •	1 3		
No occupations	3,753	193	225	131	163	301	577	961	1,091	111
			1	1	)	1	J	l	)	]



# APPENDIX

BIRTHS BY MONTHS, AND SEX-COUNTIES, 1914.

-illegiti- mates.	1,469	750	×4	12	10	24	40	13	113	224	1 21	೧೯
No. cases of triplets.	7	9 12	က									
No. pairs.	759	805	15	11	17	15	17	18	835 433	39	മഹ	4
December.	5.310	2,842 2,468	31 29	09	62	103	44	85	136	254	15	22
. Мочетьет.	5.058	2,604	35	99	60	110	43	82	130 118	248	1-1-	14
October.	5,475	2,854	40	62	53	104	45	90	143	285	100	62
тәбтәұдә	5,632	2,883	25.	64	51	94	47	91	127 134	261	17	93
August.	5,862	2,996	40 34	74	60 57	117	45 48	93	136 134	270	14	28
July.	5.871	3,010	43	69 ·	68	119	48 34	82	151 162	313	13 15	88
June.	5,534	2,802	29	70	45	95	49	87	137 137	274	14	98
.veM	5.919	3,036	40 36	91	75	130	52 46	86	129 132	261	12	31
April.	5,421	2,765	26 37	69	59	115	54 39	93	148	292	13	98
Магећ,	5,839	2,939	90 00	71	57 61	118	46	66	136 159	295	13	R
February.	5,012	2,585	34 36	70	44	98	30	71	115	236	100	98
January.	5,292	2,715	40	89	58	112	54 34	88	147 126	273	00	18
.IstoT	66,225	34,031 32,194	431 382	813	690 613	1,303	) 557 502	1,059	1,635	3,232	145 157	302
Sex.		: :	FE		FK		Æ#		MH		ĦĦ	
Counties.	Grand Total	Total MalesTotal Females	Algoma		Brant		Bruce	•	Carleton		Dufferin	

ကေရ	000	10 m	∞	18	37	9	12	เลล	4	(C) —	4	es ro	000	ರ ವಿ	14
						• •									
100	11	29	21	12	13	212	10	00	6	700	21	12 10	11	16	13
36	72	81	161	45 40	85	500	86	111	27	7	13	18	47	74	117
36	67	77	156	37	81	354	88	19	53	10	18	18	38	# 1	84
37	71	77	154	34	92	55	107	. 16	33	==	22	27	48	64	122
36	85	107	188	34 44	78	444	98	19	43	113	24	17	42	62	113
35	77	94	178	41	68	68	108	20	41	16	333	14	37	51	102
49 33	82	82	159	45 45 45	93	48	105	192	44	11	18	22.2	46	23	113
27 40	29	80	155	37	89	43	100	123	35	13	25	8.8	59	99	135
300	06	105	185	50	87	52	66	16	31	15	31	222	42	61 59	120
32	64	89	163	30 34	64	50	95	16	36	16	28	161	35	50	118
33	29	828	164	51	85	56	113	10	25	8	29	16	35	99	127
33	57	67	142	43 36	79	65	109	112	31	15	22	27.73	47	28	97
39	83	69 84	153	33 44	77	30.23	83	020	40	9	101	18	40	25.23	110
457	882	1010	1,958	483	362	636	1,192	207	421	150	273	244	516	691 667	1,358
MH	·	F		Æ		FE		FE		FK	<u></u>	MH	<del></del>	MF	_
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	ac							.:. д		, H		:			
ii.	Essex					A		Haldimand		-   Ialiburton		Halton.		Hastings	
Elgin.	1	Esse		Froi		Grey		Halo		Hali		Halt		Hası	
	4	(a) R.G	•												

BIRTHS BY MONTHS, AND SEX-COUNTIES, 1914.-Continued.

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-itigalll mates.	h m	10	::0	500	යන	11	60-	4	21∞	10	၁ သ	17	2 :	23
Xo. cases of triplets.					-2									
Xo. pairs of twins.	15	11	ක ක	500	10	17	14 16	15	150	16	120	=	20	
December.	928	78	15 14	65 	62 47	109	47	7.9	98 86	62	33.2	7.0	15	28
November.	96	92	10 13	23	48	102	41 36	77	18	40	410	8	114	33
October.	33	06	11 18	67	58	115	• 438	81	26 19	 	148	70	17	32
September	39 40	79	10	19	62	119	45	98	35.00	72	47	84	133	21
.isuguA	38	87	语語	28	48	104	86.24	92	22.23	54	51	97	15	30
July.	41	06	21	32	59	112	940 31	7.1	97 FS	09	52. 4.4.	86	14 17	31
June.	1 <del>4</del> 89	80	14	31	55 44	97	85 85 85	88	21 26	47	48 54	105	21	37
May.	## 98 98	79	15	56	68 59	127	34 55	90	86 89 60 70	89	54	94	13	8
April.	## KB	78	17 16	33	51.52	16	45	86	27 25	52	40	81	15	27
March.	35	92	15	30	죠죠	108	38	95	25.82	61	25 mm	69	21	35
February.	31 45	92	==	22	44	91	28	65	88	58	28.28	54	22	24
January	300	67	10	24	30	85	25 88	65	28 19	47	36	73	15.0	24
.fstoT	479 477	926	163 163	326	645 625	1.270	536	972	329 337	999	508 465	973	176 166	342
Sex.	F		H		ZH		FM		MA		ZE		F	
Counties.	Huron		Kenora		Kent		Lambton		Lanark		Leeds and Grenville		Lennox and Addington	

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eo :	-														
175	Iss	왕작	ন্ত্ৰ	no m	570	ောက	1	2=	000		21	10	ā	일일	121
33 34 37	73	<u>≈</u> 1€	140	50 0	15	ន្តន	罕	88 m	67	85	51	45.	98	1200	75
30	78	79	149	10	16	20	35	25 22	55	27	44	88 25	7.5	345	79
44	84	88.83	152	010	18	820	SF	30.8	72	156 E	99	\$27	06	272	61
55.	96	81	153	20	12	252	52	38	85	88	55	59	106	86 83	70
47	87	107	195	× 1-	15	27	53	47	87	224	52	54	103	S: 95	75
56 45	101	96	202	10	17	28.23	41	88 88	12	31	58	41	88	47	87
35	82.	75 69	144	20.00	000	19 21	40		78	15 34	49	51	93	36	73
48 33	87	84	164	∞4	12	22.82	49	44 48	92	26 24	20	47	111	40 39	79
86 88 80 88	77	67	146	64	13	24	44	35	69	25 14	33	47 52	66	32	72
##	87	106	198	თ⊗	17	20 20 20 20	46	34 49	83	22	37	52	106	37	78
45 38	08	75	157	9 %	6	20	39	.37	72	222	36	34 42	76	88 88	67
33 49	82	76	149	16	22	17	88	37	72	118	53	52	102	38	65
500	1,014	1,010	1,949	108	174	274 254	528	450 450	006	300 266	999	565 567	1,132	450 431	881
MF		M		MH		MF		MF		¥F		MF		F	
Lineoln		Middlesex		Manitoulin		Muskoka		Nipissing		Norfolk	Non+limmloudend and	Durham		Ontario	

BIRTHS BY MONTHS, AND SEX-COUNTIES, 1914-Continued.

	Counties.	Oxford		Parry Sound		Peel		Perth		Peterborough		Prescott and Russell		Prince Edward	
	Sex.	MH		MM		MF		MM		MH		MM		MH	
	.lstoT	515 457	972	415 366	781	236 202	438	513 523	1,036	495 487	985	898 817	1,715	160 134	294
	January.	43	36	35	57	17	32	39 47	98	36	91	55.0	123	111	28
	February.	52 40	92	45	72	81	37	10 cm	98	33.	77	78	132	∞ ∞	16
1	March.	45	36	33.0	72	13 13	35	36	88	32	73	99	156	8 22	22
	.lirqA	33	79	308	629	15	36	22.2	29	45	85	282	154	<u> </u>	28
,	May.	43	80	28	55	13	37	47	87	45	98	73	158	0	200
	June.	9 <del>4</del> 0	73	99 99	69	212	42	44	91	888	78	8 %	146	19	36
	July.	28 44	72	23	59	112	23	98 04	79	45 44	68	81	157	18	56
	August.	32	75	35	7.1	16	28	52 49	101	57 44	101	81	147	128	20
-	September	31	26	40 28	89	22 27	52	24	94	83 45	78	64	140	13 13 13 13	92
	October.	42 37	79	83 88	09	20	37	작약	87	54	87	57 66	123	10	36
	.тэбшэтоИ	34	20	88	55	19	750	36 40	92	99.00	99	69	131	20	34
+	December.	48	92	33	81	22.22	15	14	94	37	74	74	148	121	R
1	No. pairs.	E 23	10	6	∞	9 4	52	==	12	101	7	82 E2	25	27	_
	No. cases of triplets.	-													
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Rainy River		Renfrew		Зітсое		Stormont, Dundas and Glengarry		Sudbury		Fhunder Bay		Cemiskaming		Victoria	
FE		FIM		FM		FE		FE		FK		MF		F	
164 155	319	593 595	1,188	983 996	1,929	647 602	1,249	534 491	1,025	898 898	1,836	909	1,294	278 273	551
13	56	51 44	95	78 87	165	45	88	35	78	74	156	3000	96	28	49
15	62	34	76	83 91	174	47	96	328	70	78	150	47 38	82	20	37
17	24	53	121	80	191	54 -	112	47 46	93	101	187	45	Ξ	20	44
11	20	50	108	71	157	64	125	56	100	70	140	48	94	81 19	37
16	24	72	137	855	170	61	121	38	79	85	156	51	112	252	46
15	31	48	100	838	151	54	104	141	82	89	191	57.53	118	19	53
14	31	50 93	111	88 88	174	55	96	44	87	74 80	154	71 61	132	22.5	53
22 22	38	53	86	84 97	181	57	112	23	36	93	165	61 55	116	22	20
17	33	32 49	81	64 96	160	70 22	122	88 46	79	6.69	151	54	115	22.83	47
10	30	42	82	81	152	48	88	32.1	98	69	152	59	110	22.22	45
10	19	438	81	69	142	12.4	93	37	74	84	158	50 45	95	19	33
13	24	57	86	82	142	122	92	56	105	97	106	63	110	27	54
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BIRTHS BY MONTHS, AND SEX-COUNTIES, 1914-Concluded.

-ifigallI nates.	12	20	99	12	66	18	40	462	315 295	610
No. cases of triplets.			ra :	-					25	1
saire oN sairs.	24 14	19	18	16	9	13	40 26	33	190 168	179
December.	72	151	69 56	125	8 83	92	148 125	273	661 571	1.232
. Почешьет.	69 55	124	55 60	115	47	88	148 133	281	647 603	1,250
October.	88	165	49	120	47	87	155 143	298	711	1,309
September	66	139	51	115	44	88	161 156	317	684 657	1,341
August.	71 87	158	59	108	40	87	162 166	328	696 684	1,380
July.	97	165	47	116	35	74	166	310	733	1,433
June.	70	153	58 48	106	44	87	165 131	296	674 648	1,322
May.	82 94	176	52 68	120	46 53	66	171 142	313	701 710	1,411
April.	81 61	142	54	96	46 38	84	149 152	301	670 667	1,337
March.	76	158	53	105	55	114	169	338	680	1,357
February.	74 65	139	45	68	43	83	113	242	662	1,234
January.	79	149	57	111	48	88	152	305	649	1,271
Total.	925 894	1,819	661 665	1,326	552 520	1,072	1,859	3,602	8,168 7,709	15,877
Sex.	FW		M		F		MH		K	
Counties,	Waterloo		Welland		Wellmgton		Wentworth		York	

BIRTHS BY MONTHS, AND SEX-CITIES, 1914.

-iliegiti- .estem	1,074	547	0101	-#	က ၁	6	၁ လ	14	21 00	5	111	56
No. cases of triplets.	01	10 1			• •				: :			•
No. pairs, of twins.	310	330 290	Ç1 :	1	:v :v	7	သသ	7	9	es	01	10
December.	2,134	1,163	ທີ່ທ	10	22 28	48	90 30	70	17	26	37	99
Мочетьег.	2,189	1,146	7 9	13	118	31	38 25	63	10	21	38	08
October.	2,296	1,209	112	23	30	50	36 36	72	01	19	40	82
September	2,309	1,197	13	23	18 26	4-1	27	55	11	25	47	78
August	2,385	1,214	-1-	14	12 22	34	34	71	12	17	45	85
July.	2,551	1,296	10	24	33	51	44 34	78	13	25	380	89
June.	2,347	1,198	16	28	22	9†	27	56	13	23	48	86
May.	2,480	1,253	<b>20.20</b>	16	25 30	55	40 31	71	10	16	40 38	78
·lirqA	2,294	1,163	5 16	21	22 16	38	88 88 88	7.1	9	20	32 4	73
March.	2,524	1,258	19	82	25	56	93.4 35.5	69	7	22	55 40	95
February.	2,202	1,139	12	18	222	42	28	54	010	18	42	83
January.	2,298	1,133	15	22	20 16	36	40	78	10 S	18	40	83
.figioT	28,009	14,369 13,640	115	240	269	531	421	808	123 127	250	503 453	956
.x9S		: :	F		MF		MF		FE		MF	
Oities.	Grand Total	Total MalesTotal Pemales	Belleville		Berlin		Brantford		Chatham		Fort William	

BIRTHS BY MONTHS, AND SEX-CITIES, 1914-Continued.

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Illegiti- mates.	9	12	98	75	15 15	30	822	44	:22	2	田田	222	9 အ	6
No. cases of triplets.			. ,						ಣ	1				
No. pairs, of twins,	60 A)	4	29	25	30	7	14 10	12	7.07	9	32	31	4.4	4
December.	15	33	107	204	88	40	26 30	86	14	ଝୋ	115 93	308 	13	68
Иочетрег.	13	28	118	232	16	- 39	56	101	14	26	102	197	18	35
October.	16	32	123	235	15	42	54 36	90	12	16	107	227	23	40
September	101	22	123 116	239	17	36	45	87	811	83	103	207	18	40
August.	16	87	125 133	258	24 25	49	61	109	11	25	100	204	24	52
July.	01	19	131 115	246	23	44	54 68	122	7 22	83	124 130	254	17 24	41
June.	18	27	127 109	236	22 16	38	24 44	88	13	56	109	219	13 20	33
May.	17 20	37	132 110	242	28	45	41 49	06	10	24	110	219	18	39
.firqA	16	30	117	234	15	36	46	06	00	18	122 89	211	25	42
March.	18 21	39	125	569	32 18	50	83.63	131	15	30	107 129	236	21	33
February.	13	33	89	201	82 82 83 83	55	54	107	10	19	99	202	22 16	38
January.	15	25	120 129	249	16	43	47	86	12	23	104	208	14 34	48
Total.	171	353	1,437	2,845	255	517	626 574	1,200	136 158	294	1,302	2,592	226 250	476
Sex.	ΉΉ		FM		FE		FM		FE		F		FE	
Cities.	Guelph		Hamilton		Kingston		London		Niagara Falls		Ottawa		Peterborough	

44 39 24 40 17 24 21 33 23 12	68 60 57 63 29	22 22 24 11 22 23 26 19 17 15	45 48 43 28 37	13 22 21 21 7 15 12 14 14 12	28 34 35 35 19	16 16 9 11 16 5 8 15 13 9	21 24 24 25	15 12 15 8 18 21 13 12 11 16	36 25 27 19 34	594 585 617 573 581 580 564 509 512 495	1,174 1,149 1,126 1,085 1,076	39 38 22 26 28 14 24 20 30 20	53 62 42 56 48	7 10 8 5 10	14 99 14 19 17
32 38 27 33	59 71	16 29 22 24	38 53	9 19 14	23 36	14 11 10	21 21	21 16 18 11	39 27	603 653 585 628	1,188 1,281	31 30 24 20	55 50	90	7
0 35	1 61	80 23 23 80 80	1 51	8 12 15	08 0	12 8 9	0 20	1 0 17	1 34	6 624	1,266	2 38	.   66	4 10	
38 20 39 31	77 51	22 16 25 18	47 34	10 17 11	27 26	18 15	27 20	7 12 11	19 21	600 589 596	,189 1,202	25 26 25 26	50 52	122	7
24	52	25 20	42	15	24	00	18	26 14	40	586 507 5	,093	24 18	42	138	2
288	54	15	34	17	53	13	22	15	36	566 554	1,120 1	24 26	20	122	18
	702	249 251	200	171	340	156 114	270	181 176	357	7,188	13,949	351 275	929	108	6
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	No. Cases of Triplets.	1	: 60	• •				• •				* 0		• •	
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	Decem- ber.	385	213	10.00	∞	10	18	15	25	∞ ⊃	∞	∞ ೧೧	11	-1 œ	15
	Novem- ber,	323	168	==	15	11	20	9 %	14	2020	4	30 CO	6	20.00	10
	October.	345	182	9 9	16	13 30	13	100	21	4 33	7	46	13	701	12
	Septem- ber.	365	204	69	15	∞∞	16	17	24	es es	9	6.0	П	11	18
	August.	411	217	1-1-	17	01	19	0.0	20	<b>~</b> ≈	10	L73	12	17 7	15
	.Vlul	416	217	<u> </u>	97	12	£3	15	62	æ <b>≻</b>	10	10.00	133	40	127
	уппе,	390	173 217	25	21	21	21	10 17	27	70.4	6	4.00	7	73-4	S
2	May.	432	215	97	17	= ∞	19	12 17	29	410	S		30	၁ ၁	15
2	April.	407	195	[-]-	14	<u> </u>	97	1 2 2 2	24	× 9	14	202	10	10	18
1	March.	406	186	4 0	14	22	20	1 20 1	183	9 %	14	ကဘ	122	0.1	16
	February.	346	180	7.1	4	1-13	12	127	62	100	1	71	=	ာမာ	15
-	January.	385	212	21.00	=	14	21	. S. C.	27	91-	123	122	21	9 4	10
	.lstoT	4,611	2,354	85	182	112	228	153	202	555	H	79 .	143	25.57	165
	Sex.	:	: :	MF		MH		ZZ		E M		MH		MA	
	Towns.	Grand Total	Total Males	Barrie		Brockville		Cobalt		Cobourg		Collingwood		Cornwall	

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Galt		lngersoll.		Kenora .		Lindsay		North Bay		Orillia		Oshawa .		Owen Sound	

BIRTHS BY MONTHS AND SEX-TOWNS, 1914.—Concluded.

Illegiti- mates.	2121	4	 	4	7 -	60	so	4	21-	66	พพ	4
No. Cases of Triplets.						7		9	:::	4		2
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Decem- ber.	11	16	410	6	13	20	10	21	33.22	58	 	21
Novem- ber.	9	16		∞	11	23	ญหล	7	16	34	9	21
October.	7.7	14	42	9	12	21	1	7	18	37	13 13	25
Septem- ber.	rc 9	11	( <del>- 1</del>	11	10	19	==	22	17	37	11 10	21
August.	11	20	101-	12	18	25	10	15	21	38	01	19
July.	10	20	70 <del>4</del>	6	14	21	7	16	16	33	© ∞	17
June.	- 9 ∞	14	11	7	12	27	9	13	18	, 35	89	14
May.	18	38	.c 9	Ξ	14 16	30	125	17	16	36	13 19	33
April.	10	20	ਹਾਲ	7	9	12	9	17	22	46	∞ छ	122
March.	<u> </u>	27		6	13.53	78	14 9	83	20	37	-∞∞	16
February	<u></u> -∞	15	2) 55	10	133	19	9	16	41	25	==	22
January.	0.0	18	ro 00	000	13.51	25	0.7	12	19	33	110	202
Total.	118	229	48 54	102	153 126	279	83 103	186	225	449	122	342
Sex.	MF		ÄΉ		MH		ΣF		MH		Σŀ	
Towns.	Pembroke		Port Hope	1	Sault St. Marie		Smith's Falls		Sudbury		Welland	

MARRIAGES BY MONTHS-COUNTIES, 1914.

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			183	28	-22	200		02	)5 	67	40	2]	2)	5	37	===	7	- 63	9	10	56	9
	Мочетьег.	1,755																				
	October.	2,190	38	33	27	131	6	53	107	30	40	13		19	32	24	15	25	48	19	39	6:
	September.	2,691	37	45	30	9†	5	28	111	33	32	24	2)	16	69	31	7	46	5.4	36	53	30
	AuguA.	1,816	34	27	27	70	12	93	78	37	21	9	-	6	28		70	31	22	16	18	9
	July.	1,772	27	34	25	78	7	24	16	58	38	9	ಣ	11	27	18	10	48	32	9	19	2
	June.	3,435	42	54	36	170	19	10	119	44	99	23	4	26	52	6†	4	30	19	40	47	24
	May.	1,486	18	40	15	89	5	22	92	21	56	4		9	31	14	4	29	30	Ξ	16	6
-	April.	2,067	83	40	22	66	133	35	75	28	38	14		11	48	32	ന	49	34	24	22	6
	March.	1,453	19	92	07	22	133	30	29	23	37	rc	ಣ	10	21	33	ro	35	31	13	6%	10
	February.	1,635	23	31	23	86	6	21	72	56	38	16	ಣ	14	31	24	ന	330	22	18	23	10
	January.	1,824	30	37	67	93	7	52	75	34	37	10	ಣ	6	35	17	4	45	22	16	30	90
	.fstoT	24.245	352	443	311	1,224	112	357	1,050	366	441	150	25	166	452	323	71	451	445	239	353	139
	Counties.	Grand Total.	Algoma	Brant	Bruce	Carleton	Dufferin	Elgin	Essex	Frontenac	Grey	Haldimand	Haliburton	Halton	Hastings	Huron	Kenora	Kent	Lambton	Lanark	Leeds and Grenville	Lennox and Addington

MARRIAGES BY MONTHS-COUNTIES, 1914.—Continued.

	, rö	ro	97	16	9	82	46	42	65	91	17	14	34	02	20	69	91	38	
December.																			
November.	ર્સ	ಾ	75	15	22	16	000	22	is.	12	S	55	27	21	00	10	22	25	38
October.	43	ro	78	02	23	7	34	24	8;	16	153	30	37	38	Ξ	12	43	53	43
September.	42	4	98	23	34	27	50	660	09	255	15	36	42	45	17	10	55	75	64
.isuguA																			41
July.	26	4	99	13	27		24	10	35	14	ro	24	24	33	9	7	28	28	26
јппе.	62	55	125	14	23	25	50 44	20	40	30	22	52	19	48	11	25	99	74	99
May.	20	ಣ	99	7.0	282	133	16	133	19	10	S)	53	16	30	2/3	90	14	40	17
April.	28	:	80	14	24	200	93	31	32	19	12	30	6%	20	12	7	20	48	36
Матећ.	56	೧೯	19	9	15	16	20	19	36	6	9	30	18	9	∞	6	10	24	22
February.	24	ಣ	45	7.0	19	21	27	18	40	12	10	22	18	19	13	8	30	24	255
January.	56	7.0	67	೧೦	25	22	27	97	27	3	15	27	56	37	7	12	33	58	77
.letoT	393	45	006	142	273	228	379	308	400	186	137	368	354	330	117	125	80 <del>†</del>	599	430
Counties.	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	227	21	22	13	20	18	24	21	10	17	20	27	14
Thunder Bay	493	0†	30	30	24	39	57	35	52	12	<u>e</u>	57	17
Timiskaming	288	19	28	17	17	1.9	27	255	28	33	8î	22	24
Victoria	234	14	16	16	24	15	34	13	1	18	25	16	6; 6;
Waterloo.	632	32	51	34	49	45	102	12	52	67	62	54	33
Welland	743	46	52	44	63	45	116	29	19	78	65	53	533
Wellington	358	42	32	53	67	6	<del>1</del> 9	12.	18	53	31	14	37
Wentworth	1,320	103	74	92	133	98	232	104	88	111	117	83	109
York	6,358	466	379	334	570	418	996	206	573	697	549	423	477

MARRIAGES BY MONTHS-CITIES, 1914.

, Decembe <b>r.</b>	947	121	10	56	14	18	10	92	28	69	21	70	19	23	12	14	14	12	434	38	11
Хотешьет.	890	151	14	21	14	56	00	72	22	41	22	94	13	20	19	6	11	11	400	48	10
October.	1,120	000	24	22	16	92	19	104	25	47	92	122	20	15	30	12	22	10	202	57	20
September.	1,348				19														Ĭ		
August.	1,074				13														-10		
July.	686	12	20	22	15	21	9	93	23	54	58	67	13	14	19	17	20	000	474	26	6
June.	1,858				24									٠							
May.	865	4	20	62	∞	20	ಣ	92	18	56	25	85	15	14	17	17	14	12	400	54	∞
April.	1,076				22															49	7
March.	089	9	14	10	16	10	10	62	17	41	14	45	14	18	12	14	∞	6	312	43	r0
February.	773	∞	Ξ	83	17	23	12	72	22	27	133	85	13	9	12	10	∞	∞	357	40	7
January.	917	7.0	10	62	16	77	19	06	56	43	22	<u>8</u>	10	17	16	=======================================	9	11	433	42	12
.lstoT	12,537	130	222	5962	194	254	145	1,163	287	209	291	1,072	202	210	738	186	179	139	5,964	622	131
Cities.	Grand Total	Belleville	Berlin	Brantiord	Uhatham	Fort William.	Guelph	Hamilton	Kingston	London	Niagara Falls	Ottawa	reterborough	Fort Arthur.	St. Catharines	St. Thomas.	Sarnia	Stration	Toronto	Windsor	Woodstock

	1 +																				
December.	164	9	10	50	7	10	4	00	1	ಣ	90	9	6	7	21	6	က	16	7	7	14
Мочетьет.	151	6	6	11	4	ිග	13	2	7	2)	ro	10	2	23	6	က	9	16	ଚୀ	18	13
October.	178	9	10	9	22	4	12	00	ro	12	13	13	9	6	14	9	20	18	4	14	00
September.	212		6																		
August.	134	7	9	13																	
July.	129	7	9	6	:	ಸಾ	4	11	9	ಣ	7	11	ro	27	4	90	ಬ	15	4	13	4
June.	230	6	6	14	ro	4	00	31	7	21	14	7	11	19	17	10	7	19	6	. 17	
May.	105	5	2	ro	:	20	1	00	4	23	38	11	7	က	10	4	ಣ	10	21	10	2)
.firqA	156	60	ന	6	2	7	9	11	ಣ	21	12	6	2	10	14	9	4	77	4	11	14
March.	114		6																		
February.	131	20	4	12	4	27	ಬ	6	9	:	9	6	4	9	4	90	ಣ	14	20	10	15
January.	117	11	ro	10	T	10	77	2	23	=	9	6	4	5	1	7	:	12	ಣ	90	70
.lstoT	1,821	88	85	109	90	75	06	132	99	38	101	121	74	es S3	125	75	42	180	28	132	107
Jowns.	Grand Total	Barrie.	Brockville	Cobalt	Cobourg	Collingwood	Cornwall	Galt	Ingersoll	Kenora	Lindsay	North Bay	Orillia	Oshawa	Owen Sound	Pembroke	Port Hope	Sault Ste. Marie	Smith's Falls	Sudbury	Welland

## Marriages by Denominations in the Province of Ontario, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomina- tion.	Total Bridge.
Anglican	3,550	699	740	129	168	40	43	3	1		79	9	5,401
Presbyterian	716	3.099	849	101	166	5//	40	15	2	5	74	0	5.118
Methodist	690	809	4.043	96	258	30	58	7	5	8	100	1	6.(92
Roman Catholic	207	1100	104	3,435	23	• 1	20	5	3		47	9	0.978
Baptist	160	206	258	22	718	6	30	3			.16	4	1,431
Congregationalist	35	34	41	8	11	95	1			,	6	1	232
Lutheran	49	43	59	50	13	3,	416	5			14		65.5
Evangelical Association	3	9	10	1	7	,	ĩ	69	1	1	-2		110
Hebrew	1	1	1	2					: 340				845
Salvation Army	8		6	1	-5					SD		1	98
Others	25	4.3	5	17	17	4	5	4	1		459	1	666
No Denomination	5	4	4	4	1		•0		.5		1	14	37
TOTAL GROOMS	5,456	5,050	6,159	3,836	1.383	557	60	100	352	25	838	48	24.245

Licenses, 21. 50.

66

Banns, 2.5'5.

## Marriages by Ages in the Province of Ontario, 1914.

	AGE.	15	20	25	30	35	40	45	50	55	60	65	70 and over	Not stated	TOTAL
	15	316	2,881	1.079	198	82	29	10	ĩ	3	1		1		4.607
	20	116	4,866	3,660	1.056	306	81	37	9			2		1	19,134
	25	8	767	2.613	1.222	413	137	38	5.5	6	3	3	1	.1	5.34
	30	1	92	434	771	385	194	104	43	12	9	1			2.045
	35	1	17	67	187	276	179	119	55	17	16	G	- 3		: 43
υż	40		5	12	11	65	136	89	78	46	23	5	1		504
BRIDES.	45		1	3	1?	19	40	50	63	44	28	8	4		802
BR	50				3	1	8	9	52	41	23	15	8		16)
	55			1			2	3	10	21	19	11	13		80
	60							3	3	4	13	23	12		58
	65						1			1	7	11	13		23
	70							3		2	1	2	9	1	18
	Age not stated.	1	5	9	10	2			2	1		1	1	25	57
	TOTALS	443	8,634	7.878	8,513	1,609	807	495	344	198	143	87	66	28	24.215

### Marriages by Denominations in the District of Algoma, 1914.

Grooms.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangeli Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	28	6	7	1	2		1						45
Presbyterian	5	73	14	2	2		2						98
Methodist	4	11	38		1						1		55
Roman Catholic	2	2	1	104									109
Baptist		3	4	1	8		1						17
Congregationalist				1									1
Lutheran			2	1			22						25
Evangelical Association													
Hebrew									1				1
Salvation Army													
Others											1		1
No Denomination													
TOTAL GROOMS	39	95	66	110	13		26	****	1		2	• • • • • •	352

Licenses, 317.

Banns, 35.

## Marriages by Ages in the District of Algoma, 1914.

	Age.	15	20	25	30	35	40	4.5	50	5 5	60	6.5	70 and ove.	Not stated	Total.
	15	4	49	33	î	4									97
	20	5	64	44	15	5	2	1	,					,	133
	25		10	27	11	10		1		1					60
	30		3	3	7	4	1	1							25
	35			4	3	5	6		1						19
<i>y</i> .	40						3	1	1						5
BRIDES.	45			1				3	1	1					6
BR	50											1			1
	5.5								1		2				3
	60									2		1			3
	6.5														
	70														
	Age not stated.														
	TOTALS.	6	126	112	43	31	15	7	1	4	2	3			352

## Marriages by Denominations in the County of Brant, 1914.

Вилье.	Anglican.	Presby terian,	Methodist.	Roman Catholic,	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	67	10	13	3	6	3	1				1		103
Presbyterian	8	41	13		3	3					2		70
Methodist	10	10	63		11	3							97
Roman Catholic	1	1		44	5						2		50
Baptist	6	7	11	1	49	1	1				2		78
Congregationalist	5	2	8			11					1		27
Lutheran			1				2						3
Evangelical Association													
Hebrew									1				1
Salvation Army										4			4
Others			1		1						8		10
No denomination													
TOTAL GROOMS	97	71	110	47	79	21	4		1	4	16		443

Licenses, 402.

68

Banns, 41.

#### Marriages by Ages in the County of Brant, 1914.

Ì	Age.	15	20	25	30	3 5	40	45	50	5 5	60	65	70 and over	Not stated	TOTAL
	15	7	56	19	1										83
	20	4	107	76	17	3	1								208
	2.5		16	37	17	4	2								76
	3 0		1	8	17	8	6	1	1						42
	3 5		1	1	1	3	1	4							11
S	40					1	2	2	. 1	1	1	1			9
BRIDES.	4.5				2		1	1		3					7
BR	50							1			1				2
	5.5									2			1		3
	60														
	6.5														• • • • • • •
	70														
	Age not stated.											1		1	2
	TOTALS	11	181	141	55	19	13	9	2	6	2	2	1	1	443

### Marriages by Denominations in the County of Bruce, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist,	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	12	12	2		2		2			• • • • • •	1		31
Presbyterian	9	67	17	1	4	1	1	1			2		103
Methodist	8	16	53		6								83
Roman Catholic			2	47			1						50
Baptist	1	5	1		6								13
Congregationalist						3							- 3
Lntheran		2		1			9				1		13
Evangelical Association			1					3					4
Hebrew									1				1
Salvation Army													
Others	2		2								6		10
No Denomination													
TOTAL GROOMS	32	102	78	49	18	4	13	4	1		10		311

Licenses, 268.

Banns, 43.

## Marriages by Ages in the County of Bruce, 1914.

	Aoe.	15	20	2.5	30	3 5	40	45	50	55	60	65	70 and over	Not stated	TOTAL.
	15	4	36	8	4	1	1		1	1					56
	20	1	44	45	14	9	1								114
	2.5		8	37	28	8	3	2							86
	30		1	3	6	3	3	2	1						19
	35			1	2	4	2	1		1	1				12
ES.	40				•••••	2	2	2	2	1					9
BRIDES.	45						1		1	1					3
BI	50								1	1			1		3
	5.5									1	1	1	2		5
	60										1	1			2
	6.5														
	70 & over												1		1
	Age not stated.	3			1										1
	TOTALS.	5	89	94	55	27	13	7	6	6	3	2	4		311

## Marriages by Denominations in the County of Carleton, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others,	No Denomination.	TOTAL BRIDES.
Anglican	165	52	33	4	4	2	3				2		265
Presbyterian	45	136	20	9	9	1	2				3		225
Methodist	22	20	83		• 4	1	1				1		. 138
Roman Catholic	38	9	6	398	1		1				6		459
Baptist	9	8	2	2	14						1		36
Congregationalist	1	1	2	1		5							10
Lutheran	2		1	1			14						18
Evangelical Association													
Hebrew				1					30				31
Salvation Army										5			5
Others		2									35		35
No Denomination													
TOTAL GROOMS	282	228	147	422	2	9	21		30	5	48	• • • • •	1.224

Licenses, 1,030.

Banns, 194.

## Marriages by Ages in the County of Carleton, 1914.

	Age.	15	20	25	30	35	40	45	50	5.5	60	65	70 and over	Not stated	TOTAL.
	15	14	100	47	8	5	1	3	2						180
	20	9	254	191	41	19	5	2	1						522
	2.5		39	137	- 86	25	9	3	3			1			302
	30		2	25	52	19	13	7	2	1					121
	3 5		1		10	20	11	1	4		1	1			49
. SS	40			1	2	2	5	6	6	3					25
BRIDES	45						1	5	3	4	2	1			16
BR	50								2	1					3
	5 5							1			3				4
	60											1			1
	6.5											1			1
	70 & over	· · · · · · · · ·													
	Age not stated.														
	TOTALS.	23	396	401	199	90	45	28	22	9	6	5			1,224

## Marriages by Denominations in the County of Dufferin, 1914.

Grooms.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomin- ation.	TOTAL BRIDES.
Anglican	11	4	2										•17
Presbyterian	5	27	9			1					2		44
Methodist	7	11	26								1		46
Roman Catholic													
Baptist		1			. 1			,			1		3
Congregationalist						1							1
Lutheran,		1											1
Evangelical Association.													
Hebrew													
Salvation Army		,.	,							1			1
Others													
No Denomination													
TOTAL GROOMS	23	44	38		1	ŝ				1	4		112

Licenses, 112.

Banns,

## Marriage by Ages in the County of Dufferin, 1914:

	AGE.	15	20	25	30	35	40	45	50	5.5	60	6.5		Not stated	TOTAL
-	15		11	3			1					· · · · · · ·			15
	20		24	27	8	2	2	í							64
	25		2	11	4	1									18
	30		1	1	4	9	1			,					9
	3 5						:								1
ś	40				1			1	1						3
BRIDES	45						1								1
BR	50														
	5 5														
	60														
	6.5												1		1
	70 & over														
	Age not stated														
	TOTALS		38	42	17	5	5	3	1				í		112

## Marriages by Denominations in the County of Elgin, 1914.

					,									
Grooms.	BRIDES.	Anglican.	Presbyterian,	Methodist.	Roman Catholic,	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican		27	6	8	2	8	1		•••••			1	•••••	53
Presbyterian		6	47	11		7	1	1	1			4		78
Methodist		15	9	103	2	15		1				2		147
Roman Catholic		1	1		7									9
Baptist		4	6	13		26						2		51
Congregationalist														
Lutheran												1		1
Evangelical Associati	ion								1					1
Hebrew										1				1
Salvation Army											3			3
Others				1	1							11		13
No Denomination														
TOTAL GROOMS		53	69	136	12	56	2	2	2	1	3	21		357

Licenses, 349.

Banns, 8.

## Marriages by Ages in the County of Elgin, 1914.

	Aoe.	15	20	25	30	3.5	40	45	50	5.5	60	65	70 &over	Not stated	TOTAL
	15	9	39	12	2	1	2				1				66
	20		70	39	16	4		1	1				1		132
	2.5		13	40	23	10	2	2							90
	30		3	6	8	6	4	3	1		1				33
	35			1	2	3	1		2						9
	40				1		3	1	3			1			9
S.	4.5		• • • • • • •			1	1	2	2	1			1		8
BRIDES.	50	• • • • • • • •							1		1				2
BR	5.5						1				• • • • •				1
	60								2				i		3
	6.5											1	. 2		3
	70 & over											1			1
	Age not stated.		1												1
	TOTALS	9	126	98	52	25	14	9	12	1	3	3	5		357

#### Marriages by Denominations in the County of Essex, 1914.

GRoons*	Anglican.	Presbyterian.	Methodist,	Roman Catholic.	Baptist.	Oongregationalist.	Lutheran.	Evangelical A reoci on.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	155	14	22	4	7	3	5			•••••	5	• • • • • •	215
Presbyterian	8	56	29	5	4	3	2				3		110
Methodist	19	26	208	9	23	4	7		1		9		-306
Roman Catholic	6	9	11	198	1		7		1		2		235
Baptist	5	10	17	2	46	2	2				6		90
Congregationalist		1	2	3		4					2		12
Lutherau	5	1	6	4	3		17	1			3		40
Evangelical Association					3		1						4
Hebrew									6				6
Salvation Army													
Others	2	2	3	1	3	1	1	2			16	1	32
No Denomination													
TOTAL GROOMS	200	119	298	226	90	17	42	3	8		46	1	1,050

Licenses, 894.

Banns, 156.

#### Marriages by Ages in the County of Essex, 1914.

	AGE.	15	20	25	30	3 5	40	45	50	5.5	60	65	70 & over	Not stated	TOTAL
	15	28	181	56	5	2	1								273
	20	3	226	107	43	14	4	3							400
	2.5	1	29	83	41	26	5	3	2	1					191
	30	• • • • • • • • • • • • • • • • • • • •	3	11	43	20	8	2	3	1	• • • • • •				91
	35			4	8	6	11	4			2				39
so.	40				3	7	7	6	1	2	2				28
BRIDES	45					1	1	5	4		3			• • • • • •	14
BR	50						1			1		1			7
	5.5							1	2	1			1		5
	60	:		• • • • • • • • • • • • • • • • • • • •		• • • • • • • •						1			1
	6.5											1			1
	70 & over								• • • • • •	• • • • •					
	Age not stated.														
	TOTALS.	32	439	261	143	76	38	24	20	6	7	3	1		1,050

### Marriages by Denominations in the County of Frontenac, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist,	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew,	Salvation Army.	Others,	No Denomination.	Total Bridge.
Anglican	53	11	16	. 2		2					- 2	···· <u>·</u>	86
Presbyterian	10	33	10	1		1	1						56
Methodist	13	12	105	1	2	1							184
Roman Catholic	2			69	1		1				1		65
Baptist	5	5	1		2								7
Congregationalist	3	1	1		1	1							7
Lntheran			1										1
Evangelical Association													
Hebrew													
Salvation Army	1		1							1			3
Others		1	1	1							4		7
No Denomination													
Total Grooms	5.1	, )	1.36	1 5	6	5	2			1	ī		366

Licenses 241.

Banns, 25.

## Marriages by Ages in the County of Frontenac, 1914. GROOMS.

70 Not & over stated TOTAL AGE. 1.5 2.5 1..... . . . . . . . 1 ...... 3.5 4.5 , 1 ...... ...... ...... ...... 5.5 ..... Age not stated. TOTALS. ? ..... 

## Marriages by Denominations in the County of Grey, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutherin.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	25	6	9	4	3						4		51
Presbyterian	12	82	28	1	5		1				1		130
Methodist	18	35	96	1	4		1			1	3		156
Roman Catholic				53									23
Baptist	. 3	8	9		12								34
Congregationalist													
Lutheran		1	1		2		17	1			1		23
Evangelical Association	1	.)	1					7					11
Hebrew													
Salvation Army										1			1
Others			1		1						10		12
No Denomination													
TOTAL GROOMS	59	131	145	29	27		19	8		2	21		441

Licenses, 415.

Banns, 26.

### Marriages by Ages in the County of Grey, 1914.

	AGE.	15	20	25	30	35	40	45	50	55	60	65	70 &over	Not stated	TOTAL.
	15	5	34	35	9	2									82
	20		74	55	27	11	2		. 1						170
	2.5		14	45	25	13	1	1							99
	30		1	4	16	3	6	2	1						38
	35	1		1	4	6	- 5	5	2		. 1				22
or.	40					2	4	3	4	1	1				15
BRIDES.	45					1		1	5		1				5
BR	50						1		2	1		1			ó
	5 5									1		1			2
	60							1				1			2
	6.5										1				1
	70 & over.														
	Age not stated.												,		
	TOTALS.	6	123	137	81	43	16	13	12	3	4	3			441

## Marriages by Denominations in the County of Haldimand, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Heb.ew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	13	4	3		1	1	1		•••••		2		30
Presbyterian	6	17	3		1								27
Methodist	-ô	7	32		3		2				1		47
Roman Catholic	i	1		6									8
Baptist		1	5		13						1		20
Congregationalist		1											1
Lutheran							5						5
Evangelical Association	1							2					3
Hebrew													
Salvation Army										1			1
Others			2		1						4		7
No Denomination							1						1
TOTAL GROOMS	28	31	45	6	19	1	9	2		1	8		150

Licenses, 143.

Banns, 7.

## Marriages by Ages in the County of Haldimand, 1914.

	Age.	15	20	2.5	30	35	40	45	50	5.5	60	6.5	70 & over	Not stated	TOTAL
	15	3	17	10	3						• • • • • •				33
	20		33	24	7	6	2								72
	2.5		: 4	8	6	3	1								2.2
	30			1	5	1	1	2							10
	3 5				2	3		2							7
ro.	40			1				1							2
BRIDES	45								1			1			2
BRI	50														
	5 5														
	60					,					1				1
	6.5										1				1
	70 & over														
	Age not stated		,												
-	TOTALS	3	54	44	23	13	4		1		2	1			150

## Marriages by Denominations in the County of Haliburton, 1914.

	GROOMS.	Anglican	Presbyterian.	Methodist,	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others,	No Denomination,	TOTAL BRIDES.
Ang	lican	4	3	1	1									9
Pres	byterian		2	2										4
Met	hodist	1	1	10										12
Ron	nan Catholic													
Bapt	tist													
Con	gregationalist													
Luti	neran													
Eva	ngelical Association													
Heb	rew													
Salv	ation Army	,												
Othe	ers													
No	Denomination													
	TOTAL GROOMS	5	6	13	1									25

Licenses, 25.

Banns, ....

## Marriages by Ages in the County of Haliburton, 1914.

	AGE.	15	20	2.5	30	35	40	45	50	55	60	65	70 & over	Not stated	TOTAL.
	15		5	5	1									•••••	11
	20		1	3	1		1	1							7
	25		1	2											3
	30					1		1							2
	35						1								1
SS.	40														•••••
BRIDES.	45														
BR	50														
	5.5														
ш	60														
	65														
	70 & over												1		1
	Age not stated.														
	TOTALS		7	10	2	1	2	2					1		25

## Marriages by Denominations in the County of Halton, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association,	Hebrew.	Salvation Army.	Others,	No Denomination.	TOTAL BRIDES.
Anglican	21	9	9	1									40
Presbyterian	6	36	14		1	1		2					60
Methodist	3	13	28		2								46
Roman Catholic	2	1		4									7
Baptist		1			10								11
Congregationalist		1											1
Lutheran													
Evangelical Association													
Hébrew													
Salvation Army													
Others							1						1
No Denomination													
TOTAL GROOMS	32	61	51	5	13	1	1	2					166

Licenses, 161.

Banns. 5.

## Marriages by Ages in the County of Halton, 1914.

	AGE.	15	20	25	30	35	40	45	50	5 5	60	65	70 &over	Not stated	TOTAL
	15		14	4	2										20
	20	1	35	29	4	2									71_
	2.5		ă	22	4	2	1			1		1			36
	30		2	4	8	3	4	4							25
	35				2	1	1	2							6
200	40			1		1	1		1						4
BRIDES	45							1			• • • • • •				1
BRI	50														
	5.5										1				1
	60								1						1
	6.5														
	70 & over											<u></u>	1		1
	Age not stated.														
	TOTALS	1	56	60	20	9	7	7	2	1	1	1	1		166

## Marriages by Denominations in the County of Hastings, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association,	Hebrew.	Salvation Army.	Others,	No Denomination.	TOTAL BRIDES
Anglican	19	11	28	3	1						4		96
Presbyterian	6	5.5	11	1									40
Methodist	20	17	203	6	1		1				4		262
Roman Catholic	1		3	31									35
Baptist	1		1	1	4								7
Congregationalist													
Lutheran							3						3
Evangelical Association													
Hebrew								••••	• • • • • •				
Salvation Army					1					1			5
Others			1								6		î
No Denomination					• • • • •								
TOTAL GROOMS	87	50	247	43	î		4			1	14		452

Licenses, 418.

Banns, 34.

#### Marriages by Ages in the County of Hastings, 1914.

	Age.	15	20	25	30	3 5	40	45	50	5.5	60	65	70 &over	Not stated	TOTAL
	15	6	79	38	5	3	2								128
	20	3	93	53	24	6	1	1	i						182
	2.5		18	37	15	4	1		1						76
	30		2	11	11	6	1		1						32
	35		1	1	1	2	5	2			1				13
	40					1	3	1			1				6
ES.	45							3			1	1			5
BRIDES.	50					1			1	1					3
BI	5 5									5	1	1			4
	60										1	2			3
	6.5														
	70 & over														
	Age not stated.														
	TOTALS	9	193	135	56	23	13	7	1	3	5	4			452

## Marriages by Denominations in the County of Huron, 1914.

Grooms.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist,	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	24	6	10		3						1		44
Presbyterian	12	71	24		1		2						110
Methodist	15	19	83	1	2								120
Roman Catholic				19									19
Baptist		5	1		3			1					10
Congregationalist													
Lutheran		1	2				4						7
Evangelical Association		1	3				,	3					7
Hebrew													
Salvation Army													
Others		1	1								2		4
No Denomination		1	1										2
TOTAL GROOMS	51	105	125	20	9		6	4			3	•••••	323

Licenses, 309.

Banns, 14.

## Marriages by Ages in the County of Huron, 1914.

	AGE.	15	20	2.5	30	35	40	45	50	5 5	360	6.5	70 &over	Not stated	TOTAL.
	15	1	27	13	1	1									43
	20		61	48	13.	6		1							129
	2.5		7	34	22	6	9	1							79
1	30		2	7	11	5	7	4	1	1					38
ĺ	35		5			5	6	1		1					15
00	40			1		1	1	1	2	2					8
BRIDES	45						2	1		1	1	1			6
BRI	50									1		1			2
	5 5														
	60														
	6.5														
	70 & over														
	Age not stated.		1	1	1										3
	Totals.	1	100	104	48	24	25	9	3	6	1	2			323

#### Marriages by Denominations in the County of Kenora, 1914.

				,									
Oroons	Anglican,	Presbyterian	Methodist.	Roman Catholic,	Baptist,	Congregationalist	Lutheran.	Evangelical Association.	Hebrew,	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	6	2		1		1							10
Presbyterian	5	12		1	1								19
Methodist	1	5	4				1						8
Roman Catholic	1	1	2	9									13
Baptist					1						1		5
Congregationalist													
Lutheran	2	. 2	1				8						13
Evangelical Association													
Hebrew													
Salvation Army							:						
Others											6		6
No Denomination													
TOTAL GROOMS	15	19	7	11	2	1	9				7	•••••	71
			,			,	,				,		3

Licenses, 62.

Banns, 9.

## Marriages by Ages in the County of Kenora, 1914.

GROOMS.

	AGE.	15	20	25	30	35	40	45	50	55	60	6.5	Not stated	TOTAL
	15	1	12	7									 	20
	20		7	17	5	2							 	31
	25		1	6	4	1							 	12
	30			1	2	2		1					 	6
	35			• • • • • • • • • • • • • • • • • • • •									 	
	40												 	
200	45							2					 	2
BRIDES.	50												 	
BE	5.5												 	
	60												 	
	6.5			• • • • • • • • • • • • • • • • • • • •			•••••						 	
	70 & over												 	
	Age not stated.												 	
	TOTALS	1	20	31	11	5		3					 	71

6 (a) R.G.

## Marriages by Denominations in the County of Kent, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others	No Denomination.	TOTAL BRIDES.
Anglican	37	6	14		5						2		61
Presbyterian	4	56	19	3	3			1			1		87
Methodist	17	19	. 1t5		9		1				3		163
Roman Catholic	2	3	ó	77									87
Baptist	6	5	6	1	5.5						1		41
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army										3			3
Others			3	1							5		9
No Denomination													
Total Grooms	66	89	163	82	36		1	1		3	11		451

Licenses, 396.

Banns, 55.

## Marriages by Ages in the County of Kent, 1914.

				-											
	Ages.	1.5	20	2.5	30	35	40	45	50	55	60	65	70 & over	Not stated	TOTAL.
	15	12	90	18	4	2	1								127
	20	5	99	49	17	3	2	2							t77
	25		° 16	29	19	7	5								76
	30			9	4	7	5	3	1						59
	35			1	1	4	5	4	1		1				17
r.	40					1	2	2	3	1					9
BRIDES.	45							2	2	4	1				9
BRI	50												1		1
	5.5								2	• • • • • •		1			3
	60							- 1				1			2
	6.5												<u></u>		
	70 & over									1					1
	Age not stated.														
	TOTALS.	17	205	106	45	24	20	14	9	6	2	3	1		451

## Marriages by Denominations in the County of Lambton, 1914.

GROOMS.	Anglican,	Presby terian.	Methodist.	Roman Catholic.	Baptist,	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	34	9	9		4		2				3		60
Presbyterian	11	56	22	1	4	1	1	1			2		į
Methodist	17	25	110		8	2		1			2		175
Roman Catholic	2	3	ő	2.2							1		33
Baptist	7	10	5		26	1	1				. 2		5.2
Congregationalist	2	2	3			3							10
Lutheran	1		1										2
Evangelical Association													
Hebrew									1				1
Salvation Army										2			2
Others		?	5		1						5		10
No Denomination												1	1
Total Grooms	74	117	157	23	. 43	7	4	2	1	2	14	1	445

Licenses, 439,

Banns, 15.

## Marriages by Ages in the County of Lambton, 1914.

	AGE.	15	20	25	30	3 5	40	45	50	5 5	60	65	70 & over	Not stated	TOTAL
	15	9	50	18	2	2									81
	20	3	91	63	19	3	1	1							181
	25		15	52	17	9	2	2	3						100
	30		2	8	13	2	4				1				30
	35				5	7	4		3	2					21
	40				1	1	3	3	1						8
ES.	45				2			2	1	1	1	1			8
BRIDES.	50								4		1		1		6
BF	5.5									1.					1
	60											2			2
	6.5										1		1		2
	70 & over			<u></u>									1		1
	Age not stated.			1		1								2	4
	TOTALS	12	158	142	59	25	. 14	7	12	4	4	3	3		445

## Marriages by Denominations in the County of Lanark, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran,	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTALBRIDES.
Anglican	35	12	11		3						1		62
Presbyterian	18	42	5	2	2	4							73
Methodist	9	11	26	1	1								48
Roman Catholic		2	3	37									42
Baptist	2		4		3								9
Congregationalist	1	1				1					•••••		3
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Others											- 2		2
No Denomination									•••••				
TOTAL GROOMS	65	68	40	40	9	5					3		239

Licenses, 214.

Banns, 25.

## Marriages by Ages in the County of Lanark, 1914.

	Ages.	15	20	2.5	30	35	40	45	50	55	60	65	70 &over	Not stated	TOTALS
	15	2	25	7		1									35
	20	2	45	34	16	2		1							100
	2.5		3	24	19	3	1					1			51
	30		1	3	9	10	5	1							29
	35		1			4	2	1			1	1			10
	40				2		1	1			1				5
BRIDES.	45							1	2	1	1				5
BRI	50											•••••			
	5.5									1	1				~ 2
	60											1			1
	6.5								•						
	70 & over														
	Age not stated													1	<b>老婆</b> 1·
	Totals.	4	75	68	46	20	9	5	2	2	4	3		1	239

## Marriages by Denominations in the Counties of Leeds and Grenville, 1914.

·saging Grooms.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist,	Congregationalist.	Lutheran,	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	37	13	23	3	1		1						78
Presbyterian	11	33	15	4	1								64
Methodist	16	23	101	1	5					1	3		150
Roman Catholic	8	1	2	33						,	1		45
Baptist	2	1	2		ā								10
Congregationalist			1										1
Lutheran													
Evangelical Association													
Hebrew									1				1
Salvation Army					••••					• • • • • •			
Others			1								3	• • • • • •	4
No Denomination													
TOTAL GROOMS	74	71	145	41	12		1		1	1	7		353

Licenses, 327.

Banns, 26,

## Marriages by Ages in the Counties of Leeds and Grenville, 1914.

	Age.	15	20	2.5	30	35	40	45	50	55	60	65	70 &over	Not stated	TOTAL.
	15	3	49	12	1	1							1		67
	20	2	65	42	23	5	1		1						139
	2.5		9	27	16	7	2	2	1						64
	30		4	5	17	11	5		1						43
	35			2	5	7	5	1							20
ES.	40			2			1	2	1	2	1				9
BRIDES.	45							3	1	1	1				6
BE	50								1		1		1		3
	5 5											1			1
	60												1		1
	6.5														
	70 & over														
	Age not stated.														
	TOTALS.	5	127	90	62	31	14	8	6	3	3	1	3		253

#### Marriages by Denominations in the Counties of Lennox and Addington, 1914.

Groons.	Anglican,	Presbyterian.	Methodist,	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelieal Association.	Hebrew.	Salvation Army.	Others,	No Denomination.	Total Brinks.
Anglican	9	1	6		1				·				17
Presbyterian	1	2	2					1					6
Methodist	9	5	76		2						4		96
Roman Catholic	1	1	1	14									17
Baptist													
Congregationalist						1							1
Lutheran							1						1
Evangelical Association													
Hebrew													
Salvation Army										1			1
Others													
No Denomination													
TOTAL GROOMS	21	9	85	14	3	1	1	1		1	4	,	139

Licenses, 121

Banns, 18.

# Marriages by Ages in the Counties of Lennox and Addington, 1914. GROOMS.

AGE. TOTAL & over stated 1 ..... . . . . . . . . . . . . . . . . 1 ...... ..... . . . . . . . . 1 ..... 4.5 1 ..... 5.5 6.5 1 ..... & over TOTALS -) 

## Marriages by Denominations in the County of Lincoln, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	70	10	18	5	4	1				-	2		110
Presbyterian	16	32	6	í	1						3		5,8
Methodist	7	13	69	1	3		2				1		96
Roman Catholic	6	4	1	54			1		1		2		69
Baptist	4	4	7		16				,				:33
Congregationalist			2	1	1								4
Lutheran			1				1						2
Evangelical Association								1					1
Hebrew													
Salvation Army	2												2
Others			.0	1	1						13		17
No Denomination												1	1
TOTAL GROOMS	105	63	1 16	63	26	1	4	1	i		55	1	393

Licenses, 359.

Banns, 31.

## Marriages by Ages in the County of Lincoln, 1914.

		1													
	Age.	15	20	25	30	3 5	40	45	50	55	60	65	70 & over	Not stated	TOTAL.
	15	9	50	15	1		1								76
	20	3	86	59	22	2	2		1					,	175
	25		12	39	19	13	1		1						85
	30	1	1	5	9	6	3	1	1						27
v2	35		1		1	3	1	2	1						9
BRIDES	40				1	1	2	1	2		3				9
BR	45							1	2	1			1		5
	50								3						3
	5.5										1	1			2
	60											1			1
	65											1			1
	70 & over														
	Age not stated.														
	Totals.	13	150	118	53	25	10	5	11	1	3	3	1		393

## Marriages by Denominations in the County of Manitoulin, 1914.

Groons.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	9		1							••••			10
Presbyterian	2	13					1				1		17
Methodist	1	1	7		1					•••••			10
Roman Catholic				4									4
Baptist	,	1			2								3
Congregationalist													
Lutheran							1					.1	1
Evangelical Association													
. Hebrew													
Salvation Army													
Others													
No Denomination													
TOTAL GROOMS	12	15	8	4	3		2				1		45

Licenses, 44,

Banns, 1.

## Marriages by Ages in the County of Manitoulin, 1914.

	AGE.	15	20	25	30	35	40	45	50	5 5	60	65	70 & ov'r	Not stated	TOTAL.
	15	1	8	2	1										12
	20		7	9	1	3		1							21
	2.5			6	3										9
	30														
	35 .														
ะกั	40						1								1
BRIDES	45								1						1
BRI	50									.1					
	5 5														
	60														
	6.5														
	70 & over											1			1
	Age not stated.														
	TOTALS.	1	15	17	5	3	1	1	1			1			45

## Marriages by Denominations in the County of Middlesex, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	147	26	30	3	13						3		222
Presbyterian	33	122	37	4	8						4		208
Methodist	37	32	201	2	8	3	2				6		291
Roman Catholic	5	1	3	41	؞				/				52
Baptist	5	11	22		46								84
Congregationalist	1	1	3		1								6
Lutheran	2		1		1		1						5
Evangelical Association								1					1
Hebrew				• • • • • • • •					5				5
Salvation Army										7			7
Others	1	1	1								14		17
No Denomination			1		1								2
Total Grooms	231	194	299	50	80	3	3	1	5	7	27		900

Licenses, 863.

Banns, 37.

## Marriages by Ages in the County of Middlesex, 1914.

	AGE.	15	20	2.5	30	3 5	40	45	50	55	60	65	70 & over	Not stated	TOTAL
	15	6	82	31	3	1	2	1							126
	20	5	198	138	50	12	4								407
	25		26	107	49	19	7								208
	30		4	15	28	18	7		2	2	2				78
	35		1	1	12	8	5	6		3			1		37
ŝ	40				2	1	6	1	2	3	1				16
BRIDES.	45			1				2	4		1	1			9
BR	50						1	1		2	6				10
	55									1					1
	60									1		2			3
	65												1		1
	70 & over												1		1
	Age not stated.			1					1	1				1.25	3
	TOTALS	11	311	294	144	59	32	11	9	13	10	3	3		900

## Marriages by Denominations in the District of Muskoka, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran,	Evangelical . Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	16	1	6	1	1								25
Presbyterian	6	27	13		1	2	1						50
Methodist	4	6	30		4		1						45
Roman Catholic	1			8									9
Baptist	2		2		6								10
Congregationalist													
Lutheran													3
Evangelical Association			•••••										
Hebrew													
Salvation Army													
Others											3		3
No Denomination													
TOTAL GROOMS	29	34	51	9	12	2	5				3	•••••	142

Licenses, 131. Banns 11.

## Marriages by Ages in the District of Muskoka, 1914.

	AGE.	15	20	2.5	30	3 5	40	45	50	5 5	60	65	70 & ov'r	Not stated	TOTAL.
	15	2	29	8	2										41
	20		29	17	8	1	1	1				1			58
	25		4	14	4			1							23
	30			1	4		3								8
	3 5					2		1	1		1				5
	40				11	1					1				3
-	45						1								1
	50									1					1
	5.5														
	60												1		1
ĺ	6.5			,											
	70 & over														
	ge not stated.			1											1
Т	OTALS.	2	65	41	19	4	 5	3	1	1	2	1	1		142

## Marriages by Denominations in the District of Nipissing, 1914.

			`											
	Вкірез.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association,	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Ang	lican	27	3	3	2		• • • • •							36
Pres	byterian	3	22	5										30
Meth	nodist	4	ĩ	21	1	2					1			36
Rom	an Catholic	3	- 5	1	150							,.		156
Bapt	ist	1			1	3								5
Cong	regationalist													
Luth	eran		- ô					3						4
Evar	agelical Association													
Hebi	ew									1				. 1
Salva	ation Army										3			3
Othe	rs	,		1										1
No I	Denomination											1		1
	TOTAL GROOMS	38	36	31	155	õ		2		1	4	1		273

Licenses, 217.

Banns, 56.

## Marriages by Ages in the District of Nipissing, 1914.

	Age.	15	20	25	30	35	40	45	50	5.5	60	6.5	70 & ov r	Not stated	TOTAL.
	15	7	52	38	2	1	1		1						102
	20	1	45	48	10	3									104
	2.5		3	21	3	3		1							31
	30		1	4	4			1							10
	3 5			1	1	3	2	4							11
rô.	40	• • • • • • • • • • • • • • • • • • • •	1				2	2							5
BRIDES.	45							1		1		1			3
BRI	50							1	1			• • • • • •			2
	5 5	*******									1				1
	60														
	65										1			• • • • •	1
	70 & over			• • • • • • • •					••••			• • • • • •			
	Age not stated.		• • • • • • •	1	• • • • • • •					• • • • • •				2	3
	TOTALS	8	99	113.	. 20	10	5	10	3	1	2	1		2	273

## Marriages by Denominations in the County of Norfolk, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran,	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Bridges.
Anglican	15	2	4	1	2								24
Presbyterian	3	6	5		6					1			21
Methodist	5	6	69	1	11		1						93
Roman Catholic			2	5	2								9
Baptist	5	2	15	1	49						3		75
Congregationalist													
Lutheran							1						1
Evangelical Association													
Hebrew													
Salvation Army										2	1		3
Others	1										1		2
No Denomination													
TOTAL GROOMS	29	16	95	8	70		2			3	5		228

Licenses, 223.

Banns. 5.

## Marriages by Ages in the County of Norfolk, 1914.

	Age.	15	20	25	30	35	40	45	50	55	60	65	70 &over	Not stated	TOTAL.
	15	8	45	12	2	1									68
	20	2	44	31	7	2									86
	2.5	1	4	14	7	3	1						1		31
	30		1	5	2	4	4	2							18
	3 5		1		3	5	1	1	3						14
ró.	40				1			1							2
BRIDES	45					1	1								2
BRI	50									1	1				2
	5.5										1				1
	60												1		1
	6.5										2				2
	70 & over	• • • • • • • •											1		1
	Age not stated.														
	TOTALS	11	95	63	22	16	7	4	3	1	4		3		228

## Marriages by Denominations in the Countles of Northumberland and Durham, 1914.

. В вирем.	Anglican,	Presbyterian.	Methodist,	Roman Catholic.	Baptist	Congregationalist	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	41	20	13			1	1				1		59
Presbyterian	10	33	. 20	1		2							66
Methodist	18	28	143		2	1					4		196
Roman Catholic	3			19	1								23
Baptist	i	1	4		11								17
Congregationalist	2		1			1							4
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army										4			4
Others	1	1				1					7		10
No Denomination													
TOTAL GROOMS	76	65	181	20	14	6	1		•••••	4	12		379

Licenses, 364.

Banns, 15.

## Marriages by Ages in the Counties of Northumberland and Durham, 1914. GROOMS.

	AGE.	15	20	25	30	35	40	45	50	55	60	65	70 & over	Not stated	TOTAL.
	15	3	29	18	1					,					51
	20	2	86	60	16	6	3								173
	2.5		9	42	11	5	3	2			i				73
	30		1	7	9_	6	2	4	1	2					32
	35				4	10	3	4	2						23
လို	40		1	2		1	4		3	1			1		13
BRIDES.	45							2	2	2					6
BR	50									2			1		3
	5 5								1		1		1		3
	60												1		1
	6.5														
	70 & over														
	Age not stated.	1													1
	TOTALS.	6	126	129	41	28	15	12	9	7	2		4		379

### Marriages by Denominations in the County of Ontario, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hébrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	40	5	14		1						<b></b>	• • • • • •	60
Presbyterian	2	53	15	3	3						3		79
Methodist	11	12	98	2	ő					1	1		130
Roman Catholic	1			14									15
Baptist	1	4	5		7								17
Congregationalist													
Lutheran							1						1
Evangelical Association													
Hebrew									1				1
Salvation Army													
Others	1		1								3		5
No Denomination													
TOTAL GROOMS	56	74	133	19	16		1		1	1	~		308

Licenses, 296.

Banns, 12.

#### Marriages by Ages in the County of Ontario, 1914.

	AGE.	15	20`	25	30	35	40	45	50	5.5	60	65	70 & over	Not stated	TOTAL.
	15	6	37	12	3					1					59
	20		45	39	24	8	2	1							119
	25		11	36	19	9	1								76
	30			3	11	8	3	- 3							27
	3 5			2	ô	4				1					9
ria l	40						3	3	1		1	•••••			8
BRIDES.	45					1			3			1			7
BRI	50				1					1		• • • • • •			2
	5 5						• • • • •					• • • • •			
	60	·													
	6.5		* * * * * * * * *	• • • • • • •											
	70 & over														1
	Age not stated.														
	Totals.	6	93	9.3	60	30	11	6	4	3	1	1			308

#### Marriages by Denominations in the County of Oxford, 1914.

GRoons.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association,	Hebrew.	Salvation Army.	Others.	No Denomination.	Тотас Вигнея,
Anglican	56	6	14		4	1					1		82
Presbyterian	9	60	19		6	2	1						97
Methodist	9	19	79		14					1	1		123
Roman Catholic				17									17
Baptist	4	4	16	1	31						- 1		57
Congregationalist		1	1			1							3
Lutheran		. 3	1				5						9
Evangelical Association								1					1
Hebrew	•••••										•••••	• • • • • •	
Salvation Army										1			1
Others											10		10
No Denomination													
TOTAL GROOMS	78	93	130	18	55	4	6	1		2	13		400

Licenses, 379.

Banns, 21.

#### Marriages by Ages in the County of Oxford, 1914.

	AGE.	15	20	25	30	3 5	40	45	50	55	60	6.5	70 & over	Not stated	TOTAL
	15	4	44	19	2	3									72
	20	1	84	57	17	4	2								165
	25		19	38	18	8	ő								88
	30		3	7	12	6	2	4	1						34
	3 5			1	3	7	1	2	2	1					17
က်	40					3	3	3	2	-3					12
BRIDES.	45								3		1				4
BE	50		:						2	1	1				4
	5 5									1		1			- 2
	60										1	1			2
	6.5														
	70 & over														
	Age not stated.														
	TOTALS	5	149	122	25	30	13	9	10	5	3	2			400

## Marriages by Denominations in the District of Parry Sound, 1914.

Groons.	Anglican.	Presbyterian	Methodist.	Roman Catholic.	Baptist,	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army,	Others.	No Denomination.	TOTAL BRIDES.
Anglican	19	9	13	1							2		44
Presbyterian	3	32	4	2							1		42
Methodist	9	5	38	1	2								55
Roman Catholic			1	31			1				2		35
Baptist			1		6								7
Congregationalist													
Lutheran	1										•••••		1
Evangelical Association			1										1
Hebrew													
Salvation Army			1			••••							1
Others					• • • • • •								
No Denomination													
TOTAL GROOMS	32	46	59	35	8		1			• • • • • • • • • • • • • • • • • • • •	5		186

Licenses, 161.

Banns, 22.

### Marriages by Ages in the District of Parry Sound, 1914.

	AGE.	15	20	2.5	. 30	3.5	40	45	50	55	60	65	70 & over	Not stated	TOTAL
	1.5	3	34	16	6	4	1								64
	20	1	20	42	8	4									75
	2.5		6	15	6	1,	1								29
	30		1	2	4	1		1		1					10
	3 5				2	-1									3
ŝ	40			1		1	1								3
BRIDES.	45								1						1
BRJ	50														
	5 5								1						1
	60												• • • • • •		
	6.5								• • • • •			•••••	•••••		
	70 & over										• • • • •				
	Age not stated.														
	TOTALS	4	61	76	2ช	12	3	1	2	1				•••••	186

## Marriages by Denominations in the County of Peel, 1914.

G troons.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	20	5	4								1		30
Presbyterian	5	22	12	1	2								42
Methodist	5	7	35		3								47
Roman Catholic	1		*	12									13
Baptist		2	3								• • • • • •		5
Congregationalist													
Lutheran													
Evangelical Association	• • • • • •												
Hebrew													
Salvation Army					•••••								
Others													
No Denomination													
TOTAL GROOMS	31	36	51	13	5	•••••		•••••	•••••	•••••	1		137

Licenses, 128.

Banns, 9,

### Marriages by Ages in the County of Peel, 1914.

GROOMŞ.

	AGE.	15	20	25	30	35	40	4.5	50	5.5	60	65	70 & over	Not stated	TOTAL.
	15		6	2	2										10
	20	1	24	23	8	6	2								64
	2.5		4	23	11	2	1								41
	30		1	3	4	1		1							12
	3 5				2	1	1	1	1						6
oź.	40							1		1	1				3
BRIDES.	45							1							1
ВКІ	50				••,•,•••										
	55														
	60														
	6.5		•••••	• • • • • • •											
	70 & over														
	Age not stated.														
	TOTALS.	1	35	51	27	10	6	4	1	1	1				137

## Marriages by Denominations in the County of Perth, 1914.

Выграв Споомя.	Anglican,	Presbyterian,	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES,
Anglican	36	20	12	1	2				•••••		1		72
Presbyterian	11	47	17		5	1	8	1			2		92
Methodist	12	8	56		1		2	2					81
Roman Catholic	1	1	2	31			1°						36
Baptist		2	2		5								9
Congregationalist		.,	1			1							2
Lutheran	3	3	6		1		35				1		49
Evangelical Association		2	1				3	10					16
Hebrew													
Salvation Army										3			2
Others											6		6
No Denomination			1				1					1	3
TOTAL GROOMS	63	83	98	32	14	2	50	13		2	10	1	368

Licenses, 351.

Banns, 17.

## Marriages by Ages in the County of Perth, 1914.

	AGE.	15	20	2.5	30	3 5	40	45	50	5 5	60	6.5	70 & over	Not stated	TOTAL.
	15		20	14	3	2		1				•••••			140
	20	1	77	69	16	8						•••••			171
	2.5		12	47	28	7	2								96
	30		1	6	8	7	5	2	:	1		•••••			30
	3 5			1	1	4	3	1							10
ŝ	40			1			1			2					4
BRIDES.	45						2		1		2	1			6
BRI	50							1	1		3	1			6
	5.5									1		1			2
	60											2	1		3
	6.5														
	70 & over														
	Age not stated.														
	TOTALS.	1	110	138	56	28	13	5	2	4	5	5	1		368

## Marriages by Denominations in the County of Peterborough, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides,
Arglican	50	7	13	3	2						1		_ 76
Presbyterian	6	42	24		1								73
Methodist	10	23	75	2	3	1					2		116
Roman Catholic	2	1		66	1								70
Baptist	3	1	2		3		1						10
Congregationalist													
Lutheran													
Evangelical Association					.,								
Hebrew													
Salvation Army			1							2			3
Others	1	1	. 1								1		4
No Denomination			1									1	- 2
Total Grooms	72	75	117	71	10	1	1			2	4	1	354

Licenses, 291.

Banns, 63.

#### Marriages by Ages in the County of Peterborough, 1914.

	Aoe.	15	20	2.5	30	3 5	40	45	50	5.5	60	65	70 & over	Not stated	TOTAL
	15	2	30	15	5	4	1								57
	20	3	96	43	14	4	1								161
	2.5		8	34	14	10	1		1						68
	30	• • • • • • • •	1	6	. 12	3	3	4	1						30
	35			2	3	2	1	5	2						15
ŝ	40				1	1		3	1						6
BRIDES.	45				1	1		2	2	1	1				8
BR	50							2	1	2	1				6
	5.5										2				2
	60														
	6.5														
	70 & over									1					1
	Age not stated.														
	TOTALS	5	135	100	50	25	7	16	8	4	4				354

# Marriages by Denominations in the Counties of Prescott and Russell, 1914.

	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	11	2											13
Presbyterian	4	22	1							·····		•••••	27
Methodist	3	4	5										12
Roman Catholic	1	1		273									275
Baptist		2	1										3
Congregationalist													
Lutheran													
Evangelical Association												••••	
Hebrew													
Salvation Army													
Others													
No Denomination ,											:		
TOTAL GROOMS	19	31	. 7	273									330

Licenses, 211.

Banns, 119.

# Marriages by Ages in the Counties of Prescott and Russell, 1914.

	AGE.	15	20	2.5	30	35	40	45	50	55	60	65	70 & over	Not stated	TOTAL
ĺ	15	8	61	28	7	1									105
	20	2	71	56	9	1	1	1						1	142
-	25		6	15	9	6									36
	30		1	4	6	2	2	2							17
	. 35				1		2	1							4
τά	40				1		3				•••••				4
BRIDES.	45					1			1						2
BR	50						• • • • • •		1	1					2
	55							1		1					2
	60												1		1
	65											11			1
	70 & over														
	Age not stated.													14	14
	TOTALS	10	139	103	33	11	8	5	2	2		1	1	15	330

# Marriages by Denominations in the County of Prince Edward, 1914.

G ROOMS.	Anglican,	Presbyterian.	Methodist,	Roman Catholic.	Baptist.	Congregationalist,	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	5	4	4										13
Presbyterian		1	3	1	1						1		7
Methodist	8	3	76	1	1	1					2		-87
Roman Catholic	2	1		2									-5
Baptist	2				2								-4
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Others											1		1
No Denomination			ĺ										
Total Grooms	. 12	9	83	4	4	1					4	. /	117

Licenses, 115.

Banns, 2.

#### Marriages by Ages in the County of Prince Edward, 1914.

	Age.	15	20	25	30	3 5	40	45	50	55	60	65	70 & over	Not stated	TOTAL.
	15	1	23	1	3										28
	20	2	37	15	2	2	2								60
	2.5			7	3	1	2								13
	30		1	1	2	4		1							9
	3 5														
si l	40							1							1
IDES.	4.5									1	1				2
BRI	50											1			1
	55														
	60										1	2			3
	6.5														
	70 & over														
	Age not stated.														
	TOTALS.	3	61	24	10	7	4	2		1	2	3			117

# Marriages by Denominations in the District of Rainy River, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others,	No Denomination.	Total Brides.
Anglican	5	3	2		1							••••	11
Presbyterian	3	17	5	1	2								28
Methodist	1	3	12	3			2						21
Roman Catholic		2	3	33									38
Baptist	1	1	1		2								5
Congregationalist													
Lutheran	3	1	2		1		11						18
Evangelical Association													
Hebrew													• • • • • •
Salvation Army													
Others											4		4
No Denomination													
TOTAL GROOMS	13	27	25	37	6	•••••	13				4	•••••	125

Licenses, 105.

Banns, 20.

#### Marriages by Ages in the District of Rainy River, 1914.

	AGE.	15	20	2.5	30	3 5	40	45	50	5 5	60	65	70 & over	Not stated	TOTAL.
	15		17	13	6	3									39
	20		18	21	3	4	2								48
	2.5		1	7	9	4		1							22
	30		1	2	4	1	3								11
	3 5				1										1
ŵ	40					1				1					2
BRIDES.	45								1						1
BRI	50														
	5.5														
	60														
	6.5														
	70 & over														
	Age not stated.		1												1
	TOTALS.		38	43	23	13	5	1	1	1					125

## Marriages by Denominations in the County of Renfrew, 1914.

у да да да да да да да да да да да да да	Anglican.	Presbyterian.	Methodist,	Roman Catholic.	Baptist.	Congregationalist.	Lutheran,	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	22	5	5		1	1	1		·		1		36
Presbyterian	4	56	18	2	3		1	2					86
Methodist	3	8	29		1		2	1		1			45
Roman Catholic	4	4		194	1			·			2		135
Baptist		4	1	1	14		3						23
Congregationalist		1											1
Lutheran		2	4				51						57
Evangelical Association		1	1		2		2	14					20
Hebrew													
Salvation Army			1										1
Others											4		4
No Denomination													
TOTAL GROOMS	33	81	59	127	42	1	60	17	•••••	1	7		408

Licenses, 318.

Banns, 90.

## Marriages by Ages in the County of Renfrew, 1914.

	AGE.	15	20	25	30	3 5	40	45	50	5 5	60	65	70 %over	Not stated	TOTAL.
	15	5	41	20	5		2	1							74
	20	. 2	83	76	26	8	2	2							199
	25		9	33	21	9	6	2							. 80
	30		1	8	8	1	2		2						42-
	3 5		1	1	4	5	1	1	1		1				15
vó.	40					1	1	3	2	1	1				9
BRIDES.	45							1		2					3
BR	50									1					1
	55														
	60														
	65												1		1
	70 & over														
	Age not stated.			1	3										4
	TOTALS	7	135	139	67	24	14	10		4	2		1		408

## Marriages by Denominations in the County of Simcoe, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Bridge.
Anglican	67	25	22	2	6	2					2		126
Presbyterian	31	86	36	1	4						1		159
Methodist	23	31	98		2 ·		1			1	3		159
Roman Catholic		1		113									114
Baptist	3	2	4		8	1	1				1		19
Congregationalist			1										1
Lutheran													
Evangelical Association								1					_ 1
Hebrew									3				3
Salvation Army	1												_1
Others					2						14		16
No Denomination													
TOTAL GROOMS	124	145	161	116	22	3	5	1	3	1	21		599

Licenses, 593.

Banns, 96.

## Marriages by Ages in the County of Simcoe, 1914.

	Age.	15	20	25	30	3 5	40	45	50	55	60	6.5	70 & oyer	Not stated	TOTAL
	15	. 2	_77	46	12	5	1	. 5	1						149
	20	. 5	81	86	32	9	1	1							212
	25		13	อ้อ	38	13	2	1			• • • • •				122
	30		2	11	25	10	6	2							56
	3 5		1	3	3	5	2	4	1	1					20
ŝ	40				1	2	5		6	1					15
BRIDES.	4 5					1	1	4	2						. 8
BR	50							2	1	1	1			•••••	5
	5 5									1	1	1			3
	60											1	1		. 2
	6.5											3	1		4
	70 & over														
	Age not stated.		1	1										1_	3
	TOTALS	7	175	202	111	45	18	16	11	4	2	5	2	1	599

# Marriages by Denominations in the Counties of Stormont, Dundas and Glengarry, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others,	No Denomination.	TOTAL BRIDES.
Anglican	15	11	11	3			2						42
Presbyterian	11	78	25	2	3	2	1						122
Methodist	6	18	52	7	4	1	1				1		90
Roman Catholic	6	5	1	136	1							2	151
Baptist		2	3		2		í						8
Congregationalist		1	1			2							4
Lutheran	2	1	1				8						12
Evangelical Association				••••••									
Hebrew													
Salvation Army													
Others											1		1
No Denomination													
TOTAL GROOMS	40	116	94	148	10	5	13				- 2	2	430

Licenses, 343.

Banns, 87.

# Marriages by Ages in the Counties of Stormont, Dundas and Glengarry, 1914.

	Age.	15	20	25	30	35	40	45	50	55	60	65	70 & over	Not stated	TOTAL.
	15	5	55	22	3	1		í							87
	20	4	81	56	25	10	2	1	1						180
	25		9	41	32	8	2								92
	30		2	6	9	7	3	- 4	1						32
	35				3	3	2	1	5			1			15
ŝ	40					1	1	3	2	2		1			10
BRIDES.	45						1	1		1					3
ВК	50	••••••							1	2					3
	5.5	• • • • • • • • • • • • • • • • • • • •		1					1	1			1	•••••	4
	60	•••••								1	1		• • • • • • • • • • • • • • • • • • • •		2
	6.5	•••••				• • • • • • •			<u>.</u>				•••••		
	70 & over	••••••													
Chamber of	Age not stated.			1	1										2
	TOTALS.	9	147	127	73	30	11	11	11	7	1	2	1	•••••	430

# Marriages by Denominations in the District of Sudbury, 1914.

GROOMS.	Anglican.	Presbyterian,	Methodist,	Roman Catholic.	Baptist.	Congregationalist,	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	23	4	3	2	1	] ]		ļ					33
Presbyterian	4	17	3								1		25
Methodist	3	2	10	1	1					1			18
Roman Catholic	1	2	1	109							3		116
Baptist			1		1							•••••	2
Congregationalist													
Lutheran	1		1				27						30
Evangelical Association													
Hebrew									1				1
Salvation Army													
Others											2		2
No Denomination													
TOTAL GROOMS	32	26	19	112	3		27		1	1	6		227

Licenses, 181.

Banns, 46.

#### Marriages by Ages in the District of Sudbury, 1914.

	Aoe.	15	20	2.5	30	3 5	40	45	50	55	60	65	70 & over	Not stated	TOTAL.
	15	3	46	13	7	1	1								71
	20	2	40	32	12	3									89
	2.5	1	5	23	7	5	1								42
	30		1	2	5	4	2								14
	3 5			1	2		1								4
ŵ	40	• • • • • • •	•••••		1				1						2
BRIDES	45				1	1									2
BR	50								3				• • • • • •		3
	5 5														
	60														
	6.5						• • • • • •								
	70 & over														
	Age not stated.														
	Totals.	6	92	71	35	14	5		4						227

## Marriages by Denominations in the District of Thunder Bay, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	74	11	10	2	3						_1		101
Presbyterian	11	57	11	4	3		1						87
Methodist	4	16	29	2		1	2				1		55
Roman Catholic	4	2	3	123							3		135
Baptist	2	3	1		7						1		14
Congregationalist						1							1
Lntheran	1	3		1			62						67
Evangelical Association								1	1			• • • • • •	2
Hebrew													
Salvation Army					1								
Others	2		2		1						26		31
No Denomination													
TOTAL GROOMS	98	92	56	132	14	2	65	1	1		32		493

Licenses, 405.

Banns, 88.

# Marriages by Ages in the District of Thunder Bay, 1914. GROOMS.

	Age.	15	20	2.5	30	35	40	45	50	55	60	65	70 &over	Not stated	TOTAL
	15	5	75	41	11	3	2								137
	20	1	79	81	28	4		1							194
	2.5		9	65	15	10	4								103
	30		1	8	7	6	3								25
	3 5				8	3	3	5	1						20
တ်	40					2	1		1		1				5
BRIDES.	45				1	2	1	1	2						7
BR	50														
	5.5														
•	60														
	6.5												1		1
	70 & over														
	Age not stated.													1	-1
	TOTALS	6	164	195	70	30	14	7	4		1		- 1	1	493

# Marriages by Denominations in the District of Timiskaming, 1914.

Gaoons.	Anglican,	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	29	6	<b>1</b> 1	2	3					1			.52
Presbyterian	4	39	9		4		2						58
Methodist	1	6	• 27	1	4						1		40
Roman Catholic	6	2	, ડ	80	3		1				1		96
Baptist	1	4	2		3								10
Congregationalist					1								1
Lutheran	1	1	*2				14						18
Evangelical Association													
Hebrew				,					1				1
Salvation Army													
Others		1	1								10		12
No Denomination													
TOTAL GROOMS	42	59	55	83	18		17		1	1	12		288

Licenses, 260.

Banns, 28.

# Marriages by Ages in the District of Timiskaming, 1914.

	Age.	1 5	20	25	30	3 5	40	45	50	5 5	60	65	70 & over	Not stated	TOTAL.
	15	3	40	21	8	4									76
	20	. 1	62	37	19	4		1							124
	25		10	20	9	5		1							45
	30		1	4	12	5	3	2	1						28
	3 5				4	3	1		1						9
υż	40					1	2	1				• • • • •			4
BRIDES.	45						1	• • • • • •							1
BR	. 50														
	5 5								1						1
	60											• • • • • •			
	6.5														
	70 & over													••••	
	Age not stated.														
	TOTALS	4	113	82	52	22	7	5	3	•••••		•••••	•••••	•••••	288

# Marriages by Denominations in the County of Victoria, 1914.

sa eiu g Grooms.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran,	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	30	3	5		1						1		40
Presbyterian	9	31	12	2									54
Methodist	8	7	80	1	6								102
Roman Catholic	1	1	2	15									19
Baptist	2	3	2		7								14
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army					1						:		1
Others	2										1		3
No Denomination	1												1
Total Grooms	53	45	101	18	15						2		234

Licenses, 220.

Banns, 14.

#### Marriages by Ages in the County of Victoria, 1914.

	Age.	15	20	2.5	30	3 5	40	45	50	5.5	60	65	70 & over	Not stated	TOTAL.
	15	1	19	12	4	1									37
	20	2	40	44	24	1	2								113
	2.5	• • • • • • •	4	22	15	5	1								47
	30		1	1	10		2								14
	35		1		1	5	3	2	1	• • • • •					13
S.	40	••••••					2	1							_ 8
BRIDES.	45							1							1
BR	50			•••••					1	1					2
	5.5									1					1
	60										1				1
-	65											1		•••••	_ 1
	70 & over												1	,.	1
	Age not stated:														
	TOTALS	3	65	79	54	12	10	4	2	2	1	1	1		234

# Marriages by Denominations in the County of Waterloo, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist,	Lutheran,	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	42	11	11		2	1	3				2		72
Presbyterian	8	66	12	1	3	1	7	2		1	3		104
Methodist	3	7	47		1		12				7		77
Roman Catholic	2	2	2	120			5	3					134
Baptist	2	1		1	10		6	1			1		22
Congregationalist		2	1			1							4
Lutheran	10	6	5	4	5		88	2			1		121
Evangelical Association		1			1		2	20		1	2		27
Hebrew									5				5
Salvation Army	1									1			2
Others			4		2		1	1			56		64
No Denomination													
& Total Grooms	68	96	82	126	24	3	124	29	5	3	72	•••••	632

Licenses 472.

Banns, 160.

## Marriages by Ages in the County of Waterloo, 1914.

	Age.	15	20	25	30	3.5	40	45	50	5.5	60	6.5	70 & ov'r	Not stated	TOTAL
	15	9	73	17	5	2								•••••	106
	20	5	146	107	24	3		• • • • •							285
	25		29	70	35	7	4								145
	30		4	7	15	8	4	2	1					•••••	41
	35			2	6	12	2	2	3				1		28
82	40				1		3	1	1	1					7
BRIDES.	45						5	1					1		7
BR	50	•••••							6		1	1			8
	5.5									1			2		3
	60												1		1
	6.5														
	70 & over			• • • • • • • •									1		1
	Age not stated.														
	TOTALS	14	252	203	86	32	18	6	11	2	1	1	6		632

#### Marriages by Denominations in the County of Welland, 1914.

	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran,	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	99	28	16	8	9	1	3	1			6		171
Presbyterian	13	55	21	12	8		5				5		119
Methodist	28	9	89	10	14	1	7	2	1		7		168
Roman Catholic	4	4	7	75	4		6	1		• • • • • •	7		108
Baptist	9	5	7	4	23	1	1				· 2		52
Congregationalist	• • • • • • •	1	1			4					1		7
Lntheran	4	3	7	5		1	22	1			4		47
Evangelical Association		1	1	1									3
Hebrew									1				1
Salvation Army										1			1
Others	1	2	2	2	1		+ 1		• • • • • •		57		66
No Denomination													
TOTAL GROOMS	158	108	151	117	59	- 8	45	5	3	1	89		743

Licenses, 703.

Banns, 40.

# Marriages by Ages in the County of Welland, 1914.

	Age.	15	20	25	30	3.5	40	45	50	55	60	65	70 & ov'r	Not stated	TOTAL
	15	7	119	31	2	2	1								162
	20	5	142	80	29	7	3	1	1						268
	25	2	16	65	43	18	4	2	1	• • • • • •					151
	30		2	17	28	16	5	4	2	1	1				76
	3 5			3	3	11	4	6	4	3					34
92	40				5	3	7	4	4	3					28
BRIDES.	45			1	1	1	2	3	4	1					13
BR	50						1	3	4	2		1			11
	5.5									1	1				2
	60				• • • • • • • • • • • • • • • • • • • •						2				2
i	. 65												1		1
1	70 & over						•••••	• • • • • •							
	Age not stated.														
	TOTALS	14	279	197	108	58	27	23	20	11	4	1	1		743

## Marriages by Denominations in the County of Wellington, 1914.

gg Groons.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	27	11	7	1			1				i		48
Presbyterian	10	85	29	i	2						6		133
Methodist	2	22	58	2	3	1	1				5		- 94
Roman Catholic	3	2	5	41							1		- 52
Baptist	1	2	8		7					1			18
Congregationalist		1				3							4
Lutheran		1	1				1						.3
Evangelical Association								1					- i
Hebrew									<u></u>				
Salvation Army													
Others											5		3
No Denomination													. :
Total Grooms	43	124	108	45	12	4	3	1			18		358

Licenses, 317.

Banns, 41.

## Marriages by Ages in the County of Wellington, 1914.

	Age.	15	20	2.5	30	3 5	40	45	50	55	60	65	70 & over	Not stated	TOTAL
	15		31	12	2		1		*****						46
	20		78	61	15	4	1				·····	1			160
	2.5		8	44	19	7	2		1						81
	30		1	3	14	8	ř		- 2		1-				29
	3 5			2	2	5	5	1							15
<sub>ဟို</sub>	40				1		3	5	2		2		:		13
BRIDES.	45					1	1	•••••	·		3				. "5
BR	50	• • • • • • •							3					•••••	3
	5.5						1				1		1		3
	60											1			1
	6.5	• • • • • • •					•••••	•••••							
	70 & over												1		1
	Age not stated.													1	• 1
	TOTAL		118	122	53	25	14	6	8		7	2	2	1	358

#### Marriages by Denominations in the County of Wentworth, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist,	Roman Catholic.	Baptist.	Congregationalist.	Lutheran,	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Angl can	213	49	38	11	7	3	4	1			4	3	333
Presbyterian	43	163	44	4	10	1	1				3	2	271
Methodist	44	40	212	9	13	7	4				3		332
Roman Catholic	13	8	9	144	2	1	3	1	1			3	185
Baptist	11	15	16	3	29						· 1.	. 3	78
Congregationalist	2	3	3	• 1	1	15	2,4 4 4 4						25
Lutheran	4	3	6	1			6				1		. 21
Evangelical Association					:			2					. 2
Hebrew				1					30				31
Salvation Army	1									2			3
Others	′ 3	4	3	1	1						22		34
No Denomination	3			.,					.,			2	5
Total Grooms	337	285	331	175	63	27	18	4	31	2	31	13	1,320

Licenses, 1,190.

Banns, 130.

## Marriages by Ages in the County of Wentworth, 1914.

		1			,					,	(				
	AGE.	15	20	2.5	30	3 5	40	45	50	5.5	60	6.5	70 &over	Not stated	TOTAL.
	15	28	158	62	8				,						256
	20	4	291	203	44	11	2	6							561
	25		42	161	67	25	5	2	3	1	1				307
	30		7	26	41	17	11	4							106
	3 5			2	12	14	10	3	1			1			43
s.	40				3	3	9	1	. 3	1	1				. 21
BRIDES.	45						1	1	2	3				1	
BR	50			• • • • • • • •	• • • • • • • •		1		.,.,,	5	1	1	1		- ; 9
	5 5			• • • • • • • • • • • • • • • • • • • •							_ 1	1	1		, 3
	60									,			2		. 2
	65	• • • • • • •											_ 1		1
	70 & over														
	Age not stated.				1	1							1		3
	TOTALS	32	498	454	176	71	39	17	9	10	4	3	6	1	1,320

# Marriages by Denominations in the County of York, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	1,512	232	225	52	57	16	12	1	1		20	6	2,134
Presbyterian	264	897	175	30	40	10	8		2	3	24	7	1,460
Methodist	190	167	731	21	49	10	5	1			12	1	1,187
Roman Catholic	70	29	29	450	1		1				9	7	596
Baptist	53	57	50	i	167		2	i			5	1	336
Congregationalist	15	13	12	1	4	38	1				2	1	87
Lutheran	7	ő	ő	2		2	37				1		59
Evangelical Association	1	1	1		1			1					5
Hebrew		1							254				255
Salvation Army	2		2	1						32			37
Others	118	20	16	9	3	2	2	1			108		179
No Denomination	1	3	1	4					2			12	23
TOTAL GROOMS	2,133	1,425	1,247	571	321	78	68	5	259	35	181	35	6,358

Licenses, 5,748.

Banns, 610.

# Marriages by Ages in the County of York, 1914.

	Age.	15	20	2.5	30	3 5	40	45	50	5 5	60	6.5	70 & over	Not stated	TOTAL.
	15	64	620	179	25	11	5	i	3						907
	20	29	1,317	1,033	246	59	21	ő	1						2,711
	2.5	1	257	849	339	116	30	5	6	2	1			1	1,607
	30		22	155	230	103	36	26	13	2	3				590
	3 5		4	31	53	70	57	35	7	2	7	- 3	1		269
or l	40		. 3	2	20	22	32	25	15	13	4	1			137
BRIDES.	45				4	5	7	22	16	13	7				74
BRI	50				2		3		6	10	6	5	2		34
	5.5							1		2	1		2		6
	60							1			3		3		7
	6.5						1					2	3		5
	70 & over							3		1	1				5
	Age not stated.		1	1	3				1						6
	TOTALS	94	2,224	2,250	922	386	192	124	67	45	33	12	8	1	6,358

#### Marriages by Denominations in the Cities of Ontario, 1914.

й д д д в Споомз.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	2,327	431	392	88	96	27	27	2	1	1	42	9	3,443
Presbyterian	440	1,547	339	63	76	19	26	1	2	3	47	10	2,573
Methodist	319	339	1,545	56	108	30	31	2	1	1	35	1	2,498
Roman Catholic	148	68	79	1,539	12	1	19	3	3		29	11	1,912
Baptist	111	117	127	9	389	2	11	2			17	4	789
Congregationalist	24	20	30	6	6	71	1				5	1	164
Lutheran	28	14	31	16	8	2	185	5			6		292
Evangelical Association	1	4	2		4	2	6	13			3		35
Hebrew		1		2					334				337
Salvation Army	5		3		1					61			70
Others	26	27	33	16	11	2	5	4			270		394
No Denomination	4	3	1	4	1				2			15	30
Total Grooms	3,463	2,571	2,582	1,799	712	156	311	29	343	66	454	51	12,537

Licenses, 11,281.

Bauns, 1 256.

#### Marriages by Ages in the Cities of Ontario, 1914.

	Age.	15	20	25	30	3 5	40	45	50	5 5	60	6.5	70 & over	Not stated	TOTAL.
1	15	185	1,346	440	63	29	12	4	3						2,083
	20	70	2,617	1,973	476	128	36	15	2						5,317
	2.5	2	437	1,480	649	236	72	16	16	3	1	1		1	2,914
	30	1	47	269	444	214	86	41	23	6	7				1,138
	3 5		8	38	104	136	101	64	26	6	10	4	1		498
χĵ	40		3	1	33	42	74	43	37	24	13	2			274
BRIDES.	45			5	9	11	15	40	33	24	18	4	1	1	158
BRI	50				2		5	6	26	17	16	7	5		84
	5 5						1	2	2	5	8		4		22
	60							2	1		4	7	1		15
	65						1			1	1	4	3		10
	70 & over							3		1	1		1		6
	Age not stated.		2	2	5	1			2			1		6	19
	TOTALS	258	4,460	4,208	1,785	797	403	236	171	87	`78	30	16	8	12,537

# Marriages by Denominations in the City of Belleville, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others,	No Denomination.	TOTAL BRIDES.
Anglican	16	10	6	í	1								54
Presbyterian	3	3	1										7
Methodist	11	6	47	3	1	• • • • • •					1		68
Roman Catholic	1			1)			•••••						11
Baptist	1		1	1	3								_ 5
Congregationalist													
Lutheran												•••••	** * 9 * *
Evangelical Association													•••••
Hebrew												•••••	*****
Salvation Army					1					1	<u></u>		2
Others											3		3
No Denomination													
TOTAL GROOMS	32	19	55	14	5				•••••	-1	4	•••••	130

Licenses, 112.

Banns, 18.

# Marriages by Ages in the City of Belleville, 1914.

	AGE.	15	20	2 5	30	35	40	45	50	5 5	60	65	70 &over	Not stated	TOTAL
	15	• 4	17 ·	5	5	_ 1	. 1								30
	20	1	- 27	17	2	2									49
	25		4	10	8	_ 1			<u></u>						23
	30		·· i	9	8	1									19
j	35		1		1						. 1		.::1.:		8
vi.	40					_ 1					_ 1				2
BRIDES.	45							1			1	1			_ 3
BRI	50														
	55		مسياد				•••••				1				1
	60														
	6.5												.1		
	70 & over										. <u>i</u>				<u></u>
	Age not stated.														
	TOTALS	5	50	41	21	6	1	1			4	1			130

#### Marriages by Denominations in the City of Berlin, 1914.

TOTAL BRIDES.
10
13
28
67
7
3
54
15
4
1
20
222

Licenses, 160.

Banns, 62.

## Marriages by Ages in the City of Berlin, 1914.

	Age.	15	20	25	30	35	40	45	50	55	60	65	70 & over	Not stated	TOTAL
	15	7	30	10		1									48
	20	4	55	35	6										100
	2.5	•••••	7	24	12	1	2								. 46
	30		1	1	2	4									11
	35				1		2	1	2						6
	40				1	, , , , , , ,	1		1						8
BRIDES	45						2	1					1		4
381	50								2		1				3
	5 5								1						1
	60														
	6.5														
	70 & over														
	Age not stated.														
	TOTALS	11	93	73	22	6	7	2	6		1		1		222

## Marriages by Denominations in the City of Brantford, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran,	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	50	7	8	1	1	2							69
Presbyterian	6	29	10		1	1					1		48
Methodist	4	6	83		3	1							47
Roman Catholic	1	1		39	2						1		44
Baptist	6	5	9		38						2		60
Congregationalist	2		3			5					1		11
Lutheran			1				2						3
Evangelical Association													
Hebrew									1				1
Salvation Army										3			3
Others			1		1						8		10
No Denomination													
Total Grooms	69	48	65	40	46	9	2		1	3	13		296

Licenses, 261.

Banns, 35.

## Marriages by Ages in the City of Brantford, 1914:

	AGE.	15	20	25	30	3 5	40	45	50	5.5	60	6.5	70 & over	Not stated	TOTAL.
	15	2	42	10											54
	20	1	66	61	11	2	1								142
	2.5		11	18	10	3	1								43
	30		1	7	13	5	ā	1	1						33
	35	• • • • • • • • • • • • • • • • • • • •	1		1	3	2	4							11
ŝ	40	• • • • • • •				1		1	1		1	1			5
BRIDES.	45				2					2					4
BR	50							1							1
	5.5									1					1
	60														
	6.5														
	70 & over														
	Age not stated.											1		1	2
	TOTALS	3	121	96	37	14	9	7	2	3	1	5		1	296

# Marriages by Denominations in the City of Chatham, 1914.

Виграз Окофия.	Anglican,	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES,
Anglican	19	5	6		1								31
Presbyterian	2	23	7	1									33
Methodist	6	6	48		7						1	:	68
Roman Catholic	1	2	4	24									31
Baptist	5	2	2		15						1	·	25
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army										2			2
Others			1			,					3		4
No Denomination													
Total Grooms	33	38	68	25	23					2	5		194
Methodist	6 1 5	6 2 2 2	48 4 2	24	15					2	1		68

Licenses, 177.

Banns, 17.

## Marriages by Ages in the City of Chatham, 1914.

	AGE.	15	20	2.5	30	3 5	40	45	50	55	60	6.5	70 & over	Not stated	TOTAL.
	15	6	42	7		1									56
	20	1	35	23	13	1	2	1							76
	25		6	11	5	2	4								28
	30			3	2	3	4	2	1						15
	3 5					2	1	1	1						5
ŝ	40						1		2	1					4
BRIDES.	45							2	, 1	3	1				7
BR	50												1		1
	5 5								1						1
	60							1							1
	6.5														
	70 & over														
	Age not stated.	••••••			• • • • • • • •		•••••		•••••						
	TOTALS	7	83	44	20	9	12	7	6	4	1	•••••	1		194

## Marriages by Denominations in the City of Fort William, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	44	5	4	1	1					1	1		57
Presbyterian	ż	31	2	1	1		1				1	1	41
Methodist	1	ő	12			1	1						21
Roman Catholic	2		1	99							3	1	106
Baptist	1		1		3								5
Congregationalist						1							1
Lutheran		1					9						10
Evangelical Association													
Hebrew									1				1
Salvation Army													
Others	2				1						7		10
No Denomination					1							1	2
TOTAL GROOMS	53	43	2)	101	7	2	11		1	1	12	3	254

Licenses, 210.

Banns, 44.

# Marriages by Ages in the City of Fort William, 1914.

	Age.	15	20	2.5	30	35	40	45	50	5.5	60	65	70	Not	TOTAL
	15	9	40	33	5								& over		80
		~	*1	0.0								•••••			- 00
	20	1	41	45	16	3				• • • • • • •	•••••				106
	2.5	• • • • • • •	4	21	7	. 6	3								41
	30		1	6	3	1	2								13
	3 5				3	2	- 2	2							9
ź	40					1			1						2
BRIDES	45						1		1						2
BR	50														
	5 5														
	60														
	6.5												1		1
	70 & over														
	Age not stated.												-		
	TOTALS	3	86	105	34	13	8	2	. 2		•••••		1		254

#### Marriages by Denominations in the City of Guelph, 1914.

SE ULB ES COMMENTE OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE COMMENT OF THE SE C	Anglican.	Presbyterian.	Methodist,	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination,	Total Bridge.
Anglican	24	4	* 5							• • • • •			33
Presbyterian	4	27	9		1								41
Methodist	2	4	17	2	1	1					3		30
Roman Catholic	3	2	3	17							1		26
Baptist	1	1	4		3								9
Congregationalist						3							- 3
Lutheran			1										- 1
Evangelical Association								1					1
Hebrew													
Salvation Army													
Others											1		1
No Denomination													
TOTAL GROOMS	34	38	39	19	5	4		1			5		145

Licenses, 127.

Banns, 18.

#### Marriages by Ages in the City of Guelph, 1914.

	1							1	1	1		1	1	1	
	AGE.	15	20	25	30	3.5	40	45	50	55	60	6.5	70 & over	Not stated	TOTAL
	15		15	1	1										17
	20		40	25	2	3	1								71
	2.5		5	16	8	2									31
	30		1		6	4									11
	35			1	2	1	2	1							7
တိ	40				1				1						2
BRIDES	45					1	1				1				3
BRI	50								1						1
	5.5						1								1
	60											1			1
	65														
	70 & over														
	Age not stated.														
	TOTALS		61	43	20	11	5	1	2		1	1			145

#### Marriages by Denominations in the City of Hamilton, 1914.

ез од од од од од од од од од од од од од	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomina- tion.	TOTAL BRIDES.
Anglican	196	45	34	10	7	3	4	1			4	3	307
Presbyterian	41	146	32	3	7	1	1				3	2	236
Methodist	39	33	151	7	8	7	4				3		252
Roman Catholic	11	8	9	141	2	1	3	1	1			3	180
Baptist	10	14	14	3	25						1	3	70
Congregationalist	2	3	3	1	1	13							23
Lutheran	4	3	6	1			6				1		21
Evangelical Association								2					2
Hebrew				1					30				31
Salvation Army										2			2
Others	3	4	3	1	1						22		34
No Denomination ,	3											9	5
TOTAL GROOMS ,	309	256	252	168	51	25	18	4	31	2	34	13	1,163

Licenses, 1,042.

Banns, 121.

#### Marriages by Ages in the City of Hamilton, 1914.

	Aon.	15	20	2.5	30	35	40	45	50	5 5	60	65	70 & over	Not stated	TOTAL.
	15	26	138	55	8										227
İ	20	4	260	175	37	10	1	5							492
	25		40	142	60	23	3	2	3	1					274
	30		6	24	38	14	9	3							94
	35			2	11	11	9	3	1			1			38
v.	40				3	3	8	1	3	1	1				20
BRIĎES.	45	• • • • • • • •						1	2	2		•••••		1	6
BR	50						1			2	1		~1		5
	5 5										2		1		3
	60									<u></u>			1		1
	6.5														
	70 & over														
	Age not stated.				1	1								1	3
	TOTALS	30	444	398	158	62	31	15	9	6	4	1	3	2	1,163

## Marriages by Denominations in the City of Kingston, 1914.

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Anglican	38	7	9	1		2					1	•••••	58
Presbyterian	9	33	4	1	:	1	1					• • • • •	49
Methodist	12	12	85	1	2	1						•••••	113
Roman Catholic	2			40	1		1.				1		45
Baptist	2	2	1		2							• • • • • •	7
Congregationalist	3	1	1		1	1							7
Lutheran			1				• • • • • •						1
Evangelical Association													• • • • •
Hebrew													• • • • • •
Salvation Army	1		1							1			3
Othera		1	1	1							1		4
No Denomination													
TOTAL GROOMS	67	56	103	44	6	5	5			1	3		287

Licenses, 279.

Banns, 8.

# Marriages by Ages in the City of Kingston, 1914.

-															
	Age.	15	20	25	30	3 5	40	45	50	55	60	65	70 & over	Not stated	TOTAL
	15	7	42	11	3	1	1								65
	20		56	· 34	11	5									106
	25	1	4	26	12	5	5	2							55
-	30		1	6	8	11	3	1	1						31
	35				6	5		1							12
v2	40					2	3	1	2	1	1	1			11
BRIDES.	45					1		1	2						4
BR	50														
	5 5										1				1
	60														
	.65														
	70 & over														
	Age not stated.													2	- 2
	TOTALS	8	103	77	40	30	12	6	5	1	2	1		2	287

## Marriages by Denominations in the City of London, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination,	TOTAL BRIDES.
Anglican	105	21	18	6	11						2		.163
Presbyterian,	18	71	20	4	4						2		119
Methodist	29	26	97	2	5	2					1		_163
Roman Catholic	4	1	4	34	2		1				1		47
Baptist	6	8	17		39								70
Congregationalist	1	1	3										5
Lntheran	1		1		2								4
Evangelical Association							1						_ 1
Hebrew								6					6
Salvation Army									6				_ 6
Others	1		4		2					16			23
No Denomination													
Total Grooms	165	128	164	46	65	2	3	6	6	16	6		607

Licenses, 575.

Banns, 32.

## ' Marriages by Ages in the City of London, 1914.

	Age.	15	20	25	30	3 5	40	45	50	5 5	60	65	70 &over	Not stated	TOTAL
	15	4	62	22	2	1	1								9.5
	20	11	142	115	26	6									300
	2.5		18	52	31	13	6								120
	30		2	7	16	12	4		1	2	1				45
	35		1		3	7	3	5		2					21
	40				1	1	4		1	2	3				11
BRIDES	45			1				1			1				3
BRI	50						1		1	2	5				9
	5 5									1					1
	60											1			1
	6.5														
	70 & over												1		1
	Age not stated.		1		1				1						3
	TOTALS	15	226	197	80	40	19	6	4	9	9	1	1		607

## Marriages by Denominations in the City of Niagara Falls, 1914.

SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET	Anglican.	Presbyterian.	Methodist,	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association,	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	29	13	2	2	3	1	2				2		54
Presbyterian	6	27	14	5	4		2				3		61
Methodist	11	6	30	5	4	2	5				2		65
Roman Catholic	1	2	4	31	1						3		42
Baptist	3	4	3		13	1					1		25
Congregationalist			1			1				~	1		3
Lutheran	2		3	3			4						12
Evangelical Association		1											1
Hebrew									1			.:	i
Salvation Army										1			1
Others			1	2			2				21		26
No Denomination													
TOTAL GROOMS	52	53	58	48	25	5	15		1	1	33		291

Licenses, 278.

Banns, 13.

#### Marriages by Ages in the City of Niagara Falls, 1914.

	Age.	15	20	2.5	30	3 5	40	45	50	55	60	65	70 & over	Not stated	TOTAL.
	15	5	34	10		2	1								52
	20	2	47	38	12	5	1								105
i	2.5	1	10	19	20	9	3	1	1						64
	30		2	8	15	8			1		1				35
	3 5			1	1	6	1		2						11
ŝ	40				1	2	5	2	2						12
BRIDES	45			1	1			2	2						6
318	50							2		2		1			5
	5 5														
	60										1				1
	6.5														
	70 & over														
	Age not stated.														
	TOTALS	8	93	77	50	32	11	7	8	2	2	1			291

# Marriages by Denominations in the City of Ottawa, 1914.

Grooms.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total, Brides,
Anglican	140	46	35	4	4	2	3			• • • • • •	2	•••••	233
Presbyterian	37	118	15	9	7	1	2				3		192
Methodist	17	14	59	6	4	1					1		102
Roman Catholic	38	9	6	357	1		1				6		418
Baptist	9	8	1	2	11								31
Congregationalist	1	1	2	1		4							9
Lutheran	1		1	1			14					••••	17
Evangelical Association													
Hebrew				1			<u></u>		28			•••••	29
Salvation Army										5			5
Others		1									35	• • • • • •	36
No Denomination	•••••												
TOTAL GROOMS	243	197	116	381	27	8	20		28	5	47	• • • • • •	1,072

Licenses, 905.

Banns, 167.

# Marriages by Ages in the City of Ottawa, 1914.

	Aon.	15	20	2.5	30	35	40	45	50	55	. 60	65	70 &over	Not stated	TOTAL.
	15	14	91	39	7	4	1	2	2						160
	20	8	230	177	35	13	5	2	1						471
	2.5		33	116	70	20	8	3	1			1			252
	30		2	22	46	17	9	6	2	1					105
	35		1		9	16	10		2		1	1			40
ŝ	40			1	2	2	4	5	5	2					21
BRIDES.	45						1	5	3	4	2	1			16
BRI	50								2						2
	5.5		•••••					1			2				3
	60	• • • • • • •										1			1
	6.5											1			1
	70 & over													,	
	Age not stated.														
	TOTALS	22	357	355	169	72	38	24	18	7	5	5			1,072

#### Marriages by Denominations in the City of Peterboro', 1914.

эн ад гад гад гад гад гад гад гад гад гад	Anglican,	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	30	8	8	2									48
Presbyterian	12	36	10		1	1		1			1		62
Methodist	5	8	36	1	1								51
Roman Catholic	4	1	1	23							1		30
Baptist	2	1	4		5								12
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew									1				1
Salvation Army										1			1
Others											2		2
No Denomination													
TOTAL GROOMS	53	54	59	26	7	1		1	1	1	4		207

Licenses, 186.

Banns, 21.

## Marriages by Ages in the City of Peterboro', 1914.

	Age.	15	20	2.5	30	35	40	45	50	55	60	65	70 & over	Not stated	TOTAL
	15	2	14	7	2	1	1								27
	20	3	41	33	7	3									87
	2.5		5	24	8	6									43
	30		1	5	9	3	2	1	1						22
	35			2	2	2		4	2						12
ŝ	40	• • • • • •			1			3	1						5
BRIDES.	45				1	1		1	1		1				5
BR	50							2	1	2	1				6
	5 5														
	60														
	65	•••••													
	70 & over	• • • • • • •													
	Age not stated.														
	TOTALS	5	61	71	30	16	3	11	6	2	2				207

#### Marriages by Denominations in the City of Port Arthur, 1914.

GROONS.	Anglican.	Presbyterian.	Methodist,	Roman Catholic.	Baptist,	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	30	2	5	1	3						1	•••••	42
Presbyterian	6	26	8	3	2								45
Methodist	3	10	13								1		27
Roman Catholic	2	1	1	24									28
Baptist	í	3			4						1	····	9
Congregationalist												• • • • • •	
Lutheran	1	2		1			52						56
Evangelical Association								1					i
Hebrew													
Salvation Army													
Others			2										2
No Denomination													
· Total Grooms	43	44	29	29	9		52	1			3	•••••	210

Licenses. 203.

Banns. 7.

# Marriages by Ages in the City of Port Arthur, 1914.

	AGE.	15	20	25	30	35	40	45	50	55	60	65	70 & over	Not stated	TOTAL
	15		28	7	4	3									42
	20		32	37	10	1		1							81
	2.5		4	40	6	5	1								56
	30			2	3	5	1	:							11
	35				6	1	1	3	1						12
vî.	40					1	1				1				3
BRIDES	45				1	2		1	1		•••••				5
BR	50										•••••				
	5 5					•••••					• • • • •				
	60														
	65						• • • • •			•••••					
	70 & over														
	Age not stated.			<u>.</u> .	-	-									
	TOTALS		64	86	. 30	118	4	-5	2		1		•••••		210

#### Marriages by Denominations in the City of St. Catharines, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist,	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination,	TOTAL BRIDES.
Anglican	53	4	13	3	2				• • • • • •		1	•••••	75
Presbyterian	14	18	1	1							2		36
Methodist	2	5	24	1	1		2				1		36
Roman Catholic	5	5	1	45			2		1		1		57
Baptist	2	2	3		13			•			2		22
Congregationalist				1									1
Lntheran								•••••					
Evangelical Association													
Hebrew													
Salvation Army	1												1
Others				1	1						8		10
No Denomination													
TOTAL GROOMS	77	31	-11	52	17		4		1		15		238
				'		,	,				1		1

Licenses, 209.

Banns, 29. . 41

# Marriages by Ages in the City of St. Catharines, 1914. GROOMS.

	AGE.	15	20	2.5	30	3 5	40	45	50	5 5	60	65	Not stated	TOTAL
	15	7	£4	10			1						 	52
	20	5	55	41	13		2						 	113
	25		7	18	11	3	1		1				 	41
	30	1	1	4	6	3		1	1				 	17
	3 5		1			1	1	2					 	5
vi	40					1	2	1	1				 	5
BRIDES.	45								1				 	1
BR	50								2				 	2
	5 5										1		 	1
	60												 	
	65		•••••									1	 	1
	70 & over		•••••										 	
	Age not stated.												 	
	TOTALS	10	98	78	30	8	7	4	6		1	1		238

# Marriages by Denominations in the City of St. Thomas, 1914.

GROOMS.	Anglican.	Presbyterian.	Metbodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination,	TOTAL BRIDES.
Anglican	23	3	5	2	2						1		36
Presbyterian	4	18	- 8		5		1		•••••		3		39
Methodist	7	5	19	1	3		1						66
Roman Oatholic	1	1		7								•••••	9
Baptist	3	° 2	6		11								2:2
Congregationalist													
Lutheran						• • • • • •	• • • • • •				1	•••••	1
Evangelical Association								1					1
Hebrew									1				1
Salvation Army										3		••••	3
Others				1						• • • • • •	7		8
No Denomination													
TOTAL GROOMS	38	29	68	11	21		2	1	1	3	12		186

Licenses, 182.

Banns, 4.

# Marriages by Ages in the City of St. Thomas, 1914.

	AGE.	15	20	25	30	35	40	45	50	55	60	65	70 & over	not stated	TOTAL
	15	5	24	7	3	1	1								37
	20		37	20	4	2									63
	2.5		8	22	11	8	1	1							51
	30		2	3	7	2	3	1	1		1				20
	3.5			1		1	1		1						4
	40				1		2		.2						5
BRIDES	45						1 1	1	2						4
BRI	50								1						1
	5.5						٠								
	60								1						1
	6.5						1								
	70 & over						l								
	Age not stated.														
	TOTALS	2	71	53	25	14	9	3	8		1				186

#### Marriages by Denominations in the City of Sarnia, 1914.

			1										
Grooms	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES,
Anglican	14	4	4		1		2						* 25
Presbyterian	3	22	9	2		1					1		38
Methodist	7	14	35		4	1					2		63
Roman Catholic	1	3	4	14	1						1		24
Baptist	3	3	2		8		1						16
Congregationalist			1			1							-3
Lutheran	1		1										2
Evangelical Association													
Hebrew									1				1
Salvation Army										1			1
Others		1	2		1						3		7
No Denomination												• • • • •	
Total Grooms	28	47	58	16	, 15	3	3	•••••	1	1	7		179

Licenses, 173.

Banns, 6.

#### Marriages by Ages in the City of Sarnia, 1914.

	Aor.	15	20	2.5	30	35	40	45	50	55	60	65	70 & over	Not stated	TOTAL.
	1.5	4	18	5	1										28
	20.	1	51	21	3	1	1								78
	25		9	13	5	1	i	1	2						32
	30		1	3	. 7	1	2				1				15
	3 5				3-	1	1		. 1	2					8
တ္တံ	40				1		3	1							5
BRIDES.	45			[					1			1			2
BR	50								4		1		í		6
	5 5														
	60	• • • • • • • • • • • • • • • • • • • •										1			1
	6.5					••••					1				1
	70 & over									• • • • •					
	Age not stated			1										5	3
	Totals	5	79	43	20	4	8	3	8	2	3	2	1	2	179

## Marriages by Denominations in the City of Stratford, 1914.

GROOMS	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	55	10	4	1							1		38
Presbyterian	3	16	2		-3	1	3				1		28
Methodist	7	3	17					1					28
Roman Catholic		1	1	17			1						20
Baptist	/ .				•?								2
Congregationalist			1			-1							2
Lutheran	3		3		1		8						15
Evangelical Association		1	1		,			2					4
Hebrew													
Salvation Army										1			1
Others											1		1
No Denomination													
TOTAL GROOMS	35	81	29	18	ă	2	12	3		1	3	• • • • • •	139

Licenses, 120.

Banns, 19.

#### Marriages by Ages in the City of Stratford, 1914.

	Age.	15	20	25	30	3 5	40	45	50	55	60	65	70 & over	Not stated	TOTAL.
	15		12	4	1	1		1							19
	20	1	24	19	5	5									51
	2.5		5	24	9	4	1								43
	3 0		1	•3	5	8	2	1							12
	3 5						3								2
ŝ	40			1			1								4
BRIDES	45						-3				1	1			4
BR	50							1	1		1				3
	5.5									1					1
	60														
	6.5														
	70 & over														
	Age not stated.														
	TOTALS	1	42	50	18	10	8	3	1	3	2	1		•••••	139

#### Marriages by Denominations in the City of Toronto, 1914.

GROOMS.	Anglican.	Presbyterian,	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	1, teo	.).).)	208	50	53	15	13	1	1		20	6	1,988
Presbyterian	3.9	>47	16)	30	36	10	8		ų	3	73	î	1,085
Methodist	176	153	r147	20	46	9	4	1			î	1	1,004
Roman Catholic	- 6	1.5	29	4±1	1		1				8	ĩ	584
Baptist	51	55	45	1	159		3	1			Fye	1	320
Congregational st	1 -	1:	13	1	1	37	1				2	1	86
Lutheran	î	4	. 5	-5		.5	55						: 5
Evangelical Association	1	1	1		1			1					ă
Hebrew		1							?54				255
Salvation Army	-;		.,							33			36
Others	18	13	1.5	9	1	-5	.3	1			1 0		163
No Denomination	1	:;	1	i					-3			12	25
TOTAL GROOMS	1,996	1,345	1,122	61	501.	75	หล	5	259	35	165	35	5,964

Licenses, 5,8.7.

Banns, 587.

#### Marriages by Ages in the City of Toronto, 1914.

	Age.	15	20	25	30	35	40	45	50	55	60	65	70 & over		TOTAL
1	1.5	58	574	166	-24	10	3	1	1						887
	20	27	1,241	970	2:7	57	2	4	1						2,547
	2.5		240	807	., 8	1. 6	27	5	6	2	1			1	1,518
	30		21	146	215	1::1	31	24	11	3	3				558
	3.5		3.	* 38	. 8	+7	52	3.	î	2	î	-2	1		249
	40		3	-3	30	-11	31	24	13	11	4	1			180
BRIDES	4.5				4	ă	7	51	14	13	7				71
BRI	50				2		-3		6	8	6	ă	2		81
	5.5							1		.5	1		2		6
	60							1			3	2			6
	6.5						1	1				.5	2		ń
	70 & over							3%		1	1				5
	Age not stated.		1	1	3				1						6
	TOTALS	85	2,083	2,120	×62+	207	177	116	60	41	33	12	ĩ	1	5,964

## Marriages by Denominations in the City of Windsor, 1914.

GROOMS.	Anglican,	Presbyterian	Methodist.	Roman Catholic.	Baptist.	-Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	15	9	13	3	4	1	5				ភ		103
Presbyterian	G	32	20	3	5	3	5				3		70
Methodist	5	18	105	8	15	4	6		1		8		170
Roman'Catholic	5	6	11	108	1		5		1		5		139
Baptist	5	ő	10	5	18	1	5				ő		55
Congregationalist			5	2		5					1		7
Lutheran	5	1	6	4	3		16	1			3		39
Evangelical Association					3		1						4
Hebrew									6				6
Salvation Army													
Others	5		3	1	- 2		1	3			16		29
No Denomination											·		
TOTAL GROOMS	90	73	170	131	58	10	36	3	8		43		622

Licenses, 575.

Banns, 47.

## Marriages by Ages in the City of Windsor, 1914.

	Age.	15	20	25	30	35	40	45	50	5.5	60	65	70 &over	Not stated	TOTAL
	15	19	92	29	2	1	1	l							144
	20	3	107	70	29	11	2	2							224
	2.5		15	60	27	17	4	1	2						126
	30		2	7	30	14	5		2	1					61
	3 5			2	6	6	10	4	4		1				33
ŝ	40				1	6	î	3	1	5	1				21
BRIDES.	4.5					1		2	1		2				6
BR	50						1		3	1		1			6
Ì	5 5												1		1
	60														
Ì	6.5					•••••									
	70 & over									• • • • • •					
	Age not stated.														
	TOTALS	22	216	168	95	56	30	12	13	4	4	1	1		622

#### Marriages by Denominations in the City of Woodstock, 1914.

SE SE SE SE SE SE SE SE SE SE SE SE SE S	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	26	ñ	6		1	1							39
Presbyterian	4	18	5		3								30
Methodist	4	4	24		3					1			36
Roman Catholic				4									4
Baptist	4	2	4		8								18
Congregationalist						1							1
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army	1									1			2
Others											1		1
No Denomination													
Total Grooms	39	-50	39	1	15	5				3	í		131

Licenses, 121.

Banns, 10.

#### Marriages by Ages in the City of Woodstock, 1914.

	AGE.	15	20	2.5	30	3 5	40	45	50	55	60	. 65	70 &over	Not stated	TOTAL
	15	1	11	2		í									15
	20		30	17	7	1									55
	2.5		2	17	11	1	1								32
	30			1	6	2	1								10
	3.5			1	1	4	1	1	2						10
တို့	40						i	1		1					3
BRIDES.	4.5								1		1				2
BR	5.0								-2						2
	5.5														
	60											i			1
	6.5									1					1
	70 & over														
	Age not stated.														
	TOTALS	1	43	38	25	9	4	2	5	2	1	1			131

## Marriages by Denominations in the Towns of Ontario, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic,	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrow.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	243	1 41	47	8	6	2	1				7		358
Presbyterian	49	253	77	11	19	3	4	2		1		1	411
Methodist	47	46	300	10	19	1	3			3	4		433
Roman Catholic	- 29	11	8	339	1		1	1			5		289
Baptist	6	1.)	14	5	40	1	1				4		81
Congregationalist	2	1	5		1	2							8
Lutheran	3	· 3	7	1	1		62				1		77
Evangelical Association								4					4
Hebrew'									ā				5
Salvation Army	1									8			9
Others	2		2)	•)							39		45
No Denomination.												1	1
TOTAL GROOMS	373	367	457	376	81	9	72	7	5	12	60	2	1,821

Licenses. 1,624.

Banns. 197.

## Marriages by Ages in the Towns of Ontario, 1914.

	AGE.	15	20	2.5	30	35	40	45	50	55	60	65	70 & over	Not stated	TOTAL
	15	24	223	110	21	5	1	1							285
	20	8	338	273	97	28	5			·····					149
	2.5		59	192	89	36	11	2	1	1					391
	3 0		10	28	49	81	14	3	1	1					137
	35		3	10	14	25	10	8	4	1	?				77
sć.	40			1		1	11	6	5	-2	1				27
BRIDES.	45				1		5	10	6	2					24
BR	50							1	3	5	1	1			11
	5.5								2	3	2	1	2		10
	60										1	1			2
	6.5									•••••	5	;;			5
	70 & over														
	Age not stated.			1										2	3
	TOTALS	32	633	615	271	126	57	31	22	15	9	6	2	2	1,821

# Marriages by Denominations in the Town of Barrie, 1914.

GROOMS.	Anglican.	Presbyterian.	Metbodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	16	4	4			1							25
Presbyterian	6	11	1	1									19
Methodist	2	3	22								1		27
Roman Catholic				11									11
Baptist		1			-5	1							4
Congregationalist			1										1
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Others						1					1		1
No Denomination													
Total Grooms	24	19	28	12	2	2					2		89
		,	1										

Licenses, 79.

Banns, 9.

## Marriages by Ages in the Town of Barrie, 1914.

	Age.	15	20	25	30	35	40	45	50	5.5	60	6.5	70 & over	Not stated	TOTAL
	15		12	3	1										16
	20		12	14	5	2									33
	2.5		1	7	5	4									17
	30		1	3	5	1	2		1						10
	3 5		1				1	1							3
တို့	40	• • • • • • • •					2		2	1					5
BRIDES.	45								1						1
BR	50										1				1
	5 5										1				1
	60														
	6.5											1			1
	70 & over														
	Age not stated.														
	TOTALS		27	27	13	7	5	1	4	1	2	1			88

# Marriages by Denominations in the Town of Brockville, 1914.

Groons.	Anglican.	Presbyterian.	Methodist,	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	16	3	9		1								22
Presbyterian	3	15	2	1	1								21
Methodist	4		19	1	1								25
Roman Catholic	8	1		9							1		14
Baptist			1		1								2
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew									1				1
Salvation Army													
Others													
No Denomination													
TOTAL GROOMS	25	19	24	11	4				1	,	1		85

Licenses. 79.

Banns, 6.

## Marriages by Ages in the Town of Brockville, 1914.

	AGE.	15	20	25	30	35	40	45	50	55	60	65	70 & over	Not sta1ed	TOTAL
	-15	1	9	4	1										15
	20		14	9	9	1									33
	2.5			8	6		2		1			·····			17
	30		2	2	4	5	1								14
	3 5				1	1	1								3
70	40			1				1					•••••		2
BRIDES	45								1						1
BRI	50						••••						•••••		
	5 5														
	60				•••••				ļ						
	6.5													•••••	
	70 & over														
	Age not stated.														
	TOTALS	1	25	24	21	7	4	1	2			• • • • • •			85

# Marriages by Denominations in the Town of Cobalt, 1914.

В вироме.	Anglican.	Presbyterian,	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination,	TOTAL BRIDES.
Anglican	8	3		2									13
Presbyterian		ō	9		1		1						9
Methodist ·		1	7	1	1								10
Roman Catholic	3		2	48	1		1						55
Baptist	1	-3			1								4
Congregationalist					1								1
Lutheran		1	1				9						11
Evangelical Association												• • • • • •	
Hebrew													
Salvation Army													
Others											6		6
No Denomination.													
TOTAL GROOMS	12	12	12	51	5		11				6		109

Licenses. 88.

Banns, 19

#### Marriages by Ages in the Town of Cobalt, 1914.

	AGE.	15	20	25	30	35	40	45	50	55	60	65	70 & over	Not stated	TOTAL
	15	1	16	6	1										24
	20		27	19	2	1									49
	25		4	12	5			1							22
	30			2	6	2	1								11
	35					1			1						2
S.	40		• • • • • • •												
BRIDES	45									1					1
BRI	50														
	55														
	60														
	65												••••		
	70 & over														
	Age not stated.														
	TOTALS.	1	47	39	14	4	1	1	1	1					109

#### Marriages by Denominations in the Town of Cobourg, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist,	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	6		i								• • • • •	•••••	7
Presbyterian	1	3	5	1		5							9
Methodist	, 2	3	11			1							17
Roman Catholic	1			7									8
Baptist					1								1
Congregationalist	2					1.							3
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army										3			3
Others											2		2
No Denomination													
TOTAL GROOMS	12	6	14	8	i	4				3	2		50

Licenses, 45.

Banns, 5

## Marriages by Ages in the Town of Cobourg, 1914.

	Age.	15	20	2.5	30	3 5	40	45	50	55	60	65	70 & over	Not stated	TOTAL
	15	1	1												2
	20	ຄຸ	12	7	1	3									25
	2.5		2	12	2		1								17
	30				i										1
	3.5					1									, 1
rô	40						2								2
BRIDES	4.5								1						1
BRI	50									1					1
	5.5														
	60									• • • • • •					
	6.5														
	70 & over														
	Age not stated														
	TOTALS	3	15	19	4	4	3		1	1					50

# Marriages by Denominations in the Town of Collingwood, 1914.

Grooms.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association,	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides,
Anglican	7	8	1								1		12
Presbyterian	1	15	16										33
Methodist	3	1	15		2								21
Roman Catholic				5			• • • • • • • • • • • • • • • • • • • •						5
Baptist			1		- 3		• • • • • •						3
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Armv								• • • • • •					
Others				•••••							1		1
No Denomination	• • • • • • •												
TOTAL GROOMS	11	20	33	5	4	• • • • • •	•••••			•••••	2	•••••	75

Licenses, 71.

Banns, i.

#### Marriages by Ages in the Town of Collingwood, 1914.

AGE	15	20	25	30	35	40	45	50	5 5	60	65	70 & over	Not stated	TOTAL.
1.5		8	6		1									15
2.0		1	15	3	2									32
25		3	9	3	3									18
30			1	5	1									4
3.5			5				1							3
40														
45														
50								1						1
5.5									1					1
60														
6.5											1			1
70 & ove														
Age ne														
TOTAL	3	28	23	8		·	1	1	1		1			75

# Marriages by Denominations in the Town of Cornwall, 1914

GROONS SKOON D	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Othera.	No Denomination.	TOTAL BRIDGE.
Anglican	9	3	5	1									18
Presbyterian	4	17		1	1								23
Methodist		2	1	1									4
Roman Catholic	-3		1	40	1								44
Baptist			1										1
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Others													
No Denomination													
TOTAL GROOMS	15.	22	8	43	5		·····						90

Licenses, 67.

Banns, 23.

# Marriages by Ages in the Town of Cornwall, 1914.

	AGE.	15	20	25	30	35	40	45	50	55	60	65	70 & over	Not stated	TOTAL
	1.5		11	9											2)
	20	1	3)	1''	4										45
	25			9	6										15
	30				3	1									4
-	35							1							1
·ė	40							1	1						2
BRIDES.	45					1						·			
BRI	50									1					1
	55					·····			1						1
	60					·····			• • • • • •						
	65														
	70 & over														
	Agenot stated.			1											1
	TOTALS	1	41	20	13	1		2	2	1					90

#### Marriages by Denominations in the Town of Galt, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist,	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army,	Others.	No Denomination.	TOTAL BRIDES.
Anglican	21	8	2		1						1		30
Presbyterian	7	31	8	1	2	1		1		1			52
Methodist	.)	3	17		1						1		24
Roman Catholic	-3			10									12
Baptist	1				4					• • • • • •			5
Congregationalist		1											1
Lntheran	2				1								3
Evangelical Association													
Hebrew									1				1
Salvation Army													
Others							l				1		1
No Denomination													
TOTAL GROOMS	35	43	27	11	9	1		1	1	1	3		132

Licenses, 120.

Banns, 12.

#### Marriages by Ages in the Town of Galt, 1914.

	Age.	15	20	25	30	35	40	45	50	55	60	65	70 &over	Not stated	TOTAL
	1.5	1	7	2	5										12
	20		28	26	6										60
	2.5		10	11	6	4				į					31
	30		1	3	4	2	2								12
	35				2	7		1		1					11
σů	40														
BRIDES.	4.5						2								2
BR	50								1						1
	5.5												3		2
	60						• • • • • •						1		1
	6.5														
	70 & over														
	Age not stated.														
	TOTALS	1	46	42	20	13	4	1	1	1			3		132

# Marriages by Denominations in the Town of Ingersoll, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist,	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	12	1	1		1								15
Presbyterian		8	3		1								12
Methodist		2	10		2						1		15
Roman Catholic	1	1		1									6
Baptist			3	1	4						1		8
Congregationalist													
Lutheran					١								
Evangelical Association					ļ								
Hebrew													
Salvation Army												,,	
Others													
No Denominations													
TOTAL GROOMS	13	12	16	5	8						2		56

Licenses. 52.

Banns, 4.

# Marriages by Ages in the Town of Ingersoll, 1914.

	AGE	15	20	25	30	35	40	45	50	5.5	60	65	70 &over	Not stated	TOTAL
	15	1	7	3	1										12
	20	1	8	8	2		1								20
	25		4	6	1		2								13
	30		1	3		1		1							6
1	35				1	1									2
	40						1	ì							2
BRIDES.	45														
BKI	50														
	5.5									1					1
	60														
-	65														
	70 & over.														
	Age not stated.														
	TOTALS	2	2)	20	5	2	4	2		1					56

#### Marriages by Denominations in the Town of Kenora, 1914.

GROOMS,	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army	Others.	No Denomination.	TOTAL BRIDES.
Anglican	4	i		·									5
Presbyterian	1	3		1	1								.6
Methodist	1	2	1				1						5
Roman Catholic	1	1	2	2									6
Baptist					1						1,		2
Congregationalist													
Lutheran	1		1				7						9
Evangelical Association													
Hebrew													
Salvation Army													
Others											5		5
No Denomination		••••											
TOTAL GROOMS	8	7	4	3	2		8				6	• • • • • •	. 38

Licenses, 34.

Banns, 4.

#### Marriages by Ages in the Town of Kenora, 1914.

GROOMS.

A	÷E.	15	20	2.5	30	35	40	45	50	55	60	65	70 & over	Not stated	TOTAL
1	5	1	7	5											15
2	0		3	В	2	2									15
2	.5			3	2	1									6
3	0				1	2		1				i			4
3	5														
-	0														
4	5							2							2
	0														
	5														
6	0														
6	5														
	0 ver														
	not te-1.														
То	TALS	1	1)	11	б	ъ		3							38

10 (a) R.G.

## Marriages by Denominations in the Town of Lindsay, 1914.

es drows.	Anglican,	Presbyterian,	Methodist,	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	1G	1	4								1	• • • • • •	33
Presbyterian	7	10	2	2									21
Methodist	2	1	35		1							• • • • • •	39
Roman Catholic	1		1	10								•••••	12
Baptist		1	2		3							• • • • • •	6
Congregationalist													•••••
Lutheran													•••••
Evangelical Association													
Hebrew													
Salvation Army													
Others											1		1
No Denomination													
TOTAL GROOMS	56	13	44	12	4						2		101

Licenses, 94.

Banns, 7

# Marriages by Ages in the Town of Lindsay, 1914.

	AGE.	15	20	2.5	30	3 5	40	45	50	5 5	60	65	70 & over	Not stated	TOTAL
	1.5	1	8	4	2										15
	20	1	18	16	8										43
	2.5		5	7	7	3	1								23
	30		• • • • • •		6		2								. 8
	3.5		1	• • • • • • • •	1	2	2		2						8
ŝ	40														•••••
BRIDE	4.5														
BR	50								1	1					2
	5.5														•••••
	60										1				1
	6.5											1			1
	70 & over						•••••				• • • • •				
	Age not stated.														
	TOTAL	2	32	27	24	5	5		3	1	1	1		• • • • • • • • • • • • • • • • • • • •	101

# Marriages by Denominations in the Town of North Bay, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	19	2.	1	1									99
Presbyterian	2	14	4										2()
Methodist	3	4	19		1					1			28
Roman Catholic	3	2		35									40
Baptist	1			1	2								4
Congregationalist													
Lutheran							1						1
Evangelical Association													
Hebrew									1				1
Salvation Armv	,									3			3
Others													
No Denomination											1		1
TOTAL GROOMS	20	22	24	37	3		1	•••••	1	4	1		121

Licenses, 94.

Banns, 27.

### Marriages by Ages in the Town of North Bay, 1914.

	Age.	15	20	25	30	35	40	45	50	55,	60	65	70 & over	Not stated	TOTAL.
	1.5	5	17	12							.:				31
	20		19	200	4	3									45
\	2.5		10	15	3	-3	·								30
	30				1										1
	3.5			1	1	-3	ı	3							7
ŝ	40						3								2
BRIDES	45							1				1			2
BR	50														
	5.5														
	60														
	6.5										1				1
	70 & over														
	Age not stated.													2	2
	TOTALS.	2	46	48	9	6	3	3	:		1	1,		2	121

# Marriages by Denominations in the Town of Orillia, 1914.

SEQUENCE OF SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SECULOR SE	Anglican.	Presbyterian.	Methodist	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association,	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Bridge.
Anglican	6	3	4		1								14
Presbyterian	1	11,	2										16
Methodist	3	.)	25				1						31
Roman Catholic				, 6									6
Baptist			1										1
Congregationalist						1							1
Lniheran													
Evangelical Association													
Hebrew													
Salvation Army	1												1
Others											, 4		4
No Denomination													
TOTAL GROOMS	1!	15	32	6	1	1	1				4	•••••	74

Licenses, 66.

Banns, 8.

# Marriages by Ages in the Town of Orillia, 1914.

	Age	15	20	25	30	35	40	45	50	55	60	65	70 &over	Not stated	Total
	1.5	1	9	6	5	2	1								21
	20		8	9	7	1									25
	2.5		1	8	7		1					• • • • • •			16
	30		1	3	2										6
	3.5					2			1						3
ŝ	40					1									1
BRIDES.	4 5						1	1							2
BRJ	50														
	5 5														
	6.0														
	6.5														
	70 & over											•,••••			
	Age not stated.														
	O TALS	í	19	26	18	6	3	1	í						74

# Marriages by Denominations in the Town of Oshawa, 1914.

Grooms.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army,	Others.	No Denomination.	TOTAL BRIDES
Anglican	22		4										26
Presbyterian		8	1	5	1								1?
Methodist	3	1	29	1 2	2								37
Roman Catholic				3									3
Baptist					1								1
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Others	1		1								2		4
No Denomination					• • • • • •								
TOTAL GROOMS	26	9	35	7	4					• • • • • •	2		83

Licenses, 81.

Banns, 2.

## Marriages by Ages in the Town of Oshawa, 1914.

	AGE.	1 5	20	25	30	35	40	45	50	55	60	6.5	70 & over	Not stated	TOTAL.
	15	5	12	6											23
	20		11	10	10	4	1								36
	2.5		2	9	:2	1	1			i					16
	30				3	1									4
	3.5			1	1	1									3
ģ	40						1								1
BRIDES.	4.5														
BR	50														
	5.5														
	60					•••••	•••••								
	6.5														
	70 & over														
	Age not stated														
	TOTALS	5	25	26	16	7	3			1					83

## Marriages by Denominations in the Town of Owen Sound, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others,	No Denomination.	Total Brides.
Anglican	7	1	4	4							3		19
Presbyterian	4	20	12	1	1								. 38
Methodist	7	9	26	1	1					1	1		46
Roman Catholic				6									6
Baptist	1	2	3		5								10
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army										1			1
Others											5		5
No Denomination													
Total Grooms	19	32	44	12	7					2	9		125

Licenses, 119.

Banns 6.

## Marriages by Ages in the Town of Owen Sound, 1914.

	Age.	15	20	2.5	30	35	40	45	50	5.5	60	65	70 &over	Not stated	TOTAL
	15	4	12	4	3	1									24
	20		21	21	ĩ	4									53
	2.5		3	9	6	5									23
	3.0		1		3	2	3			· · · · · ·					9
	3 5			1	2	2	1	1			1				8
ŝ	40							3	1	1					4
BRIDE	4.5							1			1				2
BR	50									1					1
	5.5											1			. 1
	60														
	6.5														
	70 & over														
	Age not stated.														
	TOTALS.	4	37	35	21	14	4	4	1	2	2	· 1			125

#### Marriages by Denominations in the Town of Pembroke, 1914.

Grooms.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others,	No Denomination.	TOTAL BRIDES.
Anglican	6		• • • • • • •			1							7
Presbyterian							1	1					9
Methodist	1	1	7										9
Roman Catholic		1		30	1								32
Baptist		1											1
Congregationalist												• • • • •	
Lutheran		• • • • • • • •	2	• • • • • • •			10						12
Evangelical Association		1			1			2	• • • • •	• • • • •			4
Hebrew		•••••	• • • • • • • •							•••••			
Salvation Army		•••••				• • • • • •			••••				
Others				•••••		• • • • • •					1	• • • • •	1
No Denomination		• • • • • • • •	• • • • • • • •					• • • • •				•••••	
TOTAL GROOMS	7	11	9	30	2	1	11	3	• • • • •	•••••	1	• • • • • •	75

Licenses, 61.

Banns, 14.

# Marriages by Ages in the Town of Pembroke, 1914.

	AGE.	15	20	25	30	3.5	40	45	50	55	60.	65	70 & over	Not stated	TOTAL
	15		6	4	2			1							13
	20		15	17	1	1									34
	25		1	9	7	1	2								20
	30			1		1									2
	35				1	2									3
	40										1				1
BRIDES	45									1					1
BRI	50														
	55														
-	60								• • • • • •						
	6.5						• • • • • •						- 1		1
	70 & over							• • • • • •							
	Age not stated.														
	Totals.		22	31	11	5	٤	1	••••	1	1		1		75

### Marriages by Denominations in the Town of Port Hope, 1914.

- гадтия С доома.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist,	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	. 11	*)											16
Presbyterian	1	3	3										7
Methodist	. 1	-2	5		1								9
Roman Catholic				1	1								-3
Baptist		1			6								7
Congregationalist			·										
Lutheran													
Evangelical Association	1												
Hebrew													
Salvation Army		l								1			1
Others													
No Denomination		Ī											
TOTAL GROOMS	15	8	8	1	8	٠				1			4:

Licenses, 42.

Banns,

#### Marriages by Ages in the Town of Port Hope, 1914.

	yer.	1.5	20	2.5	30	35	40	45	50	5 5	60	65	70 &over	Not stated	TOTAL
	1.5		11												
	20		13	5	1		1								19
	2.5		*)	1											3
	3.0			•)	1	-9									5
	3.5					3									:
	40														
OES	4.5							**	1						3
BRIDES	5.0									1					1
=	5.5														
	60														
	6.5										• • • • • •	•••••			
	70 & over														
	Age not stated		1												
	TOTALS		2)	10	;	5	1	2	1	1					43

#### Marriages by Denominations in the Town of Sault Ste. Marie, 1914.

BRIDES.	Anglican.	Presbyterian.	Methodiat.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Toral Bridis.
Anglican	15	1	4		i		1						3.3
Presbyterian	1	39	11		1		3		•••••				54
Methodist	1	5	50	1	ſ						1		29
Roman Catholic	1	-3		41						•••••			44
Baptist		1	2	1	4		1						9
Congregationalist											• • • • • •		
Lutheran			2	1			17						30)
Evangelical Association													
Hebrew									1				1
Salvation Army													
Others											1		1
No Denomination									•••••				
TOTAL GROOMS	18	48	39	44	7		21		1		3		180

Licenses, 164.

Banns 16.

#### Marriages by Ages in the Town of Sault Ste. Marie, 1914.

	AGE.	1 5	20	2.5	30	3 5	40	45	50	5.5	60	6.5	70 &over	Not stated	TOTAL
	15	1	20	15	3										39
	20		28	27	10	1	2								68
	2.5		7	21	8	7									43
	30		3	2	2	5	1								12
	3 5			4	2	2	3								11
	40						2	1	1						Ĩ
ES	45							1							1
BRIDES	50											1			1
B	5 5								1						1
	60														
	6.5														
	70 & over														
	Age not stated.														
	TOTALS	1	57	69	25	15	8	2	2			1			180

#### Marriages by Denominations in the Town of Smith's Falls, 1914.

GROOMS.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination,	TOTAL BRIDES.
Anglican	10	3	1										14
Presbyterian	4	7	2										13
Methodist	4	3	10	1	1								19
Roman Catholic			1	6									7
Baptist	1		1		1								3
Congregationalist													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Others											2		2
No Denomination													
Total Grooms	19	13	15	7	2						2	•••••	58

Licenses, 53.

Banns, 5.

# Marriages by Ages in the Town of Smith's Falls, 1914.

	AGE.	15	20	25	30	3 5	40	45	50	5.5	60	65	70 & over	Not stated	TOTAL
	15	1	7	1											9
	20		16	7	3	i									27
	2.5		1	5	2	2	1								11
	30			1	4										5
	35		1				1				••••	1			3
တ်	40						1								1
IDE	45							i							1
BRID	50														
	5 5										1				1
	60														
	6.5														• • • • • • • • • • • • • • • • • • • •
	70 & over														
	Age not stated.														
	TOTALS	1	25	14	9	3	3	1			1	1			58

# Marriages by Denominations in the Town of Sudbury, 1914.

GROOMS.	Anglican.	Presbyterian,	Methodist.	Roman Catholic.	Baptist,	Congregationalist.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	8	3	3										13
Presbyterian	4	13	4		( l							1	22
Methodist	1-		8	1	1					1			12
Roman Catholic	1	1	5	55							3		69
Baptist													
Congregationalist													
Lutheran		1	1				18						20
Evangelical Association													
Hebrew									1				1
Salvation Army													
Others				1							1		2
No Denomination													
Total Grooms	14	18	17	51	1		18		1	1	4	1	152

Licenses, 116.

Banns, 16.

#### Marriages by Ages in the Town of Sudbury 1914.

	Age.	<b>1</b> 15	20	25	30	35	40	45	50	55	60	65	70 & over	Not stated	TOTAL
	15	3	26	6	2	1									38
	20	1	23	19	9	1	·								53
	25		1	18	В	3									28
	30		1	1	3	4	1								10
	35				. 1										1
s.	40														
BRIDES.	45				(										1
BRI	50								1						1
	55														
	60			······											
	65														
	70 & over					1									
	Age not stated.														
	TOTALS	4	51	44	22	9	1		1						132

## Marriages by Denominations in the Town of Welland, 1914.

Groons.	Anglican,	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregationalist,	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	TOTAL BRIDES.
Anglican	21	2	7		1						1		32
Presbyterian		13	- 2										15
Methodist	7	1	13	1	3		1						26
Roman Catholic	1	1		10				1			1	••••	14
Baptist	1	1	2	2	1		• • • • •				-5		9
Congregationalist			1										1
Lutheran											1		1
Evangelical Association													
Hebrew													
Salvation Army													
Others	1		1	1							6		9
No Denomination					•••••								
TOTAL GROOMS	31	18	23	14	5		1	1			11		107

Licenses, 96.

Banns, 11.

## Marriages by Ages in the Town of Welland, 1914.

AGE	15	20	25	30	3.5	40	45	50	5.5	60	6.5	70 & over	Not stated	To
1.5		55	12	1										
20	- 5	21	8	3	5	l								
2.5		3	14	5			1							
30			1	1		1	1		1					
3.5						• • • • • •	1							
40														
45						- 5	1	2				• • • • •		
50														
5 5									1					
60														
6.5														
70 & over														
Age not stated.														
TOTALS.	2	45	38	10	2	3	4	2	2					

CAUSES OF DEATH IN THE DISTRICT OF ALGOMA, 1914.

Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation   Corporation							_
PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH   PENGLISH	1	December.	3   68	10	<del>- : : : : : : : : - : : : : : : : : : </del>	0 1 -0	Ċξ.
FENGUES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES   PROTES				1 -4		00 1 0	es.
Number   Column	}			9	H	9 1 :0	6
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CAUSES OF DEATH IN THE COUNTY OF BRUCE, 1914.

					TRAIL GENERAL. VII
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	October.	36	32	20	
	September.	35	88	=	:::::::::::::::::::::::::::::::::::::::
	August.	34	42	0	
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	March.	53	19	1 2	
1	February.	28	88	9	
1	January,	27	67	20	
	Not stated.	98	50	10	
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A)	1. Under 1. 1. 2. 2. 2. 2. 8. 4. 6.9. 10-14.	3 4 5 6 7	27 2 2 5 5 	1 10	
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Number of Column.	XI.—DISBASES OF EARLY INFANOY.  Group Total	151. Gongenital debility, icterus, and sclerema	XII.—Old Age.	XIII.—Affections Produced by External Causes.	165. Other acute poisonings	::5::::	XIV.—ILL-DEFINED DISEASES. Groun Total	187. Ill-defined organic disease	

CAUSES OF DEATH IN THE COUNTY OF HALIBURTON, 1914.

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CAUSES OF DEATH IN THE COUNTY OF HALTON, 1914.

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OFFICIAL ENGLISH TRANSLATION.   DISEASES AND OAUSES OF DEATH IN THE COUNTY OF HASTINGS, 191   DISEASES AND OAUSES OF DEATH.   Total.	_:	ativi	Foreign,	33	122		1	- 2222-002
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F EARLY INFAN	51. Congenital debility, icterus, and sclerema	Ĭ	XIII.—Affections Produced by External Oauses.  Group Total		Cause of death to specified or ill-defined	ot included in totals
F EARLY INFAN	151. Congenital debility, icterus, and sclerema	154. XII.—Old Age. Group Total		155. Suicide by poison 156. Suicide by asphyxia 169. Suicide by cutting 161. Suicide by cutting 162. Other suicides 167. Burns (conflagration excepted) 168. Absorption of defections gases 167. Burns (conflagration excepted) 170. Traumatism by flust 171. Traumatism by other crushing (vehicles, rains road, and and flust, etc.) 171. Starration 172. Excessive cold 173. Excessive cold 174. Excessive cold 175. Effects of heat 176. Effects of heat 177. Excessive cold 178. Effects of heat 179. Effects of heat 179. Effects of heat 179. Effects of heat 178. Flustures (cause not specified) 186. Other external violence	fined	Not included in totals

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			154.	CAUGED BY EXTER CALUSES.  Group Total  Group Total  165. Other acute poisonings excepted)  167. Burns (conflagration excepted)  172. Traumatism by fall  174. Traumatism by fall  175. Traumatism by machines  174. Traumatism by other  175. Traumatism by other  176. Traumatism by an acutines  177. Traumatism by an acutines  178. Fractures (cause not specified)  186. Other external violence  STILL-BIRTHS.

CAUSES OF DEATH IN THE COUNTY OF KENT, 1914.

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CAUSES OF DEATH IN THE COUNTY OF LANARK, 1914.

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CAUSES OF DEATH IN THE DISTRICT OF NIPISSING, 1914.

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CAUSES OF DEATH IN THE COUNTIES OF NORTHUMBERLAND AND DURHAM, 1914.

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## NORTHUMBERLAND AND DURHAM—Continued.

Number of Column,	VI.—Non-Venereal Diseases of the Genito- Urinary System and Adnexa. Group Total	119. Acute nephritis	120. Bright's disease 122. Other diseases of the kidneys and adnexa 126. Diseases of the prostate 129. Uterine tumor (non-cancerous) 130. Other diseases of the uterus	VIITHE PUERPERAL STATE.	Group Total	134. Accidents of pregnancy 137. Puerperal septicemia 138. Puerperal albuminuria and convulsions.	VIII.—DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE.	Group Total	142. Gangrene 144. Acute abscess	IX.—DISEASES OF THE BONES AND OF THE ORGANS OF LOCOMOTION.	Group Total	146. Diseases of the bones (tuberculosis excepted)	X.—MALFORMATIONS.	Group Total	150. Congenital malformations (still-births not included)	XI DISEASES OF EARLY INFANOY.	Group Total	151. Congenital debility, icterus, and scherema 153. Lack of care	154. XII.—Old Age. Group Total
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CAUSES OF DEATH IN THE COUNTY OF OXFORD, 1914.

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CAUSES OF DEATH IN THE DISTRICT OF PARRY SOUND, 1914.

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CAUSES OF DEATH IN THE COUNTY OF PEEL, 1914.

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CAUSES OF DEATH IN THE COUNTIES OF PRESCOTT AND RUSSELL, 1914.

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CAUSES OF DEATH IN THE COUNTY OF RENFREW, 1914.

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CAUSES OF DEATH IN THE DISTRICT OF THUNDER BAY, 1914.

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III.—DISEASES OF THE CIRCULATORY SYSTEM. Group Total	79. Organic diseases of the heart 81. Diseases of the arteries. atheroma, an	Group Total	90. Chronic bronchitis  91. Broncho-pneumonia  92. Penumonia  94. Pulmonary congestion, pulmonary apoplexy  196. Asthma	V.—DISEASES OF THE DIGESTIVE SYSTEM.  Group Total	99. Diseases of the mouth and adnexs.  102. Ulcer of the stomach and adness are seeped).  104. Diarrhen and enteritis (under 2 vears).  108. Appendictis and typhilis.  109. Hernias, intestinal obstructions.  117. Simple peritonitis (non-puerperal).	VI.—Non-Venereal Diseases of the Genito- Urinary System and Adnexa.	Group Total	inexa	VII.—THE PUERPERAL STATE. Group Total	134. Accidents of pregnancy	VIII.—DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE.	142. Gangrene	Group Total

VICTORIA—Concluded.

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## WATERLOO-Continued.

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Number of Column	DISEASES OF THE NERVOUS SYST ORDANS OF SPECIAL SE. Group Total	Simple meningitis Locumotor attaxia Locumotor attaxia Cerebral hemorrhage, apoplexy Paralysis without specified cause Other forms of mental alienation Epilepsy Convulsions of infants Other diseases of the nervous syst	Group Total	Acute endocarditis Organic diseases of the heart Diseases of the Arteries, athero Embolism and thrombosis	V.—Diseases of the Respira Group Total	Diseases of the larynx Acute bronchitis Chronic bronchitis Bronche-pneumonia Preurisy Pulmoniary congestion, pulmonary Other diseases of the respiratory sy culosis excepted)	Group Total  Group Total  Diseases of the pharynx  Ulcer of the stomach  Other diseases of the stomach  Cother diseases of the stomach  Diarrhœa and enteritis (under 2 years  Diarrhœa and enteritis (2 years and o
Number of Column	—DISEASES OF THE NERVOUS SYST ORGANS OF SPECIAL SE. Group Total		IIIDISEASES OF THE CIRCULA Group Total	8. Acute endocarditis	IV.—Diseases of the Respiratory Group Total		
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CAUSES OF DEATH IN THE COUNTY OF WENTWORTH, 1914.

1	December.	38	891	31	
	November.	37	137	98	4
	October,	36	150.	1 83	H : H : : : : : : : : : : : : : : : :
	September.	35	138	96	00 · · - · · · 01 · 01 · 0 · - · · · · · · · · · · · · · · · ·
	August.	34	1115	1 60	- : 0, : : : : : : : : : : : : : : : : :
Months.	July.	33	110	<del> </del> <del> </del> <del> </del> <del> </del> <del> </del> <del> </del> <del> </del> <del> </del> <del> </del>	
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×	May.	31	134	SS.	· nt m nt · · · · · · · · · · · · · · · · · ·
	April.	30	154	83	- · · · · · · · · · · · · · · · · · · ·
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1	February.	28 2	136		• • • • • • • • • • • • • • • • • • •
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THE CIRCULATORY	79. Organic diseases of the heart  81. Diseases of the arteries, atheroma, ancurysm,  82. Embolism and thrombosis  84. Diseases of the lymphatic system (lymphane etc.		Group Total		V.—DISEASES OF THE DIGESTIVE SYSTEM.		rs)	:	126. Diseases of the prostate		135. Puerperal hæmorrhageX.—Malformations.	Group Total	malformations (still-births	XIDISEASES OF EARLY INFANCY.		151. Congenital debility, icterus, and scleroms 154. XII.—OLD AGE.	

BELLEVILLE—Concluded.

Number of Column.	XIII.—AFFROTIONS PRODUCED BY EXTERNAL CAUSES.	Group Total	156. Suicide by asphyxia 160. Suicide by cutting or piercing instruments 167. Burns (configgration excepted) 169. Accidental drowning 172. Traumatism by other crushing (vehicles, rail-road, landsides, etc.) 185. Fractures (cause not specified)	XIV.—Ill-Dreined Diseases. Group Total	188. Sudden death 189. Cause of death not specified or ill-defined	STILL-BIRTHS. Not included in totals
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CAUSES OF DEATH IN THE CITY OF BERLIN, 1914.

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		OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Number of Column.	Grand Total	Group Total	1. Typhoid fever 7. Scarlet fever 9. Diphtheria and croup 10. Influenza 20. Purulent infection and septiceunia 21. Tetanus 22. Tetanus 23. Theoreulous moringitis 24. Tetanus 26. Theoreulous noringitis 27. Theoreulous other malignant tumors of the stomer and other malignant tumors of the pertoneum, intestines, rectum 27. Cancer and other malignant tumors of the fomale genital organs and other malignant tumors of the former and other malignant tumors of the former and other malignant tumors of the former serverted) 28. Cancer and other malignant tumors of the forman severted) 39. Chore tumors (tumors of the female genital organs and other unalizant tumors of security organs and other unalizant tumors of security organs and other unalizant tumors of security organs and other unalizant tumors of security organs and other unalizant tumors of security organs and other unalizant tumors of security organs and other unalizant tumors of security organs and other unalizant tumors of security organs and other unalizant tumors of security organs and other unalizant tumors of security organs and other unalizant tumors of security organs and other unalizant tumors of security organs and other unalizant tumors of security organs and other unalizant tumors of security organs and other unalizant tumors of security organs and other unalizant tumors of security organs and other unalizant tumors of security organs and other unalizant tumors of security organs and other unalizant tumors of security organs and other unalizant tumors of the female security organs and other unalizant tumors of the female security organs and other unalizant tumors of the female security organs and other unalizant tumors of the female security organs and other unalizant tumors of the female security organs and other unalizant tumors of the female security organs and other unalizant tumors of the female security organs and other unalizant tumors of the female security organs and other unalizant tumors of the female security organs and other unalizant tumo	I.—Diseases of the Nervous System and of the Ordans of Sporal Sense.  Group Total  60. Encephalitis  61. Simple meningtis  62. Locomotor ataxa  63. Locomotor ataxa  64. Cerebral hemorrhage, apoplexy  65. Softening of the brain  66. Paralysis without specified cause  69. Epilepsy  71. Convulsions of infants

BERLIN-Continued.

Number of Column.	IIIDISEASES OF THE CIRCULATORY SYSTEM.	CLOUD TOTAL	78. Acute endocarditis 79. Organic diseases of the heart 81. Diseases of the arteries, atherome, aneurysm, etc. 82. Embolism and fhrombosis 83. Diseases of the veins, varices, hemorrhoids, phiebitis, etc.)	IV DISEASES OF THE RESPIRATORY SYSTEM.	Group Total	87. Diseases of the larynx 89. Acute bronchitis 90. Okronic bronchitis 91. Broncho-preumonia 92. Preumonia 93. Pleurisy 96. Asthma	V DISEASES OF THE DIGESTIVE SYSTEM.	Group Total	103. Other diseases of the stomach (cancer excepted) 104. Diarrheas and entertifs (under 2 years) 105. Diarrheas and entertifs (2 years and over) 108. Appendicitis and typhilitis 109. Hernius, intestinal obstructions 110. Diseases of the intestines 113. Cirrhesis of the liver 115. Other diseases of the liver 115. Simple peritonitis (non-puerperal)	VI.—NON-VENEREAL DISEASES OF THE GENITO- URINARY SYSTEM AND ADNEXA.	Group Total	119. Acute nephritis 120. Bright's disease 126. Diseases of the prostate	VII.—The Puerperal State.	134, Accidents of pregnancy 137. Puerperal septicemia 138. Puerperal albuminuria and convulsions
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CAUSES OF DEATH IN THE CITY OF HAMILTON, 1914.

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CAUSES OF DEATH IN THE CITY OF NIAGARA FALLS, 1914.

	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 Industria and croup 11 Industria and croup 12 Industria and croup 13 Industria and croup 14 Industrialia 15 Andominal tuberculosis 16 Cancer and other malignant tumors of the buccal cavity 17 Cancer and other malignant tumors of the female genila organs 18 Cancer and other malignant tumors of the female genila organs 18 Cancer and other malignant tumors of the female genila organs 18 Cancer and other malignant tumors of the female genila organs 19 Cancer and other malignant tumors of the female genila organs 10 Cancer and other malignant tumors of the female genila organs 18 Cancer and other malignant tumors of other organs and of organs not specified 19 Charles and other malignant tumors of other organs and of organs and gout 19 Charles and other malignant tumors of other organs and of organs and gout 19 Charles and other malignant tumors of other organs and gout 19 Charles and other malignant tumors of other organs 10 Charles and other malignant tumors of other organs 11 Convertism of infants 12 Cancer and other malignant tumors of other organs and gout 12 Cancer and other malignant tumors of other organs 13 Cancer and other malignant tumors of the organs 14 Cancer and other malignant tumors of the organs 15 Cancer and other malignant tumors of the organs 16 Cancer and other malignant tumors of the organs 17 Convertism of infants
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## NIAGARA FALLS—Continued.

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CAUSES OF DEATH IN THE CITY OF STRATFORD, 1914.

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CAUSES OF DEATH IN THE CITY OF TORONTO, 1914.

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CAUSES OF DEATH IN THE TOWN OF BARRIE, 1914.

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CAUSES OF DEATH IN THE TOWN OF BROCKVILLE, 1914.

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CAUSES OF DEATH IN THE TOWN OF COBALT, 1914.

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CAUSES OF DEATH IN THE TOWN OF COBOURG, 1914.

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CAUSES OF DEATH IN THE TOWN OF GALT, 1914.

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## INGERSOLL—Concluded.

CAUSES OF DEATH IN THE TOWN OF KENORA, 1914.

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CAUSES OF DEATH IN THE TOWN OF LINDSAY, 1914.

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CAUSES OF DEATH IN THE TOWN OF NORTH BAY, 1914.

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CAUSES OF DEATH IN THE TOWN OF ORILLIA, 1914.

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ORILLIA-Continued.

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CAUSES OF DEATH IN THE TOWN OF OWEN SOUND, 1914.

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Number of Column.	V.—Diseases of the Digestive System. Group Total	117. Simple peritonitis (non-puerperal)	VI.—Non-Venereal Diseases of the Genito- Urinary System and Adnexa. Group Total	120. Bright's disease 126. Diseases of the prostate	VIII.—DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE.  Group Total	144. Acute abscess	X.—MALFORMATIONS.	Group Total	150. Congenital malformations (still-births not included)	XI DISEASES OF EARLY INFANCY.	Group Total	151. Congenital debility, icterus, and sclerema	154. XII.—OLD AGE.	Group Total	XIII AFFECTIONS PRODUCED BY ENTERNAL CAUSES.	Group Total	158. Suicide by drowning rushing (vehicles, rail. road, landslides, etc.)	XIV ILL-DEFINED DISEASES.	Group Total	189. Cause of death not specified or ill-defined	Not included in totals

CAUSES OF DEATH IN THE TOWN OF SAULT STE. MARIE, 1914.

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CAUSES OF DEATH IN THE TOWN OF SMITH'S FALLS, 1914.

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CAUSES OF DEATH IN THE TOWN OF SUDBURY, 1914.

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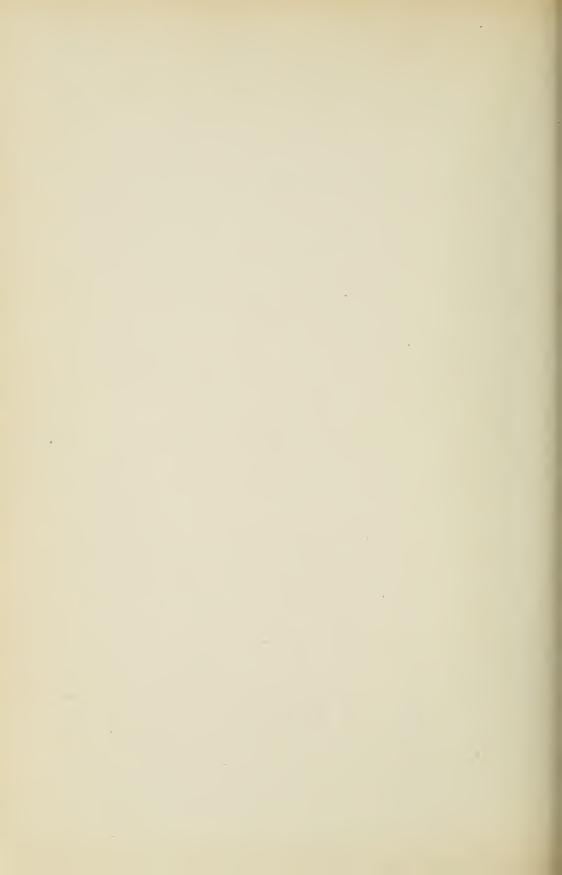
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CAUSES OF DEATH IN THE TOWN OF WELLAND, 1914.

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# Thirty-Third Annual Report

OF THE

# Provincial Board of Health

OF

Ontario, Canada

FOR THE YEAR

1914

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO



#### TORONTO:

Printed and Published by L. K. CAMERON, Printer to the King's Most Excellent Majesty
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Printed by
WILLIAM BRIGGS
Corner Queen and John Streets
TORONTO

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-third Annual Report of the Provincial Board of Health for the year 1914.

Respectfully submitted,

W. J. Hanna,

Provincial Secretary.

TO THE HONOURABLE W. J. HANNA, K.C., M.P.P.,

Provincial Secretary of Ontario.

SIR,—I have the honour to submit for your approval the Thirty-third Annual Report of the Provincial Board of Health, made in conformity with and under the provisions of the Public Health Act, for the year 1914.

I have the honour to be, Sir,

Your obedient servant,

JOHN W. S. McCullough,

Chief Officer of Health.

# PROVINCIAL BOARD OF HEALTH OF ONTARIO

ADAM H. WRIGHT, M.D., ChairmanToro	nto.
HENRY R. CASGRAIN, M.D	sor.
THOMAS E. KAISER, M.DOsha	wa.
WILLIAM H. HOWEY, M.DSudb	ury.
A. A. Weagant, M.D Ottav	
James Roberts, M.D., M.O.H	

Secretary and Chief Officer of Health,
John W. S. McCullough, M.D., D.P.H. (Tor.)

Provincial Medical Inspector, R. W. Bell, M.D.

Provincial Bacteriologist, J. A. Amyot, M.D.

Assistant Bacteriologist, Frank W. Schofield, D.V.S.

Branch Laboratory—Kingston, W. T. Connell, M.D.

Provincial Chemist,
H. M. Lancaster, B.A.Sc.

Assistant Chemist, W. J. FAWCETT, M.A.,

Provincial Sanitary Engineer,
.F. A. Dallyn, B.A.Sc., C.E. (Tor.).

 $District\ O\mathit{flicers}\ of\ Health,$ 

#### District.

No. 1.—DAVID B. BENTLEY, M.D., Sarnia.

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

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

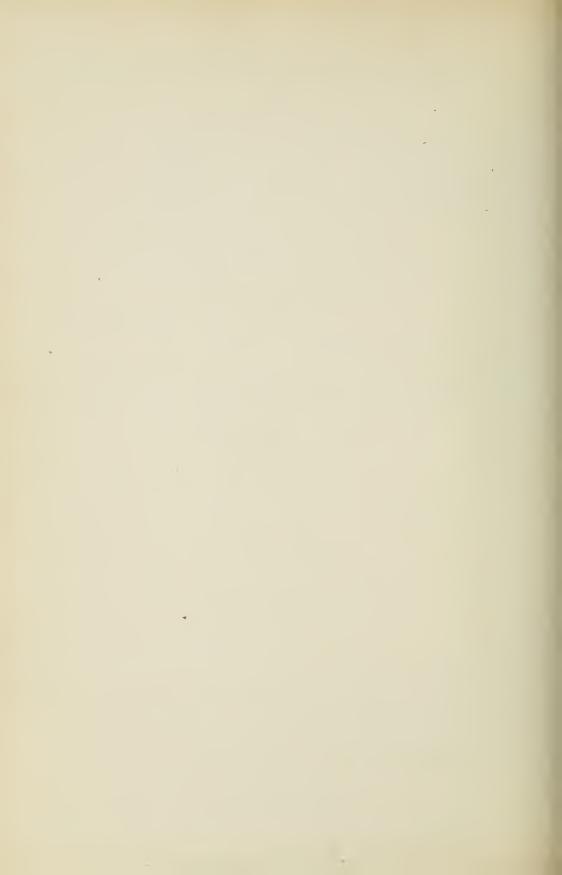
No. 4.—George Clinton, M.D., Belleville.

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.

Sanitary Inspector, George E. Young.



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# ANNUAL REPORT

OF THE

# Provincial Board of Health for the Province of Ontario

For the Year ending 31st December, 1914.

RESUMÉ OF TRANSACTIONS OF THE BOARD BY THE CHIEF OFFICER.

This is the Thirty-third Annual Report of the Provincial Board of Health for the year ending December 31st, 1914.

The Board held four regular and two special meetings during the year. In the interval between meetings of the Board a large number of plans and specifications of water works and sewerage construction were, with the assistance of the Provincial Sanitary Engineer, scrutinized and approved. In the consideration of these matters careful attention was given to the plans of the various works in order not only to safeguard the municipalities involved against financial loss, but especially to see that the works approved were designed to give efficient and satisfactory service. In regard to these matters a large measure of credit is due to the Engineer, whose efforts have been most painstaking. The future only will show the public the value of such an excellent officer, whose services have in many instances prevented the establishment of works of faulty design, the construction of which would have meant loss and want of efficient results. A list of the various works approved will be found in his report.

## District Officers of Health.

The first report of the District Officers who began their work in the fall of 1912 was included in last year's report. These officers continue to give excellent service and from correspondence received and discussions with Medical Officers of Health, Members of the Legislature, Municipal and County Councillors, and the public generally it will be at once seen that their services continue to be very much appreciated. Many of the matters of reform suggested by these gentlemen have been taken up by the Board and their recommendations are being carried out. At the outset of the war two of our most efficient officers, holding the rank of Major in the Army Medical Corps, offered their services for overseas duty and continue to be so employed. Major Bentley of No. 1 District is second in command of No. 2 Field Ambulance, and Major Wodehouse is employed as field sanitary officer with the Canadian Expeditionary Force in France. In addition, Major Moloney and Captain McClenahan have since the beginning of the war been giving a considerable portion of their time to military duty on the St. Lawrence and Welland Canals, respectively. Major Amyot has been acting as sanitary officer in the Second Division and the writer has been in charge of the work of inoculation against typhoid among the troops concentrated in Toronto.

#### Anti-Typhoid Inoculation.

Upon the outbreak of the war the Board offered to supply, free of charge, to the Federal Government all the Anti-typhoid Vaccine required for Canadian troops. This offer was accepted. In addition sufficient dosage for the troops sent overseas from the sister colony of Newfoundland was gratuitously supplied. This vaccine which is manufactured in the Provincial Board's Laboratory is of standard quality and, considering the excellent results achieved in the prevention of typhoid fever, the Board's action may reasonably be considered to be as valuable public health work as any hitherto undertaken.

#### Diphtheria Antitoxin.

Following efforts extending over a period of years the Board has succeeded in effecting a plan whereby the extortionate prices charged the public for Diphtheria antitoxin have been materially reduced. This product was, previous to May, 1914, not manufactured in Canada. Including other sera (or which it formed the very much larger proportion) the cost of the quantity annually imported into Canada exceeded \$120,000. The prices have always been such that there was a hesitancy on the part of physicians in using the remedy until there could be no question of the diagnosis, with the consequence that both as regards prevention and cure the delay was often fatal. Then again the question of cost often prevented large enough dosage being used except in well-equipped Isolation Hospitals. For example, in the year 1913 the death rate from diphtheria in the City of Toronto, apart from the cases treated in the Isolation Hospital, was 16 per cent., while the rate for the Isolation Hospital, where probably the most serious cases were taken, but where the dosage was large and prompt, was but 6 per cent.

In May, 1914, an arrangement was made with the University of Toronto whereby Anti-toxin is supplied to druggists and Boards of Health at the following prices, viz.:

5,000 ı	unit	vial	pack	age	٠,				 		 			. \$	1.00	į
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Supplies may be readily procured by addressing Department of Hygiene, University of Toronto, Toronto, Ont.

Not only has this department proved of service to our own Province, but already within a year nearly all of the Provinces in the Dominion have availed themselves of the reasonable price at which the remedy is supplied. There can be no doubt that time will show as the result of this service a substantial decrease in the death rate from this disease.

#### Rabies Treatment.

It is gratifying to know that the incidence of rabies' cases has been much less during the year. However, a number of cases have been treated at our Laboratory, No. 5, Queen's Park, with continued good results. This treatment is likewise supplied to the Board by the University of Toronto. The Board makes no charge to the patient for 3 weeks' treatment except the actual cost to us of \$20.00. No case is refused even if the fee is not forthcoming. Details of cases treated will be found in the report of the Director of the Laboratory.

#### Legislation.

An amendment to Section 94 of the Public Health Act is of importance to urban municipalities desiring to establish sewage disposal works in an adjacent municipality by providing that this privilege may be granted if, after objections on behalf of the council of the municipality have been heard by the Board, the latter gives approval of the location. Several applications under this amendment are pending.

#### Ottawa Water Supply.

The water supply of the City of Ottawa is still an unsettled question. By a special Act of the Legislature of 1914, the decision as to whether mechanical filtration of the Ottawa River water by a plan known as the Currie Scheme or the establishment of a source of supply from Thirty-one Mile Lake in the Province of Quebec was left to the discretion of the Board. The latter scheme had been favourably reported upon by Sir Alex. Binnie of London, Eng. (see Annual Report, 1913). The whole question was fully investigated by the engineer and by the members of the Board all of whom went personally over the ground. As the result of this investigation there was no hesitation on the part of the Board in refusing to approve the plans of the Currie Scheme. However, the Board's refusal to approve of this plan was appealed and the learned judge who tried the appeal ordered the Board to reconsider the matter, which was done on the last day of the year, with the same result. As the law stands the city is committed to the Thirty-one Mile Lake scheme, which is a magnificent source of supply. Probably if the war had not ensued the work would ere this have been under way.

#### Communicable Diseases.

The regulations regarding the notification of communicable diseases including tuberculosis are being better observed from year to year, but there is still room for improvement. The public are becoming much better informed in respect to public health questions and the manner in which disease is spread. As a consequence greater care is taken in isolation and quarantine of such diseases.

#### Provincial Medical Inspector.

The general oversight of communicable diseases has continued under the able management of Dr. R. W. Bell, Lt.-Col., who has personally investigated many outbreaks, especially of smallpox, and who by his careful and painstaking work has been able to not only lessen the expense due to these diseases but also to check their spread. Dr. Bell has also investigated many cases of nuisance, notably that complained of by the residents of West Toronto in relation to the abattoirs there. His report will be found elsewhere in this volume.

## Sanitary Inspector.

The Sanitary Inspector, Mr. Geo. E. Young, of North Bay, has charge of the various lumber, mining and construction camps in Northern Ontario. He is a very efficient officer and his services to the labour element in the hinterland of Ontario have been most valuable. Besides this he has been of great service to the local District Officer, Dr. W. Egerton George, upon whom, in the absence of Dr. Wodehouse at the front, has been placed the charge of the public health work in the whole of New Ontario. The work of both these officers continues to be of the greatest value to that vast area of the Province over which they preside.

#### The Laboratory.

The routine work of this branch of the public health service has been exceedingly large during the year. The absence of the Director, Dr. J. A. Amyot, during a considerable portion of the year has placed a very large burden upon the Chief Chemist, Mr. H. M. Lancaster, B.A.Sc., and his assistants. The various officers of both the bacteriological and chemical laboratories have worked a great deal of overtime in order to keep up the efficiency of the service. The assistant bacteriologist, Dr. Frank Schofield, has been in charge of the production of Anti-typhoid Vaccine for the troops, already referred to. The quantity and character of the supply have been satisfactory at all times. The routine examination of specimens relative to diphtheria, typhoid blood, and tuberculosis reached the number of 8,000 in 1914. All seizures of contraband liquor continue to be examined for the Liquor License Branch. Recently the laboratory has undertaken the examination of foods, coal, soap, washing compounds and other materials used in the public institutions under control of the Government. This will, it is hoped, effect a large saving of expense previously incurred in having this work done outside, and at the same time prevent the practice of fraud by unscrupulous contractors.

#### The Experimental Plant.

This unit has been in charge of Mr. A. V. DeLaporte, B.A.Sc. Anything new in relation to the purification of water supply and treatment of sewage has been tested and its efficiency or otherwise proved. The laboratory has been enlarged and partially remodelled. Extensive experiments with the Ultra Violet Ray treatment of water have been made and its value in this respect amply shown. A full report upon these matters is included elsewhere.

## Annual Conference of Medical Officers of Health.

The meeting of this Association, held in May, brought together an increased number of the most competent Medical Officers of Health in the Province. Dr. Chas. J. Hastings, the efficient Medical Officer of Health of Toronto, presided. The conference discussed a number of important and interesting topics. Much good has accrued from this annual meeting of health officers.

#### Educational Work.

The education of the public in the prevention of disease is perhaps the most important branch of the Board's service. This is accomplished chiefly by:—

- (a) The distribution of literature.
- (b) The public health exhibit.
- (c) Public lectures.
- (a) Distribution of literature—This is carried out with the assistance of municipal medical officers of health aided by the co-operation of the public and separate schools. The plan followed is briefly as follows: There are some 850

Medical Officers of Health in the Province. Two years ago a circular was sent to each Medical Officer of Health asking for the approximate number of families in his municipality. This being ascertained a set of the Board's pamphlets, some fifteen in all, was sent to each officer in sufficient number to supply a copy of each pamphlet to every family. The Medical Officer of Health was instructed to hand these to the teachers in the schools with directions to send to each family a copy of each publication at the rate of a couple each week. In this way we have been able to secure a very extensive distribution of our publications. Already there have been circulated some 150,000 copies of each pamphlet.

- (b) The Public Health Exhibit held at the Canadian National Exhibition each year attracts an enormous number of visitors. Besides, our moving picture show is sent about the Province during the fall and winter months. It is well received by the public. Each year we manage to add a number of new instructive films illustrating various phases of public health work.
- (c) Lectures—These are usually carried on by the various District Officers and to some extent by the writer in connection with the moving picture exhibit. At the same time copies of our literature are distributed.

#### Boundary Waters Investigation.

The progress report of the International Joint Commission was published in 1913, and a résumé of the results arrived at was included in last year's report. Since that time work has been begun by the Commission upon the second question involved, viz.: The prevention of the pollution of international waters by sewage. This matter is being taken up in a thorough manner by the Commission and a further report will be published in due course.

#### Tuberculosis.

It is gratifying to note that the reduction in the death rate from tuberculosis continues, having dropped to 85 persons per 100,000 of population. Eleven years ago this rate was 148 persons per 100,000 of population annually.

#### Diarrhaa and Enteritis.

The Board has from year to year endeavoured to lessen the ravages amongst young children due to diarrheal diseases. Elsewhere in this report some remarks upon this question, with a tabulation of rates for the various municipalities over a period of years, are given. In a large number of communities the death-rate has been gradually reduced. In the minority of instances there has been either no reduction or a slight increase. The death-rate for this disease is discussed and certain observations are presented which show that in most communities the existing rate is unnecessarily high.

The veteran Chairman, Dr. Adam H. Wright, has given a great deal of his time to the Board's affairs. To him as well as to the various members of the Board, whose advice and assistance have been most valuable, the writer desires to return his hearty thanks.

The work of the Board has greatly increased during the last few years. The volume of correspondence has increased about twelve-fold since 1910. The work has demanded very close attention and earnest labour on behalf of the staff. To them as well as to all the officers connected with the Board the writer is most grateful.

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		Number of Column.	:		nlos	nili	ulor	ina	sea	swe	ulos	inal
		Z			erc	Acute miliary tuberculosis	Tuberculous meningitis	Abdominal tuberculosis	Potts disease	White swelling	Tuberculosis of other organs	Disseminated tuberculosis
			1.5		Fub	Λcu	ľub	A bd	Pott	Μ'n	ľub	Diss
1			Total		1. Tuberculosis of the lungs	31	້		5. I	6.	7. 1	8.
			6.7		-	25	23		10	9	(-0	00

CASES AND DEATHS FROM COMMUNICABLE DISEASES REPORTED WEEKLY BY LOCAL BOARDS OF HEALTH FOR THE YEAR 1913.

Cerebro-spinal Meningitis.	Deaths.	चा	7	7.0	15	<u>ر</u>	0	<del>~1</del> 1	ಬ	ಣ	ന	ന	က	55
Cerebro	Cases.	2	7	9	17	ന	ന	<del>रच</del> ा	70	က	~	ന	က	89
ntile ysis.	Deaths.			0	•	0	1	-	0	22	<del>-</del>	0	0	ro
Infantile Paralysis.	Cases.		:	-	:	. 2	2	ಣ	11	ra	ന	2	0	29
Tuberculosis.	Deaths.	64	72	19	90	65	55	47	72	45	71	09	71	*776
Tuber	Cases.	126	136	86	145	110	66	26	124	80	113	94	113	1,335
Typhoid.	Deaths.	14	10	10	ro	6	ro	6	10	. 22	∞	10	14	125
Typ	Cases.	48	49	39	55	36	43	127	126	140	227	92	78	1,060
Whooping Cough.	Deaths.	ന	27	4	∞	9	G	ഹ	20	83	4	1	7	56
Who	Cases.	68	63	47	180	96	108	34	52	34	20	42	99	798
Measles.	Cases. Deaths. Cases. Deaths. Cases. Deaths. Cases. Deaths. Cases. Deaths. Cases. Deaths. Cases. Deaths. Deaths.	ന	က	9	ಬ	21	7	4	23	4	21	81	1	09
Mea	Cases.	184	427	682	609	691	859	422	148	107	182	201	372	4,884
Diphtheria.	Deaths.	23	10	19	13	10	9	12	10	15	22	35	32	213
	Cases.	201	216	198	147	183	158	144	172	158	358	329	208	2,772
Scarlet Fever.	Deaths.	က	9	9	11	13	9	1	23	87	21	23	9	09
Scarle	Cases.	320	410	447	349	275	203	80	71	49	128	164	526	2,722
Smallpox.	Cases. Deaths.	0	0	0	0	0	0	0	0	0	0	27	0	2
Sma	Cases.	92	09	47	31	39	32	34	9	14	83	55	94	511
		January	February	March	April	May	June	July	August	September	October	November	December	

\* Tuberculosis, only 34 in every 100 deaths are reported weekly by Local Boards of Health. The M.O.H. and Secretaries are requested to press the matter of reporting all cases of communicable disease occuring in their municipalities. The information is tabulated in the Toronto office and forwarded to the District Offices of Health whose business is to assist the M.O.H.'s in checking outbreaks of disease.

The Legislature in the session of 1914 amended the Public Health Act as follows:

1. Subsection 3 of section 34 is repealed and the following substituted therefor:

Recovery of expenses of carrying out orders of Provincial Board.

(3) The corporation of the municipality whose treasurer shall pay the expenses so incurred as provided by subsection 2 may recover the amount so paid by action in any court of competent jurisdiction against the person certified in writing by the chief officer to have been in default, or the council of the corporation of the said municipality may direct the amount of such expenses to be added by the clerk of the municipality to the collector's roll and collected from the person so certified to be in default in like manner as municipal taxes.

Section 94 is amended by adding thereto the following subsections:

Rev. Stat. c. 210, s. 94, amended.

Sewerage works or sewage disposal works of city in adjoining township.

(7) The sewerage system or sewage disposal plant of an urban municipality may, with the approval of the Provincial Board be continued into, or through, or be situate in an adjoining township municipality, but before approving of any such work the Provincial Board shall give notice to the clerk of the township and shall hear and consider any objections which the council of the township or the residents therein may make to the location of the works.

Powers
of urban
municipality after
approval of
Provincial
Board

Rev. Stat. c. 192. (8) When the approval of the Provincial Board has been obtained the corporation of the urban municipality may enter upon, take and use such lands in the township as may be necessary, and for that purpose shall have and may exercise the same powers within the township as it has within its own municipality, and paragraph 56 of section 399 of The Municipal Act and clauses a and b following the said paragraph shall not apply.

#### DIARRHOEA AND ENTERITIS.

THE COMPARATIVE STATISTICS OF THE MUNICIPALITIES IN THE PROVINGE OF ONTARIO, 1902-1914.

International statistics show that Ontario has been for some years one of the healthiest provinces in the British Empire; there remains, however, much to be done if a premier position is to be attained. The great war at present raging and the immense loss of life occasioned by it directs our attention to the paramount need of a campaign in the interest of the conservation of life.

Considerable publicity has been given to infant mortality during the past few years and it is with thankfulness we accept the new phases, Baby's Welfare League, Infant's Pure Milk Depot, Little Mother's League, Baby's Milk Dispensary Guild, etc., which are so constantly being used in all progressive communities and which show that the public have recognized a new danger and have started the marshalling of forces.

One of the most serious losses under the general heading "Infant Mortality," and one which tends disastrously to deplete our national resources, is that known in our statistical vocabulary as a high "Diarrhea and Enteritis" death rate.

The situations which appear to cause greatest trouble are a few cities and towns which are content to labour along with a polluted water supply and an inadequate sewerage system. The use of polluted water by the men and women in factories and mills and in towns without a proper water supply frequently promotes a condition of endemic para-typhoid fever. This, together with the absence of proper sewerage facilities, and the general prevalence of flies and lack of personal hygiene, promotes the transference of infective material to the baby's mouth or to milk which has been reserved for the baby's use.

The result is the baby sickens with what is known variously as summer complaint, cholera infantum, etc. The deaths are all classed under Group 104 which is known as "Diarrhea and Enteritis (under two years)."

In Ontario, matters closely related to Infant Mortality are now receiving better attention, such as the extensive way in which some of the cities are constructing sewers and compelling landlords and tenants to do away with the old unsanitary privies and install water-carrying systems connected to municipal sewers under Sec. 25, s.s. 2, of The Public Health Act. Many of the smaller municipalities are now entering upon incinerator projects and are providing for the frequent collection of garbage and night soil. The proper screening and protection against flies and removal of the contents of dry earth closets weekly by a contractor engaged by the Local Board of Health or the Council is now recognized as correct practice and is being adopted in many of the northern towns and camps.

With the advent of Hydro-electric power there is no longer any excuse for not installing sewers, for even the most low lying sections can be economically handled by means of small electrically-operated pumping stations.

One of the questions which only a careful examination of our statistics will answer is to what standard may we reasonably attain. For this purpose the following statistics, showing the prevalence of Diarrhea and Enteritis under two years in Ontario, are here given. Generally speaking, the statistics permit of a rather satisfactory conclusion, and that is, the existing high rates are local and capable of immediate improvement. Table No. 1 shows the conditions throughout the Province. A summary of Table No. 1 shows that the following averages exist.

TABLE I.-DIARRHGA AND ENTERITIS IN ONTARIO, 1902-1914

County figures exclude cities and towns for which figures are riven, but do include numerous small towns and villages not here listed

	Births registered in 1914	Town	20.0 20.0
	rths registe	County City	660 660 660 660 660 660 660 660
of Laive	lered Hi	Town Cou	045 130 145 145 145 145 145 145 145 145 145 145
number	Hirths regist	Oity To	85 99 88 88 88 88 88 88 88 88 88 88 88 88
Average number of	of Still Births registered 1902-1912	County   C	1.181 1.
		Town Co.	99 35 55 55 55 55 55 55 55 55 55 55 55 55
Average yearly deaths	110 m all causes, 1902 1912	Oity T	23. 23. 23. 23. 23. 23. 23. 23. 23. 23.
Average	170 H	County	200
4	years	Town C	
Yearly deaths from Enteritis per 100 births registered, 1902-1914	Average for 13 years	City	
egistered	Аустад	County	### ### ### ### #### #################
births r	ear.	Town	
s per 100	Minimum year	City	3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -
Enferiti	Min	County	9 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
ths from	ear	Town	8
early dea	Maximum year	City	
Y	Ma	County	
	and 1914		88. 18. 18. 18. 18. 18. 18. 18. 18. 18.
	Name of Municipality and County with Assessed Population, 1914		National   Sault Ste Marie   13     Irani

TABLE I-Continued.—DIARRHŒA AND ENTERITIS IN ONTARIO, 1902-1914

County figures exelude cities and towns for which figures are given, but do include numerous small towns and villages not here listed

	*	early dea	Yearly deaths from Enteritis per 100 births registered, 1902-1914	Enterifi	s per 100	births re	gistered,	1902-191	#	Averag	Average yearly deaths		Avera	Average number of	er of			
Name of Municipality and County with Assessed Population, 1914	Ma	Maximum year	rear	Min	Minimum year	3.5	Average	Average for 13 years	years	fron	from all causes. 1902-12		of Still 1	of Still Births registered 1902-1912	ristered	Births registered in 1914	pristered	in 1914
	County	City	Town	County	City	Town C	County	City	Town	County	City	Town	County	City	Town	County	City	Town
Northumberland & Durham #9.464     Cobourge   San 575     Cobourge   San 576     Oshawa   San 576     Oshawa   San 576     Oshawa   San 576     Parry Sound   San 58     Perl		79 0.4 X t		24	## 99 77 ## ## 99 0 0 61	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		7 - 1 - 2 - 1 - 1 - 1 - 2 - 1 - 1 - 2 - 1 - 1	10 - 01 - 1 - 10 - 71 1 - 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	656 656 656 656 656 656 656 656 656 656	168 1188 1 188 1 188 1 1 1 1 1 1 1 1 1 1	88 8 96 97 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25.00 25	88 18 18 18 18 18 18 18 18 18 18 18 18 1	8 8 8 15 8 10 2 2 2 3 15 15 15 15 15 15 15 15 15 15 15 15 15	919 769 769 769 778 778 778 778 778 778 778 77	202 203 4 4 476 77 83 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
* 1909-14, † 1902-1912, 1903-1907.	3-1907		Included in County, 1914	County.	1914	-			22			500			948			

#### SUMMARY OF TABLE I.

Class of Municipality	Average	es of the avera	ige yearly De	aths per 100 E	Births.
Ciass of Funcipality	Max.	Min.	Average.	Group of the lowest Averages.	Group of the highest Averages.
Counties	3.44 7.1 5.9	0.54 1.27 1.44	1.89 3.59 3.37	0.88 2.30 2.20	2.73 4.86 5.36

The Town of Rockland, a lumbering centre on the Ottawa River, in the County of Russell, is an unfortunate example of what a polluted water supply and lack of sanitation means to a community. This town has had during the past ten years an average death rate from Diarrheea and Enteritis (under two years) of 11 per cent. of the reported births, with exceptional years running as high as 22.9 per cent. of the reported births; another such municipality is Sturgeon Falls. Conditions such as these are intolerable and some method of financing the needed local improvements must be arranged for. No Local Medical Officer of Health should tolerate any such death rate; due publicity should raise such a storm of protest that sanitary conditions would be established at no matter what sacrifice.

We must dismiss once and for all the old fallacy of taking the Province or even the county as a whole and pluming ourselves because a good average is shown. The figures for each municipality must be considered even in the counties exhibiting excellent rates. Examining analytically the counties of Prescott and Russell, Carleton and Nipissing, we find that the county rate is made of several very good townships and some exceptionally bad ones, as is shown in Table No. 3. Conditions such as these could be cited ad infinitum.

The intensity of the deaths by months may be conveniently expressed as 18 per cent. occurring in July, 34 per cent. occurring in August, and 21 per cent. occurring in September and less than 3 per cent. in any other month, except October, which is slightly higher than 3 per cent. Considering those municipalities which exhibit the lowest rates we have 24 per cent. of the deaths occurring in August, 30 per cent. occurring in September and 17 per cent. in October with something higher than 3 per cent. of the total each month. July, the highest of these, however, does not exceed 11 per cent. of the total.

In view of the fact that practically 80 per cent. of the cases and deaths occur during July, August and September, a systematic campaign, with an increased staff of nurses and additional milk depots with longer hours, is amply warranted during this period. In fact if this period were properly covered, the remainder of the year could almost take care of itself. Any Babies' Welfare organization which permits its workers to have holidays during this period is guilty of criminal neglect and demonstrates its lack of appreciation of the fundamental principles presented in their problem.

It appears that heat alone is not responsible for excessive death rates, but where unsanitary conditions exist a continued hot spell certainly causes the house flies and other agents of disease transference to multiply, making infections more numerous.

A continued hot spell affects the keeping of fresh milk very seriously and in a minor way may be the cause of disorders which on account of an artificial

# TABLE III ANALYTICAL STUDY

Diarrhœa and Enteritis under 2 years

	Totals	00000-04000 000000	)	Tourselence Source
DISTRICT OF NIPISSING	#161 #161	9.57 1.317 5.317 1.0	DISTRICT OF TIMISKAMING	1. 324 1. 2017 1. 687 1. 10
	Municipality	Townships Bondeld Caldwell Calvin Canron Canisholm Ferris Mattawan Papinger Widdifield Towns Bonfield Cache Bay Mattawa North Bay North Bay		Townships Bucke Casy, Casy, Casy, Cash, Dack, Dynond Bynond Bynond Bynond Ilariy, Ilaris Hilliard Hudson James Kerns Frisdale Whinrey Towns Towns Cohal Cochane Englelart Halliard Halliard Miney Towns Town
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	\$161 \$161 \$161	28 6 6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
	\$161 \$161	1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		61
	6061 6161 6161 8161 8161	28		○ 31 × 31     ○ 14     ○ 10       31     ○ 10 × 31     ○ 10       01     ○ 10 × 31     ○ 10       ○ 10 × 32     ○ 10
59.	8161 8161 1161 0161 6061	95		©     .0.
STON	#161 8161 8161 1161 0161 6061 8061 2061	95	COLL	©     .0.
MLETON	#161 8161 1161 0161 0061 8061 2061 2061	10 10 10 10 10 10 10 10 10 10 10 10 10 1	RESCOTT	©     .0.
F CARLETON	#161 8161 8161 1161 0161 6061 8061 2061	10 10 10 10 10 10 10 10 10 10 10 10 10 1	JF PRESCOTT	35     32     10     32     32       57     -     -     10     30     30       50     -     -     10     30     30       50     -     -     -     30     30     30       50     -
OF	\$161 \$161 \$161 \$161 \$061 \$061 \$061 \$061	13 12 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	Φ
OF	\$161 \$161 \$161 \$161 \$061 \$061 \$061 \$061 \$061	1   1   1   1   1   1   1   1   1   1	0	00 00 00 00 00 00 00 00 00 00 00 00 00
	#161 8161 1161 0161 6061 2061 9061 9061 9061	6 13 12 10 10 10 10 6 5 7 8 8 8 13 13 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	COUNTY OF PRESCOTT	THE HEART SO SO FF. 1 100  THE HEART SO SO FF. 1 100  THE HEART SO SO FF. 1 100  THE HEART SO SO FF. 1 100  THE HEART SO FF. 1

food diet renders the infant more sensitive to infection. The pure milk depots ought to be kept open all day in hot weather and the milk sold in smaller containers. This will prevent the growth of organisms introduced by careless handling in the home. The ideal container would have only one feeding. Remember the milk as it leaves the carefully managed depot is good; infection is always introduced subsequently by the mother or person handling the infant's food.

Many of our municipalities boasting of sewage systems have large sections of the municipality unsewered. Unfortunately, the Medical Officer of Health have until recently overlooked the fact that in many sewered sections no systematic effort has been made to abolish all the out-houses and have connection with the town sewers. In cities Section 25, s.s. 2, of the Public Health Act can be used effectively; this section is to be amended to apply to all urban municipalities having a municipal sewerage system. Dr. Hastings, M.O.H. of the City of Toronto. reported to the writer that he had been able in the last three years to abolish ten thousand outside closets. All Medical Officers of Health should have their sanitary inspectors make a census annually of the number of outside closets. A close analytical study of the statistics will frequently show a relation between the unsewered sections of a municipality and a high Diarrhæa and Enteritis rate.

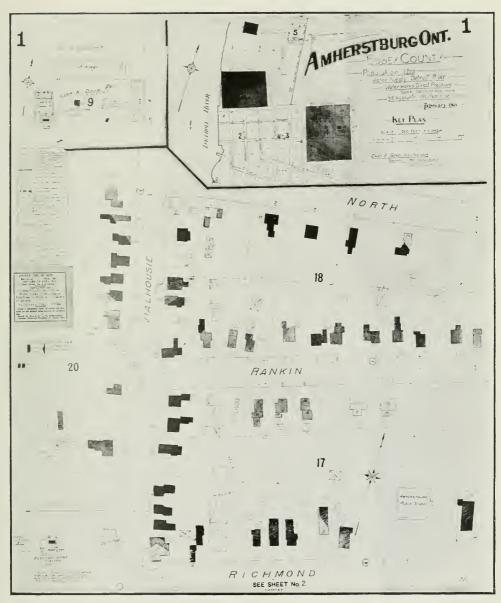
Maps of the municipalities for the purpose of analytical study can be procured through the courtesy of the Provincial Board of Health or directly from Chas. E. Goad & Co., at nominal prices. The maps appear as shown on the opposite page with the street number and surroundings clearly shown. The sanitary inspector can really complete the necessary information with reference to the location of privies, and as to whether the house is connected to the sewer.

Many of the Ontario municipalities have reduced their rates and the remainder can do likewise.

The high rates existing in several of the counties are due almost entirely to unsanitary conditions in one or several of the urban municipalities included therein.

In studying his problem, the Local Medical Health Officer or District Officer of Health should bear in mind these several facts and remember that the deaths occur mainly in July, August. September and October.

Tables and text arranged by F. A. Dallyn.



The original of this is  $20\frac{1}{2}$  inches by  $24\frac{1}{2}$  inches. Information relative to outhouses and privies can be readily inserted.



#### COUNTIES OF ONTARIO

Summary Deaths by Months, 1902-1914.

#### DIARRHŒA AND ENTERITIS

															A
1011		7	L.Y.		- 1				۰ .	September		November	December		Average No. of
1911 Popu-	County or District	January	February	ch	=				August	m	October	E S	Ħ	7	deaths per
lation	County of District	Ē	100	March	April	May	June	July	gn	pte	etc	) V (	i ə	Total	100 births
111 01011		33	E	Z	A	M	7	7	4	3e	Ŏ	Z		1	D. & E.
			-	1	1					1 32					
11.367	Thunder Bay	3		2	3	9	3	18	58	24	10	4		134	11.3
	Kenora			1		1	1	9	14	1	2	3		32	5.1
	Sudbury	10	3	10	4	1	4	23	76	37	14	6	$\frac{\cdot \cdot \cdot}{2}$	190	4.91
	Carlton		5	6	12	7	20	91	111	57	22	7	4	342	3.85
	Prescott & Russell.	16	18	14	19	22	42	77	143	79	43	20	27	520	2.87
	Nipissing	10	7	8	9	13	12	73	147	91	39	9	10	428	2.75
	Welland	2	1	2	2	2	5	13	44	62	34	8	2	177	2.6
	Lincoln	4 7	4	3	4	5	3	18	49	19	14	4	3	130	2.48
	Algoma	3	4	5	1	8	5	18	108	73	24 18	7 5	4	267 166	$\frac{2.4}{2.17}$
	Wentworth	6	6	3	6	5 8	1 13	22 45	38 120	59 99	39	13	6	370	1.9
	York Ontario	5		2	3	8	4	17	19	53	32	. 3	5	153	1.89
	Hastings	6	. 2	6	5	14	10	19	63	73.	39	8	4	241	1.87
	Essex	11	5	5	6	9	7	41	89	69	31	8	8	289	1.81
	Kent	5	3	7	3	6	6	12	66	94	35	8	7	252	1.75
	Stormont, Dundas														
	and Glengarry	3	5	4	7	13	14	32	91	60	31	1	4	265	1.74
	Haldimand	4	2	5	4		3	16	27	15	13	2		91	1.71
44,951	Leeds & Grenville.	6	3	9	8	4	7	17	26	53	37	6	8	184	1.65
22,208	Halton	2	1	2 5	1	4	3	2	20'	33	10	3	2	83	1.58,
	Parry Sound	2	2 3		3	3	5	18	43	32	19	4 2	2 1	138 74	$\frac{1.56}{1.55}$
10,050	Peel	1		1 4	1 4	1	4	9	15 8	23 7	11 3	4	1	37	1.54
	Rainy River Norfolk	1	1	3	11	4	4	7	16	35	26	3	1	111	1.54
	Simcoe	10	8	6	5	4	5	15	70	74	54	6	9	266	1.53
	Lambton	6	6	4	5	1	4	4	19	49	44	14		158	1.51
28,005	Lanark	6	4	3	3	7	4	6	37	30	9	1		110	1.50
42,036	Renfrew	7	8		4	3	9	27	72	37	17	7	6	204	1.43
	Victoria	2	1	1	2	2	1	7	11	22	12	4	3	68	1.43
	Peterborough	2	3	2 2	1	1	7	7	13	26	11	13		87	$\frac{1.31}{1.31}$
	Prince Edward		• • •	2	3 4	3	1	1.1	6 33	16 27	11 8	$\frac{4}{2}$	1	47 96	$\frac{1.51}{1.23}$
	Muskoka Dufferin	5	i	··· <u>·</u> 2	6	4	4	14 9	55 8	12	5	3		59	1.18
	Brant	0	1	-	3	*	1	2	16	24	10	· ·		57	1.17
	Northumberland	1	4		6	$\ddot{2}$	6	13	25	35	23	7	9	134	1.17
	Elgin	1	5		1		5	3	5	38	22	3		82	1.15
	Middlesex	3	1	1	6	4	6	8	17	53	25	5		133	1.13
	Lennox & Adding-														
	_ ton	3	1	4		3	2	6	7	15	11	2		55	1.08
	Frontenac	4		3	3	1	2	7	14	17	5	3	3	67	1.06
	Huron	4		4	10	3	9	7	15	36	30	6	3	129	.97 .96
39,317	Wellington	3	4	2 4	2	3	6 2	$\frac{2}{4}$	$\frac{6}{24}$	38 36	$\frac{21}{20}$	3	2 1	91 103	.95
50,112	Waterloo			6	0	1 8	6	4	24 22	39	36	6		146	.95
	Bruce Oxford	2		2	3 8 2 2 5	5	U	8	11	32	19	2		90	.95
36, 236	Perth	1	1	5	2	3	3	2	8	26	$\frac{13}{24}$	1	3	79	.85
53,333	Grey	10		9	5	6	6	9	19	28	11	2	3	111	.71
10,940	Manitoulin	1			1				1	1			1	6	.55
5,309	Haliburton			1	1	1	1	$\frac{2}{2}$	1	1	1	2	1	12	.46
										4 000			100	7 001	1.00
		185	153	184	206	218	270	772	1,851	1,860	970	233	169	7,064	1.89
			l				,			]		1		1	

<sup>2.15</sup> weighted average for Counties.

#### TOWNS OF ONTARIO

## Summary Deaths by Months, 1902-1914

#### DIARRHŒA AND ENTERITIS

1914 Assessed Popula- tion	Town	January	February	March	April	May	June	July	August	September	October	November	December	Total	Average number of deaths per 100 births D. & E.
6,418 13,006 6,700 5,319 10,470 *6,393 7,450 4,640 9,641 5,138 11,503 7,208 6,478 †11,537 8,248 12,385 7,215 6,551 6,646 11,932 7,240 4,867	Cobalt. Sault Ste. Marie Cornwall Kenora. North Bay North Toronto. Pembroke Hawkesbury Brockvilie. Cobourg Sarnia Welland Orillia West Toronto. Oshawa Owen Sound Barrie. Smiths Falls Collingwood. Galt Lindsay Port Hope	1 3  2 1  1  1 3	2	 1 1 1  1 5  1 	1 1 1 1 1 1 1 1 2 1 3 1 	1 2  4 1 1 2 2 2 1 3 1	3 4  2  2 1 	4 7 5 4 2	33 79 13 37 33 17 30 34 55 13 27 7 15 16 20 9 14 9 20 7 7	14 36 4 24 26 13 18 18 20 15 27 10 18 11 14 11 15 36 36 36 36 36 37 37 38 38 38 38 38 38 38 38 38 38	2 7 9 10 9 5 13 7 6	1 6 1 4 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 2 2 1	101 36 85 27 45 48 45	4.7 4.7 4.27 4.2 4.1 4.1 3.9 3.5 3.5 3.3 3.2 2.6 2.6 2.5 2.4 2.4 2.3 2.2 1.6

#### CITIES OF ONTARIO

## Summary Deaths by Months, 1902-1914

### DIARRHŒA AND ENTERITIS

1914 Assessed Popula- tion		January	February	March	April	May	June	July	August	September	Oetober	November	Deeember	Total	Average number of deaths per 100 births D. & E.
24,071 18,025 100,180 445,575 12,465 26,454 11,868 21,015 100,808 22,080 55,026 16,186 11,700 16,794 20,150 16,319 10,154 16,425 18,338	Fort William Port Arthur Ottawa. Toronto Chatham Brantford Belleville Kingston Hamilton Windsor London St. Catharines Niagara Falls St. Thomas Peterboro Guelph Woodstock Stratford Berlin	3 12 2 3 3  3 1 1	1 2 3 3 3 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 4 2 10 3 5 1 4 1 1 5 1 3 5	1 6 1 3 9 3 5 1 1 1 5 2 2 —	124 26 11 8 1 5 3 2 2  1 1	9 2 76 133 1 1 3  11 4 10  2  4 3  2 6 1 3 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	53 14 450 633 5 106 34 45 7 9 5 18 5 18 5 1440	127 96 403 1.150 22 86 21 73 254 46 122 32 13 19 40 22 12 18 20	71 63 198 698 38 79 23 46 155 25 94 29 20 23 22 21 41 13 27	297 229 177 211 622 144 366 5 5 13 10 18 11 144 6	2 355 134 1 2 3 4 20 2 7 4 2 17 4 3 5 2 5	988 2 1 6 177 2 2 1 1 1 1 2 2	221 1,473 3,679 89 245 83 171 680 137 331 88 61 85 108 80 48 63 72	3.7 3.4 3.2 3.28 3.2 2.7 2.6 2.32 2.26 2.26 2.14

<sup>4.142</sup> weighted average for cities.

CITY OF BELLEVILLE County of Hastings														CIT	rY nty	0.	F i	GU: Wel	EL!	PÆ	I on			_
Year	Population	January	March	April	May	July	August	October	November	December		Year	Population	January	Narch	April	May	July	August	September	October	December	Total	
1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914	9,208 9,876 Total	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1 - 1	1 3	1 1 5	2 4 4 1 1 1 1 1 3	33 1 1 1 2 2 1		1	2 3 5 11 9 11 7 8 8 6 9 4 83	1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914	11,496	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 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 2 4 1 2 3	1 1 2 3 2 2 1 3 3 1 3 2		3 1		2 7 8 9 7 5 5 7 11 9 *7 80
		Cour		7 (	of V	Vat	erl	00		-,-				Cou		0	2 7	Wer	tw	or	th			
1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914	9,844 15,196	11	···	•••	1 1	1	1 1 2 3 3 5 1	1	1		2 8 2 4 6 2 9 3 8 7 1 7 2	1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914	52.634 81.969	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 1	1 10 1 3 2 2 1 5 2 21	8 12 19 13 19 13 19 13 19 13 19 13 19 2 13 10 10	1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 1 1 2 2 4 4 5 4 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5	1	1 1 1 1 7 2 2	20 36 22 44 39 30 86 64 74 56 67 85 47
	CI	TY	O] un	F ty	BR.	AN'	rF an	OF t	RD			CITY OF FORT WILLIAM County of Thunder Bay.												
1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914	01 16,619 23,132	· · · · · · · · · · · · · · · · · · ·	• • •	1 1 2 2	1 1 1 1 1	1 1 3  6 1 1 13	4 5 1 2 7 4 8 3 5 9 7 9 2	66	1	1	13 8 5 10 13 14 22 20 29 22 21 55 13	1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914	16,499	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 3 2 2	1 1 1 1 3 2 1	1 2 1 1 2 1 1 1 2 1 1 1 2 1 2 1 2 1 2 1	1 2 3 1 6 1 1 5 9 1 1 1 5 2 7 1 7	1 2 9 8 5 13 6 6 6 9	1 1 2 2 5 2 2	1		6 6 5 9 26 26 20 39 46 36 32 76 *49 327
	(	CO Co			CF of				£				(	Cou	Y (	OF y c	f ]	IN	GS7	ro na	N c			
1902 1903 1904 1905 1906 1907 1908 1909 1911 1912 1913 1914	10.770	. 1	1	1			1	13222223333.4	5 3  2 4 1 1  2  2 	•••	4 3 2 18 5 6 4 5 8 13 8 3 10	1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914	01 17,691 18,874	1	1 2	1 1	1	2 2 1 1 1 3 3 2 2 1 1	3 9 9 9 1 14 5 5 5 5 5	27324114133	6 2 2 2			6 27 8 13 15 15 20 12 13 11 3 17 11 171

CITY OF LONDON County of Middlese	[]	CITY OF PORT ARTHUR County of Thunder Bay.
Year Population January Pebruary March April May June July	September October November December Total	Year Population Population January February March April June June July August Schrember October November Pecember
1902   37,981	7 1 19 7 1 19 7 1 14 12 4 1 26 2 1 27 4 3 2 23 8 2 19 10 6 2 33 5 1 33 5 1 33 5 36 2 1 12 11 3 1 24 15 7 39 6 4 26 94 36 7 331	1902   01   3,214
CITY OF NIAGARA F County of Wellan	- 11	CITY OF ST. CATHARINES  County of Lincoln
1902   4,244   1   1   2   2   1903   1904   1   2   1   2   1905   1905   1906   2   2   1   2   1906   1907   1908   1908   1908   1909   1911   1911   1912   1912   1913   1914   2   2   2   1   1   1   1   1   1   1	1	1902
CITY OF OTTAW County of Carleton	- 11	CITY OF ST. THOMAS County of Elgin
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	8 4 1 56 9 4 3 2 113 11 4 3 93 7 3 2 1 115 15 7 3 1 99 10 8 1 96 11 8 96 12 4 1 82 14 10 1 7 117 25 5 2 3 168 21 10 1 7 117 12 10 4 2 124 98 93 35 28 1,473	1902 11,485 1 2 1 4 1903 1904 2 3 3 1 1906 1907 1 3 3 2 1 1909 1910 1 1 1 3 3 2 5 1911 14,054 1 1 1 2 1 1913 1914 1 1 1 2 5 19 23 13 7 85
CITY OF PETERBOR( County of Peterborou		CITY OF STRATFORD County of Perth
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

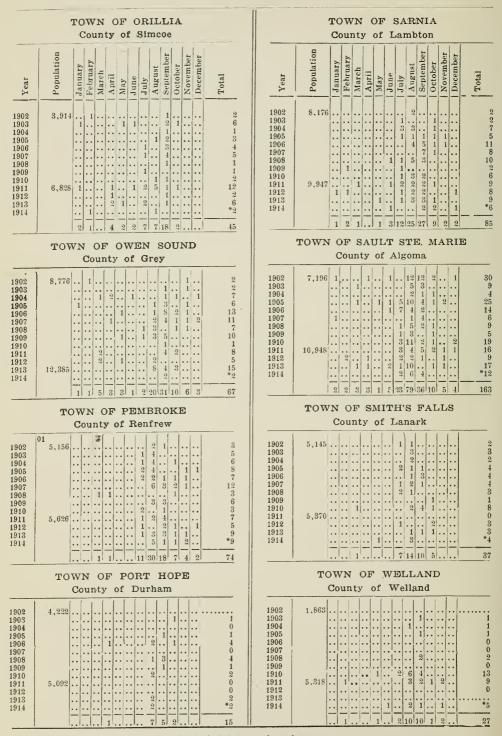
<sup>\*</sup> Statistics received too late to be included in totals and averages.

CITY OF TORONTO County of York	TOWN OF BROCKVILLE  County of Leeds
Year Population January March April May June July August September October November Total	Year Population January February March Anril May June July September October November December
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
CITY OF WINDSOR County of Essex	TOWN OF COBALT County of Nipissing,
1902   12,274	1902   01
CITY OF WOODSTOCK County of Oxford	County of Northumberland
01 1902 8,883 . 1 . 1 1 3 . 4 4 1903 1904 . 1 2 1 4 1905 1906 . 1 2 5 2 5 2 9 1907 1908 . 1 1 1 . 2 1 1 1 . 1 1 1 1 1 1 1 1909 1908 . 1 1 1 1 . 1 2 1 1 1 1 1 1910 1911 1912	1902 1903 1904 1905 1906 1906 1907 1908 1909 1909 1909 1909 1909 1910 1911 1912 1912 1914 1914 1914 1914 1914 1914 1914 1914 1907
TOWN OF BARRIE County of Simcoe	TOWN OF COLLINGWOOD County of Simcoe
1902   5,949	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

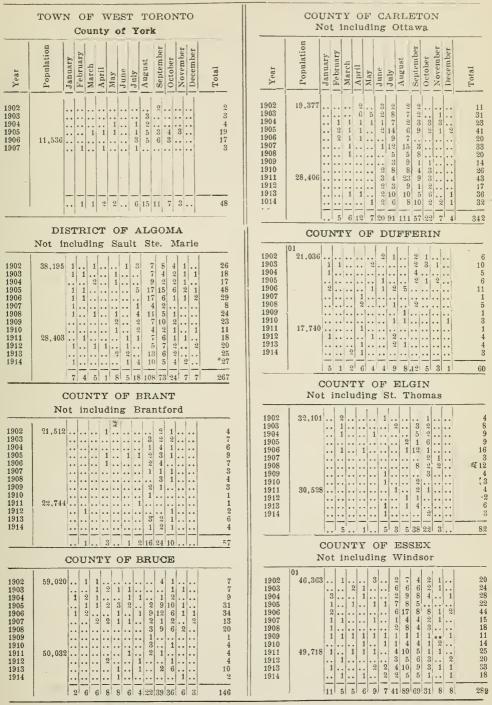
<sup>\*</sup> Statistics received too late to be included in totals and averages.

TOWN OF CORNWALL  County of Stormont	TOWN OF LINDSAY County of Victoria
Pear Population January Pebruary April March April May June June June June June June June June	Year Population January March April May June August September November Docember Total
1902 6,701	1903 1903 1904 1905 1906 1907 1908 1909 1909 1910 1911 1912 1913 1914 1914 1914 1914 1914 1915 1916 1917 1918 1918 1919
TOWN OF GALT County of Waterloo	TOWN OF NORTH BAY  County of Nipissing
1902   8,051     1   2     3   1904   1905     1   1   1   1   1   1   1   1	1902 2.530
1912 1913 1914	1912 1913 1914    1   1   1   1   3   2   1   1   8   20   1   1   1   20   20   20   20
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1902   862     2   1     3   1904     1905     1     1     4   1905     1     1     1     3   1908     1     1     1     3   1909     3   4     7   7   1911   5,632     1     2     3     3     1913     1914     1     4   4   17   13   2   1     19     1     1     2     3     3     1914     1     4   4   17   13   2   1     19     19     10     1
TOWN OF KENORA County of Rainy River.	TOWN OF OSHAWA
1902 5,303	County of Ontario  1902

<sup>\*</sup> Statistics received too late to be included in totals and averages.



<sup>\*</sup> Statistics received too late to be included in totals and averages.



<sup>\*</sup> For list of urban municipalities included see Municipal Bulletin, Municipal Statistics, Department of Agriculture, Ontario.

COUNTY OF FRONTENAC	COUNTY OF HALTON
Not including Kingston	
Year Population January February March May April May June July September October December Potal	Population   January   February   March   April   May   June   Ju
1902 26.843 2 2	1902 19.545
COUNTY OF GREY	Not including Belleville
1902   01   00   811   2     2   3     1   4   2     14   6   1904   1905   1   2     1   1   4   1   1   1   1   1   1   1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	COUNTY OF HURON
COUNTY OF HALDIMAND  1902   21,233	1902 61.820 . 1 1 1 1 2 6 1903 1
COUNTY OF HALIBURTON	Not including Town of Kenora
13) 2 6.559 1 1 2 0 0 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1	1902 1903 1904 1905 1906 1907 1908 1910 1911 1911 1911 1912 1913 1914 11,955 1 1 1 1 1 4 4 6 4 1 2 7 6 6 1 2 7 1 1 1 1 4 6 1 2 7 1 1 1 1 1 4 7 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

#### STATISTICS, PROVINCE OF ONTARIO.

Deaths from Enteritis and Diarrhoea (under 2 years) by years and by months, 1902-1914, inclusive.

	1902-1914, inclusive.										
	COUNTY OF KENT Not including City of Chatham	COUNTIES OF LENNOX AND ADDINGTON									
Year	Population January February March April May July August September October November Total	Year Population January Petruary March April May June June June June June June June June									
1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$									
	COUNTY OF LAMBTON	COUNTY OF LINCOLN									
-	Not including Town of Sarnia	Not including City of St. Catharines									
1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$									
N	COUNTY OF LANARK Not including Town of Smith's Falls	DISTRICT OF MANITOULIN.									
1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1913 1914	32,807       1     1     1     2     3     2      9        1     1     1     1     1     1      2     2     2      9        1     1     1     1     1       9      27     3      9         1     1     1     1      9      5         1     1     2     2      4         1     1      1     1      4     2     2     8               1     1      2               1	1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1911 1912 1913 1914 10,940 1 2 1 1 1 6									
COU	NTY OF LEEDS AND GRENVILLE	COUNTY OF MIDDLESEX									
	Not including Brockville	Not including City of London									
1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$									

	DIS	TR	IC	T	OF	' N	ıŭ	SK		K.	 A.	_					CC	ou	N'	ГY		OF	' (	ON	т.	AF	210				
			1	Ĭ.		_	_	-							Not including Oshawa																
Year	Population	January	March	April	May	June	July	August	September	October	December		Total		-	Year	Popula iou	January	February	March	April	May	June	July	August	September	October	November	December	Total	
1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914	21,233	IST		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 1 		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	24 5 8 2 5 3 3 3 3 3	4 4 3 8 . 1	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1			5 8 13 15 20 3 6 11 10 0 1 4 0	19 19 19 19 19 19 19 19 19 19	902 903 904 905 906 907 908 909 910 911 912 913	33,968	1	1	1 1 1	1 1 1 3	1 2 1 1 1 1 2	2 1 1	3 1 1 3 1 2 1 1 1	2 2 1 6 6	3 6 2 5 12 1 6 3 5 3 2 5 5	0 :5236 :252 :16 : 32	2 1		F	9 17 12 12 27 1 16 17 9 8 11 14 *9
	Not incl	ndir	g	Noi	th	Bay	y. (	Col	lad	t.	190	7-14		_			С	01	JN	T	Y	01	F ·	03	Œ	O1	RE	)			
1902			1.	. 3		2 1	3	4 5	4 5	2		2		20 20			No	ot	in	cli	uđ	ing	3 7	W	000	ist	oc	k			
1903 1904 1905 1606 1907 1908 1909 1911 1912 1913 1914 1914	45,678 Temis- kaming	1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 13	1 2 1 12	2 12:12:12:8:9 11:7 3:3	12 23 7 14 9 11 5	2 9 8 7 9 15 4 5 2 3 11 7 9 1	12 1 2 2 6 6 1 3 3	3 1 1	1 1 1 2		20 14 67 41 48 39 50 26 24 5 10 29 35	1: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	902 903 904 905 906 907 908 909 910 911 912 913	39,521	1				1		1 2 3	1 4	6 6 4 2	1 4 1 2 2	1 1	1		9 7 8 10 14 3 14 2 8 6 2 7 *1
	i.	נטס		Y	7	T	VU.	.ru	:,'U		<u> </u>	_					DIST	ľR	IC	T	0	er 1	PA	R	R	Y S	so	U	ND		
1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914	29,14'	0	1	1 1 1 3 1	11 11 11 11 11 11 11 11 11 11 11 11 11	1 1 1	1 2 7	1 2 1 1 2 2 3 16	3 3 3 1 35		3	LA	NT	5 11 4 15 13 6 11 6 10 3 7 12 8		1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913	24,93	7	1	1	11	1 1	1 .		2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2 5 1 1 1 9 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 3 3 2 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		8 11 5 21 28 11 9 11 3 10 12 9 *14
	ot incl		AN	1D	D	UF	H	Al	1						'			C	οτ	JN	T	Y	0	F'	P	EF	CL				
1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914	53,58	1 1 1 4	1 1 2		3		1	1 1 3 6 1 4 1 3	6 1 7 1 2	1 1 5 . 4 2 3 2 2	1 1 1	1 2 3 1		9 12 9 8 21 7 18 12 20 2 13 6 6 134		1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914	21,47	)2		2		1		1		3 4 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1		17 8 9 10 37 37 64 *9

<sup>\*</sup> Statistics received too late to be included in totals and averages.

COUNTY OF PERTII	DISTRICT OF RAINY RIVER
Not including City of Stratford	Not including Town of Kenora
Population January February March April May June June June June Cotober November December Total	Year   Population   Population   Population   January   Pebruary   March   April   May   June   June   June   June   June   September   October   November   December   Total
1902 1903 1904 1904 1905 1906 1906 1907 1908 1907 1908 1 1 1 1 1 2 2 3 3 1 1 8 2 5 7 1 1 16 1 1 1 1 1 2 5 5 1 1 1 1 1 1 1 1 2 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1902   01   10,839 1
COUNTY OF PETERBOROUGH Not including City of Peterboro'	Not including Pembroke
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
2 3 2 1 1 7 7 13 26 11 13 1 87  COUNTIES OF PRESCOTT AND RUSSELL	COUNTY OF SIMCOE  Not including Barrie, Collingwood and  Orillia
Not including Town of Hawkesbury  1902	1902   066.697   1   1   1   1   2   5   3   1     15   1903   1904   1905   1906   1   1   1   1   1   2   7   4   6   2   23   1906   1906   1   1   1   1   1   1   2   7   4   6   2   23   1907   1908   2   2   1   1   1   1   1   1   1   1
16 18 14 19 22 12 77 143 79 43 20 27   520   520   COUNTY OF PRINCE EDWARD	COUNTIES OF STORMONT, DUNDAS AND GLENGARRY Not including Town of Cornwall
1902 17,864 2	$\begin{array}{c} 1902 \\ 1903 \\ 1904 \\ 1905 \\ 1906 \\ 1907 \\ 1908 \\ 1910 \\ 1910 \\ 1910 \\ 1911 \\ 1913 \\ 1914 \\ \end{array} \qquad \begin{array}{c} 01 \\ 62,226 \\ . & 1 \\ . & 1 \\ . & 1 \\ . & 1 \\ . & 1 \\ . & 1 \\ . & 2 \\ . & 1 \\ . & 2 \\ . & 1 \\ . & 9 \\ . & 5 \\ . & 1 \\ . & 2 \\ . & 4 \\ . & 5 \\ . & 7 \\ . & 9 \\ . & 1 \\ . & 2 \\ . & 4 \\ . & 5 \\ . & 7 \\ . & 9 \\ . & 1 \\ . & 2 \\ . & 1 \\ . & 2 \\ . & 1 \\ . & 2 \\ . & 1 \\ . & 2 \\ . & 1 \\ . & 2 \\ . & 1 \\ . & 2 \\ . & 1 \\ . & 2 \\ . & 1 \\ . & 2 \\ . & 2 \\ . & 3 \\ . & 1 \\ . & 2 \\ . & 2 \\ . & 3 \\ . & 1 \\ . & 2 \\ . & 2 \\ . & 3 \\ . & 1 \\ . & 2 \\ . & 2 \\ . & 3 \\ . & 1 \\ . & 2 \\ . \\ . & 2 \\ . & 2 \\ . \\ . & 2 \\ . & 2 \\ . \\ . & 2 \\ . \\ . & 2 \\ . \\ . & 2 \\ . \\ . & 2 \\ . \\ . & 2 \\ . \\ . & 2 \\ . \\ . & 2 \\ . \\ . & 2 \\ . \\ . \\ . & 2 \\ . \\ . & 2 \\ . \\ . & 2 \\ . \\ . & 2 \\ . \\ . & 2 \\ . \\ . & 2 \\ . \\ . & 2 \\ . \\ . & 2 \\ . \\ . & 2 \\ . \\ . \\ . & 2 \\ . \\ . & 2 \\ . \\ . & 2 \\ . \\ . \\ . & 2 \\ . \\ . & 2 \\ . \\ . \\ . & 2 \\ . \\ . \\ . & 2 \\ . \\ . \\ . \\ . & 2 \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\ . \\$

<sup>\*</sup> Statistics received too late to be included in totals and averages.

DIGERTION OF CHUDINA	COUNTY OF WELLAND
DISTRICT OF SUDBURY	COUNTY OF WELLAND Not including City of Niagara Falls
Year   Population   Population   January   January   January   Abril	Year Population January March May June June June October October December Total
1902 1903 1904 1905 1906 1907 1908 1909 1909 1909 1910 1911 1911 1911 1912 1912 1912 1913 1914 1914 1914 101 101 101 101 101 101 101 1	$\begin{array}{c} 1902 \\ 1903 \\ 1904 \\ 1905 \\ 1906 \\ 1907 \\ 1908 \\ 1909 \\ 1910 \\ 1911 \\ 1912 \\ 1913 \\ 1914 \\ \end{array} \qquad \begin{array}{c} 01 \\ 24 \\ 023 \\ \dots \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 22 \\ 25 \\ 13 \\ 14 \\ \dots \\ 12 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10$
Not including Port Arthur and Fort William Cities	COUNTY OF WELLINGTON Not including City of Guelph
1902   01   5,335     1	$ \begin{array}{c} 1902 \\ 1903 \\ 1904 \\ 1905 \\ 1906 \\ 1996 \\ 1997 \\ 1999 \\ 1910 \\ 1910 \\ 1911 \\ 1912 \\ 1914 \\  \end{array} $
COUNTY OF VICTORIA Not including Town of Lindsay	COUNTY OF WENTWORTH Not including City of Hamilton
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
COUNTY OF WATERLOO  Not including City of Berlin and Town of Galt	COUNTY OF YORK  Not including Toronto, Toronto North,  Toronto West
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$

<sup>\*</sup> Statistics received too late to be included in totals and averages.

# THE DISTRICT OFFICERS OF HEALTH, PROVINCE OF ONTARIO

JOHN W. S. McCullough, M.D., D.P.H. (Tor.), CHIEF OFFICER.

This is an annual report of the District Officers of Health for the period from the 1st of December, 1913, until the end of the year 1914. During a large portion of this period the Board has been deprived of the services of Drs. Wodehouse and Bentley who went to the front with the First Contingent, and those of Drs. McClenahan and Moloney who were required for military duty in their respective districts. The following reports summarize the work of the District Officers.

#### DISTRICT NO. 1.

Comprising the Counties of Lambton, Middlesex, Oxford, Elgin, Kent, Essex. District taken over temporarily by Dr. McNally.

#### DISTRICT NO. 2.

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

#### THOMAS J. McNALLY M.D.

# District Officer of Health, Guelph, Ont.

Following up the work of the previous year, a careful Sanitary Survey of twenty-three towns and villages, three cities, and fifty-three townships has been completed, according to the scheme laid down by the Provincial Board, and in each of these, with very few exceptions, a meeting has been held with the Local Board of Health and, where possible, the Council and Board of Trade.

At these meetings we gave an address on "Public Health," emphasizing the fact that the Public Health Act was designed to form the groundwork of a system of Preventive Medicine to be carried out by the Local Board, backed up by the District Officer of Health and the Provincial Board of Health; the duties thus devolving upon the Local Board were clearly indicated in each case and such special conditions as were revealed during the survey were particularly called to their attention.

A discussion of the local problems and difficulties, with the resultant exchange of advice and assistance in their solution, promoted a very decided increase of interest and initiative on the part of the Local Authorities. Improved conditions and the better enforcement of the Act and Regulations are hoped for.

During the month of January the Moving Picture Exhibit of the Provincial Board of Health was shown in the afternoon to the school children and in the evening to the citizens of Orangeville, Shelburne, Dundalk, Markdale, Chatsworth, Wiarton, Chesley, Cargill, Port Elgin, Drayton, Teeswater, Blyth, Clinton, Mitchell and Sebringville, when we gave a lecture on Public Health, utilizing the pictures to illustrate the different phases of the subject.

The exhibitions and lectures were very largely attended and many very kind expressions of appreciation were given at their close. The beneficial and instructive nature of this phase of our work cannot be lightly passed over. Opinions were so commonly expressed as to this that we are led to the conclusion that it is the representative feeling of the Public. I have found in my district that this interest is generally translated into action, I would suggest and urge that the work along this line should be extended to reach our rural population.

#### COMMUNICABLE DISEASES.

Smallpox.

In District No. 2 during the year this disease made its appearance in thirteen municipalities, and in each case it was confined to the family in which it first occurred; it is pleasing to note in this connection that though frequently in very mild form it was recognized by the M. O. H. and such careful precautions taken that in no case did it extend to a second family.

Measles.

This disease has been rather widespread in several of the municipalities, due largely to the fact that it was of a mild form and was frequently well established before coming to the notice of the Medical Officer of Health. It is rather difficult to trace the source of this disease positively, but, as nearly as we could make out, most of our trouble with this epidemic was due to a mild form of the disease which devloped in a family which came from Hamilton on a visit and did not report the disease.

Though the disease was generally mild, yet there were a few deaths, illustrating how important it is that our people should be required to report every case. Had this first case been reported these lives would have been saved and a couple of hundred families would have been spared the trouble, inconvenience and financial loss of being quarantined.

# Diphtheria.

This disease has been kept fairly well under control except in the City of Berlin, where, in spite of very diligent work on the part of the Board of Health and most assiduous care on the part of Dr. McGillawee, it has persisted during the year, due, it appears to me, to carriers. I am pleased to say that, although much too prevalent, it has not been allowed to assume the proportions of an epidemic and at the present appears to be on the decline.

#### Scarlet Fever.

Scarlet Fever has not, at any point, been allowed to gain any decided foothold, and the few cases that occurred were comparatively mild. I cannot pass this disease over without calling attention to the very helpful work done by Miss Wilson, the school nurse in Owen Sound, in preventing an epidemic of this disease in that town.

# Typhoid Fever.

We are pleased to report that there has not been any extensive outbreak of this disease, the cases being isolated except at Erin Village, where it made its appearance in the form of an outbreak apparently due to milk bottles having become contaminated.

A typhoid patient had come to the Village to convalence a couple of weeks previous to the outbreak; this is the only source that I was able to discover where this might have taken place. As nearly as I could ascertain three deaths resulted and one secondary case occurred.

In addition to the visits mentioned above to municipalities when the required survey was made, 127 visits were made to 114 different municipalities of the District in connection with special unsanitary conditions and for the control of Communicable Diseases, making in all 206 visits.

## Correspondence.

Our correspondence consisted of about 300 letters in reply to enquiries as to various conditions of sanitation, control of communicable diseases, and interpretations of the Public Health Act or Regulations of the Provincial Board, as well as many letters written to Local Authorities calling their attention to unsanitary conditions requiring correction.

## Slaughter Houses.

In connection with the supervision of slaughter houses much good has been accomplished by taking the Local Authorities and the butcher to those situated in the municipalities and carefully explaining the Regulations of the Provincial Board in respect thereto. A very general improvement is apparent but much yet remains to be done before conditions are satisfactory.

# Water Supply.

The water supply in the following towns has been carefully examined and considered in company with Mr. F. A. Dallyn, the Provincial Sanitary Engineer, and a special report made thereon, viz., Goderich, Seaforth and Mitchell.

The Goderich supply was found to be very seriously exposed to contamination; a system of chlorination was recommended and the construction of a new intake advised.

As Seaforth depends for its supply upon private wells, which, owing to the nature of the soil and the use of outside closets and cesspools for disposal of sewage, are exposed to contamination as evidenced by the outbreak of typhoid during last year, we recommended a municipal supply for domestic purposes from artesian wells; I am sorry to say that so far no steps have been taken to act upon our recommendations.

In Mitchell we found the municipal supply seriously menaced owing to the wells not being properly protected at the top from contamination by flood water in spring and fall. This we recommended to be corrected at once.

We also found that their domestic supply was connected for fire purposes with the dam in the river which is contaminated; this connection is protected by gate valves, which is contrary to law and a serious menace, so we recommended that this connection be discontinued, which has not been done.

With Dr. J. A. Amyot, Provincial Bacteriologist, the water supplies of Owen Sound and Meaford were examined and reported upon.

The Owen Sound supply was found to be satisfactory except that the springs were not properly protected, which, upon our recommendation, is to be done as soon as weather conditions are favorable.

The Meaford supply being scanty from their present system, it was recommended that a further filtration be secured by the construction of another well similar to the one now in use.

When making the sanitary survey of Port Elgin it was discovered that their supply was not of sufficient amount nor properly protected, so it was recommended that they take steps to remedy these defects, but so far this has not been done.

Berlin's supply was investigated, with the result that they found the pond from which part of their supply was derived to be contaminated and its use has

been discontinued until a proper filtration plant can be constructed.

Guelph supply was gone over in company with the M. O. II. and we agreed that, owing to the fact of the water from the springs being carried by gravity in mains to the pumping station and these mains not flowing full, there was in case of surface breaks in the mains serious danger of contamination, particularly as this main runs through a part of the City not yet supplied with sewers; this danger has unfortunately been evident though not from the particular source we feared.

Sewerage.

The disposal plants at Stratford, Berlin and Guelph have each been the subject of special examination and investigation, and, while none of them are as efficient as desirable, improvements have been made and are being followed up as the result of our attention backed up by the Provincial Board of Health.

In the townships the efforts of our Local Officers have been especially directed to improving the sanitary conditions surrounding the rural schools, railway depots and the slaughter houses.

#### Tuberculosis.

Before concluding this report we desire to call attention to the fact that, taking the cities and towns in this District having a population of over 10,000 for the five year period of 1909-1913, the death rate from tuberculosis is one and onehalf times as great as from all other communicable diseases combined; yet (so far) there has not been arranged any practicable or efficient method of dealing with this disease so as to effectually prevent its spread. The Public Health Act makes efficient provision for the care of smallpox, yet it is by no means as fatal as tuberculosis, for during the above period there has not been a single death from it recorded, while from tuberculosis there have been no less than 260 deaths registered in these municipalities. The above period has been taken, as it is the last available, and these particular municipalities because they have the highest death rate from other communicable diseases. We would respectfully urge the necessity for such action as would enable us to more efficiently deal with this our greatest problem in Public Health work, as at present it would seem we are at best merely marking time; of course in using smallpox as an illustration it is not to be inferred that a similar method of dealing with tuberculosis is suggested.

All of which is respectfully submitted.

#### DISTRICT NO. 3.

Comprising Norfolk, Haldimand, Welland, Lincoln, Wentworth, Brant, Halton, Peel, York.

#### D. A. McClenahan, M.D.

District Officer of Health, Hamilton.

During January of 1914 there was a mild epidemic of diphtheria in Burlington. There had been six or eight cases and they were cropping up here and there, and the M. O. H., Dr. Speers, had difficulty in locating the cause of the outbreak. At my suggestion he took swabs from the throats of all the school children and we found six carriers in the school. These were isolated and kept so until the throats showed two negatives. No subsequent cases developed. During the same month (January) I spent considerable time in the City of Brantford, making a sanitary survey of that place. My report, with recommendations, is already in the hands of the Department. We had some five or six cases of smallpox at or near Caledonia, but the epidemic was well handled by the local Board of Health and did not spread to any extent. We also had one case at Allanburg, but this, by prompt isolation. together with vaccination of the contacts, was confined to one household. There were, in addition, a few cases of smallpox in the Township of Lancaster, but happily no serious outbreak. During the spring and early summer I have made visits to a number of towns and villages, and while there have taken up public health matters with the councils and Boards of Health, looking towards the betterment of conditions under which the people live. Among these places were Mimico, Stoney Creek, Thorold, Milton, Stouffville, Merritton, Caledonia, Streetsville, Jordan, Brampton, Mount Hamilton, Oakville, Port Colborne, Burlington, Humber Bay, Weston and other places. Since August I have been engaged on Military duty on the Welland Canal, being Sanitary Officer for the forces guarding the Canal from Port Dalhousie to Port Colborne, and also for the Posts at Queenston, Chippawa and Fort Erie. While doing this work I have spent all the time I could afford around the District. and last week visited Jordan Station and Port Dalhousie.

#### DISTRICT NO. 4.

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

## GEORGE CLINTON, M.D.

District Officer of Health, Belleville.

Detailed reports of all places and institutions visited have been sent to the Department at regular intervals.

During the month of January I met and addressed the County Councils of Peterborough, Victoria, Ontario, Northumberland, Durham and Hastings. In June I addressed those of Prince Edward and Simcoe Counties.

Becoming acquainted with the heads of the various municipalities, I find aids in getting their co-operation in our work.

#### PUBLIC INSTITUTIONS INSPECTED.

The number of gaols visited were seven, being at Picton, Belleville, Peterborough, Cobourg, Lindsay, Whitby and Barrie.

The Hospital for Insane at Whitby was inspected, also the Home for Feeble Minded at Orillia. I found in the latter institution that no definite steps had been taken for proper disposal of sewage.

The Hospital for Insane at Penetanguishene was visited. Septic tanks have been built and sub-soil form of drainage installed.

## Hospitals.

Inspection was made of three hospitals in the city of Peterborough and one in each of the following centres: Belleville, Cobourg, Port Hope, Lindsay, Barrie, Penetang, Orillia, Collingwood, Allandale and Bowmanville.

#### Sanatoria.

Two sanatoria at Gravenhurst were inspected.

#### Shelters.

Visits were paid to the Children's Shelters at Belleville and Peterborough.

## Houses of Refuge.

Inspection was made of the Houses of Refuge at Picton, Belleville, Lakefield, Cobourg, Lindsay, Whitby and Beeton.

I find that any indigent resident for two years in the counties is eligible for admission to any such institution. The only thing that prevents admission is that he is suffering from tuberculosis or cancer. The physician in charge has no discretionary power when the warrant of admission is signed by the Reeve and Warden of the County.

Each county should be compelled to care for tubercular and cancer cases in an adjoining building under the same management.

#### Health Exhibit.

During the months of April, May and June the following places were visited with the Health Exhibit and moving pictures:

Deseronto, Madoc, Trenton, Picton, Belleville, Campbellford, Peterborough, Port Hope, Cobourg, Bowmanville, Oshawa, Whitby, Tottenham, Alliston, Creemore, Collingwood, Stayner, Barrie, Orillia, Midland, Lindsay, Bobcaygeon and Uxbridge.

At these exhibits there was an attendance of over 10,000 children and 6,000 adults. These exhibits were well received.

# Medical Inspection of Schools.

After the limited experience I have had as Medical Inspector of Schools, it seems to me deplorable that so little attention is being paid to our school children's health, when one considers the amount that is being spent to import thoroughbred animals. Surely the health of the children should have more attention, and

personally I think it should be under the control of the Provincial Board of Health.

The last week in April I visited Orillia and surrounding country with Miss Jean Cameron Smith, making medical inspection of school children. Examined 550 children, and some defect was found in 80 per cent.

#### Summer Resorts.

During parts of July and August, accompanied by Dr. Bell, I visited all the summer resorts on Kawartha Lakes, Lake of Bays, Fairy Lake, Mary Lake, Peninsular Lake, Sparrow Lake, in all about 125 places.

All had fulfilled the requirements regarding sewage disposal, water supply, care of garbage, and screening windows, with the exception of three places, which were notified that unless required changes were made the places would be closed for 1915.

On three of the passenger boats on Muskoka Lake they have tanks for sewage which is sterilized by steam before discharging into the Lake. The balance of the fleet to be supplied with similar tanks for season of 1915. I understand that this is the first place in America where the problem of sewage disposal for steam boats is as complete as this system. All supply boats were notified that they would be required to have either chemical or dry earth closets.

All the hotels that had waterworks had septic tanks and sub-soil drainage. Others had dry earth closets. No closets were discharging direct into the Lakes.

## Slaughter Houses.

Many have been inspected, and very few are found to be up to the requirements. A number had to be condemned. Now that we have new regulations, and a copy given to each butcher, our work along this line should be easier, more especially if we can secure an active local Sanitary Inspector.

#### Ccarlet Fever.

On January 8th made a special trip to Bethany to investigate a report of carelessness in looking after an epidemic of scarlet fever. On reaching there I found Mr. Preston, M.P.P., was Secretary of Local Board of Health, and Dr. Clarke, of Pontypool, Medical Officer of Health.

Everything had been done to stamp out the disease, and the complainant acknowledged his report was only from rumors.

#### Smallpox.

There have been three outbreaks of smallpox, viz.: Belleville, Bowmanville, and Madoc and surrounding Township. No deaths.

On February 16th I was called to Bowmanville, where I found a severe case of smallpox. Whole body, face, palms of hands, and soles of the feet covered with well developed pustules. Ten young men who were roomers were quarantined for fourteen days and vaccinated. None contracted the disease, but the daughter who attended her mother (the patient) contracted it, and also was a severe case. (Was vaccinated but did not take.)

On March 2nd saw a case of smallpox with Dr. Yeomans, Medical Officer of Health, Belleville. This was a student in the Ontario Business College. Second day saw another case. The college has about 150 students living in different board-

ing-houses. I advised the Local Board of Health to visit the College and explain to the students the true situation, vaccinate all and continue their studies. Less danger in class-room than on the street. None to be allowed to leave the City under penalty, and all that did not report daily were to be visited by the Medical Officer of Health. Results—only one more case, and that was a junior teacher.

On March 4th again visited Bowmanville, and found a young man in papular stage, an employee in rubber factory, and the daughter of former patient mentioned had the disease in pustular stage. Visited the factory, and instructed them to

have all the employees vaccinated, about 300, which they agreed to do.

These two cases were isolated and quarantined.

On March 23rd, I was again called to Bowmanville, where I found the Matron of the Goodyear Club House had a mild attack. This case was isolated. Manager agreed to furnish a trained nurse, have all vaccinated that had not been previously done, and to report to the Medical Officer of Health each morning each absentee from factory, and pay him for work done.

Results—only one more case developed. The factory was not closed, and the

disease soon stamped out.

From the results of this epidemic in Belleville Ontario Business College and Bowmanville Rubber Company, I think it inadvisable to close factories, schools, etc., in urban places, losing all control of pupils and employees. Rural districts are different because they are more isolated. I would suggest that all absent pupils and employees should be reported daily during any epidemic, and then the Sanitary Inspector, or better, District Nurse could investigate cause of absence, and in the majority of cases stop an epidemic in its incipient stage.

In Madoc the High School was closed (contrary to the advice of the Medical Officer of Health) when some pupils and one teacher developed smallpox, and the pupils were allowed to go home. Result, had several cases in all adjoining muni-

cipalities. In July saw six cases in Trenton quarantined.

# Diphtheria.

In October an outbreak of diphtheria occurred in Peterborough. Supposed to have originated in an adjoining township, and not reported. Then it appeared in Separate school.

When found, School and District nurses were appointed, and Dr. McPherson was alert. Nevertheless about 80 cases developed before it was stamped out.

A number of cases also in Penetanguishene, Midland and surrounding country. In all those places the Medical Officers of Health were active, and did everything possible to eradicate the disease.

All of which is respectfully submitted.

#### DISTRICT NO. 5.

District No. 5 comprising the Counties of Addington, Carleton, Dundas, Frontenac, Glengarry, Grenville, Lanark, Leeds, Lennox, Prescott, Renfrew, Russell and Stormont.

## PAUL J. MOLONEY, M.D.

District Officer of Health, Cornwall.

The following is a résumé of the work performed in District No. 5 by me under the supervision of and by the direction of the Provincial Board of Health.

The work may be classified under the headings of: (a) Public Lectures, (b) Inspection of Public Institutions, (c) Sanitary Survey of cities, towns, villages and rural Municipalities, (d) Investigation of special conditions and correspondence with matters relating to public health.

#### PUBLIC LECTURES.

These were delivered at the County Council meetings, teachers' conventions and associations connected with social work, but particularly in connection with the Public Health Exhibit which is specially referred to under a separate heading. The lectures dwelt chiefly on the provisions of the Public Health Act; our duties and obligations as District Health Officers; the work the Government had undertaken to eradicate tuberculosis, typhoid and other communicable diseases; and as a public health measure to see that citizens were supplied with as pure a water supply as possible; the duties and obligations of local boards of health and general topics with reference to the public health.

Public Health Exhibit.—The Public Health Exhibit of the Provincial Board of Health was placed under my charge on February 26th, and during the succeeding weeks meetings were held in all the principal towns in Eastern Ontario. endeavor was made to have the coming of the exhibit well advertised. The Municipal Council and more particularly the local Board of Health were urged to take an active interest in the success of the meetings in their particular locality. The cooperation of the school boards and teachers was also sought. If there were any active ladies' organizations at the advertised place it generally proved fortunate, as they helped materially in making the meetings a success. In a great number of instances influential residents who were not attached to any of the official bodies were asked, and readily gave their assistance in promoting the objects of the meetings. Besides my own lecture in each case an endeavor was made to have a local speaker also take part, and at times some sanitary authority who might be available also gave an address. An effort was put forth to make the meetings as interesting as possible. Vocal and instrumental selections were generally supplied by local talent and choruses by the children at their special meetings.

Owing to the fact that the meetings were generally well patronized, and that the halls available were not large enough to accommodate all at one meeting, two, and in some cases three and four meetings were held in the same day.

#### GENERAL RESULTS. -

As an educator I think that the exhibit will show the most profitable result of any of our efforts. The audience, being secured by proper advertising and by the reputation the exhibit had already earned, was generally very large. The moving

pictures in themselves taught a lesson, more especially so when the lesson desired to be conveyed was emphasized by the lecturer. The audience being in a receptive mood, the lecturer had a splendid opportunity for securing effective results. The mere matter of bringing together the leading men of the municipality to discuss public health matters had a good effect, and after every lecture an additional interest in public health matters seems to have been engendered in each town. This interest would appear to be permanent judging from the amount of correspondence coming in from the different towns and villages in which meetings were held. I would strongly recommend that the exhibit be again sent, at a future time, to this part of the Province. The following meetings on the dates and with the attendance mentioned were held:

Date.	Place.	Number of Meetings.	Attendance.
26th February 2nd March 3rd 4th 5th 6th 11th 13th 16th 17th 18th 19th 20th 23rd 25th 27th 30th 4th May	Napance Kingston Gananoque Brockville Morrisburg Cornwall Smith's Falls Perth Carleton Place Almonte Arnprior Renfrew Eganville Pembroke Hawkesbury Rockland Prescott Ottawa	3 2 2 2 3 2 2 2 2 2 2 2 2 3 2 6	1,100 1,200 1,100 1,200 900 1,500 900 1,400 1,200 1,400 1,300 1,100 650 1,100 1,500 6,000

#### Inspection of Public Institutions.

This included an inspection of the two asylums (Brockville and Rockwood), hospitals, houses of refuge, old people's homes, orphanages, county gaols, and also the schools in the large centres.

## SANITARY SURVEY OF MUNICIPALITIES.

This consisted of a systematic examination and report on the sanitary conditions of the municipalities visited. The number of municipalities visited and inspected this year was much less than in previous years, as after the first week in August I was assigned by the Military Authorities to special work in connection with the St. Lawrence River Canal Patrols and the securing and examination of recruits for Overseas service. Detailed reports of the results of my inspections of the different municipalities visited are on file with the Department.

#### INVESTIGATION OF SPECIAL CONDITIONS.

Under this heading might be placed:

(a) Investigation and action taken with regard to the outbreaks of communicable diseases.

Smallpox Outbreak.—Smallpox has been somewhat prevalent in the eastern part of my district. The outbreaks, however, have been very mild, and for this reason, perhaps, harder to control. A good deal of aversion to vaccination has been apparent in this district, more particularly among the French-Canadians. Some of the influential papers circulating in this district are opposed in principle to vaccination, and this, no doubt, had much to do with the feeling which is prevalent. Very few of the outbreaks got beyond the initial house in which it first appeared.

The following is a list of the outbreaks with the number of cases:

Place.	No. of Cases.	Place.	No. of Cases.
Clarence. Alfred Hawkesbury Rockland. Ottawa	5	W. Hawkesbury Vankleek Hill Nepean McNab Charlottenburg	1 3

Scarlet Fever has been endemic in several parts of this district during the year, and the efforts of the local health authorities and myself in stamping it out have met with only indifferent success. The most stubborn outbreaks centred around Cornwall, Prescott and Athens. In all cases, however, it was effectively got under control.

Typhoid Fever.—No very severe outbreaks of typhoid have occurred in the district, most of the cases being sporadic, except when at the close of the year an epidemic appeared in the Town of Brockville, which during the next succeeding months assumed very serious proportions. The general public has been educated by means of public lectures and articles in the Press to guard their municipal water supplies with varying success.

Tuberculosis.—Much educational work has been done in this district with regard to this disease, and I think there can be no doubt that this disease is now being controlled in a fairly satisfactory manner. The sanatorium at Kingston and those at Ottawa are doing good work.

#### INVESTIGATION OF NUISANCES.

These matters form a large part of the daily mail. The complaints vary in importance from an infected water supply down to the most trifling matters. A great number of complaints have reference to slaughter-houses. Those in the immediate vicinity of the City of Ottawa being the chief offenders, although those near Hawkesbury are very little better. Piggeries, especially the Brockville Municipal Piggery, is another source frequently complained of. A dead horse on the roadside, a neighbor's unsanitary backyard, and scores of other complaints have been received and dealt with: a great majority by letter to the local health officer (previously often not informed of the nuisance), but who in practically every case when notified by me saw that it was abated.

#### WATER SUPPLIES.

A more or less thorough examination of the water supply of all towns using the St. Lawrence River as a source of supply has been made, and the whole river seems to be contaminated. I failed to find any samples free from colon baccili in 50 e.c., while infection in 5 c.e. was exceedingly common. The Ottawa River also was subjected to considerable analysis; while it was found largely infected, it was not as bad as I expected it to be, except in certain localities where there was a strong source of local infection the pollution seemed to be about the same as in the St. Lawrence.

In connection with the water and other bacteriological analyses, I wish to recognize the courtesy and promptness shown by Dr. Connell of the Kingston Laboratory. Many of our local officers also availed themselves of the courtesy of the Bacteriologist of the City of Ottawa, and also of the Ottawa Experimental Farm.

#### CORRESPONDENCE.

An important part of my work is carried on by means of correspondence, which has now reached large proportions. Since last August I have not been able to visit the different localities as formerly owing to my military duties, but I have been able to attend to the more pressing calls. I have been able, however, to attend to all my correspondence, although not as regularly as heretofore, and in this way have been able to accomplish a good deal in the interest of public health.

#### MILITARY SERVICE.

I have been connected with the Militia, both as a regimental and staff officer, for the past fifteen years. On the outbreak of the war I tendered my services to the Government, and I was directed to take charge of the patrol lines of the St. Lawrence Canal and I have been attached here ever since. We have in patrol about 300 men, consisting partly of infantry and partly of mounted troops. Besides being medical attendant to the troops and their families, I have charge of the sanitation of the patrol lines. I have had to deal with outbreaks of diphtheria, scarlet fever, smallpox and mumps among the troops, but owing to the military discipline which prevailed it was easy to stamp out every outbreak without its spreading among the men. I have been able to do considerable missionary work in sanitation by object lessons of cleanliness among the troops. I am also preparing a table for the Department showing the effects of smallpox vaccination on a definite number of men; the percentage of failures in the unvaccinated and the percentage of failures in those who have been previously vaccinated at different Also the result of typhoid inoculation. This district also gave a surprising number of men for first, second and third contingents, who were sent forward, subject to my examination.

#### DISTRICT No. 6.

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

## W. EGERTON GEORGE, M.D.

## District Officer of Health, North Bay.

The second annual report of Health District No. 6 from the 1st of January, 1914, to the 31st of December, 1914, inclusive.

This has been a very encouraging year in this district, and I am able to report progress in many lines.

It must, however, be pointed out at the beginning that the figures given in this report are not absolutely correct. The chief factor in influencing these totals has been the absence on military duty during the latter part of the year of Dr. R. E. Wodehouse, of Port Arthur, officer of Health District No. 7. This necessitated my making three trips into his territory to encourage and enforce efficient means for the control of smallpox at Fort Frances and typhoid at Little Current (two trips).

I travelled 25,790 miles during the year, which incurred an expense of \$743.45. One hundred and fifty-two official visits were made and over four hundred written notices were served. These visits were distributed as follows:

12 Visits—Sudbury.

- 11 " —Haileybury, Cobalt.
  - 9 "—South Porcupine.
  - 8 " —Cochrane, Timmins.
  - 7 " —North Cobalt. 6 " —Parry Sound.
  - 6 "—Parry Sound.
    5 "—New Liskeard, Iroquois Falls, Swastika.
  - 4 "—Schumacher, Sturgeon Falls, Englehart, Webbwood.
  - 3 " Callander, Dome Mines, Kearney, Conniston, Scotia.
  - 2 " —Matheson. Sandy Falls, Magnetewan, Ahmic Harbor, Sprucedale, Copper Cliff, Elk Lake, Depot Harbor.
  - 1 "—Pickerel, Spanish, Bruce Mines, Sault Ste. Marie, Bovin's Camp, Wawaiatin. Bennett House, Deer Lake, Milberta, Bourkes, Hailey Twp., Nushka, Sundridge, Sprucedale, South River. Port Arthur, Fort William, Rainy River, Chapleau.

I regret that death returns are so imperfectly sent in by the secretaries of local boards in their weekly reports that it is impossible to strike a rate that would in any way accurately represent the facts.

The amount of correspondence has greatly increased during the year. Health officers and local boards have been quick to avail themselves of an officer who is not hampered by local business connection. Indeed, in some cases it has been quite difficult to get local boards to do a reasonable amount of their own work and assume a reasonable amount of their own responsibility.

Between seventy and eighty cases were prosecuted in police-court and a considerable sum collected in fines. One or two of these cases were appealed to the Division Court and judgments of magistrates set aside. The argument for

dismissing the cases was most instructive and threw considerable light on the Public Health Act. It happened that the informations were laid under Schedule B. The judge held that as Schedule B was a by-law in force in every municipality, it was under municipal jurisdiction only: that is, it is outside the jurisdiction of provincial officers. I brought this matter to the attention of the Provincial Board at the joint meeting of the Board with the district officers in December, and they agreed to have Schedule B made a regulation of the Provincial Board.

#### FOREIGN BOARDING HOUSES.

Cobalt takes the plum for having provided the most disgraceful over-crowding conditions during the past year, and forty prosecutions were instituted in this town alone against a similar number of boarding-house proprietors. It was asserted in some quarters that the responsibility for these bad conditions rested upon me. But when it was pointed out that this over-crowding had been corrected the previous spring by a number of police court cases, it became apparent that local Boards of Health and not provincial officers must be held responsible for the maintenance and supervision of correct local conditions after once having been put right. However, it became necessary to enforce a second time compliance on the part of the boarding-house keepers by a restriction of the numbers in their houses; so the machinery of the police court was again resorted to in such wholesale manner as to leave no doubt in any one's mind that a reasonable amount of air-space must be provided for each inmate. One or two interesting points came out in the proceedings which, I think, are worthy of mention. Evidence was not wanting to show that these places soon became as bad as ever after the first correction, and that the moral standard of the keepers was not very high. Many of these places had double beds where there was only room for one inmate. It was found that the extra bed accommodation in many of these places was so great a temptation to the proprietor that he could not resist filling them up when he thought that he could safely do so. In fact this circumstance was so generally found that it became apparent to me that the extra bed accommodation was really acting as a cause of the over-crowding. I pointed this out to the magistrate, who took the same view, with the result that all bed accommodation which was provided in excess of the amount of air-space in each room was ordered out. It is now being made possible for the Medical Officer of Health to order the removal of extra beds when in his judgment more accommodation is provided than corresponds with the air-space.

Cochrane, Sudbury and North Bay also present problems with regard to foreign boarding-houses. During the latter part of the year when so many people were out of work, especially in localities where there were large numbers of Austrian-Poles, the possibility of obtaining employment was removed almost to the vanishing point. Comparatively few of them had any money. Many people of the same nationality, therefore, gathered into houses with inadequate air-space, pooled their finances, and in this way sought to keep the wolf from the door until spring. Under these circumstances it was impossible to enforce the regulations regarding air-space. To drive them out of these dens meant that they would become a charge on the respective communities which were already over-taxed. For these reasons cleanliness was about the only sanitary measure required of them, but with very indifferent results.

#### COMMUNICABLE DISEASES.

During the year there were reported in this district 83 cases of typhoid, 67 of scarlet fever, 49 of diphtheria, 15 of measles, 8 of tuberculosis, 7 of smallpox, 2 of German measles, and 1 of cerebro spinal meningitis. A casual survey of these figures would suggest to one's mind that all cases of communicable diseases were not reported. For example, it would appear that there must have been more than 15 cases of measles. This discrepancy is due on the one hand to neglect on the part of the physicians to report cases, and on the other to neglect on the part of the Secretaries of Local Boards to make returns. In Cobalt, Haileybury, Parry Sound, and Sudbury it was necessary to notify physicians that they would be held responsible for the non-reporting of all cases; while in Cobalt and New Liskeard not one return was sent in by the Secretaries of the respective local boards during the whole year. Distasteful as it is, it would seem almost imperative to take some strong action to force physicians to report their cases, unless the same result can be attained by paying physicians, say 25c., for each case reported.

The following epidemics received personal attention within the year:

Typhoid: Iroquois Falls, Pickerel, Sudbury, Timmins and Haileybury. Also Little Current in District No. 7.

Smallpox: Schumacher, Burk's Falls and Cobalt. Also Fort Frances in District No. 7.

Scarlet Fever: Powassan, Hailey Twp., Parry Sound.

Measles: Timagami.

Diphtheria: Parry Sound. Pediculosis: Parry Sound.

Of the number of typhoid epidemics quoted above, all were due to polluted water supplies. This seems to suggest that towns should be warned that the pollution of public waters cannot longer be viewed complacently. Regarding the cause of the Haileybury outbreak it appeared to me that there was nothing wrong with the filter plant in use at that place. The water was very low, due to the dam going out last spring at the lower end of the lake. This caused such a concentration of harmful bacteria coming from the septic-tanks of both New Liskeard and Haileybury, some also from surface drains, that the filter plant working 99 per cent. proof was not sufficient protection, there being still enough germs going through to produce many cases of typhoid. After going over the plant with Dr. Amyot they were advised to put their chlorination plant into operation. Even with this precaution a number of new cases developed. The dam has been repaired at the lower end of the lake and the lake level is now several feet above datum, so that if our observations have been correct there ought to be a distinct falling off in the cases.

In Timmins the prevalence of diarrhea during the past summer caused me to advise them to protect themselves from typhoid by installing a chlorination plant. They were not easily convinced that their water supply was at fault. No plant was installed, with the result that thirty cases of typhoid subsequently developed.

I have been greatly impressed with the difficulties in the way of providing perfect isolation with regard to diphtheria, searlet fever and measles, as set out

in Regulation 4. As soon as the patient is well enough to be out of bed isolation ceases. I have never yet seen a case where the patient was so completely isolated that I was convinced that there was no danger of transmission. It seems to me doubtful whether the Medical Officer of Health should have discretionary powers with regard to isolation, which is so seldom perfect.

The persistent use of roller towels and the common drinking-cup in hotels and railroad coaches demands a strict ruling by the Provincial Board against these nuisances, which are well known to be such fruitful causes of the transmission of disease.

#### WATER SUPPLIES.

A very few remarks regarding water supplies will cover what has not already been referred to.

Cochrane gets its water supply from Spring Lake, which is separated from Mill Lake by a high ridge. The sewerage of the town empties into Mill Lake. Bacteria of intestinal origin have continually been found in Spring Lake (their water supply) throughout the year, and the chlorine content has been steadily rising. This would seem to suggest that there is some underground connection between the two lakes, as it is almost impossible for surface drainage from the town to reach this lake. The town has dammed off the outlet of the springs and is using spring water entirely. In case of fire, water from the lake is required to meet the demands. Thus a menace arises in consequence. The anticipated typhoid has not yet appeared.

In the early winter of 1912-1913 I tried to impress Sudbury with the fact that they are endangering their water supply by permitting it to be used as a summer resort. They claimed to have the best water in Canada, and for this reason ignored the warning to buy all vacant land about the lake in order to protect it from this danger. The result is that they have had between forty and fifty cases of typhoid this year.

#### SEWERAGE AND DRAINAGE.

Only one new sewer system was installed in this district during the past year. This one is located in Englehart. The disposal system approved in the plans submitted to the Provincial Board has not been installed, yet the sewers are being used. It is to be hoped that the disposal system will be completed during the coming summer.

Webbwood left the completion of their town drain so long that the frost forced the abandonment of the work until spring. The Council of that town was urged by the Chief Officer of Health to hasten the completion of this project before cold weather, but with little effect. I am informed, however, that the town intends to proceed with the matter early in the spring.

Before leaving the subject of sewerage, some mention should be made regarding the condition of closets. North Bay, through the energy of the able Sanitary Inspector, must be given credit for having attained some distinction in this matter. Nearly all closets are now fly-proof and are supplied with galvanized iron receptacles. I am informed that the few yet remaining incomplete will be standardized during the coming summer. Sudbury, Timmins, Haileybury, Parry Sound, Cobalt and New Liskeard require urgent attention in order that these focuses of infection

may be made fly-proof. The first four of these have had epidemics of typhoid within the year which would seem to necessitate immediate action in order that all causes of dissemination be controlled. It is a serious thing when one can go into these towns and find closets located over small streams, or without receptacles, barely acting as screens from public view.

#### SLAUGHTER HOUSES.

All slaughter houses which failed to comply with the new regulations were closed. One only in this whole district was allowed to pass inspection. Six of the new standard (North Cobalt, North Bay, Magnetewan, Elmsdale, Kearney and Burk's Falls) were completed last fall, and others are expected to commence building next spring. Certain butchers have continued to use the old buildings after being notified that these did not meet specifications. I am convinced that one or two examples will be required to remedy this. The Parry Sound butchers have been the worst offenders in this regard.

The new slaughter-house regulations have been well spoken of by many of those who are alive to the advantages of clean meat. This guarantee of cleanliness stands next to the guarantee of inspection.

The question of the farmers selling dressed meats on the markets of a number of Northern towns might be dealt with under this head. These markets are established at Haileybury, Cobalt and Sudbury. The meat is frequently poorly killed, and after appearing on the market is mauled over by many people until it is absolutely unfit for use. The Council in Haileybury were asked to provide tables which would sit well back in the stalls, so that the meat would not run the risk of being handled. This was done immediately, but there were so many farmers that the number of stalls would not go round. Those not provided for continued to have meat exposed to this kind of contact upon open tables. It will be necessary for the Council to provide sufficient stalls or the farmers will have to take their meat home. I think it is a very doubtful question whether farmers should be allowed to sell dressed meat on open market without having to comply with the regulations regarding the slaughtering of the same.

Sudbury market is a very unsatisfactory affair, as there are no stalls, and it is therefore impossible to remove the meat from exposure to handling.

#### DAIRIES AND MILK SUPPLIES.

The dairies in this district have made notable improvement within the year. In North Bay, Timmins and Cobalt this improvement is particularly noticeable with regard to the provision of new modern buildings. In Sudbury and Cobalt, and McDougal's dairy in Haileybury, the dairies are provided with steam sterilizers which guarantee clean bottles. Cobalt has a milk depot where the bottles are sterilized with steam. A large proportion of the town's supply is brought here, bottled, and sent out to the customers. One or two in this town have private plants. J. Lorne McDougal's dairy at Haileybury continues to be the representative of the highest standard of construction and equipment in this district.

It is a matter of some regret that I am not able to report on the standard of cleanliness of the product, as few towns have made it a custom to have all milk brought in for local consumption tested frequently for dirt. The test is such a simple one and the results are so uniformly good that all towns cannot be

too strongly urged to put it into use. In this way the record of each dairy can be conveniently kept and a process of whittling off the worst ones instituted. The advantages to be gained by holding the dairymen strictly to account for dirt in the milk are such as will show a decreased infant mortality, especially during the summer months.

A very evident difference has been noted in the relative cleanliness of the various dairymen. Indeed, there are several cases where milk coming from very inferior cow-byres has been of a more excellent quality, judging from the dirt content, than some from the best stables.

Too many Local Boards are not willing to assume the responsibility of forcing dairies to maintain sanitary conditions and hold them responsible for unclean milk. While I am willing to give such cases all the time that I can spare, yet in such a large territory, where the only health enforcement must be done by Provincial Officers, time has been so scarce that certain towns which have requested assistance in making a clean-up in their dairies have delayed the proceedings indefinitely, awaiting my convenience. The dangers of this indefinite delay are so evident that no comment is necessary.

#### PLUMBING.

This matter requires to be dealt with by new legislation which will embody the latest and most up-to-date pluming requirements. In many places they have no by-law and the plumbing supervision has usually been very inadequate; thus the plumbing has generally become a second-rate article by unscrupulous contractors.

#### SANITARY INSPECTORS.

Sanitary inspectors have been subject to all sorts of unjustifiable pressure by members of councils. This has been a matter of very frequent complaint, so much so that I decided to ask the Provincial Board to make the appointment and tenure secure, subject to the approval of the Local Board. There are many advantages to be gained, a few of which are mentioned below:

1st. The Sanitary Inspector holding his office from year to year is encouraged to improve himself and become acquainted with the Health Acts and by-laws. In this manner he attains greater efficiency.

2nd. A higher type of man is obtained for this office which has frequently been used by the townships to bestow charity.

3rd. Security of tenure permits ends to be caught up from year to year.

4th. The officer is independent of designing councillors.

5th. Members of Boards of Health are as a rule selected because of their interest in health matters, and being responsible for the health administration will naturally be painstaking in securing the best man.

Before I had the opportunity of bringing this subject to the attention of the Provincial Board, Dr. Clinton, District Officer of Health (District No. 4), had urged on the members the necessity of this change from observations made in his territory. The Board, after hearing the argument, decided to make the change.

#### DISTRICT NO. 7.

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

Dr. R. E. Wodehouse, Major Canadian Army Hydrological Corps. On active service. District taken over by Dr. George.

#### REPORT OF PROVINCIAL SANITARY INSPECTOR.

GEORGE E. YOUNG.

NORTH BAY, Ont., July 23rd, 1914.

I beg to submit a report of my work in the lumber, mining and construction camps in unorganized territory for the season of 1913 and 1914, as the lumbering operations in the bush of Northern Ontario practically begin about July 1st, and the operations of 1913 and 1914 are now over.

It has been my practice to secure the signed medical contract, medical reports, sketches of new camps and general information at as early a date as possible. Where I get these and they are satisfactory, I have not visited unless some trouble has arisen, it being impossible to reach all the large number (some of them being almost inaccessible) in one season.

This territory covers an area from east to west of about twelve hundred miles and from north to south of three hundred miles. The number of men employed in lumber camps I have estimated to be 19.563. Of these there are in the Porcupine District, 120, Parry Sound, 2,125, Peterborough, 628, Fort Frances, 1,745, Sault Ste. Marie, 1,750, Webbwood, 900, Port Arthur, 1,316, Thessalon, 2,260, Sudbury, 2,810, New Liskeard, 450, Arnprior, 450, Gowganda, 340, Kenora, 1,971, North Bay, 2,698. This number was housed in 288 camps, averaging 67 men each. This number does not include a few individual concerns which I was unable to enumerate or small camps of from 6 to 10 men near town who were able to reach their homes over Sunday, making possibly 2,000 more. In nearly every case a medical contract covers the jobbers (if any) as well as the concerns; a number of these have sent in their information directly to you, but I have secured during this past lumbering season: medical contracts, 82; medical reports, 86; plans of camps, 114; general information, 79.

I have inspected 78 lumber, mining and construction camps in the Districts of Pembroke, North Bay, Gowganda, Transcontinental Railway, Georgian Bay, Parry Sound, Porcupine, Sault Ste. Marie, Sudbury, Schreiber, Port Arthur and Fort Frances.

The location, construction and ventilation of the new lumber and mining camps have greatly improved within the last two years, pole floors, etc., being now nearly a thing of the past.

With the exception of the camps on the Canada Northern east and west from Oba belonging to Foley, Welsh & Stewart, and J. O. Giroux in the Algonquin Park, the majority of the others were very indifferent.

Some of them were not fit for habitation and had to be vacated, while others had to be entirely remodelled.

Many of the camps or groups of camps are provided with a building that can be used as a hospital and others have tents.

The construction of bunks parallel with walls of building has appreciably remedied the overcrowding and some of the companies are introducing iron bedsteads. As these men are out in the open air all day I have not enforced the full 600 cubic feet per man but have insisted on having ample roof as well as gable ventilation.

The slops, garbage, etc., are usually disposed of in an open pit or cesspool during the winter and covered with earth in the spring when breaking camp.

With the exception of the Georgian Bay district, cases of smallpox and other contagious diseases have been greatly reduced in number and those occurring at points east, south and west contiguous to our neighbors whom I understand have not used strict enough quarantine regulations. I believe the appointment of immigration agents by the Dominion Government at Rainy River, and Fort Frances was the means of stopping a large amount crossing the boundary from Minnesota where I understand it was almost epidemic in places.

On account of the wrong diagnosis of a case at Collins' Inlet thirteen cases developed there, spreading to Beaverston and Bay of Finn. Any others were individual cases that occurred in the camps, showing that the companies and contracting physicians were acting promptly.

Many of the lumber companies establish laundries in the camps, which tend greatly towards cleanliness.

I have laid very few informations this season against lumbermen for non-compliance of the regulations, the small operators being the worst offenders. Taking the past season as a whole, a steady improvement has been made from a sanitary point of view in the lumber and mining camps.

I have to thank the Crown Timber Agents and others for valuable assistance and the invariable courtesy shown me by the different concerns with whom I have come in contact.

While visiting the different districts mentioned in my camp work, attention has also been given to the sanitary condition of the towns and villages. A supply of good water and sewage disposal are the first and most important matters coming before the different municipalities. Indifference has been shown in these matters by many towns at the first, consequently epidemics of disease overtook them, but this is being remedied as quickly as time and finances will permit.

In many towns during the past it has been customary for the police to attend to the scavenger work and disposal of garbage with what little time they may have had to spare from their other work, but I am pleased to inform you that by-laws controlling these matters are being passed and permanent sanitary inspectors appointed.

Making the appointment of local Medical Officers of Health permanent has been a decided improvement, as they are now acting with more force knowing they cannot be removed without cause. Putting the local sanitary inspector on the same footing would, in my opinion, be a further improvement, as a large amount of the work falls on him also.

On account of nearly every municipality having different methods of doing their plumbing and a large number having no inspection whatever, one of the most important branches of sanitation is not receiving the attention it should, and I think a standard by-law should be passed by the Province controlling this

work, also licensing of competent plumbers.

I have been giving this matter attention, especially where large numbers of people congregate, such as in hotels, restaurants, etc., and accompanied by the local Boards of Health we have made several smoke tests. One large hotel in North Bay had sewer gas escaping all over the house, consequently the whole plumbing had to be renovated at a cost of over \$2,000.00, and we closed the house during repairs. Alexander White, Sanitary and Plumbing Inspector, has rendered me great assistance in this work.

The milk supplies for the different towns and villages have been accepted from dairies with stables almost entirely unfit for the purpose. Recently, however, some very excellent milk by-laws have been passed by a number of municipalities, but it will take some time yet either by improvements or elimination

to get the milk up to the required quality.

With the exception of almost five months in the year, the meats used in the North are shipped in dressed, from Ontario points. Formerly it was handled like cordwood, exposed to dust and every dirt, without any covering. This practice has been stopped.

I have closed a number of slaughter houses on account of poor construction,

flies and dirt, the worst ones being in Oba, Gowganda and Sprucedale.

A great many hotels and restaurants had poorly equipped and badly ventilated kitchens. The usual remedy ordered was: concrete floors, screens and roof ventilation with suction fan in pipe.

On account of the partial closing of public works on the different railways, large numbers of foreigners were gathered in the different towns, causing serious overcrowding, but by constant attention I am glad to say this is now considerably relieved.

It is customary for fruit vendors to expose fruits and vegetables outside their premises with little or no protection from dust, etc. This is hard to combat in the police courts as injurious to health without a bacteriological examination.

I have assisted the local Boards of Health in a large number of their prosecutions, having laid very few myself and those mostly in the townships where it was inconvenient to reach the local board. One information which I laid under Schedule "B" was appealed from the decision of the Police Magistrate to a higher court, where the judge ruled that this by-law was no part of the Public Health Act and that I acted without authority, thereby quashing the lower conviction.

All of which is respectfully submitted.

# Reports of Medical Inspector, Dr. R. W. Bell

#### REPORT RE SMALLPOX AT EXETER.

To the Secretary, Provincial Board of Health, Ontario.

SIR,—As directed by you, I proceeded on March 7th to Exeter to advise with Dr. McNally, District Officer of Health, re suspected cases of smallpox in that town. I was informed there that for two or three months past there had been several cases of "rash" in town, all of which had been diagnosed as chickenpox, but about this time Dr. McNally had discovered cases which he regarded as smallpox.

I saw four cases in three families; one of these was just developing, another was fully developed and had the rash out several days, having at least 3,000 or 4,000 pock on him, the other two were in one family and pretty well recovered.

All were undoubtedly smallpox.

There was an apparent inclination on the part of friends to conceal information such as might indicate the severer disease. The local medical men said they believed all cases were the same disease.

The Local Medical Officer of Health and the Board of Health immediately undertook to take all requisite steps to stamp out the disease.

R. W. Bell,
Provincial Inspector of Health.

Toronto, March 10th, 1913.

#### REPORT RE SCHOOL BUILDING AT PORT DOVER.

To the Secretary, Provincial Board of Health, Ontario.

SIR,—Yesterday, April 3rd, I visited Port Dover and, as instructed, looked over the building occupied by the High and Public Schools and have no hesitation

in reporting it in a most unsanitary condition.

It is a very old two-storey brick building with one wall badly bulged, in fact I should fear in a dangerous condition if much pressure against the building from a strong gale, etc. Inside the rooms are heated by gas stoves. There is no proper provision for ventilation. The air was foul in all rooms at the time of my visit (the noon hour) and could only be cleared out by opening the doors and slits in window sash, thus creating strong draughts and chilling the rooms. The walls were very dirty, cracked and plaster off in many places. The floors are much worn and shrunken so there is a large accumulation of disease-carrying dust which cannot be got out by scrubbing, while sweeping will constantly stir it up.

I fear the walls and floors, etc., are so saturated with germ and disease borne

odors and gases that they cannot ever be made sanitary.

I do not see any way of remedying the matter in the building as it is. The whole inside would have to be torn out and renewed, in fact the whole building should be pulled down as it can scarcely be made fit for occupation by children in school rooms nor even for residential purposes.

R. W. Bell,
Provincial Inspector of Health.

#### RE NUISANCES FROM ABATTOIRS IN WEST TORONTO.

To the Secretary, Provincial Board of Health, Ontario.

SIR,—As instructed by you we, on the 25th inst., proceeded to investigate complaints re nuisance from abattoirs situated in West Toronto. The main ground of complaint, we understand, is in regard to foul odors emenating therefrom, and from our investigation we find it to be well founded. Although not continuous, most disgusting, sickening odors escape at frequent intervals, and with the wind are carried long distances.

We visited the abattoirs of the Swift Canadian Co., Gunn's, and Harris, also the surroundings, and so placed ourselves with a south to south-westerly breeze blowing at mid-day as to be certain where the odors came from, and assured ourselves they were all at fault. The worst odors apparently arise from tanks wherein the offal, etc., is converted into fertilizer, and the fats removed. Efforts are made to hold the escaping gases in solution, and carry them to the sewers; but as some of them are not condensible, they escape and cause the nuisance complained of.

The Swift Co. have installed a pipe to carry these to the furnaces, but evidently do not accomplish all necessary, as apparently some pass up the smoke stack and are carried to great distances. Other foul odors we found escaping from doors and windows.

The Harris Co. force the non-condensible gases from the tanks into the sewers, and these, finding their way into the man-holes or gratings, escape and pollute the atmosphere.

The manure fresh from the offal, we found in all cases being discharged through pipes directly into open railway cars or carts, and was most offensive.

Cement floors have been laid in Swift's and Harris', and in the latter premises the odors were not so bad, as it is a new plant, only in use about three weeks.

In Gunns' the floors are of wood, saturated with blood and filth, and are certainly impossible to clean properly. At the present time about 5,000 head of cattle are being slaughtered weekly in these abattoirs, besides hogs, sheep, etc., so the quantity of manure and offal to be disposed of is enormous. It is quite evident all is not being done that is necessary to abate the nuisance.

Officials and other employees working on the premises seemingly become accustomed to the offensive odors and do not realize how disgusting they are to others living within reach of them, rendering life almost unendurable.

R. W. Bell, Provincial Inspector of Health.

D. A. McClenahan, M.D., District Inspector of Health.

November 28th, 1913.

#### RE PROPOSED ROMAN CATHOLIC CEMETERY AT DIXIE.

To the Secretary, Provincial Board of Health, Ontario.

SIR,—Application having been made to the Provincial Board of Health by the Roman Catholic Episcopal Corporation for the Diocese of Toronto, for the approval of the location of a proposed cemetery on the south-easterly five acres of the northerly 150 acres of lot number 11, in the first concession north of Dundas

Street in the Township of Toronto, County of Peel. I visited the proposed site on December 2nd, inst., accompanied by Mr. Chas. H. Gill, Secretary of the local Board of Health.

Objection, I understand, has been made by residents in the near neighborhood because of residential district; because undesirable to have the location adjoining a public road, possible depreciation in value of nearby property, and increasing unsanitary condition.

The locality can scarcely be designated as residential as the nearest house, (now building), is distant 125 yards, and only four or five residents within 500 or 600 yards. The second and third objections may have an element of truth in them, but I do not suppose they come under my purview, although I may here state that an old established cemetery already exists a few hundred yards distant, in a much more public place on the corner of Dundas Street and this same concession line. With the fourth I cannot agree as I do not see any likelihood of causing unsanitary conditions, the soil and nature of the ground being almost ideal; and as this is the only point of view with which I have particularly to deal I cannot see that there is any valid objection to its establishment to be embodied in this report.

R. W. Bell, Provincial Inspector of Health.

December 6th, 1913.

Note.—The above reports were inadvertently omitted from the Annual Report of 1913.

#### REPORT RE SUMMER RESORTS.

GENTLEMEN:—By direction of your Secretary, I made an inspection of a great number of our Summer Resorts during the months of July and August. As all these were in District No. 4, I was accompanied by your District Officer of Health, Dr. Clinton, under whose supervision these will come more directly for the future. He has already dealt with most of those on the Kawartha Lakes during the past year or two, but most of the others were knew to him, and as I have had them under supervision for eight or nine years it was expedient that I should go carefully over them with him and indicate what had been accomplished and confer as to what should be done to still further improve their sanitary surroundings. The conditions to-day as compared with a few years ago are very much improved and with a few isolated exceptions all are in a fairly good sanitary condition. It has taken, however, a lot of advising and occasional threatening to bring about these improvements. The season is short, two months, or a little more—and many of the proprietors think it is unnecessary to make the provisions we require for this short period. Little can be accomplished during the season as all are so busy, but I nearly always met with fair promises for the next season, only to find that they were frequently forgotten or broken on my next visit. However, several years have brought about a great change for the better. During our inspection we did not visit private cottages, as a rule, unless there were specific complaints in regard to them, but all hotels and boarding-houses on the lakes, so far as we could get a

list of them, were inspected. In all we visited 122 places—116 being hotels and boarding-houses and 6 private cottages, as follows:

Muskoka Lakes Lake of Bays, etc. Sparrow Lake Kawartha Lakes	56 33 15 3	Private Cottages.  1 2 1 0
Georgian Bay	9	2
	116	6

A list of the resorts visited may be of use for future reference and is herewith given in detail according to location:

#### MUSKOKA LAKES DISTRICT.

LAKE MUSKOKA:
Beaumaris.
Roseneath.
Milford Bay.
Cedar Wild.
Hutton House.
Scarcliffe.
Rossclair.
Wingberry House (closed).
American House.
Acton Island Farm.
Dudley House.
New Windsor (Bala).
Swastika (Bala).
Bala Park House—14.

Indian River:
Endiang.
Havington Farm.
Beverley Lodge.
Port Carling House.
Algonquin.
Oakcrest—6.

LAKE ROSSEAU:
Nepahwin.
Gregory.
Woodington.
Clevelands.
Cheltonia.
Paignton House.
Thorel House.
Morinus.
The Bluffs.

Royal Muskoka. Earnscliffe. Clement House.

LAKE ROSSEAU.—Con.
Maplehurst.
Rossmoyn.
Monteith (Rosseau).
Rosstrevor.
King's Park.
Waskada.
Maple Leaf.
Windermere.
Fife House.
Ingleside—22.

Joseph River: Clover Hill Farm—1.

LAKE JOSEPH:

Prospect House,
Pinelands.
Belmont.
Elgin House.
Hamill's Point.
Staney Brae.
Barnsdale.
Gordon Bay.
Dixon House (Closed).
Summit House.
Stanley House.
Cragie Lea (Closed).
Carlingford—13.

#### LAKE OF BAYS DISTRICT.

MARY LAKE:
The Grunwald.
Belleview.
The Balsams.
Lakenweld.
Lakeview.
Clyffe House—6.

FAIRY LAKE:
Fairyport Inn.
Hollingshead.
Haverland.
Grandview—4.

PENINSULAR LAKE: Deerhurst—1.

Lake of Bays:
Gouldie House.
Dwight House.
Pine Grove Inn.
Nor'lock Lodge.
Britannia.
Point Ideal.
Port Cunnington.
Island View.
The Hemlocks.
Ronville.

#### LAKE OF BAYS DISTRICT .- Continued.

LAKE OF BAYS.—Continued.
The Narrows (Dorset).
Gonoseyo.
Bay View Farm.
The Maples.
Garryowen.
Wawa.

Glenmount.
Grandview.
Point Pleasant.
Langton House.
Idlewyld.
White House—22.

#### GEORGIAN BAY.

The Penetanguishene.
Minnecognoshene.
The Royal (Honey Harbor).
Victoria (Honey Harbor).
Pleasant Point.

Cottage Resort.
Wyn-Sea-Ona.
Beuna Vista.
Tuttipom Pom—9.

#### SPARROW LAKE.

Lake Shore House.
Sparrow Cottage.
Stanton House.
Massey Camp.
Roehls.
Vanomi Point.
Mount Royal.
Franklin House.

Del Monte.
Wiancko.
Uneeda Rest.
Wenona.
Lakeview.
Idlewyld.
Peningular Farm—15.

#### KAWARTHA LAKES.

Buckhorn. The Windsor. Oak Orchard-3.

Water Supply.

All use lake water for cooking and washing, etc., but for drinking many have spring and well water as follows:

		Lake Water Only.
Muskoka Lakes	20	36
Lake of Bays District	31	2
Sparrow Lake	9	6
Kawartha Lakes	2	1
Georgian Bay	0	9
	62	54

#### Disposal of Sewage, Garbage, etc.

There has been a great improvement here in recent years. Where seven or eight years ago the usual closet accommodation was of the outside pit variety, to-day there are a large number of flush closets inside—some outside—with septic tanks and subsoil drainage wherever sufficient or suitable soil is obtainable—particularly on the Muskoka Lakes. Eight or nine years ago there were not more than five or six with subsoil disposal, now there are thirty-two. A few cesspools are in use where subsoil drainage is not available, but we satisfied ourselves that these were safe. Dry earth closets are also in use in several places and are strongly advised where a proper flush system cannot be had. I regret to say we still found thirty-five places provided with the pit closet only, out of the 116 places visited. A number of those with flush closets had also a pit closet outside for the hired help. All these pits we condemned and ordered abolished, the dry earth, box or bucket system to be substituted where flush not available. Scarcely any closets were screened or fly proof. I may say that in two instances we found chemical closets in use and giving fair satisfaction. In no instance did we find any likelihood of the water supply being polluted from this source.

The following table will show the locations, etc.:—

	Septic Tanks		Dry Earth	
	and		or	
	Subsoil Drainage	Cesspools	Chemical	Pits
Muskoka Lake	. 32	7	6	11
Lake of Bays, etc	. 7	6	4	16
Sparrow Lake	. 5	3	3	4
Kawartha Lake		1		2
Georgian Bay	. 4		2	3
	48	17	15	36

#### Laundries.

In the great majority of cases we found the laundries in separate buildings in rear of the premises, occasionally the work done in the kitchen or back verandah and all water scattered over the ground, but in a few instances the work was done on the lake shore with building partly over the water and waste emptied into it. All these conditions we ordered to be remedied before next season. One glaring instance was where the laundry slop was reaching the lake within about 60 ft. of the intake of one of the largest hotels on the lakes. This condition I have been trying to get the proprietor to remedy for three years, but whether from stubbornness or negligence he has failed to comply so that he was notified that if not changed so as to avoid pollution of the water by the opening of next season his place will be condemned and he will be prosecuted.

#### Garbage.

In nearly all cases we found the kitchen garbage either fed to animals, buried or burned, but there was lack of care in keeping it screened or covered from flies until removed. In all cases protection was ordered.

In very few instances were the kitchen windows found screened, while frequently the exposed garbage was close by, as also non fly proof closets, and manure piles of not distant stables. Closets which are not fly proof and manure piles should not be tolerated near the kitchens, that is to say, within 75 yards in a direct line. Strange to say, the bedroom windows were frequently screened and sometimes the dining-room windows as a concession to the æsthetic sensibilities of the guests, while the kitchen windows were wide open inviting the flies to wander in and contaminate the food. All these matters I have been trying to get remedied during past years, with a reasonable amount of progress from year to year by continual suggesting, advising, expostulating, and occasionally threatening the delinquents.

In the interests of the summer tourists and the general public we will have to continually keep these resorts under a vigilant eye and have all laxness observed corrected without delay.

#### Vessels.

Before closing this report I may say that the pollution of our lakes from the passenger vessels has been a source of worry for years past, but the trouble seems in a fair way of solution. Most of the boats are now equipped with steel tanks to receive the lavatory discharges which are treated with live steam for a sufficient time to render them perfectly sterile and innocuous before being discharged into

the open lake. It is hoped to have all boats so-equipped before the opening of next season.

On the whole I believe our summer resorts will compare very favourably from a sanitary point of view with any of this continent, but our constant effort must still be to see that there is no retrograde step permitted, but always advancement until the proprietors of these resorts learn that they must take every precaution and provide everything necessary to make their premises sanitary and safe for their guests.

R. W. Bell.

September, 1914.

#### REPORT RE SMALLPOX.

To the Secretary of the Provincial Board of Health, Ontario.

SIR:—During the year just closed smallpox has been somewhat prevalent in the Province but a considerable drop from the previous year is shown, viz.: 263 fewer cases reported. In both years as well as in 1912 the cases were pretty well distributed, no one section showing a great predominance, although the older portion of Ontario, west of Toronto, probably furnished most; the County of Middlesex was in the van, followed by Wentworth, Welland, Brant and Haldimand. To the east of Toronto, Prescott and Russell and Hastings furnished the majority of cases. During the previous year (1912) Prescott and Russell and Carleton showed up worst in the east, while Wentworth, Welland, Waterloo, Wellington, Essex and Grey all furnished more or less in the west. It will be noted that Northern or New Ontario has been comparatively free, except a few cases about Rainy River. The disease continues of the same mild type with few fatal cases.

I may also add here that I believe few if any of the cases developed in persons who were ever vaccinated, or at least vaccinated in recent years. None of those seen by me claimed to have ever been vaccinated.

The following shows a comparison of cases and deaths in the Province for three years:

	Cases	Deaths
1912	535	3
1913	774	3
1914	511	3

Where assistance was required from the Provincial Board of Health it was generally rendered by one of the District Officers of Health, but in a few instances I was sent out to investigate and advise with the local Medical Officer of Health and Board; this as a rule was as to questions of diagnosis.

January 20th—I visited Guelph and with Dr. H. O. Howitt saw one case in the City.

January 27th—I again visited Guelph and with Dr. Roberts, Medical Officer of Health, visited a case in Guelph Township. In both cases proper care was being taken to prevent further spread of the disease, but later on I believe quarantine was broken in the second case, resulting in prosecution.

April 24th—I was called to London to diagnose cases which had developed in the Victoria Hospital and also visited an infected house in the city. These patients were removed to the Isolation Hospital.

December 5th—Suspicious cases having occurred in North Cayuga and Seneca Townships, I visited these on the named date and confirmed the diagnosis of smallpox and advised with the former Board of Health.

December 9th—On this date with Dr. McNeil, Medical Officer of Health I visited several families in the south-eastern section of London Township, and found without doubt that a mild type of smallpox had been prevalent there for at least three months, members of infected families frequently visiting the city, market, etc. The presence of the disease had only been brought to the attention of Dr. McNeil, who lives several miles to the north-west of the city, a couple of days before. He had at once closed one of the schools until further investigation could be made. We got trace of the disease in at least nineteen families. Very few had been ill enough to call in a physician, but those had been quieted by the statement that it was a "Fruit Rash" or "Apple Rash" and other infected neighbours concluded they had the same and so the disease spread. These blunders were made by city physicians and at the time of my visit the city authorities were up in arms against the township for permitting such a state of affairs to exist, which was most unfair as their own physicians who practised in the infected district were largely to blame. However, Dr. McNeil took vigorous measures to prevent further spread of the disease.

December 14th—In company with Dr. J. A. Cummings of Bond Head, I visited an isolated but well-marked case in the Township of West Gwillimbury. This case was well isolated and looked after, being one of the most satisfactory cases to deal with in my experience and resulted, I understand, without any further spread.

December 16th—I was called to Morrisburg to consult with Dr. P. J. Moloney, District Officer of Health, and who is on service as Medical Officer with the troops guarding the St. Lawrence Canals. The patient was one of the soldiers and he was well isolated in a cabin on the bank of the Canal.

This covered all my connection with the disease for 1914.

R. W. Bell.

December 31st, 1914.

# REPORT RE POLLUTION OF ASHBRIDGE'S BAY NEAR CARLAW AVENUE.

To the Secretary, Provincial Board of Health, Ontario.

SIR,—Complaint having recently been made about the pollution of Ashbridge's Bay in the neighborhood of Carlaw Avenue, Toronto, more particularly with 5 B.H.

reference to the destruction of fish therein, supposedly from the Canadian Ammonia Company's plant, I visited the locality this afternoon, May 20th, and looking over the situation, I found this plant located in the block east of Carlaw Avenue and south of Eastern Avenue, close to an indentation of the Bay. The plant has been established there only a few months. The raw product used is obtained from the gas works and in extracting and concentrating the ammonia considerable quantities of lime are used. Small quantities of the lime unfit for use are occasionally dumped out in rear of the premises where filling is being done and a little of it had got into the marshy water among the rushes and discolored it for a distance of 15 or 20 yards, but not within 200 or 300 yards of the Bay proper. A little lubricating oil was also seen on the water for a few feet out, it reaching the shore line with water from the condensors.

Possibly a half dozen dead fish were seen among the rushes and there was more or less bad odor, I think from them. There was some stagnant water close to the west side of the building but the proprietors are filling in the low ground all around their buildings on their premises as rapidly as possible, loads coming in during my visit.

The waste bi-products, such as phenols, carbonates, etc., from the works are discharged into the sewer running down Eastern Avenue to the Sewage Disposal

Plant.

I scarcely think the destruction of the fish can be from anything I saw about the ammonia plant.

I next went to the foot of Carlaw Avenue, which I reported on twice last year, and there found a most abominable state of affairs, the Carlaw Avenue sewer apparently discharging as much, if not more, sewage than last year. The concrete sewer as before described extends out 30 or 40 yards into the Bay. Sewage lumps of excreta in hundreds were floating on the water both above and below the sewer, and carried back towards the shore as a gentle south-west breeze was blowing at the time. Many boats—launches, sailboats, skiffs, etc., were floating in this mess in rear of Rickey Bros. boat works. This is a disgrace to the City of Toronto. In Court last October I heard the City Commissioner of Works state that all this would be put an end to within three or four weeks, but to-day the condition is worse than ever.

Probably this has far more to do with the destruction of the fish than the ammonia works.

All of which is respectfully submitted.

R. W. BELL,

Toronto, May 20th, 1914.

#### RE COMPLAINTS OF PORCUPINE MINERS' UNION.

As the Townships of Whitney and Tisdale in which the mining camps are situated are organized the regulations for unorganized districts do not apply and the companies are not required to furnish either medical attendance or hospital accommodation. The hospitals at the Hollinger and Dome Mines are provided for their own protection with their own physicians and the charges connected therewith are their own concern and under their own control. The admission of patients from other mines is purely a voluntary matter and by private agreement.

The companies at Iroquois Falls in unorganized territory should have their own hospitals.

The establishment of a Public General Hospital in the Porcupine District is desirable, and with the installation of a water and sewer system at the Town of Timmins, that appears to be the most desirable site. The surplus from the Fire Fund, held for this purpose, I believe could be usefully expended here.

R. W. Bell,

Toronto, June 17, 1914.

#### RE POLLUTION OF WATER SUPPLY, VILLAGE OF WESTON.

To the Secretary, Provincial Board of Health, Ontario.

SIR,—The Corporation of the Village of Weston having applied to the Provincial Board of Health for an examination of the waters of the Humber River beyond the point from which their domestic supply is obtained, with the object of having any pollution thereof controlled under Section 93 of the Public Health Act, I, in accordance with your instructions, visited the location yesterday, July 3rd. I find the pump house with a sedimentation basin situated a short distance outside the village limits and on the east bank of the River. The River at this point is only a few yards wide, and has a depth of from six inches to two feet, with low banks. On the west side there were a number of horses and cattle pasturing with direct access to the stream. While a portion of the land for several miles up stream is under cultivation, much of it is under pasturage, and within the first two miles, over one hundred head of stock pasture on its banks without being fenced off, and wading in its water pollute it to a considerable extent. This same condition exists up the main stream to the village of Woodbridge seven miles, and also along the west branch of the river which empties into the main stream a mile or so above Weston. Many persons also bathe in the river within a short distance above the intake.

From my investigation I recommend that the Corporation of Weston be given sanitary control of the banks of the Humber River both main stream and west branch, and any other entering streams for a distance of four miles above the village limits, and if it later be found that the public water supply is still polluted, the control be extended beyond the Village of Woodbridge, which I fear is a greater source of danger than the farms described.

R. W. Bell,

July 4th, 1914.

#### REPORT RE NUISANCE AT 508 DOVERCOURT ROAD.

To the Secretary, Provincial Board of Health, Ontario.

SIR,—As instructed by you, I proceeded to investigate a complaint re pollution of the air said to be caused by some chemical manufacturing on the premises 508 Dovercourt Road, in this City.

I found the premises occupied by Mr. H. B. Latimer, and in a small building on the rear of his lot the manufacture of silver nitrate was conducted on a small scale. Bar silver by the aid of heat was dissolved in concentrated nitric acid, and the complaint is that during this process gases in the form of heavy brown fumes are discharged from the chimney and being blown by varying winds into neighboring houses become a nuisance, both from injury to health from their inhalation and from the disagreeable odor. At the time of my visit, September 11th inst., there was nothing disagreeable to be found, as no solutions were being made, the only evidence of the manufacture being several vessels with nitrate of silver in various stages of crystalization. These were in both the ground floor and cellar of the rear building. Mr. Latimer assured me that he carried on no other manufacture but that of silver nitrate, and that only once in two or three weeks or not so often he dissolved the silver, when he admitted there would be disagreeable fumes from the chimney for an hour or so and if the atmosphere was heavy they would be held down and with a breeze might be carried into some of the nearby houses. This gas, I believe, is mainly nitrous oxide, and is certainly disagreeable and also injurious for inhalation. Possibly the situation might be relieved to some considerable extent by the chimney being raised several feet and extended still further by a high smoke stack. However, as this is a residential district a city by-law may perhaps be invoked to have the nuisance abated.

Since visiting the premises I have been informed the brown fumes have been seen issuing from the chimney of Mr. Latimer's residence on the front of the lot, which would indicate that some chemical manufacture is going on there also, but this was not indicated to me during my visit, only the building in rear being pointed out as the factory premises. Mr. Latimer has, however, promised to let us know when he next will have the work in operation so it can be visited and seen at its worst, probably within three or four weeks. Meantime I suggest waiting for this further investigation.

R. W. Bell.

September 16th, 1914.

#### REPORT RE MIMICO PIGGERY.

To the Secretary, Provincial Board of Health, Ontario.

SIR,—As instructed by you, I made an inspection yesterday of the Mimico Piggery, situated on the bank of Mimico Creek and south side of College Street. This is the same as was twice reported on in October and November, 1912. At the time of my visit there was apparently no person about the premises. The surroundings were as at my previous visits, but in several respects conditions were much improved. There is now apparently no discharge into the creek and provision appears to be made for pumping the liquid filth from the tank and carting it away. The pens are all quite dry and comparatively clean. Each building is divided into twenty-four pens, and in the westerly one there were about 150 hogs, while in the easterly one only three, but there were a large number of hens which left it in a rather filthy condition. Two or three smaller sties in other parts of the premises were empty. East of the main buildings were two or three small slimy pools which ought not to be there. Close to the south-easterly corner of the east building there was a pile of solid manure which had been accumulating for probably several

weeks. There were indications that a portion of it had been recently removed, probably within a few hours, and here the odor was disgusting.

In the slaughter house cooking of feed was going on and the smell therein was sickening, but all of this offensiveness was only perceptible to the south of the premises, as the wind was from the north at the time of my visit. Two nearby residents told me the odors were most disagreeable when the wind blew in their direction, and almost unbearable when the filth was being carted away and the manure pile stirred up, as it had been that day. This I am informed occurs three or four times a year, and is carted to the farm of Mr. Collins, a few hundred yards west, and there Dr. Bull, M. O. H. of the Township, had given orders for it to be ploughed in immediately.

Take it all in all, there is a decided improvement over the conditions existing at the time of my previous inspections, but notwithstanding this, the place must at times be an almost unbearable nuisance to the nearby residents, who are rapidly

becoming more numerous.

R. W. Bell,

Toronto, September 26th. 1914.

#### REPORT RE ANTHRAX AND POLLUTION OF STREAM AT ACTON.

To the Secretary, Provincial Board of Health, Ontario.

SIR,—Dr. J. R. Nixon, M.O.H. of Esquesing Township, having reported several cases of Anthrax in that township, possibly caused from pollution of stream by tanneries at Acton, I, with him, visited that village and looked over the situation on September 15th inst.

The stream is known as the west branch of the Credit River and is very small

at this season of the year.

Dr. Nixon had a record of at least ten animals that have died since the latter part of July, all along this stream and all having had access to it and all with symptoms very suspicious of anthrax. R. Sproule, living one mile down stream, lost two head of cattle in July, but did not report at the time; W. Dobbie, one and one-half miles down, lost three animals in July and early August; W. & C. Scott, two miles down, lost one but not reported; Herb. Bessey, five miles down, lost one, and Jno. Bessey, five miles down, lost three. Veterinary Surgeon John Standish performed a post-mortem on these last and a few days afterwards died with symptoms of Anthrax. A Dominion Veterinary Inspector made an investigation and sent a specimen to the Department of Agriculture at Ottawa which proved to have Anthrax; specimens were sent to our Provincial Laboratory, but no indications of Anthrax in them. I find on information from Veterinary Surgeon Cox, of Acton, who has been in touch with some of the cases, that the animals were buried where found dead on the farms and covered with quick lime. Dr. Nixon says: "There have been occasional outbreaks of this trouble along this stream for many years, but this last one is the worst ever."

With the idea that possibly the trouble might have arisen from the tanneries, I visited them with Dr. Nixon. There are two, viz., Beardmore's and the Acton

Tanning Co. The former use principally imported dry hides, the latter all green hides—about 4,000 per month—from Chicago and Canadian Swifts. The last case of Anthrax in any employee was fifteen years ago. Both plants are large and are comparatively clean. The former is a few yards farther up stream, but both get their water supply from above the upper one beyond a dam, the supply being brought down through a small flume beside the stream. The waste liquids are carried off through a small box drain parallel to and above the bed of the stream to a tank at the lower corner of the lower tannery and from there pumped over a hill into two ponds, natural depressions in the ground, about three acres each in extent. These are used alternately, one evaporating more or less while the other is in use. There is no discharge from these ponds. There are no animals pasturing about these premises whatever.

Some years ago filter beds were in use beside the stream a short distance below the tannery, but being too small, the ponds over the hill were formed. Apparently much trouble and expense has been gone to, in order to get rid of the waste without creating a nuisance. However, we found the waste box drain, which is an open one, leaking more or less, also broken on the side, and if at all choked or dammed up (as we were told occasionally occurs) even for only a few minutes, it overflows into the stream underneath, increasing its pollution which is more or less constant from the leakage even if small. Of course, if any anthrax germs from the hides get into the stream, the trouble below can easily be accounted for; but, if any of the hides were infected, it would be almost a miracle if none of the employees handling them contracted the disease. It almost seems to me that the infection is from previously buried animals not being properly destroyed, as the liability to cause trouble under these conditions for years after is well known.

A bacteriological examination of several samples of water from springs on the farms adjoining and also from the stream does not show any anthrax germs, but colon bacilli and chemical pollution are indicated to a dangerous extent.

I have advised steps to further protect the stream, and also the burning of all animals infected with or where suspicion of Anthrax.

R. W. Bell,

September 28th, 1914.

#### REPORT RE TYPHOID FEVER IN TOWNSHIP MAIDSTONE.

To the Secretary, Provincial Board of Health, Ontario.

SIR,—On 20th inst. I visited the Township of Maidstone in Essex County and with Dr. Millen, Medical Officer of Health, drove through the Township, visiting seven families where there had been recently twelve cases of typhoid fever, with the object of determining the cause if possible. The majority of the cases were convalescent or entirely well, seven being in adults and five in children from 8 to 14 years of age. There had been one death of an adult after four weeks illness.

These cases were distributed over a considerable area, but all within a reasonable distance of Lake St. Clair and not far from the mouth of Belle River. There did not appear to be any direct connection between the cases. Most of the families had wells, but in several instances they had gone dry, and the owners had been compelled to draw water from the lake close by Belle River for domestic use.

In all instances, but one, we found the lake water had been in use even where wells were not dry, and in the one case not traceable, there was a strong probability the patient had drunk lake water not knowing it, as he was travelling about with a threshing outfit and had been at houses where lake water was being used. There is very little doubt but that the lake water was the source of infection, as there was liability to its pollution where it was being obtained. Dr. Millen, however, was taking all necessary precautions to stamp out the disease.

R. W. Bell,

October 24th, 1914.

# REPORT RE POLLUTION OF CREEK FROM ASYLUM DRAIN, LONDON, ONTARIO.

To the Secretary, Provincial Board of Health, Ontario.

SIR,—As instructed by you on 19th instant I enquired into the pollution of the creek in London Township, just east of the Asylum where it crosses Dundas Street and runs south through the property of Mr. Gervin. I was accompanied by Reeve Hodgins, Township Clerk Grant and Dr. McNeil, Medical Officer of Health, who were the complainants. We found a drain from the Asylum, which runs under Dundas Street and into Mr. Gervin's property, entering the creek about 40 yards south of the street crossing. This is a large arched brick drain with one tile at its outlet and was the original drain for all the Asylum sewage, but for many years past only supposed to be used for storm water and boiler washings. Mr. Gervin asserts that there is much dirty water from it and his cattle pasturing on the banks of the creek will not drink it. This pollution he asserts is visible sometimes daily for a week or two, and occasionally dry for several days. At the time of my visit there was some dirty grey coloured discharge coming from the drain and there was much slimy grey deposit clinging to the grass and watercress close to and below the outlet. The water above it was clean. Fish were seen swimming in the clear water above, while only dead ones were seen below.

Having satisfied myself as to the pollution I visited the Asylum and went over the situation with Dr. Robinson, Superintendent, and Dr. Ross, Assistant Superintendent. We opened manholes in the Asylum yards where the drains are 12 to 14 feet deep, and found no flushings from the laundry, etc., and apparently no connection except from roof pipes. We could not test the flushings from the north building as repairs were going on and pipes cut for a day or two, but Dr. Robinson and old employees assured me all connections, except for roof and surface water and boiler washings from the furnaces, which were turned in once a week, had been cut off when a new sewage disposal system to the farm lands had been put in many years ago. However, I arranged that as soon as possible a test be made with a good heavy flushing from the baths, etc., at each end of the north building, colouring the water with Methylene blue or Permanganate of Potash, as I feared at the time of the supposed change some connection had been overlooked or deliberately left by the contractors to save work, and probably soapy water from some of the baths was causing the trouble.

Since drafting the above portion of report I have, October 24th, received a letter from the Superintendent of the Asylum saying that on investigating, as I suggested, he has discovered that the baths, etc., at one end of the north building are still connected with this drain and evidently the cause of the trouble. This will be remedied without delay. I have suggested a similar investigation into the connections from the main and other buildings, as possibly the same conditions may be found to exist.

R. W. Bell.

October 27th, 1914.

# REPORT RE PROPOSED INCREASE IN WATER SUPPLY AT GEORGETOWN.

To the Secretary, Provincial Board of Health, Ontario.

SIR,—On Wednesday, the 28th inst., as instructed by you, I visited George-

town, to investigate a proposed additional water supply.

Accompanied by Dr. McAndrew, M. O. H., I went over the situation. The present supply is obtained from springs some three miles out in the country and stored in a small pond close by the roadside of a leading street in the outskirts of the Town, where it is always open to much pollution.

The proposed source for increased supply is from springs situated in a small swamp a few hundred yards west of the reservoir, the water from which now runs down close by the storage pond. This streamlet has been deepened to some extent alongside of the new electric railway line, from which it is liable to contamination.

At the time of my visit I found the whole vicinity of the larger springs tramped and messed about by cattle coming from the adjoining fields for water. Even if stock were shut off from access to them, the springs are liable to pollution from the adjoining pasture lands and from drainage from barnyards.

Under these conditions I cannot but report adversely to this proposed source of supply, as I do not see that there is any possible way of protecting it so that

it will be fit for domestic use.

R. W. Bell,

Toronto, October 30th, 1914.

#### REPORT RE ABATTOIRS AT WEST TORONTO.

To the Secretary, Provincial Board of Health, Ontario.

SIR.—On Monday, October 24th, 1914, the undersigned visited the slaughter houses of the Harris Company, the Gunn Company and Swift Canadian Company at West Toronto.

Previous to going to the abattoirs we visited three points in the town—one point on Annette Street where a large sewer is being constructed, one point farther

west on Annette Street, and one at the corner of Dundas Street and High Park Avenue. At all of these points there was a distinct slaughter-house odor; it was not extremely obnoxious as an odor to be borne for a short time, but if long continued would be very decidedly a nuisance, not necessarily directly injurious to health but indirectly a health reducer and a very considerable sentimental nuisance. We were told by those who accompanied us that it was frequently much more pronounced and had given rise to very vigorous protest by the people in the neighborhood of these points. Though the wind was from the direction of the abattoirs we did not notice any pronounced odors in the general air away from these manhole areas, except when we went in the street on which the abattoirs are located. Here the odors were quite distinct and specific from each of the establishments, acrid oily odors and the odors of cooked flesh.

On several occasions while going along Dundas Street through West Toronto during the Encampment at Long Branch, Dr. Amyot personally noticed

very decided, strong abattoir odors, once or twice objectionably strong.

We then made visits to each of the three abattoirs. Harris Abattoir: Last winter we visited this establishment; at that time it had been in operation but a short time; the paunch manure was being handled very objectionably and was giving rise to bad odors. This has been corrected satisfactorily. On that occasion also the slaughtering-room floors were soaked in blood and not washed down frequently enough; this has been corrected by thorough washing, and at the time of our visit no objectionable odors were being given off. During the winter inspection the section where offal is treated was in bad condition, as it was now and not yet properly constructed for good sanitary cleansing; this also has been corrected. The cooking apparatus was not hooded and this might be done now with beneficial results to get rid of the odors given off. Formerly the windows used to be left open, giving an opportunity for the gases to escape into the outer air; they are now being kept closed pretty generally, but should be so arranged that they cannot be opened. The windows in the rendering section are now being kept closed most of the time; these also should be sealed tight so that the strong odors here produced might all be removed by the fans. If the fans at present in use cannot remove the odors, larger ones should be installed. An acrid, disagreeable odor was coming from the cotton-seed oil distiller, to correct which some device should be adopted.

In the city abattoirs of New York it is required that all windows be sealed and that the odors from the chief producers be collected by means of hoods and led to a strong exhaust and thence underneath the furnace fires; the rest of the air is exhausted and passed through water-scrubbers, the effluent gases from these being then treated with a tar-creosote preparation which oxidizes in part the remaining odors and masks the remainder. This arrangement has been found to

work very satisfactorily.

In the Harris plant most of this is being done, and with some more adjustment and perfecting should soon be satisfactory. Eternal vigilance should be enjoined on those in charge to see that these appliances are not rendered futile by

negligence.

The catch-all in the basement before their sewage enters the sewer gave off putrid odors. They were attempting to chlorinate it before putting it into the sewer; we did not think the method was efficient. If they chlorinated thoroughly, the sewage carried down the sewers would not give rise to a nuisance as early as it does now, for putrefaction would be delayed until the dilution by the common sewage was extensive enough to prevent the development of specific abattoir putre-

factive odors; this is the plan adopted in New York to get over this nuisance. Again, improvement would be made if some such revolving self-cleansing screens were put in, such as are being used by the Swift Company farther along the line to prevent any possible gross material getting into the sewers. Altogether, the Harris people seem to be making an honest effort to minimize and remove their nuisance.

Referring to a report of Dr. Bell made last winter we now find that most of the wooden floors in Gunn's have been replaced by cement floors. Also in their catch-basin a revolving screen has been put in as in the Swift Company's plant. We are glad to report also that serious work towards closing of windows and putting in exhaust fans was in progress, and when these are completed and the scrubbers are installed much improvement should result.

The Swift Company are more advanced in their improvements; there is hope that they will soon be in a much more satisfactory condition than at present.

The following we consider absolutely necessary as preliminary measures to correct the nuisances arising from such establishments:

(1) That hoods connected with strong exhausts be placed over the chief odor-producing apparatus, these to lead to the underside of furnace fires.

- (2) All rooms in which objectionable odors are produced, in addition, must have windows and doors tightly sealed and the air exhausted by adequate fans; the air to be treated by scrubbing and afterwards by some satisfactory deodorizers such as creosote tar with treatment to neutralize and mask odors not already neutralized.
- (3) That screens capable of treating all effluents from the factories be installed in order that no gross material enter the sewers; that the liquid effluent be strongly chlorinated that putrefaction will be so delayed that dilution is brought about before characteristic putrefaction takes place in the sewers close to the establishments or in remoter residential sections.

(Signed) J. A. AMYOT, R. W. BELL.

Toronto, November 3rd, 1914.

#### REPORT RE TANNERY ON OSSINGTON AVENUE.

To the Secretary, Provincial Board of Health, Ontario.

SIR,—Complaint having been made re an alleged nuisance created by a tannery at 118 Ossington Avenue, I investigated the condition existing on November 28th inst. This tannery owned by A. T. Howe & Sons is situated in a hollow on west side of Ossington Avenue, between Shannon Street and Churchill Avenue, and consists of a group of cheap and not very substantial buildings; the main one used for tanning, etc., being a three story roughcast with basement, the others much smaller are used as work-rooms and for storage. The chief productions are mats and insoles as only sheepskins are used. In the main building these skins are first washed in clean water, after which sodium sulphide is applied to loosen the wool before it is pulled, then lime is used, after which they are washed

in the basement, in a solution of some patented combination of salts and finally with sulphuric acid and salt. Everything about the premises was as clean as could be expected in an establishment of this kind and no offensive smell was noticed until the basement was reached; but here in the west end where the washing of the skins was in process in the patented salt solution there was certainly a most disagreeable odor, and this was the only place there was anything offensive. This I was informed lasted about two hours each forenoon. Outside I went all around the premises and the adjoining streets but at the time of my visit (10 a.m.-noon) I could not detect any odor as coming from the tannery. This tannery has, I understand, been in existence about twenty-five years and at the time of its establishment there were no nearby residences and the location was a most suitable one, but now the surrounding streets are closely built up with dwelling houses. I was informed that, with the basement windows open and the wind from that direction, occasionally the odors reached some of the adjoining residences to such an extent as to be offensive, but at the time of my visit there was nothing on which to ground any complaint.

R. W. Bell,

Toronto, November 30th, 1914.

# Report of the Provincial Sanitary Engineer

F. A DALLYN, B.A.Sc., C.E., (Tor.)

To the Chairman and Members, Provincial Board of Health, Ontario.

GENTLEMEN,—I have pleasure in presenting herewith my Annual Report for the year 1914, together with the laboratory report of Dr. De Fries upon the Sault Ste. Marie water supply and two reports of Mr. A. V. De Laporte, B.A.Sc., one upon the chlorination of the water supply at Port Arthur and the other in connection with trade waste from the paper mills at Georgetown.

During the year the Board was honored by a request from the International Joint Commission that your Engineer should be present at a meeting in New York, at which some six representative Engineers, viz., George C. Whipple, George W. Fuller, Earl B. Phelps, W. S. Lea, T. J. Lafreniere, and myself, were consulted in connection with the Commission's examination into the pollution of Boundary Waters.\*

The Annual Meeting of the American Water Works Association was attended

in May at Philadelphia.

In order that the Department might take a fuller advantage of the information presented by the municipalities in connection with applications for approval of sewerage and water works, and in order that the Act might be more carefully complied with, considerable effort was spent in preparing a form of application which would in a general way be suitable for the various classes of work submitted for the consideration of the Board. The form of these applications, together with the proposed regulations governing the same, were submitted to some of our municipal engineers before being submitted to your body for approval as a regulation under the Act. The city engineers very kindly gave the matter their careful attention and the result has been a form which is now in general use without occasioning municipalities any serious inconvenience. The Regulations are so arranged that the information submitted to the Board is such as should rightly be in the possession of the engineer when designing the work. materials and estimate of cost submitted with the applications has already begun to show us how in various ways the supervision of the Board can be turned to the advantage of the municipalities. The information which previously was of a general character has now become rather minute and permits of special study.

Some municipalities have not as yet conformed to the amendment of 1911 to the Ontario Statutes, which provides that no by-law shall be passed for the raising of money for sewerage or water works purposes until the proposed water supply or sewerage system, as the case may be, has been approved by the Provincial Board of Health. This comment naturally applies solely to those municipalities which have a local sale for their debentures. Practically all of the larger municipalities have realized that the Act cannot be evaded, since the debenture solicitors invariably advise them that the debentures are not validated until the approval of the Board has been received. This co-operation on the part of the debenture

<sup>\*</sup>Minutes of this meeting appear in a publication of the International Joint Commission, Ottawa and Washington, copies of which may be obtained.

# SEWERS

COST  COLOMATITIES RATE A  DUANTITIES RATE A  alton contained in this application is a reasonable one and that the somutes bearing interest at the year	THE EXECUTION OF FILE PROOF FILE AND AN DESCRIPTION OF STATES AND OF STA				A SEWEDS		V = Velocity in feet per sec. G Discharge in cu. ft. per sec	RECAPITULATION A gradent 1-100 B-gradent 1-200 C-gradent 1-200	the spirite and the spirite from the spi	SIZE A B C A B C A B C	Secore (Materials only)	Appugrenances	9 tv 2 6 22 18 46 34 25 24 54 32 1.32 2 6 33 1.53 2 6 107 33 1.53 2 6 107	To an example property of the complete propert	Telefort 125 to 1.73 for 2.7 f	Determore Sile from. 149 1.52 3.3 1.67 2.8 57 1.43 3.05 5.31 4.3 3.05 5.3 5.2 5.0 6.8 5.0 6.8 5.0 5.2 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	21 19, 5.0 2.34 35 1.03 2.31 135 6.5 7.00 4.6 5.57 3.7 1.52 7.1 13.9 5.1 6.67 4.17 7.91 6.5 15.84 48 11.1 3.7 9.10	24 W. 5.5 130 33 239 33 134 72 13 15 18 14 17 18 18 18 18 18 18 18 18 18 18 18 18 18	The black concess reduces that the control of the	the second process of the second process of	To the Provincial Board of Health, Ontario.	Contenen,	I hereby beg to report that the niunicipality of the	have suttoitted plans . with the proposed	and that it is upon {recommendation} of	the applicant examinations of the inflations of the numericality and is not to the manufactured the manufactured of
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Provincial Sanitary Engineer.

# WATER MAINS

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C.I. PIPE	CLASS A.B.C.O					
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П	To the Provincial Board of Health of Ontario.	fealth of Ontario.	
TT	Gentlemen,		
П	I hereby b	I hereby beg to report that the manicipality of the	
TI		have submitted plans, specifications and an engi	s and an engi
T	the water supply and the we	the water supply and the works to be undertaken together with such other information de	information de
-	in connection with the proposed	p39	
T .	described; that the work has	described; that the work has been inquired into; that the source of supply should be app	should be app
1	and onlinear		

med necessary

Declaration. I hereby centify that the information contained in this application is correct to the best of my knowledge

solicitors is proving of material assistance to the Board, and the use of the new forms will doubtless greatly assist the Ontario Railway and Municipal Board in the examination of proposed debenture issues in connection with new sub-divisions.

It will be noticed that a sub-section has been inserted in the regulations with reference to sewerage work, requiring municipalities to pass by-laws for the removal of outhouses and privies on those premises abutting on streets having sewerage facilities. This section was deemed advisable in view of the fact that in many municipalities sewers have been laid without compelling the property owners to take advantage of them. This is lack of foresight on the part of the municipal council. The idea of the regulation is to override such backwardness.

The Regulations are as follows:

REGULATIONS GOVERNING THE PREPARATION AND SUBMISSION OF PLANS AND SPECIFICATIONS RELATING TO A SEWERAGE SYSTEM, SEWAGE DISPOSAL SYSTEM, COMMON SEWER OR EXTENSIONS TO THE FOREGOING.

Approved by the Lieutenant-Governor-in-Council on the 5th day of October, 1914.

#### · SECTION A

An application for the approval of a sewerage system shall be accompanied by:

(1) A topographical map covering the entire municipality or sewerage district, together with contours indicating the nature of the adjoining watershed. This map shall clearly show the existing, proposed and ultimate main sewers intended for the area. The sizes of sewers must be plainly written along the lines of the sewerage system,

12"	0		
14	0		

- (2) Profiles of all sewers proposed for immediate construction, which shall show by means of figures and other suitable symbols the sizes, lengths, gradients, surface elevations of the sewer invert, elevation of sewer inverts at manholes and the material and nature of the sewer construction. Gradients ensuring self-cleansing velocities will be expected when obtainable by the nature of the topography of the section to be sewered. It is further required that the elevation of the floor of the lowest cellar be mentioned on the profile drawing. Test hole information showing character of subsoil and such other information necessary to aid contractors in bidding will be required for new sewerage systems, new sub-divisions and for larger undertakings. Test hole information is not required for small jobs where the nature of the sub-stratum is known.
- (3) Plans of all sewer appurtenances, such as manholes, lampholes, flush tanks, siphons, unusual features, pumps, etc., shall be required. It is suggested that details of manholes, flush tanks, catch basins, etc., be placed on the profile drawing or that they be standardized and bound together with the standard specifications.
- (4) Specifications or allusions to a Standard Specification already filed with the Board, together with a copy of the Engineer's preliminary estimates of cost subdivided into the various main headings, shall be required.
- (5) Further the Corporation shall produce evidence that by-laws either have been passed or will be passed forthwith, providing that all outhouses and privies shall be removed or destroyed on those premises abutting on streets which have sewerage facilities or upon those premises which by reason of their situation may connect to existing sewers, and that such premises are required to connect to the adjacent sewer.

#### SECTION B

An application for the approval of common sewers or sewer extensions shall be accompanied by:

- (1) Plans and specifications or plans together with an allusion to a standard specification previously submitted as required for subsections 2, 3 and 4 of Section (a), relating to the particular extension. It is suggested that when several profiles are being submitted at one time these be blue-printed on a single, long sheet, instead of in sections. (Filing and examination is thereby much simplified.)
- (2) A report in the case of new outlets showing their relation to the existing system and setting forth the reason why existing outlets are not used.

#### SECTION C

An application for the approval of a sewage disposal works shall be accompanied  $\delta y$ :

- (1) A small scale topographical map showing the main collectors, together with the situation and size of the disposal area.
- (2) An Engineer's report upon the proposed works, describing the necessity thereof and the benefit to be derived therefrom.
- (3) An actual estimation of the existing flow of sewage from various districts or at convenient outlets made by means of weirs or other suitable measuring devices must be included with the description of the works.
- (4) Detail plans and specifications for the construction of the proposed works, together with the Engineer's preliminary estimate of cost.
- (5) It is recommended that no disposal works other than the acquiring of land and the construction of sedimentation tanks be provided for at the time of construction of the main drainage scheme, but that suitable experiment and research be made as to the proper methods of disposal after actual conditions of flow have been established, the results from these experiments and researches being used in final design of the disposal works.

#### SECTION D

An application for the approval of combined systems or storm sewers shall be accompanied by:

- (1) A set of topographical maps of the natural surface water drainage divisions of the municipality. These may be enlargements taken from the general topographical map, upon which shall be shown the proposed storm sewers. The sizes of the sewers must be plainly written along their lines of direction.
- (2) Profiles, specifications and a plan showing typical sewer cross sections, manholes, etc., for that portion of the system covered by the construction by-law.
- (3) An Engineer's report of the proposed system, which report shall be in detail and shall include the information relating to sub-strata and ground water level, areas paved, nature of ground surface, local by-laws affecting collection and separation of roof water, mean slopes affecting run-off, and the area of each natural division, together with a complete record of data relating to precipation affecting the municipality.
- (4) A plan showing the locations of connections between the sanitary and storm sewers, together with a report upon the mean flow and its relation to the excess flow which operates the separating weir.

#### SECTION E

#### Completion of work:

(1) Upon completion of the work a revised plan showing the alterations and deviations from the original plans, together with a final estimate of cost, shall be forwarded to the Board.

REGULATIONS GOVERNING THE PREPARATION AND SUBMISSION OF PLANS AND SPECIFICATIONS AND AN ENGINEER'S REPORT OF THE WATER SUPPLY, WATER WORKS SYSTEM, WATER PURIFICATION PLANT, EXTENSION OF, OR CHANGES IN EXISTING INSTALLATIONS OF THE FOREGOING.

Approved by the Lieutenant-Governor-in-Council on the 5th day of October, 1914.

#### SECTION A

An application for the establishment of a source of water supply shall be accompanied by:

(1) A map showing the location of the source of supply and having plainly marked thereon the position of the intake, location of drains and water courses affecting the quality of the water, together with the location of common sewers, dwellings or pasture lands adjacent to the water courses or affecting or liable to affect the watershed, well or spring serving as a source of supply.

(2) A report upon the quality of the water by a responsible sanitary expert. The Board may upon the receipt of a request from a Municipal Council of Commission or Private Company cause such report to be made by one of its own officers. (See Section

90, Chapter 218, Revised Statutes of Ontario.)

(3) An Engineer's report upon the quantity of water available from the source of supply together with suggestions as to the conservation and augmentation of the same. This report shall be in detail and shall include the information relating to area of the

watershed, precipitation, evaporation and run-off used in its compilation.

(4) A contour map and profile showing the proposed location of the pipe line, together with detail plans and specifications for the pipe line, intake and other structures used in the conveyance of the water until it reaches the water distribution mains of the municipality. The detail plans and specifications shall not be required for preliminary reports, but must be presented before by-laws for establisment have been finally passed.

#### SECTION B

An application for the approval of a water works system shall be accompanied by:

(1) A map of the municipality upon which is clearly shown the position and size of the mains together with the location of intakes, pipe lines, pumphouses, reservoirs,

elevated tanks, hydrants, valves and valve chambers, etc.

- (2) An Engineer's report upon the proposed system, a report upon the present condition of the source of supply (see Section (a)), together with detail plans, specifications and estimate of cost for the various works by reason of the establishment of a waterworks system.
- (3) A plan showing the layout of the pumphouse, together with a statement of style, make and capacity of the various pumps and means of operating them. (Where pumps are operated by steam, the make, style, horse-power, grate area and heating surface of the boilers shall be given upon completion of the work) (Section (e)). This application shall include preliminary estimates and the specifications for the proposed construction.

#### SECTION C

An application for the approval of extensions to an existing distribution system shall be accompanied by:

- (1) Extensions may be completely described by use of the identification form and shall include the information relating to proposed materials and estimate of cost. Applications wherein the description is seriously lacking will be referred back to the municipality for such details.
- (2) The material therein described must be according to specifications. When tenders are to be called for according to the Standard Specifications of the Canadian Society of Civil Engineers or according to Standard Specifications of other Associations,

6 B.H.

or according to specifications adopted by municipalities, for cast-iron water pipe and special castings, it shall be necessary that the class required under those specifications be described in the application, and that copies of any special municipal specification accompany the application or be on file in the office of the Provincial Board of Health, and that such specification must be for better material and workmanship than the before-mentioned standard specifications, otherwise their use will not be permitted. All pipes for services mains shall be tested to a pressure not less than 300 pounds per square inch at the factory.

(3) The municipality need not present plans for the extension with each application under Section (b), but shall be required each year to prepare a plan showing the extensions to the system for the preceding year, and to file same with the Board not later than May 1st of each year.

#### SECTION D

An application for the approval of a water purification works shall be accompanied by:

(1) An Engineer's report upon the proposed system, describing the works, the necessity thereof, and the benefit to be derived therefrom, which report shall include preliminary estimates of cost for the various works mentioned.

(2) A general plan showing the main conduits, the general arrangement of the proposed purification works and accessiries. Reserve areas shall be indicated on the plan, together with the probable positions of extensions.

(3) Detail plans, specifications and estimates of cost for the various works whose

immediate construction is proposed in the application.

(4) An Engineer's report upon the operation of the proposed works after construction, which report shall describe in detail an organization and operating arrangement which should ensure continuously efficient service.

#### SECTION E

#### Completion of work:

(1) Upon completion of the work a revised plan showing the alterations and deviations from the original plans, together with a final estimate of cost, shall be forwarded to the Board.

#### CANADIAN FIRE UNDERWRITERS' ASSOCIATION REQUIREMENTS.

(a) No mains for fire protection purposes shall be less than 6 inches, except that short lengths of 4-inch pipe may be placed on side streets to connect to larger mains, but no hydrants shall be placed on them.

(b) No wood mains shall be allowed except where they are gravity mains, under a constant and unvarying head, such as from a reservoir to a pump suction well or from

springs to a reservoir, and they shall never be used as pressure mains.

(c) All mains shall connect at intersections, and shall have sufficient number of valves, so that in case of accident not more than one block, or say about 600 feet, will be out of service at any one time; and they shall be laid well below the frost line.

(d) Hydrants: It shall be specified that hydrant valves shall close with the pressure, and that each hydrant shall be fitted with an independent valve on the pipe leading from the mains to the hydrants, especially in the business section. Further, that in business sections, the distance apart of the hydrants shall not exceed 250 feet.

(e) Where elevated tanks or standpipes are installed in connection with any system, they shall be fitted with an automatic valve capable of being operated from the

pump house, which valve should be closed on every alarm of fire.

(f) Filters: The Canadian Fire Underwriters' Association have no special stipulation as to the capacity for filters, but they should be equal in the capacity to that required by the C.F.U.A. standard for a duplicate pumping system, plus one filter and the plant should be so arranged that any one filter can be cut out without affecting the others and be capable of giving their full capacity at such pressure as will give on the discharge side at all times the necessary pressure for fire service. If these conditions cannot be complied with, a suitable reservoir should be provided in accordance with Section 7 of the C.F.U.A. standard, under the heading of "Reservoir for visible supplies to pumps."

(g) All valves on water mains shall be placed on the street line of the intersecting

streets.

Applications relating to approval of sewerage and water works systems were received and reported upon from the following municipalities. Those receiving approval of the Board are listed as follows:

#### SEWA(E DISPOSAL.

Date	e of	D	ate of
Municipality. Appro	val.	Municipality. App	proval.
Ridgetown (Royal Bank Build-		WhitbyJu	ine 6
ing)Feb.	2	White River (C.P.R. septic tank)	" 30
EnglehartApri	1 9	Bracebridge (Public School)Au	ıg. 17
Canadian Kodak Co., Mount		Graham (G.T.P. septic tank)	" 17
Denis"	11	Redditt (G.T.P. septic tank)	" 17
TrentonMay		White River (Y.M.C.A. Build-	
Swansea (J. Rennie) "	9	ing)Se	ept. 23
Carleton Place"	18	Cornwall (passenger station) .Oc	et. 7
Forest (Forest Canning Co.) "	19	DundasNo	ov. 12
Stratford"	22	Whitby	" 27
		Whitby	<b>ec</b> . 8

#### SEWER EXTENSIONS.

	Date	of		Date	e of
Municipality.	Appro		Municipality.	Appro	val
Berlin		7	Ottawa	~ ~	1
Kingston		10	Sarnia	66	1
		19	Ottawa	66	$\tilde{2}$
		19	Brampton	86	8
Fort Frances		28	London	66	11
Galt				66	19
Niagara Falls	• • • •	28	Ottawa	£¢.	19
Hamilton		28	Kingston	66	20
Peterborough		2	St. Thomas	66	
Sandwich		3	Chatham	66	20
Oshawa		7	Ottawa	"	22
Ottawa		7	Niagara Falls		22
Galt		19	Berlin		22
Fort William		21	Stratford	56	22
Windsor	"	26	Ottawa	66	23
Barrie		28	Guelph	66	30
Stratford	Marc	h 2	Waterloo	66	30
Toronto		5	Sandwich	66	30
Oakville		6	Barrie	66	30
Sandwich		11	Sudbury	June	2
Russell		12	Ottawa	66	2
Hamilton		13	Fort William	66	2
		16	Ottawa	66	4
		20	North Bay	66	ß
Barrie		27	Belleville	66	10
Windsor		30	Ottawa	**	10
Ottawa		-	Fort Frances	66	10
London		4	Hamilton	66	10
Barrie				66	10
Sandwich		14	Peterborough		11
Sarnia		15	Smith's Falls		11
Windsor		16	Peterborough		16
Welland	* * *	21	Berlin		0
Sault Ste Marie		23	Hamilton		17
Kingston		$^{24}$	Guelph		24
Hamilton		25	Hamilton		26
Galt		25	Toronto	. "	26
Ottawa		27	Hamilton	•	26
Brampton		28	Toronto	66	26
Stratford		28	Kingston	May	27
Berlin	.,	29	London		30
Ottawa		30	Windsor		30
Toronto		1	Smith's Falls	July	3
Kingston		1	Ottawa	6.6	3

#### SEWER EXTENSION.—Continued.

	Dat	e of		Date of
Municipality.	Appr	oval	Municipality.	Approva
Sandwich	July	3	Hamilton	
Stratford		12	Kingston	
Ottawa		17	London	
Hamilton		17	Oakville	
Oshawa		17	Pembroke	. " 26
Windsor		17	Hamilton	
Galt		18	Township of York	
Waterloo	*****	31	Toronto	
Peterborough		. <b>*</b> 3	Pembroke	. 28
Hamilton		3	Englehart	. 40
Ottawa		3	Kingston Brampton	. 50
Township of York  Peterborough		4	*	
Ottawa		5	Galt Berlin	
Arnprior		10	Waterloo	
Kingston		10	Windsor	
New Liskeard		10	Ottawa	_
Smith's Falls		15	Smith's Falls	
Township of York		15	Hamilton	
Ottawa		22	Stratford	
Ottawa		23	Toronto	
Township of York		23	Windsor	
Kingston		24	Galt	
London		24	Port Hope	" 23
Sudbury	Oct.	õ	Port Hope	" 25
Toronto		7	Galt	
Kingston		7	Toronto	
Ottawa		7	Ottawa	
London		7	Toronto	" 28
Hamilton	"	7	Kingston	_ " 28
Township of York		7	Thorold	
Galt		7	Sault Ste. Marie	9
Guelph		7	Township of York	0
Ottawa		9	Sandwich	10
Waterloo		10	Hamilton	" 10 " 12
Arnprior		15 15	Berlin	" 15
Smith's Falls		15	London	" 16
Hamilton		17	Niagara Falls	" 18
Cobalt		20	Township of York	" 22
Hamilton		21	Ottawa	" 24
	New	WATER	SUPPLIES.	
				Doto of
Normal almost the	Date	-		Date of Approval
Municipality.	Appro	23	Municipality.  New Toronto	
Point Edward		28	Toronto	" 15
Whitby			Elmira	" 16
Streetsville Englehart		9	Elmvale	
St. Catharines (Chlorina			Grimsby	
Plant '		15	Port Hope	NT 4
11411			Guelph	
			•	
	WATER	Works	Extensions.	
	Date	of	1	Date of
Municipality.	Appro	_		pproval
Hamilton		14	Sandwich	
Toronto		19	Hamilton	" 13
St. Catharines		22	Guelph	" 30
Orillia		27	Rainy River	" 18
Brockville	Feb.	2	Hamilton	" 19
Toronto		6	Chapleau	" 19
St. Catharines		7	Smith's Falls	" 19

#### WATER WORKS EXTENSIONS .- Continued.

	Date	of		Date	of
Municipalities.	Appro	val	Municipalities.	Appro	val
Hamilton	April	4	Hamilton	.Aug.	17
Peterborough		9	Toronto	"	17
Sandwich		14	Galt	Sept.	3
Hamilton		17	Hamilton		3
Hamilton		20	Toronto		10
Burlington		28	Smith's Falls		15
Windsor		30	Mitchell	Oct.	7
Oshawa		1	Kingston		7
Hanover	4.	5	Leamington		8
Toronto		6	Wingham		15
Hamilton		19	Hamilton		15
Orillia		22	Smith's Falls		15
Burk's Falls		22	Burlington		16
Tottenham		23	Kingston		23
Galt		30	Englehart		29
Hamilton	_	2	Hamilton	1.0	30
Hamilton		10	Penetanguishene		31
Timmins		13	Toronto		4
Toronto		16	Essex		25
Hamilton		17	Woodstock		28
Gravenhurst	**	24	Dunnville	Dec.	2
Carleton Place		26	Toronto	6.6	· 4
Hamilton		26	Thorold		12
Hamilton		26	Fort William	6.6	15
Kingston		17	Fort William	66	23
1111800011		2.1			

#### REPORT RE SAULT STE, MARIE, ONTARIO, WATER SUPPLY

BY ROBERT D. DEFRIES, M.D., D.P.H.

January 26th, 1914.

In accordance with instructions received from the Chief Officer of Health, I proceeded to Sault Ste. Marie on January 9th, 1914, with full laboratory equipment for sanitary examination of water. Suitable quarters for the laboratory were obtained on January 10th and the first samples were collected on January 11th in company with the Medical Officer of Health, Dr. A. S. McCaig.

The City of Sault Ste. Marie receives its water supply from the Tagona Water and Light Company. The present source of supply is from the Canadian Ship Canal, just above the upper gate of the lock, by a wooden pipe line. The usual source of supply is from a canal which runs parallel to the ship canal and which supplies power to the above company and also operates the Pulp and Paper Mill

adjoining. This is usually spoken of as the "Power Canal."

Owing to extensive dredging operations in the bay above the entrance to the Power Canal, the emergency supply from the ship canal has been in use since last August. At present active operations are being carried on at the entrance to this canal and it is understood that extensive dredging will be carried on during the spring, summer and fall. Owing to the frequent discoloration of the water caused by this work the ship canal supply is used. A small sketch is appended, which gives the lay-out of these canals.

Samples of water were examined from the supply of the Algoma Steel Co., whose supply is independent of the city. An enormous quantity of water is required in the various departments of the plant and about 30,000,000 gallons are

PROVINCIAL BOARD OF HEALTH OF ONTARIO SAMPLING STATIONS WATER INVESTIGATION PLAN TO ACCOMPANY SAULT STE MARIE JAN 26 1914

pumped daily. The intake is placed at the west end of the Company's property.

This supply is subject to pollution by two streams.

The first stream after draining a well-populated, non-sewered district passes through the Steel Company's property and empties into the dock slip. The second stream of considerable size, as shown in the photograph, flows into the bay a short distance west of the slip. The territory drained by this stream is also thickly settled. At the mouth of the stream are a half dozen or more shall shacks, all of which are occupied in the summer. In one of these a case of typhoid fever existed for six weeks last fall; all of the excreta from this patient was thrown into the bay. Samples of water from these streams showed marked pollution and seemed to account for the contaminated samples obtained from the taps at the steel plant.

The ship canal and its immediate surroundings are deserted at present, but it is expected that the city's ice supply will be shortly harvested from this canal about one-quarter of a mile above the present intake. In contrast, the power canal is much more subject to pollution. There is a driveway along the north bank and loads of pulp wood are being daily brought in and piled alongside. At the west end of the canal extensive work, already mentioned, is being carried on and about one hundred men, chiefly foreigners, are at present engaged. The surroundings of the power canal are thus far from being all that is desired for a public water supply. In addition, all the water from the sluices (when in operation) which convey the logs from the west end of the canal to the pulp mill is returned to the canal. Samples examined on three occasions from two pipes which carry off the warm overflow from a large tank—172 feet long—in the pulp mill where the logs are sorted showed very marked pollution. The presence of fæces on a few of the logs entering this tank may account for this contamination. Once a day about one-half of this water is run off into the canal.

#### CHLORINATING PLANT.

This consists of two wooden tanks, each of 320 U.S. gallons capacity, and a small tank for primary mixing of the "bleach" and water. The tanks are used alternately, one being ready when the other is empty. The flow of bleach solution is regulated by an adjustable orifice, situated in a porcelain-lined box, and a sixinch head is maintained by a float valve.

The tanks and orifice box are situated at one end of the pumping station at a high elevation and the flow from here is by gravity to the suction pipes at the

opposite end of the station.

The amount of bleach added was thirty pounds (30 lbs.) per day during December and till January 20th, when the amount was increased to 40 lbs. per day. The total pumpage (calculated less slippage) is stated to be 3,500,000

gallons U.S. per day.

The taste of the water, which was the cause of complaint during the fall, seemed not to be due to the amount of bleach used, as this was only 30 lbs. per day, but to irregularity in the method of application. It was admitted that the regulation of the orifice was in more hands than one during the fall. A reorganization of the staff was effected in January and a Mr. Beckstedt was given charge of the chlorinating plant. He has carefully watched the orifice box, and as a result the taste has disappeared. At present the amount of bleach added gives 5 parts available chlorine per million and there is no objectionable taste.

The Company is installing a duplicate orifice box, and this will allow daily cleaning of the orifice and a much more reliable discharge should result. Another cause for the irregularity of application was apparently due to a broken segment of the orifice, thus allowing a more rapid flow than was calculated. The placing of the tanks and orifice box at the opposite end of the building to the pumps gives a very long flow for the bleach solution before reaching the suction pipes, with danger of plugging. It also necessitates the pump man walking the full length of the building and ascending a flight of stairs to make any change in the orifice to correspond to changes in the pumpage.

#### BACTERIOLOGICAL REPORT.

Samples of water were examined from the following sources:

- (a) Ship Canal.
- (b) Power Canal.
- (c) Power Canal at headquarters.
- (d) Steel Plant taps.
- (e) Streams near Steel Plant.
- (f) City Tap.

#### SHIP CANAL.

#### Sample Point No. 1.

Colon Bacilli.

0 = N	legative	e Reaction	n.					$\times =$ Positive Reaction.
Date.	Hour.	Serial Number.	1 c.c.	5 c.c.	25 c.c.	50 c.c.	Bacteria per c.c. 37°C.	Remarks.
Jan. 10.	10.30 11.00 11.40 12.00 2.30	$\frac{1}{2}$					0 0 0 0	Taken through the ice. From suction pipe.
Jan. 13.	3.00 3.30 4.00 4.30 11.00 11.30 12.00	$\begin{array}{c} 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \end{array}$				+	0 0 0 0 0 0	4 4
Jan. 14.	12.30 1.00 5.30 1.30 2.00 2.30 3.00	12 13 14 15 16 17 18				+	0 0 1 0 0	
Jan. 15.	3.45 4.15 11.00 11.30 22.30 3.30	19 20 21 22 23 24 25	=			+	0 0 0 0 0 0	
Jan. 16.	4.30 5.00 3.00 3.50 4.30 5.00 5.30	26 27 28 29 30 31					0 0 0 0 0 0	
Jan. 17.	6.00 10.45 11.50 12.30 1.00 1.30	32 33 34 35 36		_		_	0 0 2 0 0	
Jan. 19.	10.45 $11.10$ $12.30$ $1.00$	37 B 38 39 40		_	+	<del>+</del> -	0 0 0 0	
Jan. 20.	1.20 2.55 3.10 3.30 4.30 4.50 5.10	41 42 43 44 45 46 47					3 0 4 4 0	Broken bottle.
Jan. 21.	5.30 $4.55$ $5.15$	48 49 50	=	=	=	Ξ	0 · 4 0	
Jan. 22.	6.10 $4.30$ $5.30$ $6.00$	51 52 53 54	=		_ _ _	_	0 1 5 0	
		/D-4-1	1	6	1 (1)	: 0	1	F.(*

Number of sample days.....

#### POWER CANAL.

Colon Bacilli.

0 = Negative Reaction.

+ = Positive Reaction.

0-1	icgaure 1								
Date.	Sample Point Number. see map.	Hour.	Serial Number.	1 c.c.	5 c.c.	25 c.c.	50 c.c.	Bacteria per c.c. 37° C.	Remarks.
Jan. 10. Jan. 12.	11 3 2 2 2 2 2 2	11.30 11.30 12.00 2.30 3.00 3.30 4.00	201 B 202 203 204 205 206			+	+ + + + + + + + + + + + + + + + + + + +	2 0 0 0 0 0	Below railroad bridge south bank. North bank.
Jan. 13.	2 2 2 2 2	$\begin{array}{c} 4.30 \\ 11.00 \\ 11.30 \\ 12.00 \\ 12.30 \end{array}$	208 209 210			=	+ +	0 0 0 0	
Jan. 14. Jan. 14.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1.30 2.00 2:30 3.00 3.50	212 213 214 215 216				+	0 0 0 0 0	•
Jan. 15.	2 2 2 2 2	$\begin{array}{c c} 4.30 \\ 4.00 \\ 11.30 \\ 12.30 \\ 12.50 \\ 3.45 \end{array}$	218 219 220 221					0 0 0 0 0	0
Jan., 16.	222222222222222222222222678	$egin{array}{c} 3.00 \\ 4.00 \\ 4.00 \\ 5.00 \\ 3.30 \\ 4.10 \\ \end{array}$	223 224 225 226 227 228	- - - 0 0	+ + +	+ + + + + + + + + + + + + + + + + + + +	+ + + +	0 2 0 0 8 0	Pulp Mill Gate. South side.  Near sluice intake. North end of bridge. Centre of Bridge.
Jan. 17.	7	4.20 4.30 11.10 12.30 1.00 1.30 12.10 12.15	230 231 232 232 233 234 235	0 - - - - -	+ 0 - - + +	+ 0 + + + + + +	+ + + + + + + + + + + + + + + + + + + +	2 0 1 0 0 0	North end of bridge.  North end of bridge. Centre of bridge.
Jan. 18	9 2 3 2 7 8	12.20 11.00 12.30 12.40 12.55 12.00 12.05	0 237 0 238 0 239 0 240 5 241 0 242 5 243		broke	en — — — — — — — — — — — — — — — — — — —	+ + +	3 0 0 0 0	South end. "  North side of Power Canal. South side " North end of bridge. Centre of bridge.
Jan. 20	9 10 2 2 7 8 9 10 8	12.16 12.15 3.00 3.30 3.45 4.05 4.10 4.30	5 245 0 246 0 247 5 248 5 249 6 250 0 251					0 1 0 5 2 0 0 0	South end of bridge. Near dredge on south end of bridge. North end of bridge. Centre of bridge. South end of bridge. ' near dredge. Centre.
Jan. 21	9 7	4.40 4.50 4.50 5.00 5.10 5.12 5.20 5.30	253 254 255 256 256 257 5 258 5 259	- - Em	uent fr		+ 0 + 0 + con Power ewhere + +	0 2 0 0 ver Canal	South end. North end of bridge.  Sluice intake. Near

#### POWER CANAL.

#### Colon Bacilli.

#### + = Positive Reaction.

Da	ite.	Sample Point Number. see map.		Serial Number.	1 c.c.	5 c.c.	25 c.c.	50 e.c.	Bacteria per c.c. 37° C.	Remarks.
Jan.	21.	7	5.40		_	_	_	+	3 spr.	North end of bridge.
_		8 9	$\frac{5.50}{6.00}$	263	_ •	_	_	+	0	South end.
Jan.	. 22.	2 2	$\frac{4.35}{5.00}$		_	_	_	_	0	
		6	5.20	266 267	Wat	er in te	l —	uln m	4 ill given else	Sluice intake.
		4	5.30	268		— ·	—	+ +	5 spr.	Sluice Pond.
		8	5.40 $5.50$		_	_	_	_	2 3 spr.	North end bridge. Centre.
		9	6.00	271	_	_	_	_	4	South end.

#### STEEL PLANT TAP.

Samples taken in Superintendent's office unless stated otherwise.

#### Sample Point No. 12.

#### Colon Bacilli.

0 = Negative Reaction.

1-	=	Р	osi	Th	ve	R	eac	ti	on	Į,
-	_	A.	001	. 01	110	7.0	Cuc	Λī	OL	

Da	te.	Hour.	Serial Number.	1 c.c.	5 e.e.	25 e.c.	50 c.c.	Bacteria per c.c. 37°C.	Remarks.
Jan.	<ul><li>14.</li><li>15.</li></ul>	4.30 11.00 11.30 2.30	802 803 804	_ _ _	=		_ _ +	0 0 0 19 spr. 2	
6 6	16. 17.	4.50 5.15 5.45	808 809				+++++++++++++++++++++++++++++++++++++++	4 0	
6 6	20.	$\begin{array}{c} 3.15 \\ 3.30 \\ 3.50 \end{array}$	814 815 816 817					0 3 2 2 2 4 2 spr	Machine shop.
		4.05 4.15 4.25 4.35 4.55	819 820 821 822		= = = = = = = = = = = = = = = = = = = =		+ + + + + +	0 0 13 0 3 59	Store-room.
		5.05 5.20	823	=	+	<u>+</u>	++	59 3	

Total number	r of samples	21
		14
6.6	sample days	6

### Samples taken at head of gates (from railroad bridge)

North end of	bridge	(Sample	Point	No.	7
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Date.	Hour.	Serial umber.	1 c.c.	5 ec	25 c.c.	50 c.c.	Bacteria per c.c. 37°C.	Remarks.
	4.00 4.30 12.10 12.00 3.45 4.50 5.40 5.40	228 230 235 242 248 254 261 269		+++	+ + -	++++	0 2 0 0 2 2 2 3 spr.	

Total number of	samples	8
6 4	showing pollution	6
6 6	sample days	6

#### Sluice intake (Sample Point No. 6).

Jan. 15		1,003	-	+		+	0	1.
16	.   3.30	227	1 -	+	4	+	8	
'' 21	.   5.05	259		_		_	0	
22	.   5.20	267	_				4	

#### Sluice Pond. (See diagram.) (Sample Point No. 5).

Jan. 21.			_		+	1	2 spr.
'' 22.	5.30	268	-	<u>                                     </u>	_	-	5 spr.

#### Taken from Railroad Bridge.

#### Centre of Bridge (Sample Point No. 8.)

								[	[
Jan.	16.	4.20	229		+	4	+	0	
4.6	17.	12.15	236	_	1	+	+	1	
66	19.	12.15		_				0	
64	20.	3.55	249	_	-	_	_	0	
		4.30	252	<u> </u>				0	
4.6	21.	5.50	262		_		_	5	
6.6	22.	5.50	270	_	_			5	

Total	number	of samples	7
6.6	4.6	showing pollution	2
6.6	4.6	of sample days	

# South End of Bridge. (Sample Points 9 and 10)

Dat	te.	Hour.	Serial Number.	1 c.c.	5 c.c.	25 c.c.	50 c.c.	Bacteria per c.c. 37°C.	Remarks.
Jan.		12.00		_	_	_	-	0	
64	19 \ 20 (	$\frac{12.15}{4.00}$	250	=	_	_	_	0	
44	$rac{20}{20} \left\{  ight.$	$\frac{2.10}{4.40}$	253	_	_	_	=	0	
• 6	21. 22.	$\frac{6.00}{6.00}$			_	_	+	5 4	100

 Total number of samples
 7

 " showing pollution
 1

 " sample days
 4

# Effluent from "Sorting-Vat" in Pulp Mill. (Sample Point 4.)

Date		Hour.	Serial Number.	1/10 c.c.	1 c.c.	5 c.c.	25 cc.	50 e.c.	Bacteria per c.c. 37°C.	Remarks.
			1,001 1,006	+	+ +	+	++	+	980 320	East overflow pipe. West overflow pipe from vat in pulp mill—frozen.
44	21		257 258	++	+++++++++++++++++++++++++++++++++++++++	0	+	++	3,500 Too high to count.	East overflow pipe. Sample from source of above pipe.
66	22	• • • • • •	265	• • • • •	•••••	+	+	+	31	Sample from source of above pipe.

Incubated only 30 hours.

# Streams above Steel Plant Intake. (Sample Points 13, 14, 15.)

Jan. 17	13		811	+-	+	+	+	+	145	1st stream outside Steel Co.'s pro-
*****	14		812	+	+	+	+	+	137	perty. Same stream just as it flows into dock-
	15	• • • • •	813	0	_	+	+	+	15	Second stream— sample through the ice.

Discharge from pumps removing water from excavation at bridge.

Jan. 15		1,002	0	+-	+	+	+	4 spr.	
---------	--	-------	---	----	---	---	---	--------	--

Bacterial counts were made of 1cc. quantities on standard nutrient agar 10 acid to phenolphthalein after being grown for 24 hours at 37° C.

The fermentation tests were made on standard lactose bile. These tests were made from quantities varying from 1/10 cc. to 50 cc. in the following proportions, viz., 1/10 cc., 1 cc., 5 cc., 25 cc., 50 cc. They were incubated for 48 hours at a temperature of 37°-40° c.

One hundred and seventy-three samples from all sources were examined

during the fourteen days the laboratory was in operation.

Table I. gives a summary of the results, showing the number of positive fermentation tests, bacterial counts, the number of sample days and the total number of samples from the location specified.

# SUMMARY. TABLE I.

Dilutions and number of times Colon was found in same.

	1 c.c.	5 c.c.	25 c.c.	50 c.c.	Bacteria present 37°C. 1 c.c.	No. of days examined.	Total samples.
Ship Canal Power Canal North end of bridge Centre of bridge South end Sluice Intake Steel Plant Tap City Tap	1 1 1 1	6 3 2 2 3	2 5	3 26 6 2 1 2 14	8 20 4 4 2 2 13 3	12 12 6 6 6 6 4 6 3	56 68 8 7 7 7 4 21 10

Table II. gives the percentage of samples showing pollution from each location.

TABLE II.

Percentage of samples showing pollution.

	Polluted Samples.	Total Samples.	Percentage showing pollution.
Ship Canal. Power Canal North end of Bridge Centre of Bridge. South end of Bridge Sluice Intake Steel Plant City Tap	3 26 6 2 1 2 14 0	56 68 8 7 7 7 4 21 10	5.3 % 33.2 75.0 28.5 14.2 50.0 66.6

The comparative absence of pollution in samples from the intake in ship canal during the absence of navigation for the period of observation is in contrast to the samples from the power canal.

The necessity for chlorination of the water is apparent when it is realized that the supply is not obtained continuously from the ship canal but occasionally from the power canal, and no notice of such change is given.

In view of these facts and because of the method of administration of the bleach solution, it does not seem advisable in my opinion to reduce the amount now added. This amount, namely 40 lbs. for 3,500,000 U.S. gallons, with proper supervision did not in my opinion give any objectionable taste.

The Company have a second intake from the power canal. This is situated a few hundred feet above the one formerly mentioned and is the old emergency supply in case of an ice jam. There is no provision for chlorinating this supply, but it is stated that there is very little chance of it ever being called into use as long as the ship canal supply is available.

With the opening of navigation, the ship canal supply will be subject to very

grave pollution, as well as the power canal.

A number of photographs will assist in making clear the situation.

All of which is respectfully submitted.

ROBERT D. DEFRIES.

# REPORT RE CHLORINATION OF PORT ARTHUR WATER SUPPLY.

BY A. V. DE LAPORTE, B.A.Sc.

November 24th, 1914.

Sir,—As instructed, I conducted a series of laboratory determinations at Port Arthur to discover the effects of liquid chlorine on the new water supply for that city.

The results of the examination show that the liquid chlorine does not appear to be as effective a disinfectant as the advertisements would lead one to expect. It required 0.5 parts available chlorine per million to ensure sterilization. This is the quantity previously required for the old supply, using bleaching powder.

The Port Arthur apparatus was supplied by the Leavitt-Jackson Company of New York, and was designed for a pumping installation delivering a constant amount of water. This is not the case at Port Arthur, and it seems almost impossible to ensure safety without frequently causing disagreeable taste in the water supply.

The pumps are centrifugal pumps and operate normally at the rate of about 2,500,000 gallons per day. A variation of 500 gallons per minute frequently takes place in a period of ten minutes almost any hour of the day. The rate of pumpage is approximately 1,500 gallons per minute at night and 1,750 gallons per minute during the day. The exceptional rate in the morning is about 2,000 gallons per minute.

Chlorine gas is very corrosive. The apparatus at Port Arthur gave considerable trouble both on account of escape of gas and due to improper administration of gas. The apparatus, which had been set up one month, had a needle point \*valve so badly corroded that when set to deliver apparently 0.4 parts it was in reality delivering 5.0 parts. The water became unfit for use before the trouble was observed. The loss of weights was then determined by weighing the condenser and the rate of feed calculated. On this occasion the valve permitted the escape of over 90 lbs. into the mains in 24 hours. This naturally caused considerable annoyance to the City Engineer owing to the complaints of water-users throughout the city.

When the mechanical parts of the apparatus are perfected I would recommend the use of 0.4 parts per million. It is doubtful, however, if this quantity will be

<sup>\*</sup>Corrosion takes place due to the back pressure forcing water to the valve; usually this is due to a faulty check valve; the pure gas does not corrode.

sufficient for the very turbid water which has been shown to exist on several occasions.

In this connection I would recommend that the apparatus for addition of the chlorine be set to deliver 0.4 parts per million for a daily pumpage of 2,800,000. The average pumpage per day was ascertained to be 2,448,000, the maximum being about 2,800,000 and the minimum about 2,260,000 gallons per day, by using this dosage, the maximum quantity delivered amounts to 0.5 parts per million.

A. V. DE LAPORTE. Chemist-in-Charge of Experimental Station.

# REPORT RE NUISANCE AT THE PUMPING STATION (8th LINE) OAKVILLE

SIR,—This pumping station and overflow was inspected February 25th, 1914. This station is at present entirely underground, only two man-hole covers being visible at the surface. These are placed slightly above the surface, probably about eight inches, on the grade of the street which is surveyed for the water front. This street at present crosses through the lawn of Mr. Wood's residence; it has not been opened up nor is it used at the present time, but in event of its construction the levels of the man-hole covers appear to be correct.

There was no odor whatever around the pumping station; in my opinion, it is not possible that there should be any odor which could be classified as a nuisance. There would not be more odor about the man-hole over the sewage tank than is present in connection with any man-hole throughout the system. The gas vent in the man-hole cover is very small and absolutely prohibits much circulation of the gases into the air. The two vents which are placed on a pole on the side of the street cannot possibly give rise to odor; they merely ventilate the pump chamber, which is entirely separate from the well where the sewage is confined. The only odor in the pump chamber itself is due to the oil which is used in oiling the bearings of the motor and pump.

The real difficulty is in the overflow pipe, which unfortunately has been connected directly with the sewer, and when for any reason the pumps are not operating permits the by pass of all gross floating matter in the sewage. This overflow should properly be connected with the storage well so that in event of its use

only a clear effluent would find its way to the lake.

The pumping system itself seems to be very adequate for the service required of it. Pumps and motors are both in duplicate, either one having a capacity in excess of the duty which it is required to perform. The pump attendant, Mr. McLaren, reports that at this time of year the pumps do not operate more than probably once a day; in the summer, he is of the opinion that they operate only twice a day. He also reported that, in event of the pumps not operating at the proper time, the sewage would not back up into the sanitary conveniences and sinks in the neighborhood, owing to a very long stretch of pipe and the high position in which all the traps are placed.

It is difficult to determine just what the maximum interruption of electric current would be, but in view of the fact that they are on the main transmission line of the Hydro-Electric, it does not seem at all probable that any interruption would occur for more than a 12-hour period. The transmission company has, of course, made every provision for taking care of interruptions.

It is a question whether an extra stand-by tank might not be recommended for this place. Personally I am of the opinion that the system as installed is quite adequate and that the construction of an extra tank would not be of any material advantage. I learned from the chairman of the Sewerage Commission and from the Board of Health Inspector, Mr. McLaren, that Mr. Wood's residence has sewerage connection with a septic tank. This is possibly one of the reasons why he deemed it unnecessary to place a sewer in his vicinity. I would certainly recommend that the pumping station as it exists be approved of, with possibly the proviso that if conditions arise to cause the well to overflow frequently, the extra stand-by tank be guaranteed by the town.

While in Oakville, I took occasion to look over the other pumping station (I think it is on the first line) and over their disposal works. The tanks and system constructed by Mr. Murray's engineer appear to be operating very well. The chlorinating device does not seem quite adequate. They were administering the chlorine by a strong solution, adding a continuous drop into the sewage effluent channel from the tank. The channel was about 12 inches wide and about 8 feet long, giving the solution an opportunity to mix. I do not think mixture is possible with a strong solution dropping in such fashion into this channel. I recommended to their operator the use of a more diluted solution and to run his orifice faster.

# BELLEVILLE.

April 23, 1914.

SIR,—Visited Belleville as directed, April 23rd. I beg to report in connection with their water situation, which Mayor Wills had me examine into, that I am of the opinion that the use of Swick's Island for purposes of locating infiltration gallery thereon is not at all advisable. The formation at the Island is a coarse gravel containing considerable fine material and some clay. There would be considerable loss of head in filtering water through such a form-The available head is probably not more than seven feet. Further--from the topography of the Island heavy excavations would be required to construct such beds and on which account the cost of construction would be considerable. A pipe line would have to be constructed to convey this water from the island through the bay to the present pumping station. The situation is one which could, in my opinion, be readily handled by means of a mechanical filter plant located in the vicinity of the present pumping house arranged with a suitable storage reservoir cross-connected to the pump suctions to provide for fire underwriters' requirements. I think the pressure type of filter would probably give the most satisfactory results for this installation on account of the amount of organic matter in suspension in this water and the lack of any considerable amount of infectious material in the raw water. In connection with such a plant it would be advisable to construct a more adequate receiving well with screens conveniently arranged so that the greater part of the coarse suspended matter, floating sticks, weeds, etc., might be withheld from the filters.

#### SEWERAGE.

In connection with some paving which was to be done on Front Street between Dundas and Foundry Streets, my opinion was asked as to whether the existing sewers on that street would be adequate for future requirements. I am of the opinion that the sewers shown to exist on these streets 7 B.H.

would be adequate only for the sanitary sewerage of the district which will ultimately feed it and a provision must be made in addition for storm water. I have discussed this matter with the City Engineer, Mr. Evans, and we are of the opinion that probably two shallow drains on either side of the Street connected with the sewer at Bridge Street or one main storm drain would fulfill the requirements economically. Due provision being made for taking care of the flood water that will be received from Victoria Avenue and Bridge Street in event of these Streets being paved in the future. A question was raised in connection with the sanitary sewer on Front Street as to whether the grades were properly maintained and as to whether it is now in a proper sanitary condition. I advised the Mayor that in this connection he would do well to leave the whole matter to his Engineer, Mr. Evans, to take the necessary levels of the various man-holes, so as to determine whether the original grades as shown by the plans in their possession had been observed. This can be readily done. The present condition of the sewer can also be reported upon by their City Engineer, who is fully competent so to do. From conversation with Mr. Evans and the Surveyor of Roads, Mr. Henderson, it would appear that the bottom of the man-hole at the inter-section of Bridge and Front Streets had dropped. It is quite possible that the difference of opinion arising in connection with that portion of the sewer has arisen from this fact. If this is the case the matter can easily be rectified by reconstructing the lower portion of the man-hole. From the original plans it would appear that proper grades have been provided for the sewer on Front Street. The general sewerage scheme of Belleville has, in my opinion, been rather neglected in past years. The fyles on record in the City Hall are most incomplete, it being very difficult to determine just what sewers have been laid and the present grades and elevations. I should urge upon Belleville the advisability of instructing their Engineer to prepare a topographical map of the City and lay out thereon such information as exists in connection with the sewerage system and to make the necessary surveys to complete his information. It appears from what information I have that the system as laid out is entirely a sanitary system and in view of this the By-law in relation to the separation of the roof water from the main house drain should be enforced so that in laying storm water drains for future pavement construction it would not be a difficult matter to take most of this water and connect it with the storm drains instead of over-burdening the sanitary sewers. The portion of the City on the west side of the River has not been sewered, with the exception of several private drains which give rise to some nuisance in the summer by emptying through old rubble drains intended to take care of the surface, drainage.

I am convinced that the reason that the water-works has not been supporting itself, and even yielding a revenue, is due to the fact that sufficient sewerage has not been provided to take care of the discharges from modern sanitary conveniences. The Waterworks Department reported that there were only some 2,308 services, and this is a very low number for a city the size of Belleville. I think the finances of the waterworks should be examined into to see whether a readjustment of the rates or the installing of meters could not change their revenue for the better. It is to be observed that while the total tax rate has increased during the last ten years from 23 mills to 26 mills the general rate including local improvements has decreased from 19 7/10 in 1900 to 16 mills in 1913.

# GODERICH WATER SUPPLY.

June 27th, 1914.

SIR:-

A visit was made to Goderich, on request of Dr. McNally, to examine into the present condition of the water works system with special reference to the measures that should be taken on account of the frequent occurrence of pollution of the

water supply.

The water supply is taken from Lake Huron by means of a 12-inch intake which extends some 900 feet out into the water from the shore. The intake pipe is about 1,400 feet long altogether. The conditions of the intake have never been ideal owing to the fact that to the north the Maitland River and the waters of the harbor discharge, and to the south about a mile and a quarter distant they have an outlet for the sewerage system, which enters the lake at this point with-

out treatment of any kind.

The new works now under construction, by the Department of Public Works, Canada, upon the harbor improvement consists mainly of erecting breakwaters to make this a port of refuge in time of storm. These works upon their completion will restrain the normal movements of the harbor water and place the existing intake in a very bad position, and one in which it will be subject to very considerable contamination, mainly from boats. The water will also be practically turbid owing partly to the condition of the water there normally due to the wave action and the Maitland River, and to the mud stirred up by the boats manoeuvring within this breakwater.

The Department of Public Works, through Mr. J. J. Sing, District Engineer,

have very kindly furnished us with a plan of their proposed breakwater.

At the time of my visit the Hydro-Electric Commission were considering the advisability of installing electric units to supplant the existing steam plant used for pumping water through the city mains. Upon request the Hydro Commission have furnished us with drawings and specifications and a report upon this work. This report indicates that the installation proposed by the Commission is of considerably smaller capacity than the existing works, although double the capacity required for the domestic requirements for 24 hours. The capacity of the electrically driven pumps is less than one-half that required by the Fire Underwriters, and about one-third of the present maximum pumping capacity.

In the report of the Hydro Commission mention is made of the present condition of the intake. I find upon examination that a 7 ft. drop in the level of the suction well over that existing in the lake would only permit approximately 2,000,000 gallons per 24 hours passing through the intake. I am not aware whether a greater difference in level than this is permissible, since it creates a

suction lift of about 22 feet.

The following is recommended:

1.—A chlorination system to treat the raw lake water be immediately installed, to add a quantity of bleaching powder (Hypochloride of lime) ranging between 1 to .75 parts per million of available chlorine to the water before it

enters the existing sedimentation basin.

2.—Plans and estimates be prepared for a new intake for the water works system of the said town, which intake shall not be less than 20 inches in diameter and carried to a point beyond the south end of the existing south-west breakwater, and that the said plans and estimates be filed with the Board within a period of 60 days.

3.—That plans and estimates be prepared at an early date for laying an additional force main from the pumping station to the centre of the distributing system in the above Municipality.

There is no question but that with the present conditions existing at the intake that Goderich is liable at any moment to be affected by a serious epidemic of "water-borne" disease. The chlorination plant is most advisable.

# REPORT Re WASTES FROM THE WOOLEN MILL AT MITCHELL, ONT.

May 19, 1914.

SIR:-

I have inquired into situation resulting from the discharge of the waste liquors from the woolen mills at Mitchell in the River Thames, and beg to report that as a result of such discharge a nuisance exists in the vicinity of the Mitchell Woolen Mills.

There are two types of wastes at present being discharged. One is the waste dye liquors, which at the present time amount to 1,916 gallons per day; this liquor contains a large amount of colouring matter, which creates a visual nuisance in the immediate vicinity of the mill but disappears upon dilution farther down the stream. The other is the waste from the rinsing machines and is a soap solution containing considerable amount of oils and grease coming from the wool, which is scoured and rinsed before being dyed; this waste amounts to 1,815 gallons per day. The grease from the rinsing operations is quite buoyant and deposits in the river along the sides of the stream, creating upon decomposition in the warm weather a very objectionable odor and a rather unsightly appearance in the immediate vicinity of the mill.

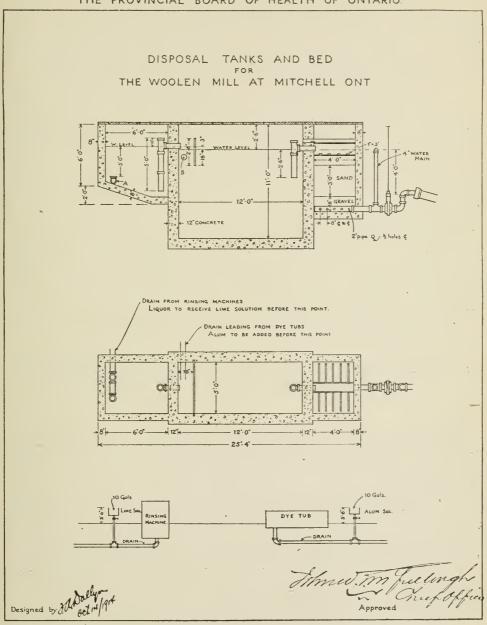
#### TREATMENT ADVISED.

The removal of grease and fatty acid present in the liquors from the rinsing machine may be accomplished by adding excess lime and cooling the solution. The lime reacts with the fatty acid present to form a calcium solution which is light and rises as a curd. To remove this curd, the liquor after receiving the lime solution is led to a chamber arranged as a grease-trap from whence it overflows to the sedimentation chamber proper, as indicated in the drawing accompanying this report. The liquor entering the second chamber should be sufficiently alkaline so that, after reacting with the acid dye liquors, the contents of the tank remain perceptibly alkaline.

Decolourization of the dye wastes can be accomplished in two ways: by dilution, which can be effected by combining the liquors from the mill in one tank and holding it for a number of hours, or more preferably by adding a coagulant such as alum to the acid dye liquid and making same alkaline by the addition of the liquors from the rinsing machines. A considerable precipitation of Aluminium Hydrate is thus brought about; the Aluminium Hydrate absorbs practically all the colour present and upon sedimenting leaves a fairly clear liquor. To effect this the alum should be fed to the drain pipe leading away from the dye tub (as indicated in the sketch) and the liquors then led into a sedimentation tank which also receives the alkaline liquors from the rinsing machines.

The overflow from the sedimentation tank proper which contains the combined wastes from the mills can then be led through tile placed in a plot of ground and laid in rows about 40 feet long and with 14 inches of surface on top; possibly about 480 feet of 4-inch tile would be sufficient.

#### THE PROVINCIAL BOARD OF HEALTH OF ONTARIO.



If it is more convenient and the necessary grade cannot be obtained from the tile area to the river, an artificially constructed filter might be made by placing a collecting system in the base of a concrete chamber (2-inch pipe arranged 8 inches apart into a 6-inch header with ½-inch holes bored in the 2-inch arms about 8 inches apart). On top of this should be placed about 18 inches of gravel which should be covered by 3 feet of coarse sand; ordinary sand will not do for this purpose but can be used if thoroughly washed in some apparatus which carries off the finer sand; a sand being of an effective size of .4 millimeters is suitable.

The effluent from the tank is fed to the bed through a wooden trough having openings, I inch by 3 inches, placed along the side on the bottom. By carrying this trough up and putting in a false bottom two feet from the surface of the sand, it can also be used for carrying off the wash water in back-washing the artificial filter. In order to effect this back-washing the trough collecting the wash water should be high enough so that the wash water liquor can run back into the sedimentation tank, raising its level possibly eight inches for the wash, the treatment works remaining idle for not less than fifteen minutes before being put in use again in order to allow the greater portion of this material to settle in the sedimentation tank.

It is quite possible that the filter, either when constructed by means of tile or the artificial one, will not be a necessary part of the installation. By using a large tank such as outlined in the sketch, the liquor may be so cleared as not to require this. The construction of the concrete tank to contain a filter is, however, advisable so that in the event of the liquors not being sufficiently clear the filter may be completed and operated as outlined.

It is rather difficult to estimate the cost of this work, but I believe it can be

done for something in the neighborhood of \$300.

# MEMORANDUM Re TOWN OF COBALT INTERCEPTING SEWER ALONG WESTERLY SHORE OF COBALT LAKE

October 13th, 1914.

SIR:-

Examination was made of the route of the proposed sewer together with position of the outlet and conditions surrounding it, on October 12th, in company with Mr. Code, Town Engineer. After going over the matter carefully I would recommend:

- (1) That this intercepting sewer be continued from Lang Street to the flats in J. B. 4, and the Chambers-Ferland Mining properties in the north limits of the town.
- (2) That a sedimentation tank of not less than 3,000 cubic feet capacity and of a depth not less than five feet (5 feet) below water level be constructed.

To me it appears advisable that the intercepting sewer be constructed on the west side of the T. & N. O. station on account of the very bad conditions existing between the tracks and Cobalt Lake at this point.

I had a conversation with Mr. Gordon, Superintendent of the Cobalt Lake Mining Company, who informed me that the intention of the company in lowering the lake was to pump the water through a wooden pipe to a point opposite the culvert under the T. & N. O. Railway into the above mentioned flats. In consequence of this the sewage would not be diluted at Lang Street, as it now is, and the presence of undiluted sewage in the ditch which at present carries off this water would not be without its menace, as it is just below a row of cottages in-

habited by the poorer class who are usually careless or unable to afford protection against flies and other insects which would breed along this ditch. The continuance of the sewer to the flats is therefore necessary.

At the flats the sewage and the water from Cobalt Lake and from the mills will not readily mix, owing to the outlets being some hundred feet apart; consequently, the tank is recommended to prevent any visible nuisance on the flat land at this point.

I went over these suggestions with Mr. Code in some detail and he agrees with

me and will be glad to see these works carried out as suggested.

# CREDIT RIVER—POLLUTION BY THE BARBER PAPER MILLS AT GEORGETOWN.

A. V. DE LAPORTE, B.A.Sc.

May 6th, 1914.

SIR,—I have examined the waste liquors from the Barber Paper and Coating Mills, at Georgetown, and beg to report that any one of the waste liquors, namely:

(1) The wash water from the beaters,

(2) The waste from the paper machines,

(3) The soda liquors from the pulp mill,

would, if turned into the stream, be a serious source of nuisance. I would suggest for your consideration the following methods of treatment:

The Wash Water from the Beaters.—This contains about 0.3 parts per M. of available chlorine and a considerable amount of fibre. It would be profitable to sediment this liquor and recover at least part of the fibre. The effluent from the sedimentation tanks could be turned into the river.

The Water from the Paper Machines.—This contains fibre, kaolin, sizing, etc. This should be collected and either treated with or similar to the wash water from the beaters.

The Soda Liquors from the Pulp Mill.—This is roughly a deci-normal soda solution containing resin and gum. Evaporation to recover the soda would require expensive apparatus and would be somewhat costly, as the accompanying estimate will show. A better way would be to dilute with the effluent from the sedimentation tanks for the other wastes and gradually run it into the river, trusting to the dilution to render it inocuous. A drawback to this latter method is that if the pulp mill were to be enlarged, the quantity of soda liquor would naturally increase and it may be impossible to obtain the dilution necessary. It appears, in my opinion, advisable to distribute this waste on land and allow the soil to neutralize the harmful matters therein.

The treatment of the waste from the paper machines and beaters during the manufacture of a colored paper would probably be best effected by distribution on the land, or through an artificially constructed filter. The land method is, in my opinion, the simplest.

Calculation of the probable profit or loss for the evaporation of the soda liquors from the Barber Paper and Coating Mills:

EXPENDITURES.	REVENUE
Interest on Expenditures, 6 per cent of \$2,000 \$ 120 00 Depreciation (10 per cent.)	Received from recovered soda ash —17 boilers per week—200 lbs. 58 per cent. soda per boiler— 88 tons per annum, at \$15 per ton

This calculation does not allow for wages nor repairs. It appears that with soda ash at its present price (\$15.00 per ton) it would be practically impossible to evaporate at a profit the waste liquor from the pulp mill.

#### APPENDIX.

February 26th, 1915.

SIR,—In further reference to the matter of the pollution of the Credit River by the Barber Paper Mills at Georgetown, I beg to report that after notification from Mr. Copping that the recommendations of the report of May, 1914, had been carried out, I visited the works in company with Mr. Dallyn for the purpose of examining the apparatus installed. I beg to advise you that the suggestions contained in the report of May, 1914, had been carried out in full.

The alkali liquors carry resin, lignin from the pulp mill, the wash water and bleach liquors, are now being pumped to a basin and spread on the land by means of porous tile piping. The sedimentation tank has been installed for the water from the paper machines, so that no water carrying any matter which was offensive was reaching the river.

At the time of the visit, however, the sedimentation tank had not been cleaned for some time, and it had filled with kaolin and fibre to such an extent that no sedimentation was taking place at that time, and the effluent was carrying to the river large amounts of kaolin and fibre. Approximately 400 lbs. of fibre and 300 lbs. of clay were being discharged into the river daily. The clay sediments readily, but the fibre is carried by the current, and a microscopic examination of the solids in the water at Norval revealed fibre at that point in the river. The improper management of the sedimentation tank is responsible for the escape of this valuable material to the river.

It is recommended that the mills be instructed to operate the settling tanks in a proper manner.

Appended are the results of chemical examination of specimens of river water at Georgetown and Norval, and of sample of waste water from the Barber Paper Mills.

# RESULTS OF ANALYSIS (In parts per million)

	Samples from the		
Substance.	Georgetown. River water, —miles below mill.	Norval. River water, — miles below mill.	Waste from the Paper Mill.
		\	]
SO <sub>2</sub>	0.8	8.8	124.8
Al <sub>2</sub> O <sub>3</sub>	5.4	1.9	152.7
$\operatorname{Fe}_{2}^{\circ} \operatorname{O}_{3}^{\circ} \ldots \ldots$		0.3	30.9
CaO	101.6	75.4	220.0
SO <sub>3</sub>	111.2	19.2	
C1	14.28	6.1	27.1
Total solids	394.6	278.0	1,311.0
Loss on ignition	118.6	108.0	569.0
Left on ignition	276.0	170.0	742.0
Wood Fibre		traces	397.0

The suspended solids in the river samples examined microscopically. In the waste water, the suspended matter was dried, Gooch crucible, and weighed, extracted with ammoniacal Cuprus hydroxide and washed, dried and weighed, and the difference recorded as wood fibre.

A. V. DE LAPORTE, Chemist-in-Charge of Experimental Station.

All of which is respectfully submitted.

F. A. DALLYN,
Provincial Sanitary Engineer.

# REPORT OF THE LABORATORY OF THE PROVINCIAL BOARD OF HEALTH, 1914.

To the Chairman and Members of the Provincial Board of Health:

GENTLEMEN:—I have the honour to submit to you the following report of the work done in the laboratories of the Board at Toronto.

During the year, 8,528 specimens have been received and examined. During the same period, 4,123 doses of anti-typhoid vaccine have been distributed to the physicians of the Province for use among the civil population and 132,427 doses for the inoculation of our Canadian troops.

The outfits supplied for the collection of specimens are becoming more generally used. During the year 11,055 have been distributed to practitioners throughout the Province.

The Department of Chemistry, under Mr. Lancaster, has recently undertaken the analysis of certain commercial materials that are being supplied to the Government. The value of this is very apparent; contractors will have to live up to contracts, and those who innocently or otherwise endeavour to market a fake can be readily dealt with.

In the following table will be found a synopsis of the activities of the laboratory.

Diphtheria Swabs	3,473
Positive       365         Negative       920	
Diagnosis	
Positive	
Tuberculous Sputa Positive	1,866
Bloods Suspected of Typhoid  Positive Widal	861
Cases given the Pasteur Preventive Vaccine because of exposure to Rabies  Number of Injections Given	39 688
Numbers of animal brains examined for evidence of Rabies  Negri Bodies Present	58
Milk Analyses done for Local Boards of Health       62         Fats       62         Total Solids       6         Preservatives       55         Present       0         Absent       55	119
Absent 55 Tubercle Bacilli 4  Present 0 Absent 4  Bacteriological Count 46	

Water Analyses made  Bacteriological 1,621 Chemical 97	1,718
Liquors for the License Department Miscellaneous Specimens	334 60
Doses of Anti-typhoid Vaccine sent out for civil use	

The use of special outfits for the collection and sending of specimens has undoubtedly been one factor in increasing the number of specimens received during the last two years. Also, every year a few more practitioners are added to the number who find help in certain cases of difficult diagnosis by the laboratory methods which are at their disposal.

The majority of the specimens now arrive in our own containers. This is advantageous to both the physician and the analyst; and eliminates the danger of infection to those handling the mail. Some of those who use the laboratory unfortunately do not like to break away from the old crude and dangerous method of sending samples. Many efforts have been put forward in an attempt to convert such individuals. After trying notification by postal card and letter, we found that the most satisfactory way of bringing the matter to their attention was the mailing of a sample box containing a specimen of each outfit used. A number of such sample boxes have been sent out during the year and in almost every case we have received an order for a further supply.

# Anti-typhoid Vaccine.

The manufacture of this product was made a routine measure in the summer of 1912. Since then there has been a constant demand for it. We, however, feel that practitioners have not yet come to realize its wonderful value as a prophylactic for typhoid fever. There is the objection that the immunized may be incapacitated for a day or two due to the local and general reaction. But what is this compared to the protracted sickness of the disease they are protected against? Such uniformly good results have been obtained from its use in the large armies of the world that its efficacy can no longer be doubted. Whenever an individual or the people of a community are seriously exposed to typhoid infection the prophylactic inoculation should be urged most vigorously.

For instance, when a member of a family is found to be suffering with enteric, the other members and any exposed should be immediately inoculated. If this were done secondary cases would be almost unheard of. That which is advised for the family should be advised for the community when there is any danger of epidemic typhoid. The inhabitants of a village, town or city could be immunized with little difficulty.

I am glad to say that already we have received some very encouraging reports of its use in civil life. In one instance the vaccine was used to immunize the members of five different families in which typhoid existed. In several of

the families secondary cases had developed. After inoculation no further cases occurred. The results were so satisfactory that this physician at present always inoculates the healthy members of a family when typhoid fever exists in the home. As a result, no secondary cases have developed, a most unusual thing, as many of the cases were amongst poor, dirty and ignorant people.

Recently a questionaire was sent to the physicians in the Province who had used our typhoid vaccine, asking for a concise statement as to how it had been employed and the results obtained. Only a few replied, but these are so encourag-

ing and satisfactory, that brief reference must be made to them.

In one town, 500 people were vaccinated during a severe epidemic of typhoid. Among the inoculated, one developed typhoid in the period between the first and second injections. The disease was of very mild type. This is quite in harmony with our previous experience. In fact, a number of observers have noticed that when the disease does follow complete or incomplete inoculation it is almost always very mild in type. Another interesting point is that the vaccine can be safely employed during the course of an epidemic. Undoubtedly quite a few people received the treatment after they had become infected (during the incubation period) yet in only one out of five hundred did the disease develop. In many the disease must have been aborted.

In another case typhoid broke out in a lumber camp, where sanitary conditions were not good. One hundred and forty men volunteered for inoculation. In none of these did typhoid fever develop. Cases continued to crop up among the uninoculated. Another physician states that last year was the first in ten years that the camp had been free from enteric. This he attributes largely to the use of anti-typhoid vaccine. Such cases as these can readily be multiplied.

In a provincial hospital the vaccine was given to a number of nurses who desired to be immunized. A few days after the second inoculation one of these came down with typhoid. The infection had undoubtedly occurred previous to the inoculations. This was as other such cases, of mild type. Another nurse, uninoculated, came down with a very typical case at the same time.

Numbers of children have been inoculated with no ill effects. In fact, the vaccine seems to be borne better by them than by adults.

At present, we have records of about 2,000 people who have been immunized. At the time of writing none of this number has developed typhoid from an infection occurring subsequent to inoculation. Besides the two cases previously mentioned, we have record of a third individual who developed the disease a few days before the last injection. His also was a very mild case, "the fever lasting only eight days."

During the year 4,123 doses have been distributed in the Province for use among the civil population.

Considering this subject one of great importance and desiring to obtain as much information upon it as possible, we addressed a circular letter to all the Secretaries of the State Boards of Health in the United States. Information was asked as to whether the vaccine was being distributed in the State, whether given free, for how many years and with what results. Of fifty State Boards written to, thirty-six replied. Of these fifteen have not attempted anything along this line; of the remaining twenty-one, fourteen supply the vaccine free to any physicians in the State, five give the vaccine free only to indigents, the remaining two Boards sell to the physicians at wholesale prices.

It is interesting to note that the Provincial Board of Health of Ontario was, as far as records show, the third Board of Health on the continent to distribute anti-typhoid vaccine free to the people whose health they protect. In all the States where the vaccine has been used excellent results have been obtained in preventing typhoid. Those States that have not yet taken up this work have failed to do so generally through lack of appropriation.

At the outbreak of the present war the laboratory offered to provide antityphoid vaccine for the Canadian Army. The offer being accepted, preparation was immediately made for the production of vaccine on a large scale.

# Method of Preparing Vaccine.

The typhoid strain used was the famous Netley strain obtained by the writer from Professor Leishman, of the Royal Army Medical School, London, in 1912. This strain is now being used to produce vaccine for the British, American and Canadian armies. The organism is non-virulent, but produces large amounts of antibodies, more than most virulent strains.

The first step is to make quite sure that the strain is free from contamination. This is accomplished by inoculating lactose, mannite and glucose. The last two sugars are fermented with acid production, the lactose is not altered. The organism must be Gram negative and motile. The odor produced when growing in bouillon is very characteristic. From a pure culture agar slants are inoculated and incubated for 18 hours. The growth is now washed off with sterile broth, and the suspension poured into a two-litre flask containing 500 c.c. of veal broth plus 10 to phenolphthalein. A small quantity of broth in a large flask should be used, the more aerobic the conditions the better the growth. The flasks are now incubated at 37° C. for 48 hours. When conditions have been favourable a well marked pellicle forms on the surface and a sediment below. For a few weeks we experienced great difficulty in obtaining a good growth, the reason for this could not be accounted for. By the use of an 18 hour agar slant for inoculating the flasks a gain of 24 hours is made over the old methods of using a 48 hour broth culture. Also, a large number of organisms is used in the primary inoculation which is advantageous when rapidity in production counts. After incubation the culture is shaken as well as possible and a few cubic centimeters removed with a sterile pipette.

The flasks are now immersed in a water bath and the temperature raised to 54° C. This temperature is maintained for 11/4 hours. The flasks are now removed and 25 c.c. plated out in agar to determine the nature of the surviving organisms. The temperature never destroys all the typhoid bacilli. Many hundreds per c.c. are still viable. However, the tri-cresol .35% which is added after cooling destroys the survivors. Purity tests are made before and after heating. A gram stain is also made. Guinea-pig inoculations are made when possible. By these methods contamination can always be detected.

## Standardization.

Both the Wright method and Harrison's modification of the same have been used, but neither was satisfactory. The count is undoubtedly underestimated, and as a result the reactions were frequently severe.

Before distributing, the vaccine is diluted with 0.4% tri-cresol in normal saline.

# Standard Strengths.

Three standard strengths are always kept on hand. The weakest contains 250 million bacilli, per c.c.; the next strength contains 500 million per c.c.; the strongest contains 1,000 per c.c.

The demands from the military depots being large, the vaccine was sent in 25 c.c., 50 c.c. and 75 c.c. bottles with Wright rubber caps attached.

When possible, the vaccine was kept for two weeks before using, which lessens the severity of the reaction.

## Inoculation.

This was made, either in the subcutaneous tissue of the forearm or in the space immediately below the clavicle. The patient is always advised to remain at rest during the next twenty-four hours. The vaccine should never be taken when the person is fatigued, since a severe reaction may occur. Alcohol must be abstained from during this time.

# Dosage.

This has recently been altered to prevent, if possible, severe reaction, which would have a tendency to frighten those intending to be immunized.

## Dose.

The dose now commonly used is:-

1st	injection	 250 million.
		 500 million.
3rd	injection	 500 million.

These injections should be given from five to ten days apart. At present, no law can be laid down as to the most suitable dose to employ. No one knows the smallest dose which when taken will produce satisfactory immunity. We do know, however, that the dosage at present employed has given eminently satisfactory results. To materially alter this dosage in order to avoid occasional severe local reactions would be folly, unless done merely in the nature of an experiment.

The immediate results of inoculation have been most satisfactory; no infections have occurred at the sites of inoculation; the more severe types of general reaction always passed away without leaving trace of permanent injury.

Destination of Vaccine. The vaccine has been shipped to the various Provinces throughout Canada, as follows:—

Quebec	60,400
Ontario	45,261
British Columbia	10,750
Nova Scotia	7,391
Alberta	6,000
Manitoba	1,000
New Brunswick	495
Prince Edward Island	130
A supply of 1,000 doses was also sent to-Newfound-	
land	1,000
<del></del>	

132.427

Rabies.

This disease is, unfortunately, still present in this Province, and judging from the numbers of animals' heads sent to the laboratory for examination, the prevalence of the disease has not been diminished very materially during the past year.

During the year 1912-13, fifty suspected dogs' heads were examined of which twenty showed the presence of Negri bodies. In 1913-14, fifty-eight heads

were examined, twenty-two of which were found to be positive.

The heads of suspected animals have arrived at this laboratory in a much better condition than in former years. This is the direct result of our continued appeals to the profession and incidentally to the general public not to shoot the animal through the head, thereby destroying the brain; and also our request that ice should be used in the packing of the heads, especially when shipping in hot weather.

Another unfortunate habit is satisfactorily disappearing, namely, that of destroying a dog immediately it has bitten anyone, and sending the head to the Laboratory for examination.

When a dog has acted strangely and rabies is suspected, the animal should be securely tied, and carefully watched for ten days. If the animal has rabies, the symptoms will develop during this time, and the clinical picture be so unmistakable that a post-mortem examination of the head will rarely be necessary.

If, however, during this period the dog remains normal, the possibility of rabies can be definitely dismissed, and those bitten previous to this period of quarantine need not take the Pasteur treatment.

## Pasteur Treatment.

For more than a year this treatment has been obtained from the Department of Hygiene of Toronto University. The results have been in every way most satisfactory. The treatment has been given to thirty-nine patients during the year. A number of patients who took the treatment have not been bitten or injured by a known rabic animal, but due to uncertainty about the animal concerned have submitted themselves for treatment rather than take any risks.

The uncertainty has generally been caused by the fact that the animal concerned was destroyed immediately after the biting occurred, which prevented the discovery of suspicious symptoms in the dog which might have developed subsequently, had the animal been quarantined. When upon examination no Negri bodies are found in the brain cells, symptoms shown by the dog previous to death are all the evidence which remains to determine whether or not rabies had existed. As a result, the person or persons bitten do not know whether their injuries were inflicted by a rabic animal or not and consequently treatment is taken. Thus many persons have taken the Pasteur treatment when bitten only by a playful dog.

# Treatment of Suspicious Dogs.

Too much emphasis cannot be placed upon the importance of bringing a suspicious animal under observation for a period of at least ten days, especially if such animal has bitten any person or animal.

# Wounds of Patients.

The wounds of many patients applying for treatment have not been satisfactorily cauterized, in many cases no attempt has been made at cauterization or any preliminary treatment. It should be remembered that commercial nitric acid is superior to almost any other agent in such cases. Care should be taken to see that the acid penetrates to the depths of the wound.

# Laboratory Examination for Diphtheria.

The large increase in the number of diphtheria swabs examined by this laboratory is due to the outbreaks of the disease occurring in the latter months of the year and in part also to the increased interest taken by the profession in the early detection and the prevention of carriers in public institutions.

Realizing the very great importance of a quick diagnosis of the disease, direct smears are being made from the swabs sent in for diagnosis. This, unfortunately, can only be done in a limited number of cases, since many of the swabs are frequently absolutely devoid of anything (membrane or exudate) from which a direct smear can be obtained.

The swab should be well applied to the throat of the patient or else a direct smear cannot be successfully made. Reports on direct smear examinations when found to be positive will reach the physician from twelve to twenty-four hours earlier than the usual laboratory report.

Whenever possible, swabs should be mailed so that they will reach the laboratory by the morning mail. When this is done reports can often be sent out by the evening mail, or wired. Swabs arriving later in the day cannot be reported on until the following morning.

These are important points to remember especially whenever an immediate diagnosis is desired.

# Mailing Swabs.

Swabs sent to this laboratory should not be registered. When this is done a delay of one or two mails usually occurs. When rapid delivery is desired, a "Special Delivery" stamp should be used.

#### Water.

There were examined during the year, 1,718 specimens of water. Samples coming from the larger towns of the Province have been exceptionally free from colon bacilli even in large quantities. The well waters coming from country homes and farms are generally bad. In the latter cases the contamination is more frequently of animal origin than human. The erroneous idea unfortunately still exists, that if a suspected water sample shows the presence of colon bacilli, typhoid bacilli are also present and the water is condemned as being the cause of typhoid fever among those who have been drinking it.

Undoubtedly, the water should be considered as dangerous, but not until other possible sources of infection as flies, carriers, etc., have been considered and eliminated should the conclusion be made that the colon-infected water cample was directly responsible for the typhoid.

Milk.

A number of chemical and a few bacteriological examinations have been made. Most of the larger municipalities have their own laboratories. The smaller places generally accept what milk is presented to them without asking for analysis. Consequently, we are not receiving many samples yearly.

Samples are occasionally received with the request that we make an examination for tubercle bacilli. Reliance cannot be placed in the ordinary tubercle stain when applied to milk sediments. This is due to the fact that there are frequently present other acid fast bacilli which cannot be distinguished from tubercle. The only way left is to centrifuge the milk and to inject the sediment and cream into a guinea-pig and await developments. When a cow is suspected to be suffering from tuberculosis, the only satisfactory method of determining this is the tuberculin test.

It is pleasing to notice that preservatives have not been detected in any of the samples examined.

Liquors.

During the year, 334 liquors have been examined for the Liquor License Department.

Research.

The papers printed below contain the major portion of the research work accomplished during the year. The report on Nickel-Chromium was read by Mr. Lancaster before the Canadian Medical Association. The papers on Diphtheria Research and Pulmonary Infection were read by Dr. Schofield, at the meeting of the American Society of Bacteriologists, at Montreal.

The investigations made by Dr. Schofield into "Contagious Equine Abortion" and "Joint Ill in Foals" for the Department of Agriculture have been satisfactorily concluded and the reports published.

All of which is respectfully submitted.

JOHN A. AMYOT,

Director of the Laboratories.

## REPORT ON THREATENED WATER SHORTAGE IN GUELPH.

TORONTO, July 24th, 1914.

On July 11th, 1914, together with a sample of water from a spring creek, a letter was received from A. H. Foster, Manager of the Guelph Water Works, telling of the threatened shortage in the city's water supply, and suggesting the turning in of this creek water into the system. Dr. McCullough deemed it advisable to have an on-the-ground inspection of the creek and other points bearing on this threatened shortage and possible remedies.

The visit was made on July 23rd, 1914, in company with Mr. Foster, the manager of the works. The shortage exists. It is probably due to the comparatively small snowfall of last winter and the small rainfall of this last spring.

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Additional water is required, probably 400,000 gallons per day.

Street watering has been curtailed and some public fountains cut out.

The normal pumpage is about 2,200,000 gallons per day. It is now reduced to 1,800,000.

To meet the situation a deep well has been drilled. Water was got at 198 feet. The water is slightly sulphuretted. It shows 1,486 parts per million of soap-consuming power, 163 of temporary hardness or alkalinity, and 4 of chlorine per million. It is free from infection with intestinal bacteria. It is not an unpleasant drinking water. Thoroughly mixed with the present 1,800,000 gallons of town water it will be so diluted that no objection can be made to its use. It will supply an additional 100,000 gallons per day. It would not be advisable, however, to add any greater quantity than the 100,000 gallons now procurable. Other good wells might be got in this district, but the chances are against it. Alone the 100,000 gallons now got without dilution could not be recommended as a supply. The major part of the 1,486 parts of hardness is made up of sulphates of lime and magnesium.

The other proposition to meet the situation is the turning in of the creek above mentioned. The dry weather flow of this is approximately 1,000,000 gallons per day. The water is clear and cool, and of the same chemical composition as the present city supply. It comes from the same seam, but closer situated to the city. However, it is from a very sparsely inhabited watershed. From its spring source to the point at which it crosses the pipe-line it is about 3,500 feet long. The main spring supplies about 400,000 gallons, the remaining ones discharging into the stream supply about 600,000 gallons additional. These springs should at the earliest opportunity possible be collected in closed pipes and be connected with the present system, and after the same plan.

In case of necessity, but necessity only, and as a temporary expedient, the stream might be connected with the present supply. There are several danger points along the stream, where infection might easily reach it, but this could be met by installing a chlorination apparatus, which could be easily done at the point where it is proposed to enter the collecting water main. At least one part of the available chlorine should be added to the water in a satisfactory mixing chamber, the water thus to be thoroughly disinfected before going into the main, where, having mixed with the present onrushing water, it will be so diluted that there can be no objection raised to the final mixture. There should be no taste as it reaches the city taps. As an additional security, it is strongly recommended that no more than 400,000 gallons be taken each day, and that this be taken during the day and under the supervision of a competent, careful man, who will understand the importance of faithfulness and care in the administration of the disinfectant. Under these conditions only would it be justifiable to allow the water from this open creek to be turned into the present Guelph water supply.

All of which is respectfully submitted.

JOHN A. AMYOT.

# INSPECTION OF SPRINGS AND WELLS USED FOR DRINKING PURPOSES IN THE PARKS OF THE QUEEN VICTORIA PARK COMMISSIONERS, NIAGARA FALLS, ONTARIO.

TORONTO, July 27th, 1914.

An inspection, at the request of John H. Jackson, C.E., Superintendent, was made of certain springs and wells used in the parks.

The following wells were examined:

- 1. Queenston Well.
- 2. Pavilion Well.

The following springs were examined:

- 3. Queenston Spring.
- 4. Table Rock Spring.
- 5. Refectory
- 6. Park Shed Spring.
- 7. River (Jolly Cut) Spring.
- 8. Plant (Island Pond) Spring.
- 9. Horse's Head Spring.
- 10. Clifton.
- 11. Convent Spring.

# Findings at each unit:

1. Queenston Well.—This is a drilled well going some 40 feet into the lime-stone rock. It is well-cased and well-protected at the top from surface infection. The analysis showed no infection and 2 parts of chlorine per million. Perhaps this water does not come from very far.

Recommendation.—To drain the surface about the top as suggested by Mr. McGahey. This would remove the greatest risk the well now runs.

- 2. Pavilion Well.—From various obvious dangers in the surroundings of this well it would be safest to abandon it. Too much work would have to be done to make it safe.
- 3. Queenston Spring.—This spring is well protected. The analysis shows this water to be good. It had best be left as it is.
- 4. Table Rock.—The source of this is very questionable. The ground is not protected. It runs risk from above as well as from the surface.

Recommendation.—A cross trench 10 ft. long, 3 ft. wide and 4 ft. deep, if possible, should be made through the foot of the gathering area, this to be filled with fine sand with earth on top 6 in. deep. A farm tile drain placed a foot and a-half from the bottom in the middle of the trench parallel with the bottom (the present pipe to the outlet to begin from the middle of the drain-pipe) would probably meet requirements to make this safe.

5. Refectory Spring.—This is questionable.

Recommendation.—A cross trench between the concrete reservoir now in and the toe of the hill like in No. 4 would make this safe.

6. Park Sheds.—In the present condition this is unsafe.

Recommendation.—Either abandon it or make a cross trench as in Nos. 4 and 5.

Nos. 7, 8, 9, 10, River (Jolly Cut), Plant (Island Pond), Horse's Head and Clifton Springs.—All of these chemically show pollution from above. The two open collecting basins are dangerous.

Recommendation.—A cross trench made as recommended for Nos. 4 and 5 parallel to the toe of the escarpment at a point below the Jolly Cut box and the two stone gathering basins filled with sand and having a tile drain placed one and a-half feet above the bottom leading to a central concrete basin, a junction with the present pipes would get over any danger from infection.

In a general way, I believe it would be much better to use these springs than to use the town water, which we know for certainty without very careful purification is dangerous. The springs are not ideal, but with the protection that would be afforded by the recommendations, would be safer than the city water.

11. Convent Spring.—Had best not be used unless same is done for it as is done in Nos. 4 and 5.

All of which is respectfully submitted.

JOHN A. AMYOT.

# REPORT ON QUESTION OF INCREASE OF WATER SUPPLY AT MEAFORD August 10th, 1914.

A visit was made to Meaford on August 5th, 1914, in company with Dr. McNally, District Health Officer, in connection with this question.

I beg to report as follows in reference to this.

Meaford has a population of between three and four thousand, scattered over a very wide area. The town is not growing rapidly. Its tax rate is very high.

There is no organized sewerage system in the town. Several surface drains to which are connected domestic sewers drain into the river and harbor, so it is

said. This is probably correct.

The present water system has been in operation several years. It consists of a small infiltration basin at the side of the harbor in the central edge of the town, a pumping station right by and uptown a standpipe. The pumps are in duplicate and of the double plunger type, parallel. They are pumping in the neighborhood of 325,000 to 350,000 gallons per day. The stand-pipe has a capacity of 50,000 gallons. The "infiltration basin" is a circular one about 16 ft. in diameter, walled in, in brick. The water filters in under the brick from the harbor side, also from the town side. The water from this basin has regularly shown 15 parts of chlorine per million, whereas the harbor water shows seldom more than 3 parts per million. It is incredible that so large a quantity as 350,000 gallons per day could come through so small an extent of sand. On the town side of the basin the wall is down on the shale. Undoubtedly a large part of the water comes from the town side. Within 300 ft. there are no wells known and, as the shale under the clay of the town is very close grained, it is not likely that it is dangerously creviced. The history of the town as regards typhoid has been good, but there have been summer and fall outbreaks of diarrhea

several times during the last ten years. Some two or three years ago in order to increase the flow from the harbor into the basin a channel was dredged out of the shale a foot or two from the basin and then filled in with clean, not very fine, sand. In case of a fire lasting over three hours great difficulty is experienced in getting enough water. It is on this account that the authorities are anxious, and justly so. They suggest an emergency pipe out into the harbor. From the sanitary standpoint a worse point could hardly be chosen. They choose this because it would be cheap and would meet the fire danger, but do not sufficiently realize the danger to health. If the proposed pipe were extended out around or through the breakwater, water could be reached that would not be so dangerous, but nevertheless could not be advised without an adequate purification plant being put in, and this again would be found difficult to finance. (By adequate purification—this would be gravity mechanical filtration and disinfection.)

They can hardly afford to discard their present system. A larger stand-

pipe capacity might help or better a sufficient reservoir on high ground.

During the big storm of last fall a considerable bar was thrown up in front of the pumping plant up to the shore. This has had the effect of choking up the infiltration into the basin. It might be possible that another infiltration basin of the same size as the present could be constructed in this sandbar and from this a sufficient supply be got to meet the needs of the present and the immediate future.

I would not care to make any definite proposal further than the above until I have consulted Mr. Dallyn on the subject.

All of which is respectfully submitted.

JOHN A. AMYOT.

# (Addendum to Report.)

After consultation, the advice with reference to the doubling of the infiltration capacity is again made. The extra stand-pipe would probably cost too much.

The new basin should be as large as the present one; it should be surrounded with an unbroken bank of clear, fine sand not narrower than four (4) feet at any point, and maintained at that.

It is also advised that the present and the new supply be efficiently chlorinated.

(Signed) John A. Amyor.

Toronto, August 15th, 1914.

# REPORT IN CONNECTION WITH TRIP TO ROCKWOOD HOSPITAL, SEPTEMBER 18TH, 1914.

The trip was made in company with Mr. Dallyn.

The object of the trip was to see and to start the sewage treatment plant recently put in at the Rockwood Hospital. The plant consists of a screening chamber, an Imhoff sedimentation and sludge digesting tank, a trickling filter with a Ham-Baker travelling distributor, housed in substantial building and a chlorination retention tank. The plant is capable of treating normally 125,000 gallons per day with a good safety margin. The plant is a model one of its class.

The part of it designed for the treatment of the organic matter was complete and went into operation without a hitch. The disinfection portion, however, was not finished. The solution and dosing apparatus was yet to be completed. The chlorination holding tank had not had the forms taken out of it yet, though it has been completed quite over a year. This, of course, has not been used, though it could easily have been, to chlorinate the sewage of the institution during the whole of the past year, whilst the work on the other portion of the plant was being done. This is a great pity, considering the importance of having this dangerous material (which is discharged into the lake) made innocuous when it could so easily have been done. The sewage of this institution has been a continuous menace to its water supply, taken as it is from the lake only a comparatively short distance away. We were assured that the water supplied to the institution has been unintermittently chlorinated. The burden on this disinfection could have been materially reduced if the sewage chlorination plant had been used.

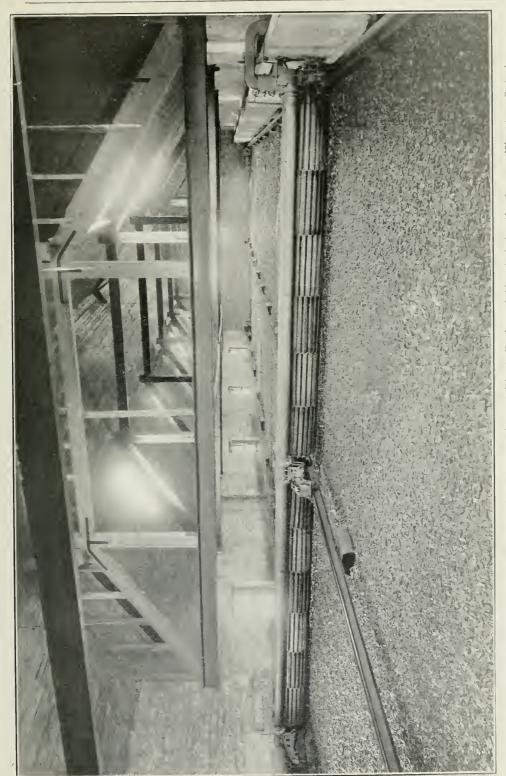
On inspection it was found that the sewage from the laundry and three or four sanitary closets connected with its sewer was being discharged directly into the lake by an independent sewer. It is on a lower level than the general sewerage of the institution. It is on this account that it is not connected with it. This sewage is obviously a very dangerous one, in fact, at least as dangerous as any coming from the main building and besides it is almost one-third of the sewage of the institution. It should, with the least delay possible, be connected with the main drainage system so that this sewage may be treated along with the rest. It would be a pity, to say the least, when so much has been spent on an efficient model plant, to have the good results spoiled by having this laundry sewage still discharge into the lake without treatment. The simplest remedy would be to have this sewage received into a tank sufficiently large to insure against operflow into the lake and lift by pump into the main sewer of the institution. An engineer should decide where this tank could most economically be placed. It would be safest to provide duplicate pumping facility in order to avoid any possible overflow.

Again, we found that the stable drainage was not connected with the main. This should be done. We were not able to find any other drains that were not connected with the main system, but would advise that a thorough survey be made to see if there be any such, so that they could also be connected, if any such are found to exist.

The kitchens and the sanitary closets of the institution, and the hospital where any infections would be treated, were found not to be screened against flies.

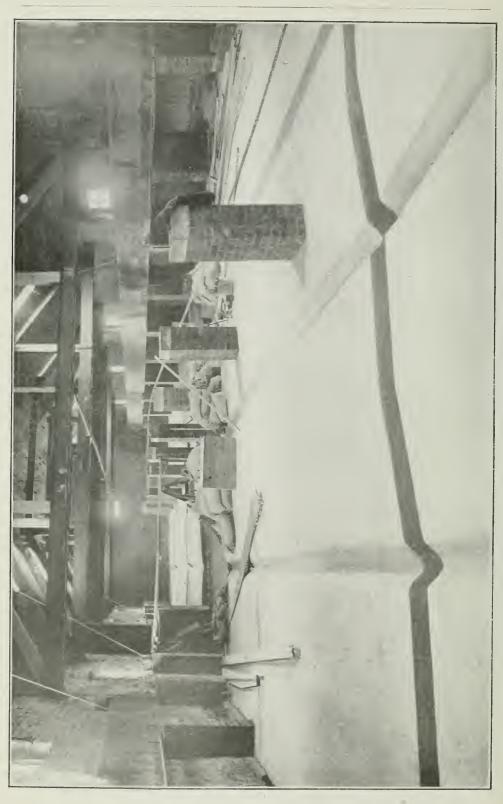
All of which is respectfully submitted.

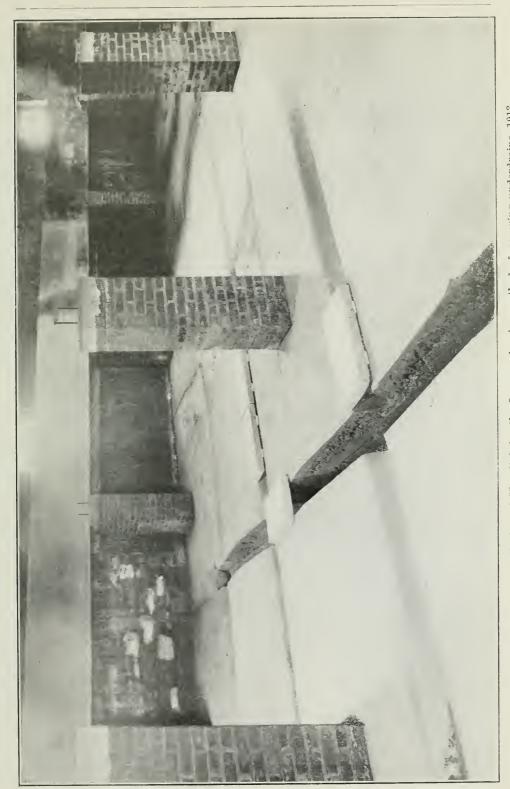
JOHN A. AMYOT.



A view of the Sewage Distributor at the Sewage Disposal Plant, Rockwood Hospital for the Insane, Kingston, Ontario, installed by the Ontario Government, 1914.







Sewage Disposal Plant at Rockwood Hospital for the Insane, showing method of covering underdrains, 1913.

## EXPERIMENTS BEARING ON PULMONARY INFECTION.

BY FRANK W. SCHOFIELD, D.V.S., (TOR.),

Discussion still frequently centres around the nature of pulmonary infection. The question in dispute is this, how do bacteria gain entrance to the lung tissue? One answer is, that almost invariably disease processes arise from direct inhala-

tion of the infectious material into the smaller air passages.

The opposite view is, that lung infection is generally secondary to a primary infection of the blood stream.

The supporters of either view have amongst them the dogmatic extremist, with whom there is no quarter, the path of infection is limited to their view—no other method is reasonable.

Many statements used in support of these views are devoid of experimental work to substantiate them.

The following experiments were undertaken in the hope that the basis of future argument might have a sounder footing on fact. The experiments were all performed on animals which naturally breathe through the nose, thus the deductions only hold good in cases of nasal breathing.

To what extent do the anterior respiratory passages act as filters to the in-

spired air is another question these experiments help to answer.

The experiments done may best be divided into three groups. After discussing the nature of the work in each group and results obtained the experiments will be considered collectively with regard to their bearing on pulmonary infection.

 $Group\ I.$  In this experiment four horses were submitted to a spray of Gentian Violet and charcoal equal parts.

Technique. The charcoal and Gentian Violet were carefully mixed with spatula and then placed in a powder-atomizer. The latter was tested as to its ability to produce a fine cloud of dust and found satisfactory. The animal to be sprayed was held so that the fine terminal portion of dust spray enveloped the nostrils. Soon the atmosphere of the room became saturated with the violet powder so that the tongue and teeth of those present who breathed through the mouth was intensely purple. The spraying was continued for about ten minutes.

Under such severe conditions it would seem impossible that the trachea and lung could escape the fine pigment.

The nasal secretions of human beings breathing this atmosphere showed violet coloration for as long as forty-eight hours after inhalation.

The animals sprayed were killed within two or three hours after experiment, but examination of respiratory passages could not be made until twenty-four hours later.

Result. Two of the horses showed no presence of pigment in trachea, none being found past the larvnx.

Of the other two, one showed slight trace of powder along the anterior surface of trachea as far as the bronchi. The other showed a well marked purple coloration in same situation. I must state that the last horse continued to receive a heavy spray when in a very excited condition, breathing rapidly with nostrils widely distended.

We must remember that the horse breathes exclusively through the nose.

Group II. In this group eleven horses were submitted to a bacterial spray from a very fine atomizer.

Technique. A broth culture of B. Prodigiosus was grown for 48 hrs. at 18-22 dégrees C.; the whole culture 10 cc. was then poured into the bottle of atomizer and tested.

The tests consisted of spraying against glass at various distances to ensure a satisfactory fine spray. Also a petri-dish containing agar was held up at a distance of 6 ft., the cover removed, and after receiving one discharge from the atomizer the cover replaced and the dish incubated at 18-22 degrees C. for 48 hrs. and colonies observed. In one instance the colonies counted numbered 368. A plate count was occasionally made on the sample of broth used. A plate was always sprayed and then incubated so that contamination, if such existed, could be detected. In two cases Alboline was substituted for the bouillon as a medium for suspension of the bacteria to be used in the spray. In this case the cultures were grown on Agar slants devoid of water of condensation. In about 48 hrs. when a good culture was present this was scraped off and thoroughly mixed with the Alboline in a sterile test tube. Such mixing is not easily accomplished, but continual rubbing with a cotton batting swab finally produced a very fair suspension.

. A finer and better quality was obtained by substituting alboline for bouillon. To make sure the organism had not been destroyed by the alboline, agar plates were

sprayed previous to the experiment.

The following brief experiment will illustrate the success accompanying the use of alboline. One must remember that we were desirous of artificially producing an infected atmosphere that would correspond as closely as possible to an ordinary

dust and germ ladened one.

Experiment. A fume cupboard void of air currents was sprayed for a minute or two with the Alboline Prodigiosus spray, the mouth of the atomizer being turned towards the roof of cupboard. After five minutes agar plates were placed over the floor of cupboard and left exposed for five minutes. These were then removed and other plates similarly placed. After a five minute exposure these were likewise removed and replaced by others which remained for fifteen minutes.

Results. Five minutes after spray ceased average:

Number colonies per plate	33
Ten minutes, number colonies per plate	13
Fifteen minutes, number colonies per plate	2

This shows that the particles sprayed into the atmosphere were very light and comparable to dust particles. The fluid spray was administered in the same way as powder spray.

Horse No. 1. Received several c.c. for 48 hrs. Bouillon culture. The spray was continued for about ten minutes. The latter part of which time the animal was breathing very fast and struggling violently. Animal was killed one-half hour after spray. Twenty-four hours later swabs were taken from the larynx, nose, upper, middle and lower trachea. Cultures were made on Agar plate and incubated for 48 hours at 18-22 degrees C.

### Results.

Culture from nose: Prodigiosus Colonies too numerous to count.

Culture from larynx: Very numerous.

Upper Trachea: Thirty colonies.
Middle Trachea: Ten colonies.
Lower Trachea: Three colonies.

Horse No. 2. Horse received spray on two successive days 10cc. 48 hr. culture. The animal was killed within half hour after final spray and on following day swabs were taken from usual parts of respiratory tract and cultured on Agar for 48 hrs. at 18-22 degrees C. During this experiment the animal breathed normally.

# Result.

Culture from nose: Prodigiosus colonies very numerous.

Culture from Larynx: Not made.

Culture from Upper Trachea: No Prodigiosus. Culture from Middle Trachea: No Prodigiosus. Culture from Lower Trachea: No. Prodigiosus.

Horse No. 3. Sprayed in a similar way to preceding. Ten c.c. of Bouillon culture used, one ejection from the atomizer aimed at an agar plate 6 ft. away gave 360 Colonies. The horse was destroyed within half hour after the experiment and usual swabs taken and cultured.

#### Result.

Swab from nose: Colonies very numerous. Swab from larynx: Number of Colonies. Swab from Upper Trachea: Three Colonies. Swab from Lower Trachea: No Colonies. Swab from Middle Trachea: No Colonies.

Horse No. 4. Alboline used instead of broth. Horse sprayed for five minutes, during latter few minutes the breathing was fast and distressed. Swabs were taken and cultured as before.

# Result.

Swab from nose: Prodigiosus present. Swab from larynx: Not obtained.

Swab from Upper Trachea: No Prodigiosus. Swab from Lower Trachea: No Prodigiosus. Swab from Middle Trachea: No Prodigiosus.

Horse No. 5. Similar treatment to No. 4.

Swab from nose: Prodigiosus present. Swab from Larynx: Prodigiosus present.

Swab from Upper Trachea: No Prodigiosus.

Swab from Lower Trachea: No Prodigiosus.

Swab from Middle Trachea: No Prodigiosus.

Horse No. 6. Similar treatment to No. 5. Swabs taken directly after the animal had been sprayed, through a canula which had been inserted into the trachea. Very long swabs were made on flexible wire applicators, from the middle of the trachea where the canula was inserted the swabs could easily reach downward to the bifurcation and upward to the larynx.

# Result.

Swab from nose: Prodigiosus present.

Swab from Upper Trachea: One colony Prodigiosus.

Swab from Lower Trachea: No Prodigiosus.

Horse No. 7. A Bouillon culture was used, each c.c. containing approximately 1 billion B. Prodigiosus. Three c.c. were sprayed and swabs taken through canula.

## Result.

Swab from nose: Prodigiosus present.

Swab from Upper Trachea: Prodigiosus present, four colonies.

Swab from Lower Trachea: No Prodigiosus.

Horse No. 8. Technique same as above. 5 to 7 c.c. used in spray. Count abount 20 million c.c.

#### Result.

Swab from nose: Prodigiosus present.

Swab from Upper Trachea: No Prodigiosus. Swab from Lower Trachea: No Prodigiosus.

Horse No. 9. Technique, stength and amount as in preceding.

## Result.

Swab from nose: Prodigiosus present.

Swab from Upper Trachea: Prodigiosus present (one colony).

Swab from Lower Trachea: No Prodigiosus.

Horse No. 10. Technique same as preceding.

# Result.

Swab from nose: Prodigiosus present.

Swab from Upper Trachea: No Prodigiosus. Swab from Lower Trachea: No Prodigiosus.

Horse No. 11. Technique similar, 5 c.c. of 10 million per c.c.

#### Result.

Swab from nose: Prodigiosus present.

Swab from Upper Trachea: No Prodigiosus. Swab from Lower Trachea: No Prodigiosus.

I think these experiments demonstrate clearly the wonderful efficiency of the upper respiratory passages as bacterial filters. The atmosphere breathed was saturated for several minutes with a specific bacterium, yet the same had reached the trachea in but few instances and in these only a few bacilli were present.

If under these extraordinary conditions bacteria can be removed from the contaminated air by nasal breathing, under ordinary conditions no bacteria should be found in the trachea.

The following experiments were done to see whether this contention could be substantiated or not.

It might be mentioned here that the statement has been made, that the bacterial flora of the nose was to be found in the trachea.

In these experiments swabs were taken from the tracheæ of healthy animals immediately after slaughter. Previous to death they had been breathing through the nose a germ-ladened atmosphere.

Technique. The animals were bled to death by usual slaughter house methods and immediately after death the trachea was carefully incised high up and low down, a swab inserted, freely rotated, removed and cultured on agar slants and incubated at 18 degrees C. Direct smears were also made from swabs and examined.

Series No. 1, Swabs from Calves.

Swab No.	Direct Smear.		18-22°C.		37°C.	
	High.	Low.	High.	Low.	High.	Low.
1 2 3 4 5 6 7 8 9 10	6 6 6 6	tive	negative blood present positive negative positive negative '.' positive negative	negative in trachea negative	negative all positive positive negative positive (15) negative  positive negative	negative negative

Not counting No. 2, there were nine different tracheæ examined and six of these nine gave negative results. Of the other three the high swab in each case was the contaminated one, which was most probably due to ingesta or saliva passing from mouth into trachea, while animal was in a comatose condition. All swabs cultured from nasal mucosa were positive.

Since recording this first series I have had opportunity to make similar observations on 13 more tracheae from calves and 7 tracheae from sheep at time of death. More satisfactory results were obtained in these experiments because the subjects were more carefully chosen. When there was any evidence of ingesta in larynx the examination was not made.

Series No. A. Swabs from Calves.

Swab No.	Direct Smear.		Culture 18-22°C.		37°C.	
	High.	Low.	High.	Low.	High.	Low.
1	negative	negative	negative	negative	negative	negative
3	6.6	6.6			6 6	6 6
4	_ 6 6	6 6	4.6	6.6	4.6	£ 6
5	6 6	6.6	6.6	6.6	6 6	
$\underline{6}$	+ 6	£ £	6.6	6.6	6 6	6.6
7	6.6	6 6	positive	6.6	positive	6 6
8	positive	6 6	6.4	6.6		6.6
9	negative	6 6	6 6	6.6	• 6	4.4
10	positive	+ 4	6.6	4.6	6.6	
11	6.6	6 6	6.6	6.6	4.6	٤ ٤
12	6.6	positive	6.6	positive	6 6	positive
13	6 6	negative	6.6		6 6	
14	6 6	6.6	• •	• 6	٠.	4.6
15	8 6	6 6	* *	* *		

Series	R	Swahs	from	Sheep.
Delles	D.	- wans	1110111	SHEED

Swab No.	Direct Smear.		18-22°C.		37°C.	
	High.	Low.	High.	Low.	High.	Low.
1 2 3 4 5 6	not made	not made	negative positive	negative	negative	negative

These results are quite in harmony with those of Series No. 1, bringing more evidence to support the supposition that the normal trachea is almost free from bacteria and possesses no definite bacterial flora. The positive results were generally due to the presence of ingesta.

A series of swabs were also taken from trachea and large bronchial tubes of cattle but results were very unsatisfactory, practically useless. In almost all cases the larynx was filled with ingesta and small particles of food could frequently be detected in the bronchial tubes.

With the improved technique for taking tracheal swabs from the horse, i.e., by inserting large trocar and canula into the trachea before death, more reliable results have been obtained.

Results.

27	Direct Smear.		Cultures (18-22°C.)		(37°C.)	
No.	Up.	Down.	Up.	Down.	Up.	Down.
1	negative	negative	negative	negative	negative	negative
3	6.6	6 6	6.6	6.6	6 6	6 •
4	6.6	6 6	6.6	6.6	6.6	6.6
$\hat{5}$	6.6				6 6	6 6
	Bacteria &	Cells	Aureus	Albus and	Aureus	Albus and
7	6.6	4 6	6 6	Streptococci Albus and unknown	Aureus	Streptococci Albus and unknown
8	Few Cocci	Both	Albus & Unknown		Aureus	Albus and unknown
9	negative	negative	3 Albus 4 Colon 4 Strept.	negative	few colonies	negative
10	4 •		negative		negative	6 6
11	6.6	6.6	6.6	6.6	6 6	6.6
12	Plentiful	exudate on	Swab. All	positive, chie	fly Aureus and	Streptococci

It is rather difficult to know exactly what conclusions can fairly be taken from these results. The condition of the animals I think must be taken into consideration before deductions are made. All these horses were old, very debilitated animals and had been gathered up for slaughter. Some could hardly stand without support. Their power of resisting any infection was undoubtedly slight. This

may, and I think does, account for the number 5 out of 12 that showed signs of tracheal infection. In support of this I would like to quote some results obtained by Dr. Ferry, of the Parke, Davis & Co. He, working on Equine Influenza, took swabs from the trachea of horses suffering from this malady. His technique was also that of perforating the trachea with trochar and canula and thus obtaining swabs.

Results. Out of eighteen cases three gave negative results on all culture media. Eleven gave pure culture of Streptococci, which he consideres the likely cause of this disease. Four swabs gave mixed cultures of Streptococci as S. Aureus and Albus. The point is this, these swabs were taken from young vigorous horses which contracted influenza while passing through the stock-yards, and out of the eighteen cases, if we eliminate the Streptococcus as being there because of the disease, we would find fourteen tracheae showing no bacterial flora.

Another point I would like to emphasize is that in all cases nasal swabs give evidence of a very mixed infection; Staphylococcus, Aureus, Albus, Colon, Hay and a great many others that were not determined. Also petri-dishes exposed to the atmosphere which they were breathing gave a very mixed growth: Streptococci, Colon, Bacilli of Hay group, moulds, Streptothrices, but few S. Albus and Aureus. If the contaminated air was passing through the nasal chambers and entering the trachea we would expect to find such organisms there as were common in the air. This was not the case.

Some may criticise and say these experiments are valueless to us; they only hold good for the lower animals. But are not the naso-pharyngeal structures alike in both animals and man? If they act as bacterial filters in the animal is it not reasonable to suppose they will in man? When one considers all the twists, turns and obstructions that the air inhaled through the nose has to meet, little wonder is it that most of the suspended matter is removed.

These experiments show how very difficult it is even under artificial conditions of excessive aerial contamination for bacteria to enter the trachea with nasal breathing. It was unfortunate that swabs could not be taken from the smaller bronchial tubes, but conditions under which experiments were done prevented this.

#### CONCLUSIONS.

- 1. There is no constant bacterial flora in the trachea.
- 2. That with nasal breathing most of the bacteria inhaled are removed before the air enters the trachea, even when the atmosphere is saturated with bacteria.
- 3. That direct infection of lung through nasal inspiration is almost impossible, under ordinary conditions. (These conclusions refer to the animals used in the experiments.)

#### RESEARCH

On the Relationship existing between the pathogenic powers and the anti-bactericidal power of Diphtheria Bacilli.

BY FRANK W. SCHOFIELD, D.V.S., (TOR.).

Diphtheria.

The work to be described has been done with the object of obtaining some facts which would give a satisfactory basis for answering some of the following questions:

(1) "Considering bacteria of the same species, have those which exhibit the greatest resistance to germicidal action a corresponding increase of pathogenic power over their fellows which succumbed?"

(2) "Or, are the few which survive exposure to detrimental conditions, for

long periods, practically innocuous?"

These questions have frequently been answered by the theorist, but satisfactory experimental work from which reliable conclusions can be deduced has not, within our knowledge, been done.

An endeavour has been made to throw some light on the relationship existing between pathogenic powers and anti-bactericidal power of certain micro-organisms. The question is of interest and of importance from a public health standpoint.

It is known that when large numbers of bacteria are uniformly exposed to the action of a bactericide, some show greater powers of resistance than others and

will survive for a greater or less period of time.

The few which survive this trying ordeal have been referred to as "Huskies," intimating that unusual power of resistance was associated with unusual physical

vigor.

Have the surviving minority pathogenic powers as potent as the members of the same strain that were weaker and thus destroyed? Or, do the increased powers of resistance exist at the expense of pathogenic qualities? Or, lastly, is increased resistance the concomitant of increased infectivity? The work here reported if not definitely answering such questions will, at least, bring before us some interesting facts along these lines.

Before giving details of each experiment a general outline of the work had

better be given.

The only organism worked with at present has been the Diphtheria Bacillus, for the reason that fairly accurate virulence tests can be made with comparative ease.

The first procedure was to obtain a pure culture of B. Diphtheria, from a clinical case. Isolation was not difficult by making tube dilutions on Loeffler Blood Serum and fishing from the most suitable.

The culture used in the experiment was almost always the first culture on

blood serum from colony fished.

From the culture special broth was inoculated, and incubated at 37 degrees C. for twenty-four hours. For this work the broth was put up in large quantities in test tubes, each containing 10 c.c. The same batch of broth was used from beginning to end of experiments.

Formula for Bouillon:

Infusion of Vcal	1,000	grms.
Peptone	20	grms.
Sodium Chloride		grms.

Method of preparation is the same as for ordinary nutrient bouillon. Reaction is made alkaline to litmus, after the media is made neutral to this indicator 7 c.c. of a 10 per cent. Sodium Hy. Soln. is added.

After 24 hours growth, the culture was well shaken and a definite quantity injected into a guinea-pig, the quantity varying with the weight of the pig. The animal was now watched and time between injection and death recorded. Cultures were then made from the site of injection and internal organs.

From the same culture used to inoculate the broth, several snugly wrapped cotton batting swabs were freely inoculated and replaced in their respective sterile test tubes.

Some of them were placed in the sunlight and others in the dark.

The swabs exposed to the sunlight were placed on a table in the middle of a conservatory, the roof and three sides of which were made of heavy, wrinkled glass. The room was an exceptionally light one.

Swabs placed in dark. They were placed in the dark corner of a cupboard. The light was not entirely excluded as the cupboard had a glass front. But it compared favorably with a dark corner in a living or bedroom. At different intervals Loeffler's blood serum tubes were inoculated and incubated to ascertain whether there were still organisms capable of growth remaining on the swab. cultures made from such swabs would naturally give a very heavy growth within twenty-four hours. But after longer exposure, such cultures would give but a very scanty growth of a few colonies which could not be seen till after twenty-four to forty-eight hours incubation. This delay in growth was not recognized at first, so that if in twenty-four hours no growth could be seen, the blood serum tubes were re-incubated with their respective swabs. After eighteen hours further incubation a luxuriant growth was generally present. This led to the erroneous idea that probably only a few organisms had been left on the swab, these during the first incubation had produced one or two microscopic colonies which the second inoculation had spread and the later incubation increased. No estimate of the original number of colonies could be obtained when second attempts at inoculation were made on the same tube. This knowledge was not gained till the first experiment had been made so the organisms used in the second animal inoculation of this experiment were not as ideal "huskies" as they might have been.

Frequently when no growth can be detected with twenty-four hours incubation, a further period of twenty-four hours will reveal the growth of numerous colonies.

This tardiness of growth even when optimum conditions of artificial growth are offered is interesting, possibly giving us some idea of what may happen in natural infection with similarly attenuated organisms.

Should such weakened organisms reach the naso-pharyngeal mucosa, factors whose influence are but vaguely known come into play so that one can but surmise as to the final outcome. Conditions making infection favorable or otherwise undoubtedly will vary in individuals and in the same individual from day to day.

One must remember to discard a swab that has been twice used to inoculate a serum tube, as fresh inoculation of the swab would occur from any bacterial growth resulting from the first twenty-four hours' incubation.

It may also be mentioned, that pure cultures must be used on the swabs. The reason being that such organisms as S. Aureus contaminating the swabs will outgrow the Diphtheria Bacilli during the first twenty-four hours and thus make isolation of the latter impossible. Its recognized faculty of rapid growth is lost when much attenuated.

The following experiment is given in detail to illustrate the method employed in the eleven experiments summarized below.

## Experiment I.

The organism used in this experiment was obtained from a swab sent to the

laboratory, suspected diphtheria.

July 19th, obtained by tube dilution on Loeffler blood serum in pure culture. Morphology, granular bacillus, irregular in shape. Special broth was inoculated from the culture and incubated for 24 hours. at 37 degrees C. An endeavor was made to make as uniform in quantity as possible that amount of culture added to the broth in each case by the use of the same platinum loop.

July 20th, broth shows granular turbidity with no pellicle, stains show pure Klebs Loeffler Bacilli granular; shaken thoroughly; three pigs were injected with following amounts, 15 c.c., 25 c.c. and 35 c.c. The two receiving the last mentioned dose died in 48 hours, the former receiving .15 c.c. died in four days (wt.

= 360 grms.).

P.M. At site of injection the K. L. B. was recovered, solid forms were the commonest. Blood was negative, supravenal gland was somewhat congested but

cultures were negative.

July 19th. Good firm cotton batting swabs were inoculated from the pure culture, and placed carefully in test tubes so that their surfaces did not contact, and thereby exclude light. The same were now placed some in the sunlight and others in the semi-darkness.

## Swabs placed in light.

On a table in the middle of a conservatory, the roof and three sides of which were made of heavy wrinkled glass, the room was an exceedingly light one.

## Swabs placed in dark.

These were put in the dark corner of a cupboard. The light was not entirely excluded from them as the cupboard had a glass front, but it would compare well with a dark corner in a living or bedroom.

July 26th. Swabs were removed from these places and in blood serum

inoculated.

July 27th. Swabs from light. All showed growth but colonies were small and not numerous, had a dry appearance.

Stain. Loeffler's Methylene Blue, slender and granular, morphology variable. Ten c.c. of the original special bouillon was inoculated with a loop smeared from this culture, and incubated for 24 hours at 37 degrees C. At the end of this time the tube had a coarse turbidity. Purity tests were made and proved satisfactory.

Aug. 12th. A guinea pig, wt. 550 grms., was given a subcutaneous injection

of 3 c.c.

Aug. 13th. Sick, died during night.

P.M. The organism was recovered in pure culture, from site of injection which showed considerable inflammation and exudation. The conclusion to be drawn from this case seems very evident, i.e., that the progeny of the surviving organisms were equal in pathogenic power with their deceased progenitors.

Aug. 23rd. Swabs from dark cultured on blood serum.

Aug. 24th. No visible growth so the swabs were rubbed over the surface of their respective tubes and re-incubated.

Aug. 25th. No growth on one tube, the other showed well marked and characteristic growth.

Aug. 26th. From the culture bouillon was inoculated, after 24 hours incubation marked turbidity was observed.

Aug. 27th. 4 p.m., .2 c.c. was injected subcutaneously into a guinea pig, wt. 350 grms.

Aug. 28th. Pig ill. Died during the night, about 36 hours.

P.M. Site of injection showed acute inflammation, cultures gave good growth of K. L. B. blood cultures negative.

#### CONCLUSIONS.

- I. Cultures made from "huskies" usually exhibit pathogenic properties similar to the less resistant organisms of the same strain, their virulence neither being increased nor decreased materially.
- II. Staining properties and morphological characteristics of organisms belonging to the same original strain vary greatly from time to time.
- III. Some strains of diphtheria bacilli on the inoculated swabs were still viable after removal from all culture media for sixty days.

The following table gives a summary of the results obtained in eleven such experiments:

SUMMARY IN DIPHTHERIA RESEARCH.

Final Morphology and Staining.	Irregular, Granular and Barred,		Barred and Ghostenders, no solid.	Solid.	Solid, metachromatic.	Nose enders.	Ghost enders.	Granular, solid.	Large granular bacilli,	Chicfly solid, type A and A.	Solid, nose enders.
No. Days Survived Dark		98	40	35	55	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9†	40	09	09	52
No. days Survived Light	21		27			30	•	27			
Pathogenicity.  No. days  No. Days  After Desiccation (Light) Survived Light Survived Dark	• 3cc.—550 grms. 40 hrs. (21)	. 2cc.—360 grms. 36 hrs. (36)	· 2cc.—290 grms. 45 hrs. (40)	. 3cc.—360 grms. 120 hrs. (35)	· 1cc.—280 grms. 80 hrs. (55)	.25cc.—370 grms. 8 days. (30)	· 2cc.—340 grms. 8.5 days (46)	. 2cc.—255 grms. 72 hrs. (40)	· 2cc.—500 grms. 48 hrs. (60)	. 2cc.—520 grms. 50 hrs. (60)	. 2cc.—400 grms. not pathogenic (52)
Pathogenicity. Time of isolation.	3cc.—360 grms, 48 hrs. 15cc.—360 grms. 96 hrs.	and Metachro-15cc.—360 grms. 48 hrs. 960 grms.	· 2cc.—280 grms. 50 hrs.	. 3ec.—350 grms. 120 hrs.	.15cc.—370 grms. 60 hrs.	· 2cc.—330 grms. 12 days.	· 2cc.—330 grms. 12 days.	· 2cc.—230 grms. 48 hrs.	· 2cc.—280 grms. 40 hrs.	· 2cc.—400 grms. 40 hrs.	· 2cc.—450 grms. not pathogenic
Morphology and Staining. Time of isolation.	Irregular, sec.—360 grms. Barred and Metachro-15cc.—360 grms. matic. 96 hrs.	Irregular, Barred and Metachro- matic.	Solid and Ghost enders.	Solid and Double enders.	Slender, Metachromatic.	Nose enders and Ghost enders.	Nose enders and Ghost enders.	Ghost enders.	Mostly granular, some barred.	Ghost enders.	Small, solid, not typical.
No.	1	2	9	4		9	7	~	9	10	11

NOTE.—Columns two and three (Pathogenicity, time of isolation and after desiccation) record the quantities of broth culture injected, the weight in grammes of the guinea pig injected, and the time in hours that the animal survived the injection.

The small figures in brackets refer to the age of swab used in making the culture.

#### NICKEL-CHROMIUM WIRE FOR THE BACTERIOLOGICAL LABORATORY.\*

By H. M. LANCASTER, B.A.Sc.

Chemist, Provincial Board of Health Laboratories, Toronto.

Bacteriologists requiring large quantities of platinum wire for routine work in the laboratory, or for the use of student classes, will find nickel-chromium wire of some assistance. This alloy heats readily and cools quickly, but is not rapidly disintegrated by repeated heating and cooling. A very useful instrument may be made from a three-inch length of No. 22 Brown and Sharpe gauge wire inserted in an eight-inch handle of three-sixteenth-inch aluminum rod. A firm junction between handle and wire may be secured by drilling a small hole slightly larger in diameter than the wire one-half inch deep into the end of the rod, inserting the wire, and, finally, hammering or pinching in a vice until the two are firmly joined. Wire of any other gauge may be used if desired.

Nickel-chromium wire in all gauges is supplied by any of the larger firms dealing in such alloys. It may be obtained from manufacturers of electrical supplies, as it is used under the trade name "Nichrome" as resistance wire in the heating elements of many modern heating devices. The cost of nickel-chromium is very small compared with that of platinum. At present prices, one foot of platinum wire, No. 22 gauge, at forty-five dollars per ounce, costs about three dollars; ten feet of No. 22 gauge nichrome, at four dollars and eighty-five cents per pound, cost about eight and one-half cents.

<sup>\*</sup>Read before Laboratory Section, Canadian Medical Association, London, Ontario, August, 1913.

Reports of Branch Laboratory at Kingston, and Laboratory of Institute of Public Health,

London, Year 1914

## REPORT FROM BRANCH LABORATORY OF PROVINCIAL

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## BOARD OF HEALTH AT KINGSTON FOR YEAR 1914.

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## REPORT FROM BRANCH LABORATORY OF PROVINCIAL

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## BOARD OF HEALTH AT KINGSTON FOR YEAR 1914.—Continued.

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# REPORT FROM BRANCH LABORATORY OF PROVINCIAL

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Toronto	35		78	297	246	539	189	452	••••		1	• • • •	1	1

## BOARD OF HEALTH, KINGSTON, FOR YEAR 1914.—Concluded.

				1	Milk					787.0	ters.	e Dept.	Vaccine	Specimens.		Ot	ıtfits	sent (	out.	
Foo			serv-		Bac	teriolo	ogical.			Wa	ters.	License	hoid	9 Spec						year.
Fats.	Total Solids.	+	_		bercle Bac.	Pus +	cells.	Count.	Extraneous matter.	Chemical.	Bacterial.	Liquors for	Doses of Typhoid Vaccine sent 2rt.	Miscellaneous	Total	Water.	Diphtheria.	T.B.	Typhoid.	Total for y
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## REPORT FROM LABORATORY OF INSTITUTE OF

	Dip	htheri	tic sw	abs	Tub	วทร	Typ	hoid	Past preve	ntive	Ra	abies d	liagno	sis
	Rele	ease	Diag	nosis	spt	ııa.			treat	ment				
Municipalities	+	_	+	_	+	_	+	_	Саѕсв	Number of injections	Animal	Neg bod		Animal inoculations
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Adelaide					1									
Alvinston			1									• • • •	• • • •	• • • •
AppinArkona				9	1	2								
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Belle River				1										
Belmont		2												
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Camlachie			1	5	5	15		3						
Clinton			1					1						
Comber			1	3		1								
Courtright					3	2								
Dorchester								2	2					
Dresden						1								
Drayton				1										
Dutton						2								
Exeter				2		1								
Ford City		1	1	1					• • • •				• • • •	
Glencoe				4		1			• • • •			• • • •		
Harrow			1	3		5								
Harwich				i		-								
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Ingersoll				6		4								
Innerkip				, 1		2								
Inwood			1					2	2					
Kingsville	1	1	7	2				2	2					
Lambeth						5		1			• • • •			
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Mount Brydges				i		6					1			
Mount Elgin					1									
Oakville														
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Thamesville				1	1									
Thamesford				]	2						• • • •			
Thorry Thorndale Thamesville Thamesford Waterloo Walkerville Wallacetown Watford					2									
Wallacatown	1			1		]		1 2						
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## PUBLIC HEALTH AT LONDON FOR YEAR 1914.

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## REPORT FROM LABORATORY OF INSTITUTE OF

.*	Dip	htherit	ic swa		Tub culc spu	าแร	Typ bloo	hoid ods	Past preve treat		R	bies d	liagno	osis
Municipalities	+	_	+	_	+	-	+	_	Cases	Number of injections	Animal	Neg bod	gri ies —	Animal
West Lorne Wiarton Wilkesport Windsor Wingham Woodstock Wheatley Wyoming Zurich	1 2	21	3 <sub>1</sub>	 89	2			1 2 3						
Total	39	65	83	269	72	196	20	107		• • • •				2

## PUBLIC HEALTH AT LONDON FOR YEAR 1914.—Continued.

			Milk							Dept.	accine	mens.		Ou	tfits	sent (	out.	
Food Content.	Preso		Bac	teriolo	gical.			Wa	ters.	License	Typhoid V.	18 Specimen	month.					year.
Fats. Total Solids.	+	_	ercle	·Pus +					Bacterial.	Liquors for	Doses of Type sent out.	Miscellaneous	Total for mo	Water.	Diphtheria.	T.B.	Typhoid.	Total for y
118								5	1 43	• • • •								4 2 1 125 18 2 12 6 



# Provincial Board of Health of Ontario Experimental Branch

### BULLETIN No. 3.

EXPERIMENTS TO DETERMINE THE ECONOMIC POSSIBILITIES OF SLUDGE FROM EMSCHER OR TRAVIS TANKS.

By A. V. DeLAPORTE, B.A. Sc.

A COMPARISON BETWEEN BLEACH AND LIQUID CHLORINE DISINFECTION.

By C. R. AVERY, M.A.Sc.

DOES ALUM INHIBIT THE ACTION OF CHLORINE AS A DISINFECTANT?

By C. R. AVERY, M.A.Sc., and O. G. LYE, B.A.Sc.

ULTRA VIOLET RAY STERILIZATION OF WATER.

By N. F. PARKINSON, M.A.Sc

# THE EXPERIMENTAL STATION OF THE PROVINCIAL BOARD OF HEALTH.

#### BULLETIN No. 3.

To the Chairman and Members, Provincial Board of Health, Ontario:

GENTLEMEN,—I have the honour to submit herewith Bulletin No. 3 of the Experimental Station, which gives the results of further work in connection with the disinfection of water, some new research on the efficiency of the Ultra Violet

Ray and some notes on the character of Imhoff sludge.

Following up the work done in 1913 in connection with the disinfection of sewage, considerable time was devoted to the disinfection of water, contrasting the action of liquid chlorine with that of bleaching powder. The detail of this work is included herewith. It would appear that liquid chlorine has no greater efficiency than bleaching powder when both are calculated on a basis of parts per million of available chlorine. The slight increase in the cost of the liquid chlorine is probably offset by the lesser space required and the saving in the matter of labour. Mr. DeLaporte's work in connection with the examination at Port Arthur elsewhere reported, indicates that some of the apparatus on the market at the present time for the administration of liquid chlorine is capable of improvement.

In connection with the work of testing the efficiency of the Ultra Violet Ray our Mr. Parkinson has devoted very nearly a year. From his research, the report of which is included herewith, it is apparent that the Ultra Violet Ray treatment of water has many advantages. Certain difficulties in connection with this method of treatment have presented themselves and are well outlined in Mr.

Parkinson's report.

Mr. A. V. De Laporte, B.A.Sc., was in charge of the operations at the Experimental Station during 1914, and in spite of his many duties, has been able to devote considerable time to research. The preliminary report on the economic value of Imhoff sludge is included herewith.

The Department has also had the benefit of the services of Mr. C. R. Avery, M.A.Sc., and Mr. O. G. Lye, B.A.Sc., these gentlemen have contributed a report

on the disinfection of water.

The Department and the Provincial Government owes a debt of gratitude

to all of these gentlemen.

Mr. Parkinson and Mr. Avery left with the Second Contingent as gunners in the 13th Battery, C.F.A. Mr. O. G. Lye has since left as a private with a University company reinforcing the Princess Patricias. Mr. De Laporte is a captain in the C. A. H. C., and is engaged in laboratory work at Second Divisional Headquarters at Niagara Camp.

F. A. DALLYN,

Provincial Sanitary Engineer.

# EXPERIMENTS TO DETERMINE THE ECONOMIC POSSIBILITIES OF SLUDGE FROM EMSCHER OR TRAVIS TANKS.

## A. V. DE LAPORTE, B.A.Sc.

In view of the number of Emscher or Modified Travis Tanks being installed throughout the Province, it was deemed expedient to investigate the economic possibilities of the sludge. Experiments to ascertain the fertilizer, fat and fuel value of this sludge were therefore undertaken and are still in progress. The following report is a summary of the findings and is in the nature of a progress report.

#### FERTILIZER VALUE.

The analysis of Imhoff sludge from several sources, as shown in the tables, when considered together with the high grease content and felt-like character of the sludge, seemed to render unnecessary further investigation into its value as a fertilizer.

Comparison with the tabulated analysis would indicate that while Imhoff sludge compares favourably with a good loam, it has no commercial value as a fertilizer.

	We	t Sludge			Dry Sludge	:
- <del>-</del>	Percentage matter	Solids	Ash	Organic matter	Nitrogen	Fats
From— Recklinghausen Essen IV. W Bochum Beckon, I. W Experimental Station, Toronto, shallow tank	79.34 75.6 75.8 77.6 83.9	20.66 24.4 24.12 22.4 16.1	44.8 45.8 54.9 64.0	45.2 54.9 40.5 36.0 47.0	1.56 1.22 1.102 1.34	6.4 4.89 5.73 2.61 1.40

#### AN AVERAGE ANALYSIS OF SLUDGE

OF THE SHALLOW IMHOFF TANK AT THE EXPERIMENTAL STATION OF THE PROVINCIAL BOARD OF HEALTH.

Wet Sludge Water Ash Volatile on heating	7.5 %	Dry Sludge     0.2 %
	100 %	
Analysis of an average Fertilizer.	*	Analysis of an average Loam.+
Nitrogen Phosphoric acid	8%	Phosphoric acid 0.15 %
Potash	5%	Potash 0.14 %

#### FAT VALUE.

The recovery of the grease content is theoretically possible by any one of the several well known methods:—

- (a) By extraction with solvents.
- (b) By distillation in superheated steam.
- (c) By destructive distillation.
- (d) By rendering—similar to the rendering of butchers' waste.

<sup>\*</sup> Bulletin No. 291, Inland Revenue Department, Canada.
† Report of Experimenta! Farms, 1907, 1908, Department of Agriculture, Canada

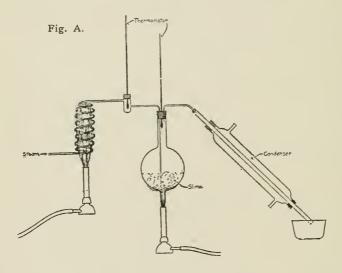
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(a) Extraction was tried first and very satisfactory results were obtained by using different solvents. Ether, benzine, gasoline and carbon tetrachloride were used and comparable results obtained. Twenty-three per cent. grease was the highest obtained during the experiments. The average was fourteen per cent. Some samples were as low as six per cent.

To recover the maximum of grease from the sludge it is necessary to acidify the wet sludge with H<sub>2</sub>SO<sub>4</sub> and then dry. The cost of this treatment, taken in conjunction the low price and limited market for the product, is such as to render it

unprofitable.

(b) Distillation in steam was carried out in the apparatus shown in Fig. A. No results were obtained until the temperature of the steam entering was raised to 300°C. when a light yellow oil distilled which had a characteristic odour. No difference was observable between samples acidified with H<sub>2</sub>SO<sub>4</sub> and those which had not. The average yield of oil was 4.5 per cent. by weight of the dried sludge. The liquor collected from the condenser had some ammonia, and also on evaporation a small amount of oil. This method was obviously of no commercial use, the quantity of steam required and the small yield of oil being the principal reason for no further investigation of this method.



DISTILLATION OF IMHOFF SLIME WITH SUPERHEATED STEAM

(c) Destructive distillation of the sludge showed possibilities. The grease given off during the combustion was distinctly inflammable. A high yield of oil (20 per cent.) was obtained.

The gas was made up roughly of-

By v	olui	ne
Carbon dioxide		
Oxygentrace		
Carbon monoxide	%	Nitrogen by difference13.8 %
100	C/a	

and was of good illuminating quality, burning freely in a Bunsen burner.

A fractional distillation of the resultant oil gave the following factors:

20 per cent. between 70°C.—85°C.—a light yellow oil.

6 per cent. between 85°C.—105°C.—

0—between 105°C.—110°C.—

20 per cent. between 110°C .--

The latter 20 per cent. was a white fat, which looked and smelt like lard. At 300°C, nothing was left but a black tar very similar to coal tar.

The results of distillation summarized as follows:

Original dry sludge 100 grams 
$$\begin{cases} \text{Residuum 60 grms.} & \text{Obtained 15 litres of gas} \\ \text{Distilled 40 grms.} & \text{5 grms of light oil} \\ \text{5 } & \text{6 of heavy oil} \\ \text{3.5 } & \text{6 grease} \\ \text{2.} & \text{6 of grease} \\ \text{2.} & \text{6 of grease} \\ \text{3.6 } & \text{6 grease} \\ \text{3.6 } & \text{6 grease} \\ \text{3.6 } & \text{6 grease} \\ \text{3.6 } & \text{6 grease} \\ \text{3.7 } & \text{6 grease} \\ \text{3.8$$

A rough estimate of the sludge obtained in our Imhoff tank is 3 cubic yards per million gallons of sewage. That equals about 6,000 lbs. of sludge. The moisture content of this sludge per million gallons of sewage is 4,500 lbs. of water. In view of the fact that the moisture content of sludge varies considerably, it is convenient to consider only dried sludge as a basis of calculation. The amount of dried sludge obtained in a city of the size of Toronto would appear to be between 25 and 40 tons daily.

If this sludge were destructively distilled we should obtain approximately 1,280,000 cubic feet of illuminating gas worth between 25 and 50 cents a thousand

cubic feet, therefore having a value of about \$500.00.

4,000 lbs. of saponifiable grease worth about \$100.00.

3,500 lbs. of tar and 4,000 lbs. of light oil and 15 tons of ash. Thus the value of this material wasted a day in a city the size of Toronto would be in the neighbourhood of \$700.00. The cost of recovery of this material is, however,

impossible to estimate without the installation of a plant.

(d) Rendering. No investigation has been made into the possibility of rendering the sludge, no apparatus suitable for the purpose being at hand. The fuel value of the sludge was given scant consideration after two or three tests in a bomb calorimeter, the highest value obtained being 2,000 calories. The very low calorific value and high ash makes it useless as a fuel.

The results to date are as follows:-

(a) The sludge has practically no value as a fertilizer or a fuel.

(b) Extraction for the recovery of the grease or distillation with super-

heated steam would not pay.

(c) Destructive distillation designed to recover the grease, gas, ammonia, etc., might cover expenses. It is impossible to say without first running a small plant.

Biblio	graphy—
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	Sewage SludgeElsmer and others
	Eng. Record
	Eng. Record
	Mun, J., Eng32, 483
	Rev. Chem. Inst

## A COMPARISON BETWEEN BLEACH AND LIQUID CHLORINE DISINFECTION.

### BY C. R. AVERY, M.A.Sc.

On account of the claims made by the advocates of liquid chlorine on the one hand and by advocates of bleach on the other, the following work was undertaken with the idea of ascertaining what if any difference existed between the disinfecting quality of bleaching powder and liquid chlorine when used in water treatment.

From the results of the following experiments it is evident that the disinfecting qualities may be considered in all respects equal on an available chlorine content basis. Taking the results as a whole the advantage of what difference there is seems to lie with the bleach. This difference is small, however, and the conclusion is that if a normal water supply be treated with the same amount of available chlorine, whether from bleaching powder or liquid chlorine, and provided proper mixing takes place, the disinfection in either case will be the same.

In this report no account has been taken of the problems of mixing and other problems more or less of a mechanical nature met with in municipal Chlorination, Plants. It is quite true that both methods have their advantages and disadvantages, experience has shown that the most fool proof arrangement is the best with regard to treating a water supply. A municipality should be well advised and should look carefully into the matter of plant arrangement before deciding which of the two to use. The difficulty of obtaining proper diffusion is probably the most serious one facing liquid chlorine. Whereas the bulky nature of the bleaching powder plants will always militate against them.

#### METHOD OF CONDUCTING THE WORK.

The liquid chlorine used in this work was supplied to the City of Toronto by the Leavitt-Jackson Company, from one of their drums or carboys. A saturated solution was secured which served for making the standard solutions used in the following work. In order to ensure a fair comparison the solutions used for disinfecting the samples were prepared and titrated by the Chemist at the Experimental Plant immediately before use.

TABLE 1.

SEWAGE INFECTED WATER TREATED WITH 0.2 PARTS PER MILLION AVAILABLE CHLORINE REDUCTION OF BACTERIAL GROWTH,

		Source of Available Chlorine.									
Date of Experiment.	]	Bleaching	Powder		Liquid Chlorine.						
	Initial Count.	20 min. Action.	50 min. Action.	90 min. Action.	Initial Count.	20 min. Action.	50 min. Action.	90 min. Action.			
December 31, 1914	3,266	2,400	800	C. count. 720		4,800	520	1,400			
January 4, 1915	11,000	1,280 10,400	5,000 5,000	450 7,000		11,000	1,100 12,000	1,600 7,800			
		7,000 5,600	6,500 3,600	8,800 3,200		8,000	8,800 4,800	6,500 4,800			
	6,733	5,500	4,000	4,200 5,600	average	6,800	4,800 4,800 7,200	4,000 2,800			
6	10,200	2,500 4,400	3,000 2,800	4,400 3,400	8,738	6,400 1,200	440 200	1,500 250 400			
· · · 7	1.600	6,000 2,800	3,200 1,600 2,800	1,000 300 180		480 2,400 2,200	1,600 720	2,100			
8	23,333	1,600 16,000 10.000	9,600 11,000	3.600 4,400		7,200 8,800	5,200 8,400	1,000 2,000			
Average Per cent. Reduction		5,734 35.5	4,182 52.0	3,375 61.3	8,738	5,247	4,327 50.4	2,625 70.0			
-		· · · · · · · · · · · · · · · · · · ·	37°-40° (	Count.							
December 31, 1914		760	360	160		760	240	440			
January 4, 1915		980 2,800	340 2.800	360		1,100 3,200	450 4,800	220 4,200			
	average	2,900 4,000	3,600 1,800	2,400 4,400	average	2,500 5,000	3,600 2,500	2,900 1,500			
	5,376	4,500 4.800	2,000 2,800	2,600 2,400	5,376	4,000 5,000	3,200 800	1,600 1,400			
6		4,500 1,000	3,000 360	2,000 800		3,200 200	4.400 160	1,600 220			
·· 7		1,400 2,000	300 4,800	800 1,000		300	2,800	280			
8		1,900 8,400 7.200	1,900 3.000 2,800	1,200 1,050 1,600		1,600 2,400 2,000	5,600 1,680 2,000	2,200 1,000 640			
Average		3.367	2.133 60.3	1,515 71.8	5,376	2,304 57.1	2,316 56.9	1,371 74.5			
		Colon	Group. (	per 100 c	.c.)						
December 31, 1914	550	100	20	0		100	20	100			
January 4, 1915	1,000 1,000	100 100	100 100	100 100	average	$\frac{20}{100}$	100 100	100			
" <u>5</u>	100 10,000	100 100	20 20	100	4,664	100 100	100	100 100			
,, 7 ,, 8	10,000 10,000	$\frac{100}{100}$	100 100	100 20		100 100	100 100	100			
Average Per cent. Reduction	4,664	100 97.8	65 98.6	60 98.7	4,664	88.6 98.0	88.6 98.0	71.4 98.5			

TABLE 2.

SEWAGE	INFECTED	WATER TREATED	WITH	0.4 PARTS	PER MILLION	AVAILABLE CHLORINE
		REDUCTION	N OF	BACTERIAL	GROWTH.	

				Sourc	e of Avai	ilable Chl	orine.		
Date of	Experiment.	]	Bleaching	Powder			Liquid (	Chlorine.	
		Initial Count.	20 min. Action.	50 min. Action.	90 min. Action.	Initial Count.	20 min. Action.	50 min. Action.	90 min. Action.
December	r 31, 1914		520 240	18°-22°0 100 200	C. count. 200 70		600 1,400	200 120	400 400
January	4, 1915		7,200	4,000	5,200		6,400	1,700	4,800
. 6	5	average 8.738	5,000 3,400 5,600	5,600 $1,200$ $1.800$	2,600 1,600	average 8,738	2,200 2,400	4,400 2,200	6,800 1,200
4 4	5		400	150	480 80		3,600 1,600	1,800 1,800	720 180
6.6	6		$\frac{450}{140}$	$\frac{160}{110}$	200 50		4,000	2 800 50	$\frac{140}{30}$
4 4	7		120	70	70		70	60	20
			200 380	50 20	80 40		960 440	200 160	$\begin{array}{c} 10 \\ 20 \end{array}$
6 4	8		3,600 4,400	540 800	$\frac{500}{120}$		2,450 2,000	1,600 1,600	400 450
	Reduction	8,738	2,261 74.1	1,057 87.9	806 90.7	8,738	2,371 72.8	1,335 84.8	1,112 87.3
		`	:	37°-40° (	Count.				t
December	r 31, 1914	800	520	28	22		400	440	43
January	4, 1915	5,066	900 3,200	80 650	$\frac{28}{650}$		860 3,600	$\frac{160}{1,600}$	$\frac{25}{1,600}$
4.6	5	3,866	3,600 2,500	3,200 2,000	$\frac{850}{1,200}$		2,800 3,000	2,800 1,600	2,800 400
	5	4.600	4,200 2,000	1,600 700	600 100	average	$2,400 \\ 250$	1,000 70	$\frac{400}{60}$
4 6	6	10,866	2,200 40	1,050	120	5,376	170	50	40
			240	0	60 60		30 30	$\begin{array}{c} 40 \\ 20 \end{array}$	50 50
• 6	7	2,966	$\begin{array}{c} 200 \\ 200 \end{array}$	280 80	$\frac{150}{90}$		600 700	$\frac{2.400}{4.000}$	100 180
6 +	8	9,466	2,800	100 150	240 200		400 500	400 500	170 130
	Reduction	5,376	1,785 66.8	708 86.8	312 94.3	5,376	1,124 79.0	1,077 79.9	430 91.9
			Colon	Group.	(per 100 c	e.c.)			
	31, 1914		100	20	0		20	0	0
January	4, 1915		$\begin{array}{c} 100 \\ 100 \end{array}$	$\frac{100}{100}$	100 100		20 100	100 100	100
6 6	5	4,664	100	20	20	4,664	100	20	20
	_		20 100 100	$\frac{4}{20}$ $100$	0 4 0		100 100 100	100 100 100	20 0
	Reduction	4,664	89 98.1	52 98.8	42 99.3	4,664	77 98.3	74 98.4	21

TABLE 3.

Sewage Infected Water treated with 0.6 parts per million Available Cchlorine Reduction of Bacterial growth.

				Source	ce of Ava	ilable Chlorine.					
Date of	Experiment.		Bleaching	Powder	•	Liquid Chlorine.					
		Initial Count.	20 min. Action.	50 min. Action.	90 min. Action.	Initial Count.	20 min. Action.	50 min. Action.	90 min. Action.		
Decembe	r 31, 1914		26	4	C. count.		440	10	40		
January	4, 1915	average.	10 800	$\frac{10}{240}$	500		90	2,400	60 240		
4 .	5	8,738	200 800	260 120	300 70	8.738	1,100 200	1,200 240	320 60		
		0,100	200	240	60	0,700	200	300	30		
6 6	5		700 400	$\begin{array}{c c} 120 \\ 80 \end{array}$	30		6	12 12	10 10		
6 6	6		16	2	7		9	4	2		
	7		8	1 4	2 0		5 5	5 25	2 2		
6 6	8		2 450	$\frac{2}{240}$	4 54		320	7 120	100		
	0		520	180	80		400	120	70		
	ges	8,738	295	107	80	8,738	313	318	68 99.2		
rer ce	nt. reduction	• • • • • • •	96.6	98.7	99		96.4	96.3	99.2		
			3	7°-40° C	ount.						
Decembe	r 31, 1914		140	6	10		480	28	10		
January	4, 1915	average.	110 200	$\frac{18}{200}$	7 80		$\begin{array}{c} 410 \\ 1,200 \end{array}$	$\begin{array}{c} 48 \\ 240 \end{array}$	5 150		
			180	80	40		1,800	280	110		
	5	5.376	360 360	200 60	10 50	5,376	160 80	200 180	40		
6 6	5		70 50	30 30	20 20		300 120	10 30	20 0		
6 6	6		16	3	2		30	20	4		
6 6	7		6 8	$\frac{2}{12}$	$\frac{1}{16}$		80	15 20	2 5		
6 6	0		6	16	15		50	22	15		
	8		240 200	$\frac{100}{60}$	36 38		320 220	200 80	20 16		
Averag	ges	5.376	139	58	24	5,376	375	98	28		
	nt. reduction		97.4	98.9			93.0	98.1	99.5		
			Colon	Group.	(per 100	e.c.)					
		average.		L. Cup.	)						
Decembe			20	0	0		20	0	0		
6.6	4, 1915 5	4.664	100 100	$\frac{20}{20}$	20	4,664	$\begin{array}{c} 20 \\ 100 \end{array}$	4 4	$0 \\ 4$		
6 6	5 6		100	20	20		20	20	4		
	7		20 20	0 20	$\begin{array}{c} 0 \\ 4 \end{array}$		20 100	$\begin{array}{c} 0 \\ 20 \end{array}$	4		
6 6	8		100	20	0		100	100	0		
Avera		4,664	65	14	7	4,664	54	21	1		
Per ce	nt. reduction		98.6	99.7	99.8		98.8	99.5	99.9		

TABLE 4.

SEWAGE INFECTED WATER TREATED WITH 0.8 PARTS PER MILLION AVAILABLE CHLORINE REDUCTION OF BACTERIAL GROWTH.

			Source	ee of Avai	ilable Chl	orine.		
Date of Experiment.		Bleaching	g Powder			Liquid (	Chlorine.	
	Initial Count.	20 min. Action.	50 min. Action.	90 min. Action.	Initial Count.	20 min. Action.	50 min. Action.	90 min. Action.
December 31, 1914	4	120	18°-22°0	C. count.		56	16	20
	average.	10	6	3		25	4	18
January 4, 1915		$\frac{360}{220}$	320	180	8,738	$\frac{720}{320}$	$\begin{array}{c c} 160 \\ 40 \end{array}$	$\begin{array}{c} 10 \\ 10 \end{array}$
	8.738	100	34	3		48	4	3
5		70 14	30 4	9		$\begin{array}{c} 25 \\ 14 \end{array}$	9 8	1
		15	6	0		10	4	4 1
6		$\frac{10}{6}$	2 2	4		4	1	1
" 7		1	16	$\frac{2}{0}$		7 3	4	1 0
		4	2	0			0	0
* * 8		60 45	$\frac{40}{25}$	8 8		$\frac{400}{230}$	$\frac{160}{100}$	$\frac{120}{100}$
Averages	8,738	74	38	16	8,738	133	37	21
Per cent. reduction		99.1	99.6	99.8		98.5	99.6	99.9
					-			
		3	7°-40° C	ount.				
December 31, 1914		12	7	7		4	4	
January 4, 1915	average.	16 32	$\frac{5}{22}$	$\frac{4}{6}$		$\begin{array}{c} 12 \\ 22 \end{array}$	10 11	$\frac{2}{4}$
January 4, 1919	5,376	24	10	7	5,376	18	19	6
" 5		68	68	24		40	6	4
5		70 40	30 30	$\begin{array}{c} 14 \\ 0 \end{array}$		50 20	13 5	$\frac{10}{2}$
		30	15	ĺ		22	2	2 2 0
" 6		7 5	$\frac{6}{2}$	0		24	6	$0 \\ 1$
· · · · · · · · · · · · · · · · · · ·		19	30	$\frac{1}{4}$		8	80	30
" 8		5	6	8		4	20	2
" 8		80 12	24 14	$\frac{24}{12}$		80 28	$\frac{100}{32}$	$\begin{array}{c} 24 \\ 22 \end{array}$
Averages Per cent. reduction	5,376	30 99.4	19 99.6	8 99.8	5,376	24 99.5	22 99.6	8 99.8
		Colon	Group. (	per 100 c	.c.)			
December 31, 1914	average	20	0	0	average.	4	0	0
January 4, 1915		0	0	0	4,664	4	0	0
, , , , , , , , , , , , , , , , , , ,		100 100	4 4	$\frac{0}{20}$		$\frac{100}{20}$	20 .	0
6		4	0	0		20	0	0
;; 7 8		20 100	20 4	• 4 0		20 4	4 20	20 0
	4,664			3.4			7	3
Averages		51.4 98.8	4.5 99.9		4,664	$   \begin{array}{c}     24.4 \\     99.5   \end{array} $	99.9	99.9
					1			

TABLE 5.

SEWAGE INFECTED WATER TREATED WITH 1.0 PARTS PER MILLION AVAILABLE CHLOBINE REDUCTION OF BACTERIAL GROWTH.

	RE	DUCTION	OF BACT	ERIAL GR	OWTH.				
			Source	e of Ava	ilable Chl	orine.			
Date of Experiment.		Bleaching	g Powder.		Liquid Chlorine.				
,	Initial count.	20 min. action.	50 min. action.	90 min. action.	Initial count.	20 min. action.	50 min. action.	90 min. action.	
December 31, 1914 January 4, 1915		3 2 80	18°-22°0 6 7 40	C. count. 5 3 6	8,738	50 12 50	2 2 3	7 19 5	
· · 5		48 12 40	$\begin{array}{c} 3 \\ 28 \\ 6 \end{array}$	10 1 1		60 30 12	$\begin{array}{c} 7 \\ 15 \\ 2 \end{array}$	$\frac{6}{4}$	
" 5 " 6		4 5 16 8	1 3 9 3	0		0 1 10 3	3 4 4	1 2 1 1 2 0	
" 7 " 8		1 1 6 10	4 3 2 6	0 0 7 11		6 0 50 16	0 0 15 7	0 1 8 4	
Averages Per cent. reduction	8,738	17 99.8	99.9	$\frac{11}{3}$ 99.9	8,738	22 99.7	5 99.9	3 99.9	
		3'	7°-40° Co	ount.					
December 31, 1914	average. 5,376	9 11	2 3	3 7	5,376	8 4	7 3	5 4	
January 4, 1915		8	5 4	8 3		5 7	14 4	3	
" 5 " 5		30 20 18	18 7 12	7 10 0	• • • • • • • • • • • • • • • • • • • •	40 22 5	10 20 9	7 7 5	
· · 6		8 6 4 14	6 6 0 20	$\begin{array}{c} 2\\1\\ \end{array}$	• • • • • • • • • • • • • • • • • • • •	25 6 5 5	5 2 7 38	4 4 3 7 7 5 1 1 3 5 3	
" 8	• • • • • • • • • • • • • • • • • • • •	15 14 16	6 12 11	4 8 10	• • • • • • • • • • • • • • • • • • • •	10 20 12	10 20 12	3 5 14	
Averages Per cent. reduction	5,376	13 99.7	8 99.9	5 99.9	5,376	12 99.7	$\frac{11}{99.7}$	5 99.9	
		Colon	Group. (1	per 100 c.	c.)				
December 31, 1914 January 4, 1915 5 6 7 8	average. 8,664	0 0 100 4 20 4	0 0 4 4 0 4	0 0 20 0 0	4,664	20 0 100 4 20 4	0 0 20 4 0 4	0 0 0 0 0 0 4	
Averages Per cent. Reduction	4,644	$ \begin{array}{c}     4 \\     \hline     16.5 \\     99.7 \end{array} $	1.7	2.8 99.9	4,664	20 24 99.5	7 99.9	$\frac{0}{1}$ 99.9	

Known quantities of water were infected with different amounts of sewage, varying the pollution to such an extent that the counts ranged from 1,000 to 30,000 bacteria per cubic centimeter. In each of the first pair of sample bottles 150 cc. of this infected water was placed, in one sufficient bleach solution was added to treat the sample at the rate of 0.2 or more parts per million of available chlorine, to the other was added an amount of liquid chlorine solution sufficient to give it an equal amount of available chlorine. These samples were analyzed for the bacterial content in duplicate after standing intervals of 20 minutes, 50 minutes and 1½ hours.

Other samples were treated with 0.4, 0.6, 0.8 and 1.0 p.p.m. of available chlorine and analyses made after the same intervals. In order to obtain as accurate results as possible a large number of analyses were made, it was also necessary to be very precise in all quantitative measurements, dilutions and shakings.

## RESULTS IN TABULAR AND GRAPHICAL FORM.

Table 1 shows the results obtained on treating samples of infected water with 0.2 parts per million of available chlorine from bleaching powder; the last four columns show the corresponding results obtained on treating the same samples with a similar amount of liquid chlorine. In the first column are shown counts per cubic centimeter in the untreated samples, the second column shows the counts resulting 20 minutes after the addition of the chlorine, the third and fourth columns show the counts 50 minutes and 11/2 hours, respectively, after the addition of the chlorine. Below each column is shown the average count for the whole series, and at the bottom of the 3rd, 4th, 5th, 7th, 8th and 9th columns are shown the average reductions occurring after the different intervals. The first part of the table deals with the results of the 18°-22° C. counts, then follows the 37-40 degrees C. counts and the colon group. On close examination it will be seen that very little difference exists in the disinfection produced by either the bleach or the liquid chlorine. Where small quantities of chlorine are used the time interval after treatment is of much greater importance than when larger quantities of chlorine are used. Summing up the action of 0.2 parts of available chlorine, whether from bleach or liquid chlorine, the reduction in the counts is not high but the reduction in the colon group is remarkable when one considers the high pollution of the water samples and the small quantity of disinfectant used. So close are the reductions by either disinfectant throughout that it would be unfair to say that the advantage lies with either.

The arrangement of the remaining tables illustrates the difference in the actions of 0.4, 0.6, 0.8 and 1.0 parts of available chlorine per million. With regard to the results, little further comment is necessary, the close similarity between the disinfecting action of the bleach and liquid chlorine is self-evident throughout the entire work.

In order to test the advisability of using a colorimetric method of testing for free chlorine, after the plating was completed the bottles were left in a row and treated with equal quantities of Pot. Iodide solution, starch solution and acetic acid (about 2 cc. of each). The samples containing the liquid chlorine were a deeper color than those treated with bleach and the color was not nearly so well graded. In both cases the tint was very slight and uncertain in any sample which had been treated with less 0.8 p.p.m. of available chlorine. This shows how unreliable it is to depend on the color test as a measurement of the disinfecting action.

### TECHNIQUE.

Technique used in making the comparative analysis for bleach and liquid chlorine disinfection.

On the back of the table a row of bottles is placed, each containing 150 cc. of water sample used. In front of these are placed one or more rows of dilution bottles each containing 100 cc. of sterile water. At a noted time bottle No. 1 was treated with sufficient standard bleach solution to give it 0.2 p.p.m. of available chlorine, two minutes later bottle No. 2 was treated with sufficient to give it 0.4 p.p.m., and so on. After 10 minutes bottle No. 6 was treated with liquid chlorine solution to give 0.2 p.p.m., after 12 minutes No. 7 was treated with sufficient to give 0.4 p.p.m., after 18 minutes all samples had been treated. After 20 minutes bottle No. 1 was analyzed, after 22 minutes bottle No. 2 was analyzed, etc., so that each sample was analyzed 20 minutes after adding the chlorine. In a similar manner as will be seen from the schedule each sample was also analyzed 50 minutes and 1½ hours after the addition of the chlorine. This schedule was rigidly followed throughout so that there was no variation whatever in the storage periods.

## DOES ALUM INHIBIT THE ACTION OF CHLORINE AS A DISINFECTANT.

BY C. R. AVERY, M.A.Sc., AND O. G. LYE, B.A.Sc.

There are sometimes instances whereby it may be expedient to mix alum solution with bleach and add the two solutions together to a chemical filter inflaent or the solution may be run separately into an influent tank or well where mixture takes place. When either of the above instances takes place, does the alum inhibit the action of the chlorine as a disinfectant? A series of experiments conducted at the Experimental Station indicates that while the addition of alum immediately causes a considerable reduction in the available chlorine content as measured by titration with sodium thiosulphate, the disinfecting qualities of the bleach are not apparently affected under a period of twelve hours.

The standard bleach solution used was of such strength that 1 cc. contained 100 parts of available chlorine per million. One centimeter of this solution added to 99 cc. of the sample to be analyzed gave one part of available chlorine per million; samples used treated with 0.6, 0.8 and 1.0 parts of available chlorine per million, no other qualities being used in these experiments. In order to obtain these amounts it was only necessary to add 0.6, 0.8 or 1.0 cc. of the standard bleach

solution to 100 cc. portions of the sample.

The standard bleach solution was divided into four portions, the first to be used as it was, to the 2nd sufficient alum was added so that on adding 0.6 cc. to 100 cc. of a sample the sample would contain 2 or 6 grains per gallon of alum as the experiment required. Sufficient alum was added to the 3rd so that on adding 0.8 cc. to 100 cc. of a sample, the sample would contain 2 or 6 grains per gallon of alum as before.

To the 4th enough alum was added so that 1 cc. to 100 cc. of sample gave the sample the same quantity of alum per gallon. Series of experiments were conducted using both these quantities of alum.

THE EFFECT OF ALUM ON BLEACH SOLUTIONS FROM A BACTERIOLOGICAL POINT OF VIEW.

The addition of alum to bleach solutions did not have the effect of lowering the bacteriological efficiency along with the reduction of available chlorine until a considerable period of time had elapsed. With the quantity of alum used the lowering of the bacteriological efficiency during the first twelve hours was negligible, after this period a perceptible change in efficiency is evidenced. The addition of varying amounts of alum does not cause results corresponding to the amounts added; the tables showing the effects on sample of two grains of alum per gallon used with the bleach solution are very similar to those showing the effects of six grains of alum per gallon and similar amounts of bleach.

Tables Nos. 1 and 2 show the results obtained on treatment of a series of samples with different amounts of chlorine, contrasted with the results obtained from treating similar samples with bleach containing sufficient alum to treat water at the rate of two grains per gallon. (The solutions were only used when freshly made up, 1½ hours old.) There is very little difference in the reduction in amount occurring in either series. In table No. 1 is shown the average number of bacteria growing on agar-agar and safranin lactose broth in the sample; the average number of bacteria is obtained from the counts on eight plates of the same sample after having been treated with the noted number of parts per million of

## TABLE I.

Showing the immediate influence of Alum upon the Bactericidal power of Bleaching powder solutions, the Bacterial counts are obtained from growth on Agar Media at the noted temperatures.

Dat	e of Experiment.		No. of Exp. in	Bacterial Counts. Bleach only.				Bacteria! Counts Bleach and 2 grains per gallon of Alum.			
	1915.	Bleach.	average.	Raw.	.6 parts.	.8 parts.	1.0 parts.	Raw.	.6 parts.	.8 parts.	1.0 parts
Feb.	3rd 4th 5th	30 30 30	8 8 8	*2,620 *7,620 *2,610	18°-22°C 18 564 2	. Count., 5 62 2	2 13 0.3	2,620 7,620 2,640	25 87 2	6 14 0.1	6 3 0.6
					37° Co	unt.					
Feb.	3rd 4th 5th	. 30	8 8 8	*3,350 *3,720 *4,620	82 194 37	6 7 12	2 3 4	3,350 3,720 4,620	54 45 16	8 20 3	17 2 2
					Colon (oper 100						
Feb.	3rd	. 30	3 3	55,000 5.500 50,500	100 1.000 100	100 100 4	20 4 4	55,000 5,500 50,500	1,000 550 20	1,000 4 20	100 4 4

#### TABLE II.

#### 6 Grains per gallon of Alum.

Dat	e of Experiment.	Mins.	No. of Exp. in average		Bacterial Counts. Bleach only.				Bacterial Counts. Bleach and 6 grains per gallon of alum.			
	1915.			Raw.	.6 parts.	8 parts.	1.0 parts.	Raw.	.6 parts.	.8 parts.	1.0 parts	
Feb.	10	30	8 8	*9.080 *12.000	18°-22°c.   810   93	Count. 20 17	6 5	9,080 12,000	563 63	17 30	8 9	
	-				37° Cou	nt.						
Feb.	10	30 30	8 8	*16,160 *3,210	683	11 49	4 7	16,160 3,210	298 99	38 46	9.5 14	
					Colon G (per 100							
Feb.	10	30	3	55,000 10,000	10,000	100 20	20 46	55,000 10,000	10,000	100 100	100 100	

<sup>\*</sup>Four samples only.

TABLE III.

Showing the influence of alum upon the Bactericidal power of Bleaching powder solution, solutions mixed and allowed to stand as noted.

Date of Experiment.		Period of contact.	No. of Exp.	Age of Solution.	Bacterial Counts. Bleach only.				Bacterial Counts. Bleach and 6 grains per gailon of alum.			
		Bleach.			Raw.	.6 parts.	.8 parts.	1.0 parts	Raw.	.6 parts	.8 parts.	1.0 part
ebruary 1	20	30 30 :.0 30	8 8 8 8	new 1 day 2 days 4 days	8,120 7,360 24,000 14,500	18°-22° 170 30 10,850 3,450	Count.  15 6 1,450 590	2,000 45	8,120 7,360 24,000 14,500	60 100 1,080 13,500	36 25 2,400 3,600	13 6 111 3,600
					37°	Count.						
ebruary 1	0	30 30 30 30	8 8 8 8	new 1 day 2 days	2,660 3,700 4,480 8,700	30 30 220 1,720	2 5 595 185	1 2 11 29	2,660 3,700 4,480 8,700	30 130 1,950 7,400	19 52 850 2,100	6 19 643 2,000
				Colo	n grou	p per 1	00 c.c.					
ebruary 1	8, 1915,.	30 30 30 30	8 8 8 8	new 1 day 2 days 4	100,000 55,000 55,000 55,000	400 400 700 1,000	400 100 700 1,000	100 370 47 20	100,000 55,000 55,000 55,000	10,000 70 10,000 10,000	10,000 12 10,000 10,000	10,000 4 10,000 10.000

				IAD.	DE IV.						
Date of Experiment.	Period of contact.	No. of	Age	Bacterial Counts. Bleach only.				Bacterial Counts. Bleach and 6 grains per gallon of aum.			
	Bleach.	Exp.	Solution.	Raw.	.6 parts	.8 parts	1.0 parts	Raw.	.6 parts	.8 parts	1.0 parts
March 16, 1915	30 30 30 30 30	4 4 4 4	fresh 5 hours 12	4,920 8,300 7,050 24,500	18°-22° 895 135 100 650	Count. 175 36 18 127	140 20 14 30	4,920 8,300 7,050 24,500	530 310 375 2,600	31 90 105 335	54 34 21 89
				37°	Count.						
March 16, 1915	30 30 30 30	4 4 4 4	fresh 5 hours 12	4,000 4,350 3,575 14,750	575 255 50 490	97 18 10 56	59 10 10 26	4,000 4,350 3,575 14,750	410 107 90 1 200	20 33 40 300	36 38 28 169
					on grou						
)f 10 1015	90	,									

March 16, 1915	30 30 30 30 30	4   tresh 5 hours 12 '' 4   24 ''	55,000 100,000 55,000 100,000	550 1,000 20 100	100 20 20 20 20	100 20 20 20 20	55,000 100,000 55,000 10,000	55,000 1,000 550 5,500	700 100 20 5,500	400 100 60 1,000
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available chlorine and allowed thirty minutes contact. The reduction which this number represents can be computed by noting the initial number present in the

untreated sample.

Table No. 2 shows the results obtained on treating similar samples of infected water with corresponding chlorine solutions, one of which contained sufficient alum to treat the sample at the rate of six grains per gallon. These results are very similar to those in Table No. 1, showing that the difference in the amount of alum used has apparently no bacteriological effect on the chlorine solution. It will be noticed that the remarkable similarity of results between Tables No. 1 and 2 exist in spite of the great difference in the counts of the untreated samples used in both series. In Table No. 1 the average count in the untreated samples for both temperatures is considerably lower than the corresponding count in Table No. 2.

On account of the wide variation in bacterial count, occurring in the raw sewage used, it was difficult to exert perfect control over the counts in the infected

water used as a basis for this work.

In order to determine what effect standing had upon the efficiency of standard bleach or bleach and alum solutions a series of experiments were performed ex-

tending over a period of four days.

Standard solutions were made up in the ordinary way, sufficient alum being added to treat samples at a rate of six grains per gallon. These solutions were titrated and used at once with samples of infected water, after which they were set aside, no provision being taken to protect them from the light. They were not, however, placed directly in the sunlight. The solutions were again used (after intervals of 1, 2 and 4 days) Table 3. Other experiments were carried on with intervals of 5, 12 and 24 hours as shown in Table 4.

It appears that the dilute solutions retain their disinfecting qualities practically unimpaired for some 12 hours. After this period these qualities fall off considerably, this falling off being more noticeable in the solutions containing alum.

The sustained disinfecting properties of the bleach and alum solutions appear rather remarkable in view of the fact that the available chlorine content as indicated by titration with sodium "thiosulphate" shows a rapid and almost constant decrease from the very first.

## THE CHEMICAL EFFECT OF ALUM IN BLEACH.

The amount of chlorine in parts per million appears to be reduced in direct proportion to the amount of alum added up to a certain limit, after which the further addition of alum has little effect on the available chlorine. Table No. 5 shows the action of a solution containing 142 grains of alum per litre upon bleach solutions of varying strengths. It will be noted, experiment No. 1, that the amount of available chlorine decreases somewhat in proportion with the amount of alum solution added, and after the addition of 20 cc. of alum solution appears to remain constant.

In experiment No. 2 the amount of available chlorine falls rapidly until about 25 cc. of alum solution has been added, after which it also shows a tendency to remain constant regardless of the amount of alum solution added.

In experiment Nos. 3 and 4 the amount of available chlorine falls more than in No. 2, but as the volumes increase with subsequent additions of alum solution the amount of available chlorine becomes more nearly equal to that in No. 2. When 200 cc. of alum solution has been added to No. 4 the concentration is precisely the same as in the corresponding experiment in No. 2, and it will also

TABLE 5.

Amount of Bleach Solution.		Titration showing p.p.m. of available chlorine in Bleach Solutions before and after adding alum.						
	used.	Ì	2	3	4			
10 c.c. Bleach Solution	none.  1 3 5 10 20 25 33 5 100 100 200	5,000 4,900 4,750 4,750 4,580 4,510 3,600 3,500 3,320	2,770 2,300 2,735 2,465 2,360 3,280	3,370 3,350 3,320 3,315	2,940 2,560 2,855 3,000 3,360 3,460			

In Experiments 1 and 2 the volume changes from 30 to 210 c.c. In Experiment 3 and 4 the volume was made constant by the addition of distilled water.

be noticed that the amount of available chlorine is precisely the same. density of the bleach solution appears to determine the extent of the reaction with the alum solution. In all probability hydrolysis takes place in the solutions and if conditions be favorable this chlorine will redissolve and thus account for the greater amount of available chlorine in the solutions with lowest density of bleach solution. Table No. 6 possibly illustrates this.

TABLE 6.

Amount of Bleach Solution.	Stock alum solution, 142 grains per litre, No. of ec.	Amount distilled water used.	Titration showing p.p. m. of available chlorine in Bleach Solutions before and after adding varying amounts of water.				
	used.		1	2	3		
5 c.c. Bleach solution	No alum		1,400 965 1,057 1,042 1,050 1,050 1,070 1,092 1,100 1,155	1,400 1,015 1,035 1,070 1,035 1,042 1,078 1,050 1,078	1,400 990 1,046 1,056 1,042 1,046 1,074 1,071 1,099 1,116		

The remaining Table No. 7 shows the effect of light upon the available chlorine of the bleach solution in the presence of alum. In Table 7 the solutions have been stored in the light of an ordinary room, but not directly in the sunlight. The column headed "light" illustrates the reduction of the available chlorine content of a standard bleach solution after 1, 2 and 4 days of storage subject to conditions of light found in an ordinary room. Column headed "darkness" shows the reduction in available chlorine in the standard bleach and alum solutions described on page 152 under the same conditions but without the influence of light, as in the previous experiment it is noticed that the solutions having the least alum have the least available chlorine.

### TABLE 7.

Table showing effect of light upon the available chlorine in stock solution of bleaching powder and alum. Figures given are parts per million oi available ehlorine at beginning of experiment. Solution contains 100 p.p.m.

Days of Storage.  Light. Darkness.	Bleach	alone.	grains	Same plus 1,000 grains per gallon alum.		plus 750 per gallon lum.	Same plus 600 grains per gallon alum.	
	Light.	Darkness.	Light.	Darkness.	Light.	Darkness.		
1 2 3 4 5	100 95 90 82	100 99 89 89 86	65 29 15 7	66 40 32 26 17	61 37 19 10	63 42 34 30 20	65 28 21 11	66 46 40 36 26

Samples stored in daylight, February 18th to February 22nd, 1915.
'' darkness, '' 24th to March 2nd, 1915.

# ULTRA-VIOLET RAY STERILIZATION OF WATER.

# By N. F. PARKINSON, M.A.Sc.

### INTRODUCTION.

Any examination into the effectiveness of the Ultra Violet Rays in the disinfecting of a water supply divides itself naturally into two separate investigations. First the question of efficiency must be considered from the standpoint of thorough disinfection, and second the cost must be approximately estimated.

In the consideration of the first question is included the determination of the efficiency of two different types of mercury vapour lamps used for the production of the Ultra Violet Rays. The lamps were of the mercury-vapour type, and were supplied by the R. U. V. Co., of New York. Both the lamps are fully described elsewhere.

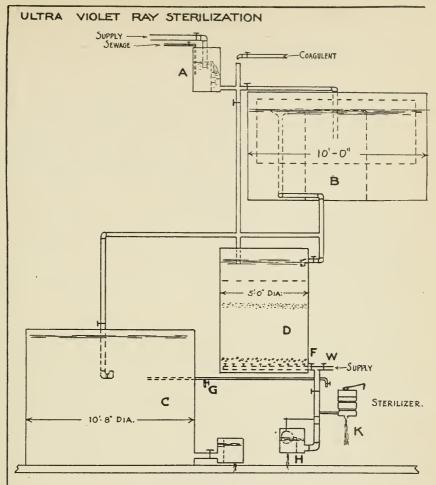
The arrangement of the smaller lamp (B 2 apparatus, Pl. 1, fig. 1.) lent itself admirably to use in determining the relative effect of turbidity and different water conditions upon the bactericidal efficiency of the lamp. The following waters were treated, having in mind the desirability of determining to what extent the efficiency of the system would be impaired by conditions often met with in a raw water supply.

- (1) The effluent from a mechanical filter free from turbidity and all gross particles, and with varying bacterial counts, depending on the rate at which the filter was run and the abuse it was subjected to.
- (2) Sewage-infected tap water, having gross particles present in varying amounts, and with a turbidity of five parts per million (American Public Health Standard).
- (3) Sewage-infected tap water, having gross particles in suspension, and with clayey turbidity added as follows:
  - (a) Turbidity 20 parts per million.
  - (b) Turbidity 20-25 parts per million.
  - (c) Turbidity 30-50 parts per million.

The D.F.† apparatus (Fig. 3, Pl. 2.) had a capacity of 3,000 to 7,000 gallons per hour. It was found impossible to get filtered water to supply this apparatus owing to the capacity and arrangement of the filters at the Experimental Station. Fortunately the City of Toronto\* water was usually of very good quality. The bacterial count of this water at the tap was so low that addition of pollution was necessary for the purpose of these experiments, as in the case of waters 2 and 3 treated in the B2 apparatus. Turbidities up to 30 parts per million were encountered at times, partly owing to the sewage added and partly from the con-

<sup>\*</sup>The City of Toronto takes its water supply from Lake Ontario. In the year 1914 from  $\frac{2}{3}$  to  $\frac{3}{4}$  of the total supply was passed through slow sand filters. Small quantities of hypochlorite of lime are added at Toronto Island after the raw water is added to the filter effluent and some twenty minutes prior to when it reaches the John Street pumping station.

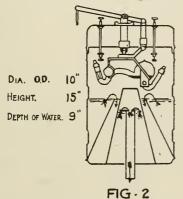
<sup>†</sup>D.F. catalogue description.



FIG·I·

# GENERAL ARRANGEMENT OF 110 VOLT INSTALLATION

Showing Method of obtaining Supply from
GRAVITY MECHANICAL FILTER and SEWAGE POLLUTED TAP WATER.



110 VOLT APPARATUS
being the
B<sub>2</sub> TYPE OF STERILIZER
MNFD BY

THE R.U.V. CO. INC. OF NEW YORK

dition of the tap water from storms affecting the turbidity of the lake water. On account of the sedimentation provided no gross particles of any size reached the apparatus. The presence of minute air bubbles in the sterilizing tank did not seem to affect the efficiency to any great extent.

### PRODUCTION AND EFFICIENCY OF THE ULTRA VIOLET RAYS.

It has long been recognized that light from certain sources is active as a germicide. The germicidal action of light rays has occupied for a considerable period a very prominent place in the deliberations of scientists and sanitarians, especially in the case of sunlight. Messrs. Downes and Blunt, Duclaux and others have demonstrated that solar light is capable of killing bacteria and certain fungal growths, and that this action is due to the ultra-violet portion of the spectrum, that is, to those waves recognized by their chemical activity rather than by their power of producing heat or light, (a photographic plate, exposed in the solar spectrum beyond the point where the visible blue-violet light appears, is rapidly sensitized). The bactericidal power of sunlight is greatly limited for the reason that its Uultra-Violet radiations do not reach the earth in sufficient quantity. The atmosphere absorbs Ultra-Violet Rays and glass behaves in a similar manner.

Research has shown that certain artificial light sources produce these radiations to a large degree. This is particularly true in the case of the mercury-vapour lamp, the rays from which, as seen in the following table, are of such wave length as to give the light powerful germicidal action. This table, and some accompanying information, is quoted from an article by Dr. Jules Courmont, Prof. of Hygiene, Faculty of Medicine, Lyons, and printed in the "Revue Generale des Sciences Pures et Appliquees," Paris. April 30th, 1911.

The wave lengths of light rays are usually measured in units which have received the designation of Angstroms (A. units). The Angstrom unit is equal to (0.000,000,000,000,1) meters. The following gives the wave length of a few different places in the spectrum. For convenient tabulation the unit  $\mu$  is used equal to 1/1,000 millimeter or equal to 10.000 Angstrom units.

Spectrum of Welsbach Light. Upper limit of infra red	Wave Length. 600.0 $\mu$
Solar Spectrum.	
Upper limit of infra red	. 300.0
Upper limit of visible red	. 0.761
Upper limit of ultra violet	
Lower limit of solar spectrum	
Upper limit of bactericidal ultra violet	
Metallic Spectra.	
Inferior limit of mercury spectrum	$0.2225 \mu$
Limit of metallic ultra-violet	

The upper limit of the very bactericidal Ultra-Violet is a wave length of  $0.28\,\mu$  It is seen that the lower limit of the solar spectrum shows a ray length of  $0.295\,\mu$  this just approaches the length required for maximum bactericidal activity.

Ultra-Violet radiations of solar origin, of length smaller than  $0.295\mu$  are entirely absorbed by the atmosphere and hence do not reach us. In order to obtain light which is truly bactericidal (of wave length less than  $0.28\mu$ ), we must have recourse to artificial means.

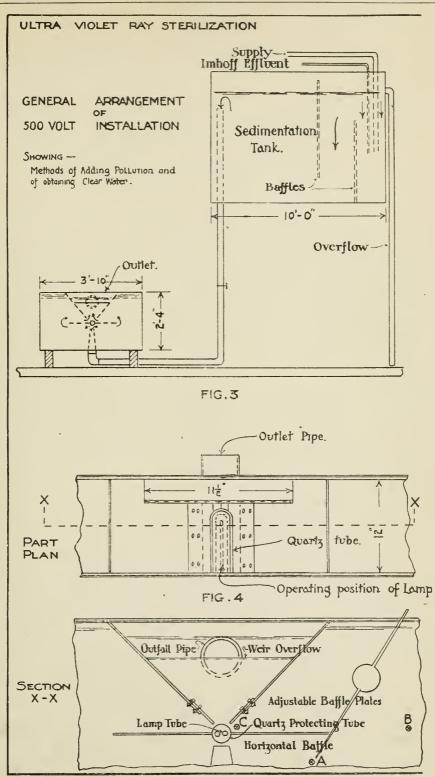


Plate 2.

# ULTRA VIOLET RAY STERILIZATION BACTERIACIDAL PORTION OF THE MERCURY LAMP SPECTRUM. SPECTRUM OF QUARTZ LAMP SPECTRUM OF SUNLIGHT BLUE RED YELLON GREEK VISIBLE SPECTRUM ULTRA VIOLET LIGHT NUPPER LIMIT OF VERY BACTERIACIDAL ULTRA VIOLET FIG.5 SPECTRUM OF QUARTZ LAMP AND OF SUNLIGHT STAPHYLOCOCCUS AUREUS B. CHOLERA B. TYPHOID B. DYSENTERY (SHIGO) (DOPTER) B Cou B ANTHRAX (SPOROGENUS) PHEUMO BACILLUS PRIED SARCINA ALBA AEROGENES CAPSILATUS D. TETAHOS B. MEGATHERIUM B. PHLEOLE SARCINA LUTER PARAMECIA YEAST FIG. 6 SECONDS NECESSARY TO KILL DIFFERENT TYPES OF GERMS AT 200 MILLIMETERS FROM A QUARTZ LAMP BURNING AT 66 VOLTS, 3-5 AMPERES Quartz Tube Protecting Tube! Sample Lamp -Scale . 1 Size Distance

Plate 4.

FIG.7

The quartz Mercury-Vapour lamp is the most powerful of these. Luminescent mercury-vapour is very rich in ultra-violet light. Its Ultra-Violet spectrum reaches from 0.3650 to  $0.2225 \mu$  Quartz is transparent to all light of greater wave length than  $0.15 \mu$  and to all the rays of the spectrum given out by the luminous Mercury-Vapour.

The Ultra-Violet rays of smaller wave length than  $0.28\mu$  are especially bactericidal; those between  $0.28\mu$  and  $0.2225\mu$  from the quartz Mercury-Vapour lampare very destructive to all living cells, and dangerous to any one handling the lamp

without proper precautions.

The spectra of sunlight and of quartz Mercury-Vapour lamp with wave lengths noted are compared in fig. 5 Pl. 3. Here is shown graphically, what Prof. Courmont states in his article, the overlapping of the quartz lamp spectrum into the field of bactericidal activity, while that of the sun, due to its passage through the atmosphere, stops before this point of maximum activity is reached.

Some work has already been done concerning the efficiency of the rays in the killing of bacteria, with pure culture of different forms, using a small 66-volt lamp, burning 3.5 amperes. Dr. M. Von Recklinghausen, at Sorbonne University, gives the result in graphic form (fig. 6, Pl. 3) showing a comparison of the

resistance of different types of bacteria to the rays.

In the progress of the work herein reported upon pure cultures of the different bacteria were not experimented with; a comparison between ordinary water bacteria and those growing at body temperature was however carefully made. The exposure was either in the ordinary commercial types of apparatus or by means of a quartz tube of dimensions and form as shown in fig. 7, Pl. 3. In the bulb of this tube the water containing the organisms was inserted by means of a pipette, care being taken not to wet the sides of the tube in doing so. Then the bulb was immersed in the tank until it was in the plane of the lamp, and at a predetermined distance. The screen was then removed from between the bulb and the lamp and the exposure timed carefully, the screen was then replaced and the bulb removed, the water being examined in the usual manner.

Results obtained in this way are found on page 214. They point out the fact that the sterilizing action is largely accounted for in the first close contact that occurs. Thus in five minutes exposure at a distance of 22 inches from the light the action is not as great as in two minutes at 9 inches from the light, while it takes three minutes at this latter distance to sterilize the water. However, when we expose the water as close to the lamp as possible, that is the sample tube touching the protection tube and creating a film of water about 3/8 inch in thickness next it, the sterilizing action is completed in a very small fraction of a minute and if we could expose the water in a thin film, the sterilization would

be practically instantaneous.

In the remarks under the sub-heading of apparatus which follow, the conditions affecting the operation as well as the construction of the different forms are gone into, and the effect of altering the path of the water through the apparatus is also noted. The results were obtained from research carried on with a view to determining the efficiency of the unit.

### APPARATUS.

The two forms of apparatus employed in this work are illustrated on Pls. 1 and 2, the form of the separate lamps being shown in detail on Pls. 1 and 4.

The 110-volt lamp (B2 type) is of different form from the 500 volt lamp. When in operating position the lamp is suspended over the surface of the water.

The water is passed through a cylindrical tank with baffles so arranged as to give two close contacts between the water and the rays of the lamp. The mercury arc burns from one end of the tube to the other, and since the lamp is suspended above the surface less than one-half of the rays are downward. This causes the loss of over 50 per cent. of the emanations of the lamp. (Ultra-Violet rays cannot be reflected like ordinary light rays.) The tank was 12 inches in diameter and 14 inches deep, the depth of the water being about 9 inches. The water is exposed to the rays during all the time it is in the tank. According to experiments, the effective penetration of the ray is greater than the depth in this tank.

The 500-volt lamp used with the larger apparatus is of altogether different form from that employed in the smaller outfit. This lamp is surrounded by water and all the rays are utilized in sterilization. A sketch of the lamp itself is shown in Pl. 4, the method of generating the rays being the same as in the smaller type, namely by means of the mercury vapour arc, which is carried the length of the "U" tube. The sterilizer apparatus consisted of a metal tank arranged as shown. The

water is brought into close contact with the rays on two occasions.

Both these (the D.F. and B2) types are for gravity installations, that is they discharge the water by an overflow and not under pressure. The use of the pistol lamp, (Pl. 4, fig. 8), however, makes it possible to construct pressure apparatus very easily. This apparatus may be placed either on the suction or discharge side of pump or in a water supply pipe line, and it does not necessitate a repumping or the provision of an extra pump well in a municipal plant. In Pl. 4 are shown two of these types of pressure apparatuses, one being a unit which is adapted for municipal use (fig. 10), while the other, E. type (fig. 9) is used extensively for boat supplies, public buildings, swimming pools, etc.

The gravity apparatus offers certain disadvantages for industrial or domestic purposes which are overcome to a great extent in the pressure type. That is to say, with the former type a storage tank must be used and the discharge from the apparatus must be at a sufficient height to deliver by gravity to the taps, otherwise

repumping is necessary.

A particularly objectionable feature in the B2 apparatus exists in the case of water having small amounts of oil and other substances of low specific gravity in suspension. These substances come out of suspension and float on the surface of the water in the apparatus, and are held there by the baffle arrangement. The action of the rays is considerably interfered with by this screen.

In the type in which the lamp is suspended above the water there is a lack of economy. This form of apparatus is used where the supply of water required is small and a cost of 6 to 10 cents per day is negligible. (The apparatus is equivalent to a 34 horse power dynamo) and should be operated only off a power

line.

In the case of the 500-volt apparatus the baffles were all movable and some work was done to determine the functions of the various parts, for instance, the opening between the baffles and lamp was changed or the horizontal baffles were removed entirely. These results may be of interest and are here given.

Ten samples of the inflowing and outflowing water were taken under each separate set of conditions and the averages of the results are given in table form.

Table I.

The method employed was to take samples first with the baffles all in place, and at a rate of 3,000 gals. per hour; that is the horizontal baffles were untouched, while the upper inclined opening (the bottom one was not capable of adjustment) between the baffles and the lamp was varied from 1/4 inch to the maximum of

2½ inches, ten samples being taken under each set of conditions. The contacts were two in number, one between the riser pipe and the lamp of ½ inch, and the other of ¼ to 3½ inches as stated. The horizontal baffles were then entirely removed and the water run through at the same rate, and with similar changes in the inclined baffle opening.

TABLE 1.

Adjustment of Baffles.

D /	Horizontal	Opening in the	Turb	idity.	Percentage Bacterial Removal.	
Date.	Baffles.	Inclined Baffles.			18-22° C. Count.	37.5° C. Count.
Dec. 24	In place  ''  ''  Removed	1 inch. 12 · · · · · · · · · · · · · · · · · ·	1 1 1 1 1 30 20 1 20 30 20	350	99.84 99.3 99.8 99.8 99.84 97.5 97.5 99.6 98.7 98.5 99.4	98.7 99.2 99.67 99.7 99.72 98.5 98.4 99.9 99.0 98.6 99.4

The results obtained did not show the variation expected. It was supposed that the baffles were essential in the ordinary work of sterilization, that is to say that by means of them the water was held in contact with the rays for a time in order that the action might be prolonged. However the results given together with the general observations on page ... demonstrate that the initial exposure on leaving the riser is responsible for the most of the sterilization taking place, the presence of the baffles and the second exposure being simply a means of procuring a safety factor in the operation of the lamp.

The treatment of turbid waters is now brought to our attention. With baffles adjusted unfavorably as regards the treatment of water of this character the removal of bacteria was exceptionally high, being well over 99 per cent. with turbidity of 20. With turbidity of 30 and a direct path between the initial and final exposure, that is to say with the horizontal baffles entirely removed, the removal was 97.5 per cent. and 98.4 per cent. as regards the bacteria growing at temperatures of 18-22 degrees C. and 37.5 degrees C. respectively.

The action as regards coli was not ascertained, due to the fact that the pollution of the water was greater than expected and the dilutions used did not define the limits. The bacterial count of sewage varies greatly from day to day, being affected by drainage conditions, and with apparatus arranged for a constant dilution it is difficult to judge as to the colon content of the treated water at any given time.

Following this work, other experiments were undertaken to determine the progress of sterilization in the tank itself. The samples, withdrawn through pipettes (Fig. 4, pl. 2) from the three different points marked A, B, and C, were taken at the same time. By comparison of the counts from different sampling points with that from the influent the progress of the sterilizing action throughout the course of the water in the tank is followed.

The results show once more that most of the sterilization takes place on the first contact of the water with the rays; sample point A shows a reduction in count of 94 per cent. while the increase due to the action of the rays during the passage of the water from the lamp to the side of the tank, back again and past the lamp a second time is accountable for another 3.2 per cent., making a total reduction of 97.2 per cent. from influent to effluent.

The results are the average of 16 samples at each point, the details for which are found in the appendix pages 50-56.

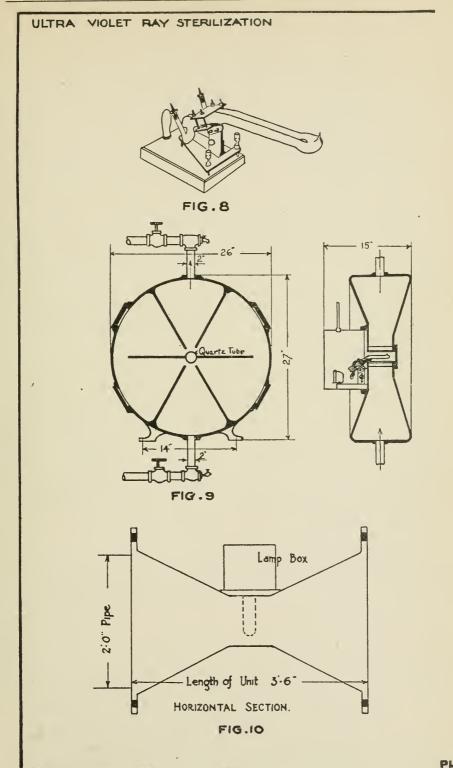
TABLE 2. Progress of Sterilization in "D.F." Tank.

Average Bacterial Count.				Percentage Removal.				
Sample Point.	18-22° C. Count.	37.5° C. Count.	*Colon Fermenta- tion.	18-22° C. Count.	37.5° C. Count.	Colon Fermenta- tion.	Average Removal.	
Influent A B C Effluent	730 50 49.5 23 26	200 17.4 12.7 4.2 16.4	1,230 31 29 29 20	93.2 93.4 96.9 96.4	91.3 93.6 97.9 96.8	97.5 97.6 97.6 97.6 98.4	94.0 94.8 98.1 97.2	

<sup>\*</sup>B. coli per 100 cc. presumptive test.

As regards the operation of the lamps, the small one or B2 apparatus is first considered. Very few difficulties were encountered with this lamp after it was put in running order. Duplicate lamps were sent with the apparatus, which were both broken in transit, and both were repaired by Mr. Mezen of the Department of Physics, University of Toronto; these lamps afterwards operated constantly. The lamp burns with a resistance on a 110 volt line and requires 75 volts across the terminals. On one occasion when the water was turned off and the lamp left burning it overheated and the composition protection on the top of seals burnt off, resulting in an expansion of the mercury in the terminals. The mercury which evaporated condensed on the surface of the water in the form of a white powder. Attention was drawn to this the next day by a dropping off in the sterilization due to the presence of this shield between the light and the water. The lamp did not go out.

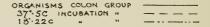
The operation of the 500-volt lamp gave some trouble and this is of interest as regards supervision of installations. The power for the lamp was taken from a 500-volt direct current line, which also supplied power for the pump used for lifting sewage. The voltage on the power line was very unsteady and varied from 450 to 560 volts. On holidays it was low, the supply being cut down on account of low requirements of other customers on the line. During the night this happened to a certain extent, as well as at noon time when the factories partly shut down their machines, a sudden jump occurring early in the morning and at 1 o'clock noon. The lamp, owing to the resistance through which it is operated, burns at 375 volts across the terminals and remains lighted with considerable reduction (10 per cent.) of voltage. A sudden change of voltage of such magnitude as encountered here, or the supply of over 375 volts, breaks the arc. Frequently on Monday mornings the lamp was found out, the watt-meter indicating that the interruptions had occurred between 6.30 a.m. and 7.00 a.m. These abnormal conditions should be controlled in all installations. It is inadvisable to have other



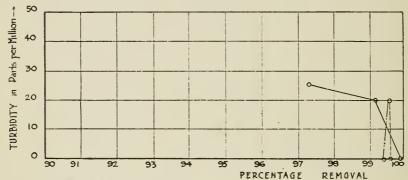
### ULTRA VIOLET RAY STERILIZATION

# EFFECT OF TURBIDITY ON TREATMENT OF WATER WITH ULTRA VIOLET RAYS

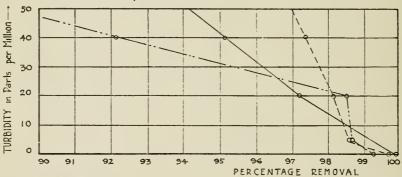
110 VOLT APPARATUS



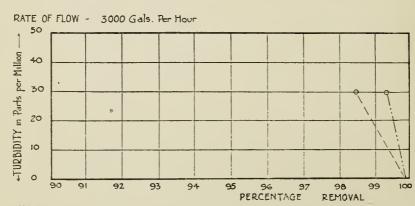
RATE OF FLOW - 75 Gals Per Hour.



RATE OF FLOW - 150 Gals per Hour



500 VOLT APPARATUS



NOTE
VALUES OBTAINED FROM AVERAGES OF 20 to 110 JAMPLES

machines on the same inside line. Machines occasionally get out of order and a fuse will blow out resulting in an interruption of the current. The lamps do not light up automatically, and consequently falling off in disinfection must result.

In most municipal plants, auxiliary lines or storage batteries can be installed, and the unit will consist of several lamps burning at all times, the water passing each lamp in succession. In such an installation the behaviour of one lamp or the going out of a lamp will not affect materially the disinfection going on. Such plants can always be operated under a factor of safety. Overdosing with Ultra-Violet Rays has no such effect as overdosing with chloride of line, which causes an increase in the objectionable taste and odour.

The design of the tank and lamp box on the experimental D.F. apparatus

(Pl. 3) could be modified to advantage.

As regards the tank, the water comes in through a riser pipe, bent to an oval shape, the water discharging against the cylindrical quartz protection tube. It was found a very difficult matter to regulate the flow so as to have an equal velocity through the apparatus on both sides. The riser was made of sheet metal, and irregular in shape. The bottom of the tank being made of thin flexible metal, the centering of the riser was unsteady on account of a springing action. A slight deviation threw the majority of the water to either side of the lamp, thus introducing a possible loss of efficiency. A better arrangement is to introduce the influent through a pipe at the side or bottom and past fixed baffles, similar to the exit.

The ventilation of the lamp box introduced some new trouble. The location of the apparatus was in a particularly dusty part of the plant and the method of ventilation of the lamp box allowed the dust to be carried in. It then circulated into the quartz protection tube carried by the current of air due to the difference in temperature between the lamp itself and the tube. The dust deposited on to the inside surface and in time became dense enough to interfere materially with the action of the rays. Attention was drawn to the accumulation of dust by the decrease in sterilizing power of the lamp. The tube was then removed and cleaned out; at the same time it was found that the tube had been cracked, but whether by a knock administered during the many changes of baffle plates, or whether by temperature extremes, is not known. The tube was replaced after the crack had been repaired and from time to time a piece of absorbent cotton was used to wipe out any dust that had collected there. The only way to guard against this trouble would seem to be the separation of the resistance and the lamp box proper. That is to say that if the source of most of the heat were removed so much ventilation would not be required and the possibility of dust getting in and interfering with the operation would not be so great. Also a fine metal screen might be provided over any ventilation openings in the lamp box.

### CHARACTER OF WATER TREATED.

The source and method of addition of pollution, and the nature of the solids (organic, inorganic or colloidal) thus introduced into the water, are all important points which affect the interpretation of the results, and in order to have all information in connection therewith thoroughly understood the case of each installation is taken up separately.

The accompanying diagram (Fig. 1) shows the arrangement of the B2 apparatus in the system. The tap water and the Imhoff Effluent are mixed in the overflow tank A, the quantities being regulated by the valves on the sewage and water pipes, a constant head being kept on the overflow. A mixture of the two

enters the coagulating tank B. The storage was two hours. This tank in turn over-flowed to C and D, D being the mechanical filter while C is a slow sand filter to which the mixture was also supplied. The discharge of the mechanical filter was regulated by a float valve keeping a constant head over a standard adjustable orifice. The sterilizer was supplied from a pipe inserted in the effluent pipe of the filter, and was arranged so that it could also be supplied from the raw water in tank C, or with tap water directly from the main by opening valve W and closing valve F to the filter.

Other points marked on the diagram indicate points from which the samples were taken. Thus, when filtered water was being treated, the influent sample from the filter was obtained by immersing a sterile bottle attached to a piece of copper wire into the water and allowing it to fill. The filter effluent, or water going into the sterilizer, was sampled at H by holding a sterile bottle under the stream, the effluent from the sterilizer being sampled similarly at K. When treating tap water, the influent sample was obtained at H as before, an excess of water being allowed to escape here.

Tap water, when used with sewage and turbidity added, passed through tank C, which was converted into a mixing tank, the added turbidity being well stirred into the water by means of a paddle, and the sample taken through a tap placed in the line at C as shown.

The turbidity consisted of a hard, blue clay, free from organic matter. This was pulverized in a mortar and well rubbed up into a smooth paste with a small quantity of water before addition to the tank.

The sewage of Imhoff Effluent used for the pollution of the water was a characteristic type of Toronto city sewage. The storage in the Imhoff tank was not more than 20 mins., and as the sewage is pumped directly from a flowing sewer to the tank, it was in a fresh condition when used.

### SUMMARY.

A summary with conclusions arising out of these experiments is now given in order to keep the information under different headings, and in a more accessible form. The manufacturers of the apparatus, the R. U. V. Co., of New York, do not advise the apparatus for use with unfiltered water, requiring a filter effluent or water with zero turbidity and free from suspended matters. Generally speaking if the apparatus were limited in this manner, by being incapable of treating slightly turbid waters, the use of it for water sterilization would be very much restricted. All filter units are liable to break down, and at such a time as when several units are out of commission at once and only part of the supply is filtered, the emergency or follow up treatment must be capable of handling the error, otherwise the system as a whole does not give a safe supply nor meet with the sanitary requirements of a municipality.

Many municipalities, especially those situated on the Great Lakes, have a water supply which is at most times clear, but which on occasion may be subjected to light turbidity due to storm conditions on the lake. The probability of pollution at these times increases, and when a chemical disinfectant is used, great difficulty is experienced in obtaining proper dosage without objectionable taste. Filtration in such a municipality could not be dispensed with unless there were a system of water protection which would be satisfactory in its action during this time of abnormal water conditions. In view of these facts extensive work was done with the R. U. V. apparatus in order to determine the effect of turbidity upon per cent. bacterial removal.

The proportion of work done with filter effluent was small compared with the work done with waters carrying some slight turbidity. There were a few samples taken with the 110-volt installation, when a clear filter effluent alone was used. For the most part the tap water was fairly clear, but owing to the sewage added it was to a certain extent clouded. The turbidity of this class of water in the results with the 500-volt lamp, is under 1 part per million. At times it was slightly over this, but never more than two unless stated. No filter effluent was supplied to the 500-volt apparatus, the supply available not being sufficient for its capacity.

The graphs on Fig. 11 show the effect of turbidity on water treated by the Ultra-Violet Ray up to turbidity according to the American Public Standard of fifty parts per million, the color at the same time being 21. Mr. Geo. C. Whipple states in his figures relative to the Aesthetic Deficiency of Water that when these conditions are encountered, about 55 per cent. of the consumers will object to the quality of the water and that some means has to be adopted to improve the appear-The Ultra-Violet Ray treatment showed up very satisfactorily for these turbidities. In the small apparatus water with turbidity of 50 was treated, with a consequent reduction of 97.4 per cent. in the 37.5° C. count, and 95.2 per cent. in the Colon. In the large apparatus water with turbidity of 30 was reduced in bacterial count by 94.9 per cent., 91.3 per cent. and 99.46 per cent. in the 18-23 degrees C. count, 37.50 degrees C. count and colon fermentation respectively. It is therefore apparent that irregularities in the action of filter plants by a secondary treatment with U. V. R., (some such additional protection being a recognized necessity for all filter plants handling seriously polluted waters) can be well taken care of; also slight irregularities in the condition of raw water supplies can be handled directly by U. V. R. without preliminary filtration.

### STEADINESS OF TREATMENT.

The action of the system is entirely due to the production of the rays and the requirements for a constantly good effluent are that the lamp be burning under a constant voltage (10 per cent. reduction allowed), and that the lamp itself is in good condition.

As regards the constant voltage, the experience gained by operating the 500-volt unit on our power line is of interest in relation to the supervision of similar installations and is referred to on page 166.

Such conditions as were encountered during these experiments are disastrous for the use of Ultra-Violet Rays. Anything over a 10 per cent. reduction in voltage brings the operating conditions down to that voltage where the efficiency of the light begins to drop off. This of course is serious when waters of high pollution are being treated, and some means, such as those previously suggested, must be adopted to take care of such irregularities.

The condition of the lamp is a matter hard to determine without bacteriological aid. In the course of the above experiments our lamp was burned continuously for about 800 hours. At this time the bactericidal action (owing to impure mercury used in the manufacture of the lamp) had noticeably decreased, and different agencies were examined such as (1) the possible infection of the outfall chamber, (2) condition of the protection tube and finally, (3) condition of the lamp itself. The condition of the outfall chamber was found to have a slight effect on the 18-22 degrees C. count removal, but did not account for the loss of efficiency in 37.5 degrees C. count and B.Coli removal counts. Some dirt was found lining the protection tube. This was deposited on all sides in considerable

quantity, but chiefly on the upper surface. When this was removed a noticeable improvement was evidenced, but the resulting efficiency was not nearly as high as that obtained in the initial experiments. Consequently, on January 23rd the new lamp was put on and the reduction obtained was again what it had been at the start of the experiments. To check up the work the old lamp was again put on, having burned a total of 790 hours, and some samples were taken with it in place.

TABLE 3.

D. (	No. of samples	V 14	Percentage Bacterial Reduction.			
Date.	collected.	Voltage.	18-22° C. Count.	37.5° C. Count.	Colon Fermenta- tion.	
Results Feb. 12	20 10	370 370	74.6 49.6	$\begin{array}{c} 74 \\ 71.2 \end{array}$	91 80.5	
Averages			62.1	75.6	85.8	

The new lamp was again put on and the rate of flow adjusted the same as in the previous case, the results being as follows:

TABLE 4.

Date.	No. of samples	Voltage	Percentag	ge Bacterial	Reduction.
Date.	collected.	Voltage.	18-22° C. Count.	37.5° C. Count.	Colon Fermenta- tion.
Results Feb. 17	10	370	98.9	88.4	93.4

Of course this is on the performance of one lamp only and the average for a number of lamps might be a higher or lower number of burning hours than for this particular lamp. However, the point that is important is not so much the burning of the lamp (since this one is still burning) but the fact that before the lamp is burned out the efficiency is lowered to an appreciable extent, so that any guarantee covering merely the life of the lamp would not protect the user of same as regards the delivery of a good water, and bacteriological examinations would be necessary.

The steadiness of the bacteria removal and the constant quality of the effluent is a noticeable feature in the use of the Ultra-Violet Rays. No jumps in the count or lapses in treatment were noticed throughout the experiments. The action is of course entirely due to the production of the rays, and since the lamp is burning under a constant voltage, the conditions governing the production of same do not vary and the resulting action is uniform.

The apparatus is usually designed with a considerable margin of safety and ordinary fluctuations in flow are amply provided for.

### OPERATION.

The lighting of the lamp is accomplished by tilting and allowing the metallic mercury to form a contact after which it is allowed to run back into the reservoir, the arc then being carried by the vapour. Having been started, the lamp runs

continuously until its vacuum is destroyed, unless subjected to some of the disturbances mentioned. It is then necessary to replace it with a new one, which is the work of a few moments only. The old one can usually be repaired.

As previously noted the lamps are on a supply of over 375 volts. The lamp can of course be designed for almost any voltage in practice with any given installation where a variation on the line voltage is encountered, in order to protect the lamp against going out, the resistance will have to be adjusted to take care of the highest voltage to be encountered. Consequently with a 10 per cent. variation on a 500-volt line, taking 500 volts as the maximum, the minimum would be 450. If the resistance be so set that at 500 line voltage the lamp voltage is 370, when it drops to 450 the lamp voltage also decreases to about 340. In consequence, with a greater variation than 10 per cent. the lamp voltage would drop so low as to become inefficient in the production of the rays, and this point must be remembered in making installations. Certainly the minimum voltage at which the lamps should be operated is 335.

From this research it is apparent that Ultra-Violet Ray treatment of water can be made a most satisfactory and reliable method of treatment. It offers relief to many municipalities who are now labouring with hypochloride and liquid chlorine plants with a consequent intermittency of treatment and under some conditions very undesirable taste and odour. Overdosing can be carried on with U. V. R. without limit, having no detrimental effect on the water treated, the only governing circumstances being the expenditure of current. The cost is not prohibitive as is shown in the following summary.

### Cost.

The matter of cost of operation is one involving two considerations, first the cost of current burned, and second, the maintenance charge on the lamps.

The current consumption of the small lamp is calculated from the voltage of 110 and amperage of 3.4 the running conditions. Thus the power consumption is about 9 kilowatt hours, per 24 hours. However, most lamps of this type will be required only during a 10 hour day, so the current consumption for 10 hours is 3.8 kilowatt hours. The cost current, if purchased on a meter basis, may be easily computed. At Toronto power costs the householder 2.8 cents per k.w. hour, and the cost of operating the B2 for ten hours a day is, therefore,  $10\frac{1}{2}$  cents.

The life of the 110-volt lamp has not been obtained from either one in use here. The one experimented with and with which the results were obtained, burned some 1,800 hours, with frequent stops. The duplicate lamp has been run for some 1,400 hours, to time of writing, being still in service, treating filtered water at the Experimental Station, which is supplied to the Parliament Buildings and other Government institutions for drinking purposes. Information was obtainable from Chicago, where a lamp has been in operation for over two years, treating water which is bottled and distributed throughout the city by the "Rayvio" Water Co.

In the case of the 500-volt lamp, the first consideration, that of current consumption, was taken care of as follows. In the first place, in order to make sure at all times what the operating conditions were, a volt meter was inserted connected across the terminals of the lamp, giving the lamp voltage.

An ammeter was also inserted in the power line, so that the current consumption at any time could be determined.

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By means of these meters the operating conditions of the lamp could be determined at any time. They were located in an accessible position and after each sample or set of samples were taken, the readings were noted on the same sheet as that on which the results were put down.

Power consumption might be calculated from these meters alone, since the line voltage was obtainable by shutting off the lamp and then closing the circuit but leaving the lamp out. However, the variation in the line voltage was considerable, as has been noted before in the consideration of the apparatus, and to surmount this a watt meter was put on the circuit in addition, this meter gave the consumption of power directly.

The current consumed in the case of the two different lamps used varied. The first lamp used burned steadily at 2.4 amperes, while the second one burned at 2.8 amperes, the voltage in each case being the same. Thus the power consumption in the case of lamp number one was 30 kilowatts per 24 hours, while in the case of lamp number two it was 34 kilowatts per 24 hours, or, taking an average for the two lamps, the power consumption for the 500-volt lamp is 32 kilowatts per 24 hours.

In the case of a single lamp installation, the operating conditions are not as favorable to the system as when three or four lamps compose the unit, because where as in the case of the single lamp installation the contacts are two in number, in the multiple lamp installation this number is not only increased but the length of time during which the water is subjected to the exposure of the rays is increased.

In treating a filter effluent in a municipal supply, the maximum rate for a highly polluted water would seem to be about 5,000 gals. per hour for a single lamp installation. Where multiple lamp units, however, are employed this rate could be well increased per lamp and for the ordinary municipal plant, when the water is of fair quality and not exceptionally highly polluted, this rate could probably be increased to 10,000 gals. per hour per lamp. Taking this quantity as a basis for calculation, the current consumption per million gallons would be about 130 kilowatt hours.

Most municipalities, especially in Ontario, get their power at a rate well below one cent. per k.w. hour; indeed Toronto and other municipalities in the immediate vicinity of Niagara Falls pay considerably below one-half cent per k.w. hour on their peak load. However, for purposes of easy calculation or deductions from these figures, we will suppose a price of one-half cent. per k.w. hour, which brings the current cost on the 500-volt lamp, operating at the rate of 10,000 gals, per hour, per lamp, to 65c. per million gallons. These assumptions are fairly close figures for municipal installations, a price of \$15 per h.p. year being at the rate of 0.23c. per k.w. hour. Lamp maintenance would seem to be the chief item of cost in the installations. The life history of the two lamps used in the work is given.

Lamp No. 8936 was the one used from the start and up to January 27, when after finding the dust deposit in the protection tube and cleaning same, the results not being as good as obtained at the start of operations, it was replaced with the new one (No. 8935) for a short time and again used for experimental purposes. Up to this time it had burned some 680 hours with the drop of some 30 per cent. in efficiency. Thus when in the first place it was removing an average of 97 per cent. of the organic life at 5,000 gals, per hour, after burning 800 hours the removal had dropped to 67 per cent.

This gradual dropping off of activity was followed up to the time of the conclusion of this report, and the results are found in order on pages 61 and follow-

ing of the appendix. The rate of flow was changed back to 3000 gals. per hour and the comparison will be based on the work done previously at this rate.

Lamp No. 8935 was not burned long enough to check up this work to any extent. However, it indicated the fact that the great activity noted at the start is soon reduced considerably.

In the case of these particular lamps, an explanation has been offered by the R. U. V. Co. for the discoloration of the lamps and consequent falling off in activity. They state that unusual trouble has been encountered with other lamps in the same series from which numbers 8935 and 8936 were taken, in that the quality of the mercury was not good.

This sounds reasonable, in that the trouble comes up rather quickly and gradually increases, the burning conditions remaining constant. For these reasons, either the quartz or mercury would come under suspicion, as were it due to the loss of vacuum, the trouble would have come to a head in a shorter time, and the

voltage and current consumption would show a change.

Attention has already been drawn to the fact that the life of a lamp is a difficult matter to determine, since there is no indication beyond the dropping off in bacterial removal to show this deterioration. This information of course is obtained from the experiments with one lamp and does not offer a fair criterion for all lamps. The point is not so much the actual life of the lamp, which is a question which can be settled economically by means of a guarantee, but the fact that before the lamp goes out entirely, it is inefficient in removal of bacteria and that the point at which this takes place is hard to determine.

For cost considerations we can assume that the life of a lamp is 1,000 hours which life can be adjusted by guarantee as previously noted, and with this period of operation the cost per million gallons of lamp maintenance, would be\* \$2.20 (assuming removal cost as \$22.00 per lamp). Thus the total cost of treatment is \$2.20 plus 65c. or a total of \$2.85 under the conditions named.

In the matter of treating waters which are turbid or of abnormal character the increase in cost is obtained by multiplying the cost as found per million gallons by the number obtained from the ratio of the rate assumed (10,000 gals. per hour per lamp) by the new rate.

### RESULTS WITH 110-VOLT APPARATUS.

In studying the action of the Ultra-Violet Ray efforts were directed towards the study of the experimental apparatus under both normal and abnormal operating conditions. This was done in order to judge as to the application and adaptability of the system to the use of municipalities where the character of the raw water varies considerably from day to day.

In the case of the 110-volt lamp, (being the B2 type of apparatus as manufactured by the R. U. V. Co., of New York), the following table will show the percentage reduction in the bacterial count of a water under different conditions after subjection to the rays.

<sup>\*</sup>The cost of renewing lamps is still not definitely known; this is also true of the life of lamps. The figures are probably high for most installations, and would be considerably modified by any improvement in lamp design.

TABLE 5.

Water treated.	Rate of flow in	Number	Turbidity	Percentage Bacterial Removal.			
water treated.	litres per hour.	of samples.	parts per mill.	18-22° C. Count.	37.5° C. Count.	Colon fermenta- tion.	
Filter Effluent	300 500 600 300 300 500 500	38 48 50 30 40 140 20	0 0 5 20 20–25 15–20 30–50	99.6 99.25 98.66 99.72 98.54 92.17	99.58 99.71 98.64 99.7 	99.8 99.95 99.23 99.17 97.32 97.25 95.2	

The following table shows in detail an analysis of the above summary for the 18-22 degrees C. and 37.5 degrees C. counts per 1 cc. of water, and the B. Coli estimated per 100 c.c., by Phelps' method.

### FILTER EFFLUENT-300 LITRES PER HOUR-TURBIDITY O.

TABLE 6.

(18°-22°C, Incubation).

			(18 –22 0. 1	.neubation).	•				
		Bacterial Counts.							
Date.	Bacterial Efficiency.	Raw Water Counts.			After Ultra Violet Rays Treatment.			No. of Samples on Aver-	
		Max.	Min.	Ave.	Max.	Min.	Ave.	age.	
July 14 July 15 Averages	99.58 99.7 99.6	3,500 4,500	1,600 2,200	2530 3010 2770	26 14	3	13 9 11	10 10 10	
		(	[37.5°C. Inc	eubation).		`			
July 14 July 15 July 18 Averages	99.0 99.06 99.73 99.58	80 80 420	45 42 150	64 60 330 151	2 2 3	0 0 0	$0.5 \\ 0.4 \\ 0.9 \\ 0.6$	10 10 10	
	(Colon Presumptive Test).								
July 14 July 15 July 16 Averages	99.74 99.84 99.78 99.8	10,000 10,000 10,000	100 100 1,000	2710 1720 4375 2935	20 20 20	0 2 4	7.8 2.8 .12 7.5	10 10 10	

It will be observed that any slight contamination of the sample affects the efficiency in a marked fashion, for all raw water counts lower than 1,000 per c.c.

### FILTER EFFLUENT-500 LITRES PER HOUR-TURBIDITY O.

TABLE 7.

(18°-22°C. Incubation).

	Bacterial Counts.						
Bacterial Efficiency.	Raw Water.			After U	t Rays.	No. of Samples	
	Max.	Min.	Ave.	Max.	Min.	Ave.	
99.3 98 99.7 99.9 98.5 99.35	9,000 300 110 160 960	2,000 80 60 60 50	4660 140 74 86 261 1088	75 8 2 1 24	15 0 0 0 0	.33 2.8 0.2 0.1 4.1 8.3	10 10 10 10 10 10
		(37.5°C. In	cubation).				
99.5 100 99.5 100 100 99.71	750 60 60 80 120	100 30 20 30 40	232 44 40 52 81 92	5 0 2 0 0	0 0 0 0 0	1.1 .0 0.2 .0 .0 0.26	10 10 8 10 10
	99.3 98 99.7 99.9 98.5 99.35	99.3 9,000 98 300 99.7 110 99.9 160 98.5 960 99.35	Bacterial Efficiency.    Max.   Min.     99.3   9,000   2,000   80   80   99.7   110   60   60   98.5   960   50   99.35	Bacterial Efficiency.         Raw Water.           99.3         9,000         2,000         4660           98         300         80         140           99.7         110         60         74           99.9         160         60         86           98.5         960         50         261           99.35	Bacterial Efficiency.         Raw Water.         After U           Max.         Min.         Ave.         Max.           99.3         9,000         2,000         4660         75           98         300         80         140         8           99.7         110         60         74         2           99.9         160         60         86         1           98.5         960         50         261         24           99.35          1088     (37.5°C. Incubation).	Bacterial Efficiency.         Raw Water.         After Ultra Viole           Max.         Min.         Ave.         Max.         Min.           99.3         9,000         2,000         4660         75         15           98         300         80         140         8         0           99.7         110         60         74         2         0           99.9         160         60         86         1         0           98.5         960         50         261         24         0           99.35          1088      (37.5°C. Incubation).	Bacterial Efficiency.         Raw Water.         After Ultra Violet Rays.           99.3         9,000         2,000         4660         75         15         .33           98         300         80         140         8         0         2.8           99.7         110         60         74         2         0         0.2           99.9         160         60         86         1         0         0.1           98.5         960         50         261         24         0         4.1           99.35          1088          8.3    (37.5°C. Incubation).

The above table shows very nicely the constancy of the bacterial count in the effluent as compared with considerable variations in the quality of the influent, especially so in the case of the 37.5 degrees C. counts and the Colon content. This seems to be a noteworthy feature of the system, namely, that in the case of any slight cause for decrease in the sterilization on the most pronounced change is found in the 18-22 degrees C count. Attention is later drawn to this in the case of the 500-volt lamp, when decreases in voltage effect the results. The B Coli and the blood temperature growing organisms apparently are more susceptible to the rays than the forms growing at a 18-22 degrees C temperatures, and are least effected by a decrease in the quantity of rays. Filter effluents with tap water and turbidity added show very similar results, practically the only change of conditions is the rate of flow.

In the case of tap water with sewage added some new conditions were created, these require consideration. The sewage was so added that it had not the opportunity for sedimentation offered when dealing with the 500-volt lamp, and

consequently numerous particles were visible in the water. The particles were of trade waste and industrial origin, and mostly organic in character. They varied in size from ½ to 3mm. in diameter, and no doubt shielded and incorporated large numbers of bacteria. An irregularity in the sterilization became at once apparent.

TABLE 8.

Tap Water and Sewage—300 Litres per hour—Turbidity 15.

(18°-22°C. Incubation.)

	12 2 2 0 00 2	Bacterial Counts.						
Date.	Bacterial Efficiency.	Raw Water.			After Ultra Violet Rays.			Number of Samples
		Max.	Min.	Average.	Max.	Min.	Ave.	
June 9 ' 10 ' 15 Averages.	99.6 99.93 99.2 99.72	250,000 600,000 350,000	45,000 340,000 40,000	87.500 400,000 83,000 156.830	1.000 1,300 4,000	40 0 300	419 267 700 462	10 10 10
			(37.5°C. In	cubation.)				
June 9 ' 10 ' 19 Averages.	99.5 99.86 99.71 99.7	26,000 26,000 8,000	13,000 24,000 2,000	21,300 25,000 4,850 17,050	240 70 20	34 0 7	112 35 14 54	10 10 10
		(Ce	olon Presun	nptive Test	t.)			
June 9 ' 10 ' 15 Averages.	99.4 99 99.4 99.17	100,000 100.000 100,000	1,000 10,000 1,000	43,300 73,000 23,500 46,600	1,000 1,000 1,000	100 100 20	280 730 150 386	10 10 10

In spite of the presence of these particles and of the turbidity, the reduction effected is very considerable.

At the high rate of 500 litres per hour, and with increased turbidity, the efficiency drops in comparison but still gives promise of applicability to such water.

All health bodies agree that water of such a character should not be used as a source of drinking water supply. The information regarding the treatment of such water may not, however, be without a military significance.

TABLE 9.

Tap Water and Sewage—300 Litres per hour—Turbidity 20.

(18°-22°C. Incubation.)

			Bacterial Counts						
Date.	Bacterial Efficiency.		Raw Water	•	After U	et Rays.	Number of Samples		
		Max.	Min.	Average.	Max.	Min.	Ave.	}	
May 20 ' 21 ' 26 ' 27 ' 28 ' 29  June 2 ' 3  Averages .	96.4 99.1 98.7 98.4 96.8 99.2 98.2 99.2	240,000 90,000 120,000 45,000 600 120,000 170,000 300,000	38,000 25,000 24,000 4,000 1,000 11,000 90,000 120,000	168,000 46,800 55,800 15,800 2,840 50,450 126,660 198,000 38,382	13,000 1,500 1,200 400 360 650 4,700 5,000	900 20 260 30 0 130 800 400	6,060 412 735 246 90.5 398 2,240 2,130 566	6 16 18 10 20 20 20 20 20	
		(	[37.5°C. Inc	ubation.)					
May 19 ' 20 ' 21 ' 26 ' 27 ' 28 ' 29 June 2 ' 3 Averages.	98.5 96.6 97.9 98.8 98.3 98.7 97.8 99 98.3 98.16	30,000 34,000 35,000 9,000 7,000 11,000 4,400 20,000 34,000	12,000 12,000 6,000 3,000 1,000 300 800 5,000 8,000	15,600 16,660 15,600 4,100 3,000 4,560 1,735 9,600 20,280 4,960	560 600 950 190 250 120 150 150 500	160 530 120 0 30 12 6 30 130 94.5	296 589 336 49 59 58 38 89 332	18 6 16 18 10 20 20 10 20	
	(Colon Presumptive Test.)								
May 20 ' 21 ' 28 June 2 ' 3 Averages .	94.8 98.5 96.5 97 94.5 98.1 97.85	100,000 1.000,000 100,000 100,000 10,000 1,000,000	100,000 100,000 1,000 1,000 10.000 1.000	100.000 213,000 26,000 19,450 10,000 113,050 41,800	10.000 10,000 1,000 1,000 1,000 1,000	100 100 100 104 100 100	5,275 3,140 910 554 550 2,170 902	6 16 10 20 10 20	

With higher turbidity and still the same rate of flow the effluent counts vary considerably as before. The results are shown in the following table:

TABLE 10.

Tap water and sewage, 500 litres per hour. turbidity 40-50.

### 18-22°C. Incubation.

	)	Bacterial Counts.							
Date.	Bacterial efficiency	I	Raw Water		After U	Rays.	No. of Samples		
		Maximum	Minimum	Average	Maximum	Minimum	Average		
July 20 21 Averages.		60,000 760,000	300.000	406,000		10,400		10	
			(37.5°C.	Incubati	on).				
July 20 Averages.	96.3 97.7 97.38	16,000 110,000	10,000	38,300		240 540 636	900	10	
(Colon presumptive test).									
July 21 Averages		1,000,000		361,000		10,000		10	

An interesting comparison is obtained by examining the results obtained with the apparatus used for treating the drinking supply for the Parliament Buildings. This lamp is treating ordinary city tap supply, filtered through a slow sand filter. The counts of the tap water are given on page 197 of the appendix. These cover the period of examination of effluents from the filter and Ultra-Violet Ray apparatus combination, the character of this effluent being found on page 195 of the appendix.

Of course the filter is accountable for the removal of a great deal of the organic life, but certainly not all, and the water delivered is absolutely sterile. The rate of flow is 600 litres per hour, the capacity of the apparatus, and the results are particularly interesting to hospitals or to persons interested in obtaining a sterile supply.

### RESULTS WITH 500-VOLT LAMP.

The results obtained with the 500-volt lamp require special consideration due to the presence of the dirt in the protection tube found on January 21. This did not accumulate in a short time and consequently the falling off in effectiveness of the lamp was gradual and corresponded to the growth of the accumulation, leading up to the date of discovery. The maximum retarding effect occurred at that time. The results are given in order of date. The above decline in effectiveness is apparent on comparison of percentages.

As in the case of the 110-volt lamp a short table or summary is given showing the average percentage reduction of bacteria growing at 18-22 degrees C, 37.5 degrees C, and of B. Coli. A summary of these results is given in some detail with the maximum and minimum counts set forth and the average reduction in bacteria from day to day. The detail results themselves are to be found in corresponding order in the appendix.

TABLE 11.

Rate of flow	Number	Turbidity		Perce ntage Bacterial Removal.			
in gallons per hour.	of Samples.	parts per Million.	Voltage.	18-22° C Count.	37.5° C Count.	Colon fermentation	
3,000 5,000 5,000 5,000 7,000 7,000	40 20 65 20 20 74 20	under 1 80 under 1 40 under 1 under 1	350 350 350 350 350 325 350 350	99.81 99.4 97 94.9 87.5 96.8 91.8	99.82 98.5 94 91.3 75 94.4 86.4	99.88 97.4 99.46 96.3 96.0 97	

B. Coli appear to be particularly susceptible to the rays, their reduction is considerably greater under all conditions than is the case of the organisms growing 18-22 degrees C or at 37-5 degrees C temperature. The action of the rays as regards B. Coli appears to be less influenced by any irregularity, including the lowering of the voltage than is the case of the action of the rays on other bacteria.

The turbidity recorded is all due to abnormal conditions of the tap water. No turbidity was added for these experiments as in the case of the 110-volt lamp; bad raw water is responsible for these conditions.

TABLE 12.

Tap water and sewage—3,000 gals. per hour—turbidity less than 1.

(18-22° C. Incubation).

		Bacterial Counts.							
Date.	Bacterial efficiency.	R	aw water.		After U				
		Maximum	Minimum	Average	Maximum	Minimum	Average	Samples	
Dec. 21 23 Jan. 1 30 Averages.	99.99 99.99 99.3 99.96 99.81	4,000 16,000 148 000 1,600	2,000 1,800 104,000 1.000	3,050 7,850 126,000 1,280 34,295	2,400 4	0 0 500 0	$0.2 \\ 0.4 \\ 920 \\ 0.6 \\ 230$	10 10 10 10 10	

### (37.5°C. Incubation).

Dec. 21 99.9 23 99.5 Jan. 1 99.4 3) 100 Averages 99.8	9 6,000 56,000 800	480	1,020 3,450 39,000 633 11.026	1 14 400 0	0 3 180 0	0.2 87.2 256 0 66.1	10 10 10 10
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### (Colon).

Dec. 23 Jan. 1 30 Averages.	99.72 99.96	100,000 100,000 10,000	100,000	2,800	1,000	100 0	$\begin{array}{c} 8.4 \\ 280 \\ 1.2 \\ 96.5 \end{array}$	10 10 10
2210208001	00.00			20,000			50.5	

In the above records the trouble with the protection tube has not had any material effect, the dirt probably not having accumulated sufficiently by January 1 to make much difference. The removal on January 1 is lower in each case than on December 3 and January 30, before the tube was dirty and after the tube was cleaned, but the difference is very slight.

TABLE 13.

Tap water and sewage-3,000 gallons per hour-Turbidity 30, Color 21.

(18-22° C. Incubation).

Date.	Bacterial Efficiency.	Bacterial Counts.							
		Raw Water.			After Ultra Violet Rays.			No. of Samples	
		Maximum.	Minimum.	Average.	Max.	Min.	Averg'e.		
Dec. 31 Averages	99.6 99.1 99.4	260,000 124,000	180,000 112,000	220,000 118,000 169,000	1,600 2,000	240 400	850 1,276 1,063	10 10 10	

### (37.5° C. Incubation).

The colon results were not procured in this last set, the pollution being higher than expected.

### TABLE 14.

Tap water and sewage-5,000 gallons per hour-Turbidity less than 1.

### 18-22° C. Incubation).

		Bacterial Counts.							
Date.	Bacterial Efficiency.	F	Raw Water.		After Ultra Violet Rays.			No. of Samples	
		Maximum.	Minimum.	Average.	Max.	Min.	Aver'ge.		
Jan. 4 5 20 21 22 22 23 27	99.6 97 98.1 93.2 92.3 76 91.9 94.6 90 99.6	4,200 2,800 48,000 600 640 2,400 1,300 320 660 70	2,200 100 20,000 10 50 1,200 100 40 50	2,950 1,057 27,000 431 270 1,810 489 166 184 56	160 140 1,400 1,700 40 560 360 120 60 1	0 1 100 10 0 300 0 3 10 0	29.7 45 483 555 14.3 418 61.4 60 23 0.25	20 15 20 20 20 10 10 10 10	

# Averages:-98.6

### 88.8 97.0

### TABLE 15.

Tap water and sewage—5,000 gallons per hour—Turbidity less than 1.

### (37.5° C. Incubation).

		Bacterial Counts.							
Date.	Bacterial Efficiency.	F	Raw Water					No. of Samples	
		Maximum.	Minimum.	Average.	Max.	Min.	Aver'ge.		
Jan. 4 5 20 20 21 22 22 23 23	91.6 92.2 91.3 94.6 85 91 91.9 90 97.6	1,600 900 12,800 1,700 600 800 1,600 120 120 57	800 200 4,000 10 30 100 40 30 10 31	1,100 600 8,500 555 208 570 421 60 36 40.5	240 140 1,120 60 40 120 60 18 4 0	40 8 440 28 10 20 8 2 0 0	91 47 711 31.4 26.9 50.5 29.3 6 1.2	20 15 20 20 20 10 20 10 10 4	

Averages:—  55 Samples, before Jan. 20—Average reduction  50 Samples, between Jan. 20 and Jan. 23 when protection tube was cleaned out	90
44 Samples, after Jan. 23 after tube had been cleaned	94

TABLE 16.

Tap Water and Sewage—5,000 Gals. per hour Turbidity less than 1. (Colon Presumptive Test.)

		Bacterial Counts.							
Date. Bacteria Efficienc		I	Bacterial Counts.			Number of Samples			
		Max.	Min.	Average.	Max.	Min.	Ave.		
Jan. 4 5 15 15 21 22 22 27	98.4 96.4 95.4 96.75 98.7 58 96.1 98.1 100	100.000 100,000 100,000 10,000 10,000 10,000 1,000 1,000	1,000 1,000 100,000 10,000 1,000 1,000 100 1	52,750 67,000 100,000 10,000 55,000 3,700 1,180 640 775	1.000 10,070 10,000 1,000 1,000 10,000 100 20 0	$100\\100\\1,000\\100\\100\\100\\4\\4\\0$	865 2,380 4,600 325 730 1,540 46.4 12 0	20 15 20 20 10 10 10 10	

Averages:—	
85 Samples before Jan. 20, average reduction	97
10 Samples between Jan. 20 and Jan. 23, when protection tube was cleaned out	58
34 Samples after Jan. 23 after tube had been cleaned	97.4

It is noticeable that all the results before cleaning of the protection tube point to the gradual depositing of the dirt. Thus the average reduction before this date is lower than that after the tube was cleaned. It would seem, therefore, that the removal after January 22, is the fair figure for the lamp operating under normal conditions.

TABLE 17.

Tap Water and Sewage—5,000 Gals. per hour—Turbidity 40.

(18-22°C. Incubation).

		Bacterial Counts.							
Date.	Bacterial Efficiency.		Raw Water	After U	et Rays.	Number of Samples			
		Max.	Min.	Ave.	Max.	Min. Ave.			
Feb. 3 Averages.	93.75 97.5 94.9	2,720 800	960 360	1,328 568 948	200 26	30 5	83 14.3 48.6		
			(37.5°C. In	cubation)	,	<i>_</i>			
Feb. 3	98.7 93.5 91.3	1,040 340	400 60	720 203 461	105 22	40 6	67 13.3 40.1		
==	(Colon.)								
Feb. 3	99.5 99.34 99.46	100,000 10,000	1,000 1,000	35,200 5,500 20,350	1,000	20 20	182 36 109	10 10	

The turbidity, comparing these results with those of the previous month, has had very little effect on the action of the rays; especially is this noticeable in the colon results.

Voltage variation is an important question and the lower limit for effective production of the rays is about 340 volts on this type of lamp. Anything below this results in a considerable reduction in sterilization, as apparent in the following results. In the above and succeeding table, the voltage was 350; this designated the average voltage at which the lamp was burned, the lower limit being 340 (occasional), while the upper limit was 375. The 40-volt results do not show much variation in activity from that encountered at higher voltage, as seen in the detail sheets for the several samples in the appendix. However, in the table following the samples were taken when the lamp was burning at from 325 to 335 volts, and the falling off in sterilization is considerable, which would go to show that the minimum operating voltage, for the 500-volt lamp is 335 across the terminals, with a safe operating voltage of 350-370.

TABLE 18.

Tap water and sewage—5,000 gals. per hour—turpidity under 1. Voltage 330-340.

(18-22°C. Incubation).

			(10-22-0	i incuba o					
		Bacteria Counts.							
Date.	Bacterial efficiency.	Raw water.			After U	No. of Samples			
		Maximum	Minimum	Average	Maximum	Minimum	Average		
Jan 15 22 23 Average	89 84 62 87.5	1,800 1,300 400	600 40 40	1,150 704 149 788	240 360 80	10 44 40	125 113 56 99	20 10	
			(37.5°C.	Incubation	on)				
Jan. 15 22 23 Average	61 93.6 96.9 75	900 1.600 220	400 300 80	600 710 165 519	420 60 6	80 20	236 45.6 4 130.4	20 20 10	
(Colon).									
Jan. 15 22 23 Average	96.3 97 93.3 96.3	100,000 10,000 1,000	10,000 1,000 100	32.500 1,900 212 16,778	10,000 100 20	100 4 4	1,180 55 14 607	20 10 10	

TABLE 19.

Tap water and sewage—7,000 gals per hour—turbidity under 1. Voltage 340-350. 18-22° C. Incubation.

		Bacterial Counts.							
Date.	Bacterial efficiency.	R	aw water.		After U	Rays.	No. of Samples		
		Maximum	Minimum	Average	Maximum	Minimum	Average		
Jan. 13 97.6 13 98.4 14 95 14 96.7 29 97.4 Averages 96.8		4,500 60 5,000 1,500 3,500	1,400 40 1,400 1,400 1,400	3,325 50 2,850 1,450 2,320 2,310	200 2 280 70 160	40 0 40 20 110	81 0.8 128 48 61 74	20 10 20 10 14	
•	(37.5° C. Incubation).								
Jan. 13 13 14 14 29 Averages	94.4 94 95.3 90 98.7 94.6	11,000 30 5,000 1,000 1,200	2,400 20 1,000 6,600 500	5,850 25 2,300 800 851 3,480	750 5 220 150 26	140 0 40 40 40 4	333 1.5 108 83 11 136	20 10 20 10 14	
		(	Colon pres	umptive	test).				
Jan. 13 13 14 14 29 Averages	88 94.3 93.1 98.8 99.5 93.1	100,000 100 100,000 100,000 10,000	10,000 100 1,000 10,000 1,000	32,500 100 30,250 55,000 6,143 25,600	10,000 20 10,000 1,000 100	100 0 100 100 20	4,060 5.8 2,170 640 31 1,780	20 10 20 14 14 14	

On January 13, for some unaccountable reason, the colon reduction was much less than the average.

Turbidity of ten was encountered during this work, and samples were taken under these conditions.

TABLE 20.

Tap water and sewage—7,000 gals. per hour—turbidity 10. Voltage 350. (18-22° C. Incumbent).

Date.		Bacterial Count.						
	Bacterial efficiency.				After Ultra Violet Rays.			No. of Samples
		Maximum	Minimum	Average	Maximum	Minimum	Average	
Jan. 7	91.8	30,000	16,000	22,500	42,000	600	1,850	20

(37.5° C. Incubation).

7	86.4	18,000	12,800	14,600	3,600	1,200	1,995	20
			(Co	olon)				

On January 18, after the falling off in sterilization had been noticed, an' effort was made to determine if the trouble was from an infection of the overflow chamber as shown in the cut of the large apparatus (Pl. 2). Previously to this some very heavily polluted water had been run through the apparatus, the count per c.c., being nearly 1,000,000 and the motion in the overflow chamber being very slight some of the heavier particles might easily have lodged here and influenced the effluent count. A sample was taken before the overflow was reached and an effluent sample taken simultaneously. The results show:

Average of fifteen samples taken January 10.

Per cent. removal at sampling point before reaching overflow was 91. Per cent. removal after flowing through effluent pipe 63.

# (37.5° C INCUBATION.)

Per cent. removal at sampling point before reaching overflow was 81.

Per cent. removal after flowing through effluent pipe 81.

The result is also shown in table 21 the first line of figures in each case having reference to the effluent obtained by immersion of the sample bottle in the tank, the second line having reference to the count at the regular point of sampling the effluent.

TABLE 21

Tap Water and Sewage—7,000 Gallons per Hour—Turbidity Less Than 1.

(18°-22°C. Incubation).

		Bacterial Count.							
Date.	Bacterial Efficiency.	Raw Water.			After Ultra Violet Rays.			No. of Samples	
		Max.	Min.	Ave.	Max.	Min.	Ave.		
Jan. 18 91 62		1,600 500 Effluent.		836	120 1,440	15 50	64 374	15 15	
	(37-5°C. Incubation).								
Jan. 18	81	900 Sample at	300 Effluent.	606	180	70 80	119 112	20 20	

In the appendix are the results covering special research as that to determine

the progress of the action in the apparatus; see page

Following these, are the results obtained by changing the baffle openings, and changing the arrangements of the baffles which is mentioned on page, and finally the results in connection with the work on the length of exposure and effective penetration of rays. These are described in detail on page.

# BACTERIOLOGICAL TECHNIQUE.

The technique used in planting, preparation of media, sterilization and counting was standard, being in accordance with the "Standard methods of Water Analysis" of the American Public Health Association. Ox-bile lactose sugar broth and saffranin-lactose broth media were both used; comparison of the two with some 40 duplicate samples in 1 cc., 5 cc., 25 cc., and 50 cc. tubes showed little variation. Plain agar-agar media was used instead of gelatine, all counts given both at 18-22 degrees C. and 37.5 degrees C. being made on agar plates. The media was cooled to between 38-41 degrees C. before pouring on the plates. All glassware was sterilized with dry heat between 200 and 230 degrees C. for one hour. Steam under 15 lbs. pressure for 20 minutes was used for the media, every precaution being taken in handling it to minimize the possibility of contamination.

An endeavour was made, by means of proper dilutions, to maintain the plates for both the influent and effluent bacterial counts with less than 250 colonies on

them.

Samples of water for turbidity tests were collected in large clear glass Winchesters simultaneously with the samples for bacteriological purposes. A comparison was then had with standard turbidity solutions, put up in similar clear glass bottles made from infusorial earth according to the "Standard Methods of Water Analysis" of the American Public Health Association. A thousand milligrams in one litre of water gives a turbidity 1,000. The comparison was made in good light against a dark background.

The City tap water used in the experiments consisted of water of very good quality. The turbidity and color was at most times 0, although at times of storm conditions on the lake turbidity ranging between 20 to 30 was encountered. The bacteriological count was generally very low, sterile plates for organisms growing both at 18°-22° C. and 37.5° C. temperatures being of frequent occurrence. Most of the city supply is filtered by slow sand filters although some water is by-passed directly from the lake to the mains. All the city water has to be treated with minimum quantities of hypochlorite of lime.

The raw water was of too low a count to use in the experiments, although occasionally high counts and heavy pollution of the supply was noted probably due

to a slip in the efficacy of the city chlorinating system.

The excess of chlorine in the tap supply, did not influence the results in one way or the other. The influent sample was collected about thirty minutes after the addition of pollution, the effluent sample being taken at the same time.

# EXPERIMENTAL STATION OF THE PROVINCIAL BOARD OF HEALTH OF ONTARIO.

OPERATING DATA.

116-Volt Lamp Ultra Violet Ray-Mechanical Filter Effluent.

(Rate of Operation 300 litres per hour).

Апретаже.		1mV		
	8 <b>Z</b> 6°	μοΛ	10 t-	
		Colon		8.66
ntag	ction	37°,5c.		99.58
Percentage	Reduction.			9.
		180-220c.		36 sai
itty.		diuT	•	Averages 99.6
		50	\\_\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
i		25	+++0+0++00+0000+00+++000+00000000000000	00
= Positive Reaction.		ž cc.	++0000+000+000+000+++++++	00
c Rez		cc.	000000000000000000000000000000000000000	00
sitiv	ent.	.1	200000000000000000000000000000000000000	::
= Pc	Emuent.	.01 cc.		
- <del> </del> -		.001 cc.		:: .
		.0001 cc.		
Colon Bacilli.		.00001 cc.		
ı Ba		50 .00		::
Color		25 6		
		5.00	+++++++++++++++++++++++++++++++++++++++	++
		cc.	+++++++++++++++++++++++++++++++++++++++	++
tion.	Influent.	.1	+++++++++++++++++++++++++++++++++++++++	++
Reac	Infi	.01 cc.	+0+000000+00000000+++0000+000+000	00
ative		.001 cc.	000000000000000000000000000000000000000	00
= Negative Reaction.		.0001 cc.		
Ö		.00001 cc.		
	unt.	Eff.	000000000000000000000000000000000000000	0#
ıts.	.5c. count.		884818885544888488888888888888888888888	
l Cour	370	Inf.	: : : : : : : : : : : : : : : : : : :	83
Bacterial Counts.	18°-22° c. count.	Eff.	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
В	30 C.		888888888888888888888	
	180-9	Inf.	1	
Hour.		A.M. P.M.	3.15 3.15 3.15 3.15 3.15 3.15 3.15 3.15	12.00
Но		Λ.Μ.	3 15 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12.00
	of nent			
	Date of Experiment		July 14 July 15 July 16 July 18	
J	K		l ub ub ub	

13 в.н.

EXPERIMENT

OPERATING DATA.—Continued.

-		. 9 <b>2</b> 819	dm A	
-		8ge.	110 V	12
-			no	06.00
			Colon	66
	Percentage	Reduction,	37°.5c.	12.66
	Percei	teduc		
			18°-29°C.	66 33
-				0
-		dity.	0.00	1 ++++0+0+0+0+0+0+0+0+0+0+0+0+0+0+0+0+0+
			25 5	000000400000000000000000000000000000000
	action		5.00	00+00+000000000000000000000000000000000
1	e Res		100	000000000000000000000000000000000000000
	= Positive Reaction.	ent.	.1.	
		Effinent.	.01 CC.	
	+		.001 cc.	
			.0001 cc.	
ä	:		.00001	
Colon Decilli	Dac			
100	1010		25 50 cc. cc.	
٥			5 2 cc.	
			1 cc.	+++++++++++++++++++++++++++++++++++++++
	ion.	ent.	.1	++++++00++0+++++0000000 00++++++++++000000
	Reac	Influent.	.01 cc.	0000+0+00000000000000000000000000000000
	tive		.001 cc.	00+00000000+000000000000000000000000000
	= Negative Reaction.		.0001 cc.	
	= 0			
			.00001 cc.	
		37º .5c. count.	Eff.	000000000000000000000000000000000000000
	ıts.	5c. c		
	Con	970	Inf.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
	Bacterial Counts.	ant.	Eff.	00000000000000000000000000000000000000
	Вас	c. co		
		180-22° c. count.	Inf.	0.000 0.000
-	<u> </u>	18	<u> </u>	
	Hour.		A.M.]P.M	11 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		4	A.N	1
		Date of Experiment		45 56 56 56 56 56 56 56 56 56 56 56 56 56
		Dat Exper		June 25.  June 25.  June 25.
1		E.		ي ي ي ي

# EXPERIMENTAL STATION OF THE PROVINCIAL BOARD OF HEALTH OF ONTARIO.

OPERATING DATA.

110-VOLT LAMP ULTRA VIOLET RAY-FILTER EFFLUENT WITH TAP WATER.

EXPERIMENT

OPERATING DATA. (Rate of Operation 600 litres per hour).

	Derage	mA			
	'oZw	10 V	10		
		Colon			
٠		° .			
Percentage	Reduction.	370.5			
Perc	Kedu	3°C.			
		18°-22°c. 37°.5c.			
	idity.		10		
		50 cc.		++++++++++	+++++++++++
on.		25 CC.	++++	+++++++++	+000+00++0++++
+ = Positive Reaction.		cc.	++++	+++++++++++++++++++++++++++++++++++++++	>++0000++0++++
ive R		1 cc.	+9++		+0000000000
Posit	Effinent.	.1		++0000000000	::::
11	Кf	10° 01			
		)1 .001 . cc.			
		.0001 cc.			
Colon Bacilli.		.00001 cc.			
on E		50 cc.			
Col		25.			
		cc.			:::::::::::::::::::::::::::::::::::::::
n.	+	- cc.	++++	++++++++++	+++++++++++++++++++++++++++++++++++++++
actio	Influent.	.1		+++++++++++++++++++++++++++++++++++++++	
ve Re	In	.001 .01 cc. cc.	00++	1.1 _ 1.000000000	000000000000
= Negative Reaction.		0.0001	0000	0000000000	
0 = N					
		.00001			
	.5c. count.	Eff.	120 66 65 30 30		್ಷ ಪ್ರಾಥಾಗಿಕೆ ಕೊಡ್ಡು
Bacterial Counts.	37° .5c.	Inf.	1,800 3,500 3,500 6,000 3,000		233 230 260 180 140 140 150
erial C		Eff.	250 250 250 350 350 350 350 350 350 350 350 350 3		
Bact	c. coı	<u> </u>	076 076 076 076 076 076 076 076 076 076		2 9 7 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	18º-22º c. count.	Inf.	20,000 240 1.6 26,000 520 1.0 22,000 360 3.5 22,000 360 6.0 10,000 120 6.0	3 3 45 3 45 10 45 11 00 11 50	12.15 12.30 12.30 13.00 1.40 1.40 1.40 1.40 1.40 1.40 1.40 1
ır.		P.M.	4.00 20.00 3.00 3.00 3.15	80 80 90 90 90 90 90 90 90 90 90 90 90 90 90	
Попг.		A.M. P.M.		33.45 10.45 11.00 11.15 11.15	11.23 11.23 11.23 11.33 11.37 11.45
	of				
	Date of	,	June 29		
Ext			June	July	July

OPERATING DATA. -- Continued.

	Amperage.					
	8ge.	110V	fe		£	
		Colon	99.83		9.17	
Percentage	Reduction.	37°.5c.	98.64		99.7	
Perce	Redu					
		18°-22°c.	5 Averages, 98.66		15 Averages, 99.72	
	dity.		5 Aver		15 Aver	
		50 cc.	++++++			
ction.		5 25 c. cc.	+++++++++++++++++++++++++++++++++++++++		+++++++++++++++++++++++++++++++++++++++	
Reac	ļ	1 5 cc.	000000	AGE.	+++++++++++++++++++++++++++++++++++++++	
sitive	ent.	1.00	000000	110-Volt Lamp Ultra Violet Ray—Tap Water and Sewage. (Rate of Operation 300 litres per hour).	000++00+00++0++++0+000000+	
Positive Reaction.	Effluent,	.01 cc.			000000000000000000000000000000000000000	
1 +		100. cc.				
		.0001		WAT! er h		
Colon Bacilli.		.00001 cc.		AMP ULTRA VIOLET RAY—TAP WATER AN (Rate of Operation 300 litres per hour)		
lon E		50 cc.		Ž H		
CoJ		25.		RA 300		
		1 5 cc.	++++++	oler tion		
ion.	ent.	, t.	+++++++	V V	+++++++++++++++++++++++++++++++++++++++	
= Negative Reaction.	Influent	.01 cc.	000000	LTRA of Op	LTRA of Op	+9+++99+++++++++++++++
ative		.001 cc.	000000	ate	+000000+++0+0++++++0+00000	
= Neg		.0001 cc.		LAN (R		
0		.00001 cc.		VOLT		
	.5c. count.	Eff.	840 88 H	110	25.8804 88.885 5.55 5.55 5.55 5.55 5.55 5.55 5	
Bacterial Counts.	370	Inf.	150 80 180 180 280 280 280 180		### ### ### ### ### ### ### ### ### ##	
Bacteria	. count.	Eff.	20 20 20 20 20 20 20 20 20 20 20 20 20 2		250 80 1150 1150 1150 1150 1150 1150 1150	
	18º-22º c. count.	Inf.	600 1,000 800 600 1,600		550, 100 100, 000 111, 000 111, 000 111, 000 13, 000 13, 000 13, 000 10, 000 100, 00	
Hour.		A.M. P.M.	11.52		8 8 4 4 4 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8	
=		Λ.Λ	11.52		11 11 11 11 11 11 11 11 11 11 11 11 11	
	Date of Experiment		8		10	
	Da Expel		July 8.		June 10. June 10. July 15.	

OPERATING DATA.

Experiment

110-Volt Lamp Ultha Violet Ray—Tap Water and Sewage.

(Rate of Operation 500 litres per hour).

1		erage.	dmA	
		3ge,	ulo V	10
	_		"	
			Col	
	Percentage	Reduction.	7°.50	
	Perce	sed n		
		_	18°-22°c. 37°.5c. Colon	
-	_	dity.	idınT	: 0
			50 cc.	
	on.		25	
	= Positive Reaction. Effluent.		s cc.	+++++
-	ve R		1 00.	+++++++++++++++++++++++++++++++++++++++
	ositi	Effluent.	.1 cc.	°++°+ +++++++++++
	- - +	E	.01 cc.	3T000 0+0++T0000000+0
	T		.0001 .001 cc. cc.	000000000000000000000000000000000000000
Colon Bacilli.			.00001 cc.	
on			50 cc.	
3			25 cc.	
			. cc.	
	'n.	ţ	1 . cc.	
:	actio	Influent.	.1	===
,	ve Re	J.	.001 .01 cc. cc.	# <sup>9</sup> ++++++++++++++++++++++++++++++++++++
1	egati		.0001 .001 cc. cc.	
	O = Negative Reaction,			
`			.00001 cc.	000000000000000000000000000000000000000
		.5c. count.	Eff.	160 160 160 160 160 168 168 168 168 168 168 168 168 168 168
nts.				000000000000000000000000000000000000000
1 Cou		370	laf.	20,000 11,000
Bacterial Counts.		18°-22° c. count.	Eff.	1, % % % % % % % % % % % % % % % % % % %
ğ		° c.		777
		180-23	lnf.	1, 200
Hour.			A.M. P.M.	2 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Но			A.M.	100 00 00 00 00 00 00 00 00 00 00 00 00
	Date of Experiment			1914 May 20 , May 21 ,
1	B. 1			Ma Ma

OPERATING DATA.—Continued.

	.92810	qmA	
	<b>9</b> ₹6•	110 <b>V</b>	
	centage action		
9.6	on.	56.0	
Percentage	Reduction.		,
Per	Per Red 18°-22°c.		
	dity.	Turb	
		50 CC.	
опо		25	
Reacti		cc.	
tive E	1:		+++++0000000+0000+++++++++++00+++++++++
= Positive Reaction.	Emaent	.01 .1 cc. cc.	0000+000000000+0++0000000+++000++++++++
11	Ä	.001 .00 cc. cc	
		.0001 .0001	
li:			
Colon Bacilli.		.00001	
lon		50 cc.	
ට්		35	
		1 5 cc.	
ion.	ent.	1.00	
React	Influent.	.01 .02	<u></u>
Negative Reaction.		.001 cc.	+000+00000+000+00000+00000000000+0+00+0
Nega		.0001 cc.	000000000000000000000000000000000000000
0		.00001	
-	1 .:		88.08688858868868868868868886 : 44.18888841488888648
	.5c. count.	Eff.	44-44-44-44-44-44-44-44-44-44-44-44-44-
Bacterial Counts.	37º .5c.	Inf.	Fig. 4.4.7.4.8.7.8.8.4.4.8.4.8.4.8.4.8.6.8.7.7.8.8.1.1.8.9.1.8.9.1.8.8.4.4.7.8.1.4.8.1.8.1.8.1.8.1.8.1.8.1.8.1.8.1.8
Bacteria	c. count.	Eff.	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	180-290	Inf.	88, 000 89, 000 80,
Hour.		A.M. P.M.	11.00 11.00 12.00 13.00 14.30 16.30 17.00 17
-	ent	A	
	Date of Experiment		May 26 1

OPERATING DATA.

110-VOLT LAMP ULTRA VIOLET RAY-TAP WATER AND SEWAGE.

EXPERIMENT

(Rate of Operation 500 litres per hour).

	9 <b>2</b> £19Q	mA		
	•១ភិមា	IoV	15	
		aolo		
- Bi	on.	37º,5c, Colon		
Percentage	Reduction.	370		
Pe	Re	189-220c.		
1	idity.	0.00 GTuTP	୍ର	
		25 5000		
rction		5 .50	\°°+°++++++++++++++++++++++++++++++++	++++
e Rea		1 cc.	+++++++++++++++++++++++++++++++++++++++	++++
= Positive Reaction.	Effluent.	.1.	055+50000++++++++++++++++++++++++++++++	+++
P	Emr	.01 cc.	555500000000000000000000000000000000000	00+0
+		.001 cc.		
		.0001 cc.		
Colon Bacilli.		.00001		
1 Ba		50 .00		
Colo		255 C.C.		
		cc.		
		cc.	++++++++++	++++
action	Influent.	1.1	+++++++++++++++++++++++++++++++++++++++	++++
e Rea	In	10.01 .0c.	0+0000++0++000+0++++0++++++++++++++++++	++++
= Negative Reaction.		01 .001 . cc.	000000000+00+00+1+000000000++0	
N I		1 .0001		
0		.00001 cc.		
	nnt.	Eff.	22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	200 200 300
ts.	.5c. count.		25.500 20.0000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.00	8888
Coun	3. 978	Inf.	1,500 1,000 1,	34,000 18,000 18,000
Bacterial Counts.		Eff.	8 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	500
Bact	c. co			
	80-220 c. count.	Inf.	14,000 11,000 11,000 11,000 11,000 11,000 11,000 12,000 11	300,00 300,00 300,00 200,00
		Ä.		
Hour.		A.M. P.M.	10.30 11.00 12.00 12.00 2.00 3.00 3.30 3.30 14.00 10.50 11.00	11.30
	of t			<del>= .</del>
	Date of Experiment		June 2	
	Ex		May	

OPERATING DATA.—Continued.

	Amperage.		odmA	
	Voltage.			8 8
			Colon	26
	. 00	ion.	37°.5c.	98.16
	Porcentage	Reduction.		
	Д	· #	189-229c.	68, 93.
	Turbidity.			20 Averages, 98.34 4 -50
		<u> </u>	50 cc.	
	ij		25 CC.	
	actio		5 CC.	+++++++++++++++++++++++++++++++++++++++
ĺ	ve Re		1 cc.	++++00+++++++++++++++++++++++++++++++++
	= Positive Reaction.	Effinent.	.1	<u>+++++++++++++++++++++++++++++++++++++</u>
		Effi	.01 cc.	00++0+
	+-		.001 cc.	000000000000000000000000000000000000000
			.0001 cc.	
	Colon Bacilli.		.00001 cc.	
	n Ba		50 .00	
	Color		25 6	
	_		cc.	
			cc.	++++++
	tion.	Influent.	.1 cc.	++++++
	Reac	Infi	.01 cc.	+++++++++++++++++++++++++++++++++++++++
	Negative Reaction.		.001 cc.	°+++++++++++++++++++++++++++++++++++++
	= Neg		.0001 cc.	
	0		.00001 cc.	00000
-		ائد	-	2
		.5c. count.	Eff.	44 4 44 44 44 44 44 44 44 44 44 44 44 4
	unts.		Inf.	1111
	al Co	370	- I	
	Bacterial Co	count	Eff.	0.000 1 0.000
		18º-22º c. count.	Inf.	1.3   3.0   0.00   2.5   5.5
-			-	8 :8 :8 :8 :8 : 2 :8 : 4 :8 :4 :5 :4 : 3 :4 : 3 : 3
	Hour.		A.M. P.M.	July 21 [12.38]  July 21 [17.30]  July 21 [17.30]  July 21 [17.30]  July 21 [17.30]  July 21 [17.30]  July 21 [17.30]  July 21 [17.30]  July 21 [17.30]  July 21 [17.30]  July 21 [17.30]  July 21 [17.30]  July 31 [17.30]  July 31 [17.30]  July 31 [17.30]
-			- V	
	Date of			July 20
	Date of Experimen!			July June

OPERATING DATA.

ENPERIMENT

110-VOLT LAMP ULTRA VIOLET RAY-TAP WATER AND SEWAGE.

(Rate of Operation 500 litres per hour).

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}		•៦ភិឌ	нол	in the		70
			Colon	5.5 5.5 5.5		
	Percentage	Reduction.	37°.5c. Colon			
	Per	Red	189-229c.	Average	ır).	
		.viibi		Avera	(Rate of Operation 600 litres per hour)	0
			50 cc.		per	00000000
	on.		25		tres	0000000
	teacti		b cc.	+++++++++++++++++++++++++++++++++++++++	0 11	00000000
	tive I	<b>.</b>	1	+++++++++++++++++++++++++++++++++++++++	т 60	00000000
	= Positive Reaction.	Emuent.	11 .1	+++++++++++++++++++++++++++++++++++++	ation	
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			0001 .00 cc. c.		of O	
	::		•		ate	
	Bacil		.00001		(R	
	Colon Bacilli.		50 cc.			
			35 cc.		NT.	
			. cc.		LUE	
ŀ	on.	nt.	1 3. cc.	+++++++++++++++++++++++++++++++++++++++	BFI	
ĺ	eacti	Infinent.	.01 .1 cc. cc.	-++++++++++++++++++++++++++++++++++++++	TER	
ļ	ive R	1	.001 c	+0+++++++++++++++++	FIL	
	Negative Reaction.		.0001 .cc.	000000000000000000000000000000000000000	SAND FILTER EFFLUENT.	
	0 = 1					
			.00001 cc.		SL01	
		37° .5c. count.	Eff.		VOLT LAMP—SLOW	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Bacterial Counts.		Inf.		70LT L	
	Bacteria	18°-22° c. count.	Eff.		110	00000000
		180-230	Inf.			± 00 → 10 ∞ C
	ur.		P.M.	2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
-	Hour.		A.M. P.M.	3.45 10.00 10.00 10.15 10.05 10.10 10.05 1		
		of	<u> </u>			चुल च 10 ळ ६
		Date of Experiment		1914 June 11.		1914 Feb. 3.
		Ex		Ta Ta		3eb

OPERATING DATA.—Continued.

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	.9 <u>g</u> £19	qmA	
	•៩៤•	τloV	1.0 1.0
		Colon	
Percentage	Reduction.	37°.5c.	
Perc	Redt	18°-22°c. 37°.5c. Colon	
	* £11m	idınT	
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;		25 cc. c	000000000000000000000000000000000000000
ction		5 2 3 CC. C	0000000000
Rea			0000000000
sitivo	ent.	.1.	
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		.0001 .001 .01 cc. cc. cc.	
Colon Bacilli		.00001 cc.	
on E		50 cc.	* * * * * * * * * * * * * * * * * * * *
Colc	+	25 cc.	
		5 CC.	
		1 cc.	
ction	Infinent.	.001 .01 .1 1 5 25 50 cc. cc. cc.	
Rea	Inf	.01 cc.	
rative		.001 cc.	
O = Negative Reaction.		.0001 .001 .01 .1 cc. cc.	
0		.00001 cc.	
	.5c. count.	Eď.	
Counts.	37° .5c.	Inf.	
Bacterial Counts.	18º-22º c. count. 37º	Eff.	0000000000
	8°-22° C.	Inf.	25. 55. 77. 1.
Jr.		P.M.	
Hour.		A.M. P.M.	
	Date of Experiment	4	Peb. 22. 25. 25. 26. 27. March 1.

OPERATING DATA.

RECORD OF THE BACTERIAL CHARACTER OF THE CITY OF TORONTO TAP WATER BEFORE SEWAGE WAS ADDED FOR EXPERIMENTAL PURPOSES.

	.9%28190	dmA	
	*928	Not	
		Colon	
	rerenuge Reduction.	37°,5c.	
	Redu	189-229c. 379,5c. Colon	
	.yjibi	-	
	1	50 cc.	
á		25 cc.	
pacti		cc.	
= Positive Resetion.		.001 .01 .1 1 cc. cc.	
ORifi	Effluent.	.1	
11	Em	.01 cc.	
+		.001 cc.	
	74	.0001 .001 cc. cc.	
Colon Bacilli.		.00001 cc.	
no B		50 cc.	0+0000+00++00+000000
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T out	Infi	.01 cc.	
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Noge		.0001 .001 cc. cc.	
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		.00001 cc.	
	ant.	Eff.	
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Count		Inf.	
Bacterial Counts.	count.	Eff.	10 5 1 4 0 0 − 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	180-229 c. count. 37º	Inf.	
-	1	Ä.	
Hour.		А.М. Р.М.	1914 Jan. 22. 23. 23. 25. 25. 25. 25. 25. 25. 27. 27. 27. 27. 27. 27. 27. 27. 27. 27
_	1		
	Date of Experiment		7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Dat		1914 Jan. 385 385 380 380 1131 1131 1131 1131 1131 1131 1

OPERATING DATA.—Continued.

500-Volt Lamp Ultra Violet Ray Sterilization—1/4 Opening in Inclined Baffles.—City Water Plus Sewage.

(Rate of Operation 3,000 Gallons per hour).

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-							_			_	_		_	-
		.9 <u>%</u> 8.		. 360	365					. 360	360			1
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	ıtage	tion.	°.5c.		_					00 00	99.99			
	Percentage	Reduction,	37	<u>:</u>			_		_	÷				-
-		-	80-220c.							90	99.99			
-		idity.			:					:	:-	:		-
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	actic		5 25 cc. cc.	-			:	:		:	:	0	0.	+
İ	ve R		100	:		:	:	: :		:	: 0	0	0	0
	= Positive Reaction. Edluent.		.01 .1 cc.	:			:	:		:	:		:	
	- 7	Em	.01 cc.	:	:		:	:		:	:		:	
	***		.001 cc.	_ :	:		:	:	: :	:	:		:	
			.0001 .001 cc. cc.		:		:	:		:				
	Colon Bacilli.		.00001 cc.		:		:	:		:	:		:	
	E B		50 cc.	-:	:		:	:		:	:		:	-:
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	е Кел	Inf	.001	:	:	::	:	:		:	:	+	.0	+
	gativ		1 .001 cc.	_ :	:		:	:			:	-	0	0
	O = Negative Reaction.		.0001 cc.				:	:		:		> =	0	0
	0		.00001 cc.		:		:	:		:	:			
		.5c. count.	Eff.	1	00			· • •		0	0 %	2 70		
	Bacterial Counts.		lnf.		950	1,000	1,000	006	1 100	1,600	000	000	3,800	3,200
	Bacteria	180-22º c. count. 37º	Eff.	0		00			0					0
		o66-081	Inf.	3.800	3,000	008.8	3,000	3,100	3.400	4,000	3,800	8,000	2,000	000°₽
	лг.		P.M.	15		00.00	÷.	• • • • • • • • • • • • • • • • • • • •	2.00	3.15	:	:	: :	:
	Hour.		A.M. P.M.	21 22	06. 6	06.5			00.00	3.15		. 0501	10.45	
		of			•							* * * * * * * * * * * * * * * * * * * *		
		Date of Experiment		1914 Dec. 31							000	C. 20		
	}	Ex		1 2							-	5		

EXPERIMENTAL STATION OF THE PROVINCIAL BOARD OF HEALTH OF ONTARIG.

OPERATING DATA.

500-Volt Lamp Ulpra Violet Ray Sterlilzation—1/4" Opening in Inclined Baffee.

EXPERIMENT

TRA VIOLET RAY STEERINGARION—74 OFENING I (Rate of Operation 3,000 Gallons per hour).

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	·ə#	nio V		370	370	50		4.0 4.0 2.0		345
		37°.5c. Colon	99.95		:	99.72		99.96		:
	on.	.5c.		:		99.4				:
	rercentage Reduction,	37.0	99.76	:	:	66 :		100		•
1 2	Ke	189-220c.	99.99			99.3	-	96.66		
		180	6		:	:		ğ. ;		
·	dity.	Turbi	:		:			:00		:
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Colon Bacilli.		.00001 cc.								
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ts.	.5c. count.				56,			<del>-</del>		
Bacterial Counts.	370 %	Inf.	4,000 1,200 4,200 4,200 5,000	12,000		510	640	800 800 800 800 800 800	30.000	2,000
erial			00%000	800 12, 900 1,100	500 600 700	400 800 800 4			888 400 600 1,600 80.01	1,120 1,100 1,040 2,000 72,0
Bact	cou	Eff.	-	86.1	4000	85 			.6 ± 6 ± 8 ·	1.1.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0
-	18º-22º c. count.	Inf.	2,200 1,800 10,000 8,000 16,000	000:::	000	1.280	1,600 1,280 1,130 1,130	1,380		000
-	180	1		3,45 104,000	<del>2</del>	1.380		ને વો વો વા વો છું જ	180	112,000
Поиг.		A.M. P.M.			1.00			: : : : : : : : : : : : : : : : : : :	1.00 180.000	1.30
=	]		11.15	: : :	4.00 148,000	1.380	00:11	11.10 1.20 1.20 1.20 1.10 1.20 1.10 1.20 1.2	180.000	1.30
	Date of Experiment			:		Jan. 30 11.10				
	Dati		1914 Dec 23	Jan, 1		n. 30		1914 Dec. 31		
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OPERATING DATA,

	. 928.	эфшА	65 r0		2.4				2.		
	•92	Volta	38. 50.	our).	350				355		
		Colon		er ho					99.1		
	tage tion.	37°,5c. Colon		d su					93.6		
	rercentage Reduction.			allo	-				<del>:</del>		
	- heq	18°-22°c.		(Rate of Operation 5,000 Gallons per hour).					99.7		
	.YJii	oidinT		n 5,0	-				:		
		50	_	ratio							
= Positive Reaction.		5 25 cc. cc.	-	Оре							
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		.0001 cc.		BAF				1111		1 : : :	<u> </u>
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ative		.001 cc.		AT10	0	9			:+:	+	+
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	.5c. count.	Eď.	1,120 1,120 1,120 880 800 780 640 640 800	VIOLET RAY STERILIZATION2" OPENING IN INCLINED BAFFLE.	72	0 2 7 2 2 2	æ (- 5 4 5 ½	. జమ్మ జూ -	2886	140 0 110 500	
unts.		Inf.		710L	800	000	000	009	900	2000	
al Cor	. 370		760 (500 (600 (800 (800 (800 (800 (800 (800 (8	RA V	80		080000000000000000000000000000000000000	0.00 0.00 0.00		3,500	330 180 200 60 40
Bacterial Counts.	8º-22º c. count.	Eff.	1,760 1,280 1,500 1,280 1,280 1,280 1,280 1,280 1,400	ULT	120	200	800000	2000	120	80 80 80 100 100	350 180 180 180 190 190 190 190 190 190 190 190 190 19
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	66-681	Jnf.	124,000	LLAT	2,400		3.200	3,000	3,800	3,600	009
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Hour.		A.M. P.M	5.00 124.000	500-Volt Installation Ultra	 	000.1	4.15	4.30	11.30	13.00	2.00
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	Date of Experimen		1914 Dec. 31,	200	1914 Jan. 4				10		
	Exi		Dec		Jan.				Jan, 5,		

EXPERIMENTAL STATION OF THE PROVINCIAL BOARD OF HEALTH OF ONTARIO.

OPERATING DATA.

500-Volt Lamp Ultra Violet Ray Sterilization--2" Opening in Inclined Baffle.

(Rate of Operation 5,000 Gallons per hour).

	Amperage.					4	32			÷;			~. ??			7.		,	-7° ≎₹						
	O Voltage.						2			375			350			320			340						
		lolon				16.4	:						:					95.4	:						
age	on.	37°.5c. Colon				92.2	:						:			:		91.3	:						
Percentage	Reduction.					_	:						-			:		-	:					_	
Ĭ.	ğ	18°-22°c.				97	:						:			:		98.1	:						
-	idity.					:	:				_		:			:		:	:			-	-		
36	200		- : :		: :		: :	:	: :	:	: :				: :	: :	:		:	: :	: :		: :	:	
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e Re		1 cc.	++-	+++	++	+	++	+-	++	-+-+	+	++	-+-	-+-	++	++	+-	++	+-	+	++	+-	++	+	+
= Positive Reaction.	Effluent.	.1 cc.	0+-	++0	00	+	++	+-	++	-++	+	++	-+-	++-	+-+-	+-	+	++	0	+	0+	.00		+	0
l Pc	ЕШо	.01 cc.	000	000	00	0	00	+-	++	0 -	-+	+=	000	000	>+	00	၁.	+0	0	0	0 0	0	00	0	0
+		.001 cc.	000		00	00	00	000		000	0	0 0	) ) (	000	00	0 0	0	0	:	::	:		:		-
	-	.0001 cc.			:				:			:			:										-
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Ba		50 cc.	-::	: : :	:		:		:	: :		÷					: :	: :	:	: :	:	: :	:		:
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Bacterial Counts.	18º-22º c. count.	Eff.	40	8 9 °	16	- 00		400	100	1.000 4.	300	100	450	200 4 4 0 0 7 0 7	200	202	1,400	009	005				:		
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	180-22	Inf.				:	3.00 20,000			3.30 20,000			4.00 48.000			30,000							:		
II.		P.M.		3.00	: :	:	3.00		:	3.30	:		4.00		:	4.30		:	2.30			3.00	:		
Hour,		A.M. P.M.		3.00		:	: :		:	: :	:		4.00			4.30			2,30	:		3.00	:		
	Date of Experiment		1915 Jan. 5			•	lan. 6	•	•	•	•		• •	•	٠			•	Jan. 15						

OPERATING DATA .-- Continued.

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Negative Reaction.		.0001 cc.	0 0 0
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ounts.	97° .5e.	Inf.	300 800 1,280
ial C			
Bacterial Coun	. coun	Eff.	000 000 000 000 000 000 000 000 000 00
	18°-22° c. count.	Inf.	2
	-	.M.	8
Hour.		A.M. P.M.	3.380 4 4 4 600 5 5 5 6 600 3 5 6 600 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
	nt .	4	<u>:::::::::::::::::::::::::::::::::::::</u>
	Date of Experimen		Jan. 15.1915 5 330 6 5 10 10 10 10 10 10 10 10 10 10 10 10 10

OPERATING DATA.

ULTRA VIOLET RAY STERILIZATION-500-VOLT LAMP-2" OPENING IN INCLINED BAFFLES.

(Rate of Operation 5,000 Gallons per hour).

	928190	1mV		
	*928	ΙοΛ	345 545	
		Colon	88	
Percentage	Reduction.	37°.5c. Colon	06 66 66 66 66 66 66 66 66 66 66 66 66 6	
Perc	Redi	18°-22°c.	96 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
	idity.			-
		50 cc.		:
on.		25 cc.		
eactio		cc.	+++++++++++++++++++++++++++++++++++	-
+ = Positive Reaction.		cc.	+++++++++++++++++++++++++++++++++++++++	0
ositi	Effluent,	.1 cc.	+0++00+00+00000000000000000000000000000	0
1 11	Eff	.01 cc.	0010000	
+		.001 ec.	,	-
- Harris		.0001 .001 cc. cc.		
Colon Bacilli.		.00001 cc.		
n Ba		50 cc.		:
Coloi		25 cc.		-
		cc.		
		cc.	************************	+
tion.	Influent.	.1 cc.	+++++++++++++++++++++++++++++++++++++++	+
Reac	Infl	.01 cc.	204000400000000000000000000000000000000	0
ative		.001 cc.	+00000000000000000000000000000000000000	0
O = Negative Reaction.		.0001 cc.	00000000	
0		.0000£		
	<u></u>	1	48468888888888888888888888438484848	. 9
	.5c. count.	Eff.		
Counts.	37° .5c.	.Inf.	00000000000000000000000000000000000000	100
Bacterial Counts.		Eff.	4458600888400889688988888888888888888888888	œ
B	18º-22º c. count.	Inf.	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	330
1		P.M.		
Hour.		A.M. P.M.	10.30 1.00 1.00 1.00 1.00 1.00 1.00 1.00	
	Date of Experiment		Jan. 21	

14 в.н.

EXPERIMENT

OPERATING DATA.—Continued.

	4		ſ _		3	0	æ €2						-		4.5	_
	.9281:	Amp	در در													
	*ə <i>ಔ</i>	Volta	66 E		052		350								335	
		Colon					001			99.5			93.5			91.9
	age on.	37°.5c.			98.6	:				90.7			93.5			56.5
	rercentage Reduction.		06										- 6 	<u>:</u>		
À	No.	18°-23°c.	96		93.8		9.66			93.75			97.5	•		90.8
	16220		:		:_	:	:							:	<u>:</u>	
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Jolon		25 CC. C						::								
		200.00				+++	- : :	:::		<u>: : :</u> : : :	<u>: : :</u> : : :				<u></u>	
		- cc.	+		+	+++		+++	-++	+	+++-	-+++	++			
ction	Influent.	.1	=		+	++=	++	+++	+++	<del>                                      </del>	1	H <del>++</del> +	+++		+ : :	
Rea	Inf	.01 cc.	ccc		0	000	++	1++	++0	000	+-	-00+	+0+		+	::
rative		.001 cc.	000		::	: : :	9+	<b></b>	0+0-	-0+	+>=		000		٥ :	<u>:</u> :
= Negative Reaction.		.0001 cc.					95	000	000	0000	000				9	
Ö		.00001 cc.			::											
		-1	08800808	0-20	?? ≎		100	2 2 % 2 % %	2,2,2,3	2824	2222				08280	
	.5c. count.	Eff.													, , , , , ,	
Bacterial Counts.		Inf.	8888888888	885889 885889		200	900	800	2500	3000	1992	0250 0350 0350	280 200 600			
ial Co	1. 370		o5%±±8	ಎ ಈ ೧೭ ೧೭ ಈ ಅ	;							o <del>-</del> 0	ဗသဝ	::::		
acter	18°-99° c. count.	Eff.	01				28	<b>3</b> 68	20 44 20 F	2 22 2	\$ @	→ ??	- =	ភីភភ	802	22
	.50 cc.	-	200 1140 1140 1180 1180 1180 1180 1180 11	8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	200	5 55 55	009	020 080 380	1,140 960 960 960	0960	360	480 560 560	800	::::	600	<u>:</u> :
		Inf.					ež −								009	
ar.		P.M.		3 30	12.20	12.40					2 : 5	4.30	4.40		13.00	
Hour.		A.M. P.M.				12.40	11.10	02.11	11.45							
			e :		:								:			
	Date of Experiment		Jan. 23.		n. 27.		ů,						Jan. 15			
j	EX	j	Jai		Jan.		Feb.						Jai			

OPERATING DATA.

500-Volt Lamp Uthra Violet Ray Sterilization-2" Opening in Inclined Baffle.

EXPERIMENT

(Rate of Operation 5,000 Gallons per hour).

	9 <b>%</b> 8190	ımA	GS.		2.45	25 25				
	.១ឱឧ.	Vol	340		3355	330				
		Colon			97.8	:	97.9		91.5	
age	on.	37°.5c.	:		62.5		93.6		96.9	
Percentage	Reduction.		<u>:</u>		:	<u>:</u>	Ğ		- 6	
Pe	Re	.0°52.0°					25		69	
					::		•			TLE.
	idity.	00 00 C C C C C C C C C C C C C C C C C		: : : : :		<u>:</u>	<u>:</u>			BAFI
		25 5 cc. c	- : : : :	: : : : :			<u>: : : : :</u> : : : :++	· · · · · · ·	++	ED
= Positive Reaction.		5 00.	++++	<del></del> -++++	+ ;+++	++++	-0+++	-000+	-0+	CLIN
ve Re		1 cc.	++++	-+++	+ + + + + + + + + + + + + + + + + + + +	+000			000	Z IN
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11 +	E	10.01		+						NIN
		1001 cc.			° : : :				-	OPE er h
		.0001 cc.								1/2" 1S p
Colon Bacilli.		.00001 cc.								RAY STERILIZATION—2½" OPENING Operation 7,000 Gallons per hour)
on E		50 cc.								ATIO 0 G
Col		255								7,00
		. co			<u> </u>					STER
ñ.	ıt.	cc. 1			::+++	-+++-	+++++	-++++	-++	ay ( erat
eactic	Influent	.01 .1 cc.	+ : :	<u>:+ ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;</u>	::+++	-+++-			.00	P. B.
ive R	Ξ	.001 .cc.	9	:T:::	::	000+0				OLE) e of
= Negative Reaction.		.0001	0		::					A VIOLET (Rate of
0 = 1		1	::::	: : : :	::::	::::	<del></del> .	: : : :		LTR
		.00001 cc.								r U
	7º ,5c. count.	Eff.	200 420 380 380 250	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	86998	8888	8879°		. • • • •	-Volt Lamp Ultra Violet Ray Sterilization— $21/2$ " Opening in Inclined Baffle. (Rate of Operation 7,000 Gallons per hour).
Bacterial Counts.	7º .5c.	Inf.	100	500		200000	000 000 140	180 140 140 180 180 180 180	160	Volt
rial C			340	: : : :	::	82288	000 7 7 00	80 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	09	500-
Bacte	noo :	Eff.	200 300 300							
	18º-22º c. count.	Inf.	12.30 1,200 240	3,60 1,000	000 000	00000	200 100 100 100 100 100	⊋ <sub>8</sub> ;	7007	
	=	Ж.	3.30	00.2			: : : : : : : : : : : : : : : : : : : :	30.30	.40	
Hour.		A.M. P.M.	12.30	3.00		12.30	12.10	12.30	12.40	
	of cent						:			
	Date of Experiment		1915 Jan. 15		1. 33		Jan. 23 .			
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	. 18ge.	Ampe	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	÷;
	*ə∄	Volta	310 340 340	350
		Colon	88	93.1
	tage ion.	37°.5c.	1.16	95.3
	Percentage Reduction,			<del></del>
		18°-23°c.	9.7.6	95
-	dity.	idınT		<u>:</u>
	1	50 cc.	+++++=0000	
	i	25 000.0	_++++0+0	
	actio	r cc.	+	<del></del>
1	ve Re	1 cc.	+	++++
	Fositiv Effluent.	.1.	++3++++++++++++++++++++++++++++++++++++	+-++
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1.		.0001		
Colon Bacilli.		.00001 cc.		
n Be	-	50 CC.		
Colo		SE CC.		
-		cc.		
		cc.		
	heachon Influent,	.1.		+
Manual Ma	Ind	.01 cc.		+
	aria c	.001 cc.		0
2		.0001 cc.	G G G	a
		.00001 cc.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	<u> </u>		15.50 15	2 2 2
	.5c. count.	Eff.		
unts.		Jr.	30 30 30 30 30 30 30 30 30 30 30 30 30 3	900
al Co	2.7	Inf	8 4 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
Bacterial Counts.	180-230 c. count.	Eff.	5 + 4 + 5 + 4 + 5   5   5   5   4   1   1   1   1   1   1   1   1   1	35 <del>7</del> <del>7</del>
a	30 C*		: :8: : : : :8: : : :8: : : : :8: : : : :8: : : : :8: : : : :8: : : : :8: : : : :8: : : : :8: : : : :8: : : : : :8: : : : : :8: : : : : :8: : : : : :8: : : : : :8: : : : : :8: : : : : : :8: : : : : : :8: : : : : : :8: : : : : : : : : : : : : : : : : : : :	99:
	180-9	Inf.	2.30 T T T T T T T T T T T T T T T T T T T	1,500
Hour.		A.M. P.M.	5. 300 600 600 600 600 600 600 600 600 600	1.30 , 1,500
По		A.M.		
	Date of Experiment		Jan. 13, 1915  12, 300  1, 400  Jan. 14  2, 300  5, 000  3, 000  3, 000  4, 000	

EXPERIMENTAL STATION OF THE PROVINCIAL BOARD OF HEALTH OF ONTARIO.

OPERATING DATA.

ULTRA VIOLET RAY STERILIZATION--500-VOLT LAMP-21/2" OPENING IN INCLINED BAFFLE.

EXPERIMENT

(Rate of Operation 7,000 Gallons per hour).

* ə.	nperag	пА	es co	ण
	itage,	οΛ	350	350
		olon	88.8	66
Percentage Reduction.		37°.5c. Colon	06	G
Perce	-	18°-33°c.	2.98	7.00
	·tibic			9
		50 cc.		;= · · · · · · · · · · · · · · · · · · ·
on,		25.	+++-	-+++++++
= Positive Reaction.		. 50 . 50	++++++++++	+++-+-+++
ive R		1 cc.	++++++++++	
Posit	Effluent.	1 .1		
11 +	Eff	1 .01 .cc.		
		11.001 cc.		
.		.0001 cc.		
Colon Bacilli.		.00001 cc.		++++++++++
n B		50		
Colc		35 cc.		
		cc.		
		1 cc.	++++	+++++++++
ction	Influent.	.001 .01 .1 cc. cc.	+ + +++	
Rea	Inf	.01 cc.		++++900+90+1
ative		.001		
= Negative Reaction.		.0001 .001 cc. cc.	++++ ++++	**************************************
0		.00001 cc.	250 200 200 200 200 200 200 200 200 200	0 0 0
	ount.	Eff.	250 250 250 250 250 250 250 250 250 250	8.8.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
ıts.	.5c. count.		0000	1.360 726 726 8800 8800 7739 880 6410 6410 113, 600 114, 000
Cour	370	Inf.	999299999999999999999999999999999999999	11.2 [1.360 100   550 80   800 80   800 80   800 10   1.30 11   100 1
Bacterial Counts.	18°-22° c. count.	Eff.		
Ä	30 C.			25, 5000 26, 5000 27, 5000 28, 5000 29, 5000 20, 5000 20, 5000
	180-2	Inf.	001 : 002 : 003 : 0	
Hour.		A.M. [P.M.	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30
IIo				1.40 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.3
	Date of	Experiment	Jan. 14	an J

OPERATING DATA.—Continued.

	,9 <u>2</u> 819	īmĄ			25	ت. در		-	;			
	19.Ze	Tol			3:0	350		2.5	nee			
		Colon	76	our).		:			:			
tage	tion.	37°,5c.	86.4	er hc		16	78	<del>z</del>	2	831	22	
Percentage	Reduction.			ns p	:	- :	oc		·		20	
		18°-22°C.	91.8	Operation 5,000 Gallons per hour)	F2 26	£6	68	₹	88	7.0		
	dity.			000,								
		50 . cc.		n 5					<u> </u>	:	:	
= Positive Reaction.		35 . cc.		atio		<del>!</del> <del>!</del>	<del>:</del>		<u>:</u>	<u>.</u>	:	<u>:</u> _
Reac		1 5 cc.		per	-++	- : :	<u>:</u>	<u></u>	<u> </u>	<u>:</u>	<u>:</u>	<u>:</u> _
itive	at.	.1 1 cc. cc.	++++		++++	<u> </u>						
Pos	Efficent.	.01	++++	(Rate of	00000	-				<u>:</u>	:	
+	Ħ	.001 cc.	0000	(Ra		- <u>:</u> -:			<del></del>	-÷	:	<u>:</u>
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<u>:-</u> :				;		::	:	:		:	:	<u>:</u>
Colon Bacilli.		.00001 cc.		OUTFALL.								
n B		50 cc.		Jur		- <u>: :</u>	$\frac{\cdot}{\cdot}$	:		- :	:	:
Colc		25 cc.		OF (						:	•	
		1 5 cc. cc.										
				INFECTION	+++++					:		
ction	Influent.	.1		NE	++++0	:	- da :		: d :	<u> </u>	di :	<u>-</u>
= Negative Reaction.	Inf	.01 cc.			+	utlet.	r lar	tlet.	er har	itlet.	r far	ullet.
ative		.001 cc.		NC	00000	at or	afte	at on	afte	at on	afte	at on
Neg		.0001 .001 cc. cc.		ATTA		Effluent at outlet.	iately	Edluent at outlet.	iately	ent a	iately	ient
0		.00001 cc.		STIG		Efflic	Immediately after lamp.	Edh	100 110 Immediately after lamp. 140 140 140 140 140	ЕШп	nued :	Effi
	1 -	8,	2000	NVE	00000				: # :/		H :	20000
	.5c. count.	Eff.	18,000 2,200 1,800 1,600	STERILIZATION—INVESTIGATION re	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2002		: <u> </u>	23336	50305
onnts		Inf.		ZATI	400 700 650 500	009	200 800 800 800				900000	
ial Co	1. 370		0000	RILL	00000	00000	00000	0000	00000			
Bacterial Counts.	c. coun	Eff.	3,200			800 800 800 800 800	\$ \$ 1. 1 \$ \$ \$	\$ \$1 \$0 \$0 \$0	- - - - - - - - - - - - - - - - - - -	7,527,7		
	18°-22° c. count.	Inf.		ULTRA VIOLET RAY	1,600	009	700 800 700 500		690 500 700 600			
		.M.		OLE					<u>.</u>		00	
Honr.		A.M. F.M.		N I	11.00				* : : : : :			
-	, i	<	15	LTRA	:	: : : : : :	:::::		<u>:                                    </u>		:::::	
	Date of Experiment		Jan. 7, 1915	Ü,	1915 Jan. 18							

### OPERATING DATA.

ULTRA VIOLET RAY STERILIZATION-PROGRESS OF STERILIZATION IN "DF" TANK.

EXPERIMENT

(Rate of Operation 5,000 Gallons per hour).

	.92819	qmA		
	*9 <i>2</i> 71	ulo V		
		Colon	8.85	9. 6. 70
Percentage	Reduction.	37°,5c.	96.8	- 91 8.
Per	Red	184-22°c.	** ** **	80 85 85
	dity.	idınT		
		50 cc.		-+++++++
on.		25 CC.	+0+0+++++++++++++++++	-+++++++ 
eacti		ž cc.	0000000+0+0-04-+0+000+	-+++++==+
= Positive Reaction.		1 00.	000000000000000000000000000000000000000	0+0+00+11 0+00
ositi	Emuent.	.1	2020 ::: 022222222222	000000000
I = +	Em	.01 cc.		
+-		.001 CC.		
		.0001 cc.		
Colon Bacilli.		.00001		
on E		50		
Colc		25		
		cc.	++++++++	-+++++++
		ı cc.	++	-+++++++
ction	Influcat.	.1	++>>>>++++++++++++	,++++++ +++00
Rea	Infl	.01 cc.	••••	,+>=>===
zativo		.001 cc.		
O = Negative Reaction.		1 .0001 cc.		
		.00001 cc.		
	count.	Eff.		4468888888 56648888
Bacterial Counts.	37º .5c. count.	Inf.		100 100 100 100 100 100 100 100 100 100
erial		pi	+f-a+21008084 048001 = 200	14673083300
Bact	8°-22° c. count.	Eff.		1120 1120 1120 150 150 150 160 160 160 160 160 160 160 160 160 16
	180-22	Inf.	66 1,000 1,100 1,120 1,100 1,1	1,120 1,120 720 720 5560 800 1,440 1,40 1,
Hour.		A.M. P.M.	5.93 12.00 13.00 10.00 1	13.00 3.00 1.00 1.00 1.00 1.00 1.00 1.00
(A)	44	Α.Λ	7. Y	13.00 nt "B
	Date of Experiment		Rample Point A. 5.33 Jan. 25	Feb. 5 13:00 3:00 3:00 5:00 8:00 8:00 8:00 8:00 8:00 8:00 8
•	_		J. F. J. S.	E4 20 E

OPERATING DATA. Continued.

		.92619	qmA			es es
		*SE	Tolt			3,50
			Colon	9.7. 0.7.		
	age	on.	37°.5c.	9. 6.		2.86
	Percentage	Reduction.				- <del></del>
	ش	ğ	18°-22°c.	98 6. 9		99.84
		.tiibi		<del></del>		- :
			50 cc.	\		
	n,		25 CC.	\\.	T.	
	ctio		5	00000+++0+++ 00+0++++++++++	ME	
1	e Rec		1 00	0000000+0++ 000+0000+0+0000	rusı	
	= Positive Reaction.	ent.	1.00	::::000+0000 0000::0:0000000	AD.	
	= Po	Effinent,	10.		FLE r).	
	+		.001 cc.		SAFE	* * * * * * * * * * * * * * * * * * * *
			.0001		PE	
Constitution (e.	Colon Bacilli.		.00001 .cc.		ULTRA VIOLET RAY STERILIZATION—500-VOLT LAMP—BAFFLE ADJUSTMENT. (Rate of Operation 3,000 Gallons per hour).	
	Ba		50 .0 cc.	<del></del>	orr Gall	ed ba
	olon		25 5 CC. C	++ : : : : : : : : : : : : : : : : : :	00-V	Horizontal Battles in place. Opening in inclined Battle
	Ö		5 2 CC.	++++++	3,0	in inc
			cc.	000++++++++++++++++++++++++++++++++++++	ron- ion	onfall ling ii
	on.	nt.	.1 cc.	00-0+++++++	ZAT	Openi
	eacti	Influent.	.01 cc. c		ит.	H G
	ve R	-	.001 c		STE	
	= Negative Reaction		01 0		ate	
	Z II		.0001 cc.		R (R	
	C		.00001 cc.		OLEI	
		+		1000104040588 0000001811F100044	V	######################################
		.5c. count.	Bff.		TRA	
	unts.	.5c.	luf.	100 100 100 100 100 100 100 100	UL	1,800
	1 Col	370	In			<u> </u>
	Bacterial Counts.	18°-22° c. count.	Eff.	8000 81 8 9 8 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8		######################################
		55° C.	luf.	80 240 11.120 1720 7		008
		180-				12,800
	ur.		P.M	4.30 4.30 5.00 6.00 6.00 6.00 6.00 6.00 6.00 6.0		30.00
	llour.		A.M. P.M.			00
		Date of Experiment		Peb. 5		
		Date of xperimen		mple P 5		1914 Dec. 24
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OPERATING DATA.

ULTRA VIOLET RAY STERILIZATION-500-VOLT LAMP-BAFFLE ADJUSTMENT.

EXPERIMENT

(Rate of Operation 3,000 Gallons per hour).

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OPERATING DATA, -Continued

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OPERATING DATA.

ULTRA VIOLET RAY STERILIZATION-500-VOLT LAMP-BAPTLE ADJUSTMENT.

EXPERIMENT

(Rate of Operation 3,000 Gallons per hour).

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(Rate of Operation 5,000 Gallons per hour).

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OPERATING DATA.—Continued.

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### OPERATING DATA.

ULTRA VIOLET RAY STERILIZATION-NEW LAMP NO. 8935-230 HOURS. 14" OPENING IN INCLINED BAFFLES.

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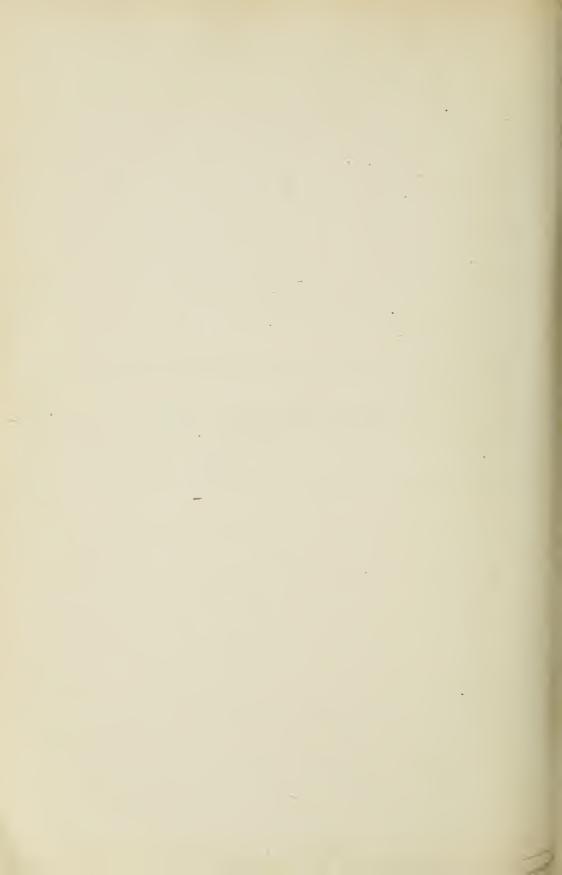
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OPERATING DATA.—Continued.

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### APPENDIX "A"



### APPENDIX "A"

The reports appearing in this Appendix were received from the Secretaries of the different 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.

### BERLIN.

DR. JOHN MCGILLAWEE, M.O.H.

I beg to present the Annual Report of the Medical Officer of Health, of the City of

Berlin, for the year ending November 15th, 1914.

The subject which has been of the most importance to the Board during the year, and is still the most important, is the presence of diphtheria in the city. Previous years we were rid of it for a few months during the summer; but this year we were never quite free from it. Several times we were down to one or two cases, but absolutely no connection between the cases could be traced. The fact that there were cases not reported during the summer was shown by the number of cases which developed directly after the schools were opened. The cases are concealed on account of an aversion to be quarantined, and also to save the expense of a physician. Circulars are being passed around among the people advertising quack nostrums which guarantee "to cure diphtheria and save expense." Expense of course, referring to doctor's bills. If the patient gets well, and many do with no treatment to speak of, nothing is said about it, and the disease is passed on to others who are unfortunate enough to come into contact with the person affected. If the patient does badly, a physician is called, but in many cases it is too late to do any good. I feel convinced, that at least seventyfive per cent. of the lives lost could have been saved by timely treatment. There have been one hundred and fifty one cases reported during the year, with nineteen deaths. Sixty-three cases have been treated in the Isolation Hospital. We are constantly fighting the disease and doing all in our power to prevent its spread.

We had an epidemic of measles during the spring and summer. There were ninetythree cases quarantined and the houses disinfected. The fact that measles is contagious at a very early stage, renders it a difficult disease to control. There were no deaths

from measles.

There were fifteen cases of scarlet fever; five were treated at the Isolation Hospital. One child died of a malignant form of scarlet fever. This was an immigrant child who

had unquestionably contracted the disease before reaching this city.

There were three cases of typhoid of rather a mild type. No deaths from typhoid. There were three cases of smallpox during the year. By strict quarantining, and by the vaccination of all persons exposed, the disease was confined to the original three cases. Two cases were treated in the smallpox hospital.

There were thirteen deaths from tuberculosis during the year.

The quality of the milk supply has improved this year. Only in one or two cases has it been necessary to call the attention of a milk dealer to the fact that his milk was below standard. There has been a decided improvement in the cleanliness of the milk. Last year when the filtering test for cleanliness was first applied, some of the samples were decidedly dirty. This year there has been very little cause for complaint, and for the last few months, none. The round of inspection made by the Board to the different byers from which milk is supplied has, I have no doubt, had a beneficial effect.

For the last six months, the water supply has come entirely from artesian wells.

All of which have been tested and found pure.

By co-operation with The Breithaupt Leather Company, we have obtained the sanction of the Provincial Board to turn the effluent from the Breithaupt tannery into the city sewer. Samples of the tanning fluid from the different vats were sent to the Provincial Laboratory for analysis, and the Breithaupt Company constructed settling tanks according to requirements.

The City Council has made a wise and necessary move in taking steps to establish an incinerator for the disposal of the city garbage. The rapid spread of the city in all directions has left no place where garbage can be dumped without creating what is

a nuisance to someone.

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The many cases of diphtheria and measles which required houses to be placarded and disinfected, and the disinfection of schools, have made the work of the Sanitary

Inspector heavy this year.

The thanks of the community are due to you, gentlemen, who, as a Board, so readily responded to the many calls on your time and attention in the interests of the public health during the year.

### BRANTFORD.

### DR. F. G. E. PEARSON, M.O.H.

The following contains a brief report of the Health Department for the year ending October 31st, 1914.

### MORTUARY STATISTICS.

For the period of this report there has been reported with the Registrar, exclusive of still births, in all 301 deaths, using the Assessor's returns which gives the city a population of 26,389. The mortality rate is 11.1 per thousand.

Among the causes of death were the following:

Pneumonia, 28; tuberculosis, 14; typhoid fever, 3; (two of these were from cases included in last year's report); scarlet fever, 1; menengitis, 10; dysentry and summer intestinal diseases, 15.

As to ages there were: Over 80 years, 41; over 60 years, 74; under 1 year, 69;

under 5 years, 12.

### CONTAGIOUS DISEASES.

For the past twelve months I am pleased to report that there has been a decided decrease in the number of cases of contagion, totalling in all, 79 cases with 2 deaths; this being the lowest in the history of the Department, and as compared with the preceding year in which there were 120 cases, is to my mind a very encouraging report and were comprised as follows:—

Diphtheria.-7 cases with no deaths.

Scarlet Fever.—47 cases with one death. I might here add that for the most part these cases were of very mild type, thus adding to the difficulty in controlling them. As explained in previous reports, we frequently find that the type being so mild, cases are sometimes unnoticed and unreported—thus the infection spreads; whereas, had the proper precautions been taken, the number of cases could have been reduced very considerably.

Typhoid Fever.—There were reported from the city in all 8 cases, with one death, this being a very decided decrease over previous reports, and moreover, I might add that outside infection was largely the cause of this. The general reduction, I believe was largely due to the fact that not only was a strict observation kept upon the milk and water supplies, but there were but few this year who migrated to the summer and pleasure resorts, from which places we have been able to trace, in the past, a great number of our cases of typhoid.

Smallpox.—In the matter of smallpox we had, during the past year, 6 cases with no deaths. In connection with this disease, which we see more frequently developing throughout the Province than some years ago, I feel, as has been explained on different occasions that the municipalities and the School Boards are not living up to regulations in regard to vaccination carried out as evidenced in the freedom of the disease in our recent arrivals from foreign shores and of the freedom of the disease in the armies now in the field, who are all subjected to vaccination; but a short time would elapse until smallpox would again be an unknown disease. Thus I wish to urge upon this Board the necessity of having at least the school regulations carried out that would eventually produce a protection to a very large class of the population.

Measles and Chickenpox, of which the balance of the contagion comprised, were 11 cases with no deaths. I fear that this does not include all of this class, as they

are frequently considered too mild to have the attention of the physician, and thus we get reports only of those who have had medical attention or are located by us in our inspections.

Among recommendations which have been brought to your attention on various occasions is the necessity of proper conveniences in different sections of the city. city. I am sorry to report that as yet they are urgently required, and more in particular with the accommodation that is provided at the market buildings, which are a standing disgrace, and I feel that if within a proper time limit to remedy this condition, they are not put in proper shape they should be closed, as such an example as the present should not exist while we are encouraging the furtherance of sanitary arrangements in other directions.

### GARBAGE SYSTEM.

In connection with the above matter, I feel that the time has now arrived when for the thorough and proper collection of the garbage, the system should be taken over by the Municipality, thus reducing in many ways the cumbersomeness of the details in the workings and from which I feel sure a more effective system could be evolved. These matters I here submit for your consideration.

### WILLIAM GLOVER, SANITARY INSPECTOR.

I herewith submit a brief report of the Sanitary Department for the year ending October 31st, 1914.

The contagious diseases reported during the year have been 77, as compared with

127 last year.

Referring to my last report I find that there were about 100 sewer connections

not completed. At the present time there are about 20 still unfinished.

During the past year I have served 70 notices to make sewer connections; 52 have complied with the order, leaving 18 yet to be completed. The number of sewer connections made during the last year have been fewer than previous years, owing to the general depression, but when conditions improve the work will be continued as before, as nearly every street in the city is provided with sewer mains.

Another matter I wish to refer to is the number of complaints of stables and chicken houses in the residential sections of the city. While some of the owners keep their places in a sanitary condition there are others who make no effort whatever to

keep their premises sanitary.

Early last spring, in company with Dr. McClenahan, the District Officer of Health, an inspection was made of all laundries, bake shops, public and separate schools. Very little fault could be found with the places visited, and I have continued the inspections up to the present.

I have served 11 notices to abate nuisances. In every case the order has been complied with. In no case have I found it necessary to bring any citizen into court

for violation of any of the health regulations.

In previous reports attention was called to the condition of the Market Street Lane. I understand the matter has been taken up by the Board of Works, with the result that as the lane is owned by private citizens, the work cannot be undertaken by the city. The lane was properly cleaned last spring and has been kept in fairly good condition ever since.

I can also report that the garbage system is giving general satisfaction. wagon boxes have been provided, and the general appearance much improved.

There has been very little complaint made of the dumps being offensive.

I again wish to call attention to the city providing public conveniences, not only at the Market House, but in other parts of the city as well. I don't think this matter should be allowed to drop till something is done.

We have at the present time milk vendors supplying milk to the city. have been collected regularly and the results published in the city papers. The general opinion expressed by many people is that the milk supply is much improved

since Dr. Cutcliff was appointed Dairy Inspector.

Referring to our foreign population, I can report that owing to so many being out of work, with no means to provide homes for themselves, many complaints have been made of overcrowding. Dr. Pearson and myself made an inspection of a number of the places complained of with the result that 14 dwellings were condemned and

ordered closed as being unfit for habitation; out of that number 6 have complied with the regulations and 8 are still unoccupied up to the present, and one has been torn down. Some of these places were occupied by English speaking people, yet the majority were occupied by foreigners.

In conclusion, I may say that the health regulations have been well observed

during the year.

Thanking the Chairman and members for courtesies extended,

### CHATHAM.

### DR. WM R. HALL, M.O.H.

I herewith submit my annual report for the year ending December 1st, 1914. Contagious Diseases.—The Public Health Regulations respecting scarlet fever, diphtheria and smallpox are very well observed by the public, because a doctor is called and he helps to enforce them, and as a result we seldom ever have more than one or two cases from each outbreak. With chickenpox, whooping cough, measles and mumps, however, it is different; the public regard them as trivial and often do not call a physician, but allow children from the infected house to attend school and infect others, so that outbreaks that might be confined to a single case often become epidemic. For instance the epidemic of mumps that has been prevalent here for the last ten weeks or more might have been stopped after one or two cases by a watchful medical school officer; neglect in this regard has cost great suffering on the part of many children and some grown people, as well as loss of time in school and interference with school work, as well as other inconvenience and discomfort in many homes.

Very frequently, at least every year, we have one or more of this quartette of school children's enemies repeating this same kind of work, only too often levying a toll of death.

People refuse to regard these children's diseases seriously. Some say they are mild diseases incident to children and do little harm; others say children have to have children's diseases some time; better let them take these diseases early and have them over with. But children don't have to have these diseases at any time in life, and instead of being the usual thing should be a very unusual occurrence. Again, it is abundantly proven by statistics that the older a child is when stricken by any of these diseases, the better the child is able to withstand its effects and make a complete recovery.

We too often forget that death is not the only bad result from these diseases; almost as bad are the many cases of bad hearing, impaired eyesight, weak heart, tuberculosis, and other defects resulting from them.

The older the child is the better it can resist also the crippling tendencies of children's diseases.

During the year there were no cases of whooping cough or chickenpox reported, though many cases of each occurred, but no deaths. Five cases of mumps were reported, but probably the actual number that occurred were over fifty; no deaths.

Twenty-five cases of measles were reported; three deaths. The regulations respecting measles were observed better this year than ever before in Chatham.

There were fifty cases of diphtheria; five deaths.

Three cases of scarlet fever; no deaths.

Two cases of smallpox; no deaths; both brought into the city from outside points. These two cases with two others in a Dover suburb, exposed many of our citizens, so that seven other houses were quarantined and placarded; these precautions with vaccination were probably successful in preventing its spread.

Four cases of consumption were reported; eight deaths.

Twenty-two cases of typhoid fever; no deaths. Six of these cases were postively contracted outside of the city, six from well water in the city, and 10 of the balance cannot be traced. There were no secondary cases. There has been a noticeable improvement in following the regulations respecting the reporting of this disease, as soon as possible after its occurrence, to the M.O.H. By this means the Local Board of Health is able to study the situation and take suitable means to prevent the recurrence of this preventable disease.

Vital Statistics.—Two hundred and twenty-five (225) births.

One hundred and seventeen (117) marriages.

One hundred and seventy-five (175) deaths were registered.

This enumeration does not include all the deaths that occurred in the city hospitals, of people whose residence was outside, nor those who died outside and were interred in our city cemeteries, which would add 51 to this list.

All of which is respectfully submitted,

### CITY OF FORT WILLIAM.

### DR. E. B. OLIVER, M.O.H.

In accordance with the provisions of the Public Health Act, I beg to submit herewith my Annual Report for the year ending October 31st, 1914.

This has been the most satisfactory year the Department of Health has experienced in the history of the city. Owing to my appointment as wholetime Medical Officer of Health in April I was at once able to enlarge the scope of the Department.

Monthly meetings of the Board of Health were held during the year.

The attendance was as follows: I was present at twelve meetings, Dr. R. J. Manion was present at eight, Mr. C. A. Coslett (Chairman) was present at seven, Mr. Geo. Matthews was present at seven, Mayor S. C. Young was present at six. Acting Mayor Mr. W. K. O'Donnell was present at one and Acting Mayor Mr. H. Murphy was present at one.

One of the things that received my early attention was the inauguration of a Department of Vital Statistics. During the year an international list of causes of death has been kept. This is the first year that this has been done. I have been able too, to devote considerable time to the problem of child welfare. As my report will show, conditions with regard to this Department of the work were never better.

The deaths of infants under one year from cholera-infantum and allied diseases were twenty-five less in number than last year, there being but fifty this year as compared with seventy-five last year.

But perhaps the most noticeable feature in regard to Vital Statistics is the sme h. number of deaths from external violence this year as compared to last year. The year there were eleven. Last year there were fifty-nine. The reason, of course, verthe small amount of industrial work, particularly construction, that was carried during the year.

The death rate this year is extremely favorable. The cause is as stated above in the fewer number of infants dying, in the fewer accidents and also because the deaths of those who died outside the Municipality who were non-residents have not been included.

During the year a large addition to the McKellar Hospital has been built. The institution will now accommodate one hundred and fifty-eight patients, viz:

Public Wards Semi-private Wards Private Wards Children's Wards	18 30

The employment of a competent assistant to the Sanitary Inspector resulted in the diminishing of the nuisances that have been for some time a standing menace to the health of the citizens.

Inasmuch as the work of the Cleansing Department is more or less intimately in relation to that of the Department of Health, I beg to call your attention to the following synopsis of a report recently made to the Board of Works by Mr. H. J. Paddington, Superintendent:—

### GARBAGE COLLECTION.

This section of the Cleansing Department has been improved considerably during the past year. The whole area of the city has been divided into six collection areas, the garbage from each area being collected on the same day in each week.

Greater advantages would accrue if the by-law concerning the use of covered receptacles was enforced.

(I would draw your attention to this last statement as I have not been able to

get the backing of your Board to the extent I could desire in regard to this.)

The incinerator plant has been entirely satisfactory. Since May 1st, all garbage has been disposed of by burning. Five thousand seven hundred; and twenty-four tons have been burnt at a cost of 42.4 cents per ton. The quantity burnt is 34.3 tons per day. The capacity of the plant is 50 tons per day. This could be burnt at 29c. per ton.

Attempts have been made this year to dispose of nightsoil by dumping into sewers. It is impossible to use this method as a permanent means of disposal, owing to the

presence of cans, clothing, dead fowls, bottles, etc., in the pails.

The evidence plainly shows that the only way to abolish the nightsoil collection is by putting in sauitary sewers. During the past year a considerable amount of sewer construction has been done on various street, but the number of sewer connections is few.

(The report of Mr. Stanley hereto annexed will show that a goodly number of sewer connections were put in by default. It is a matter for regret that the Board of Works found it necessary to curtail this work this year. I trust next year will see

three times as many installations.)

The employment of an assistant left Mr. Stanley free to devote his entire time to the Food and Dairy Inspection. This has resulted in a great improvement in the condition of the dairies, and therefore in the quality of the milk sold. It also allowed Mr. Stanley time to collect an additional number of milk samples for analysis. Thus, I was able to keep more strict supervision over the milk sold.

During the summer in company with Mr. Stanley I visited with two exceptions the farm of every country producer of milk for city consumption. There is on file in this Department a complete description of every barn, showing the construction,

area, ventilation, water supply, etc.

Our new Milk By-law was put in operation on June 1st, 1914. Some of its provisions resulted in a little ill-feeling among the farmers. But a meeting of the Oliver Dairymen's Association was called at Murillo, and Mr. Stanley and I went out and talked matters over with the members of the Association and now a better feeling prevails. All we ask of the farmer is that he send us clean milk. This he must do, and now generally does. We try by educative measures to have him improve his barn, yard, etc.

The report of the Isolation Hospital is very satisfactory. I would draw your attention to the low rate of cost per patient per day. As the population increases the will keep on getting less. All the vegetables used at the hospital, including the atoes, are grown on the hospital grounds. Some few were sold. The caretaker,

pl. . Foreman, took second prize for his potatoes at the fall fair.

### REPORT RE COMMUNICABLE DISEASES.

### SMALLPOX.

We were fortunate in that we had not a single case of smallpox with which to deal this year. This repeats our experience for the year 1912. The following are our statistics for the last five years:

Year.	Cases.	Deaths.
1910	0	0
1911	15	U
1912	0	0
1913	11	0
1914	0	0

### SCARLET FEVER.

There were two and a half times as many cases of scarlet fever this year as last . An epidemic seems to have prevailed throughout the country during the early of the year. The cases were for the most part mild, there being but two deaths.

The following are statistics for the last five years:

Year.	Cases.	Deaths.
1910	38	U
1911	28	0
1912	12	0
1913	45	1
1914		2

### DIPHTHERIA.

This is always a distressing disease. The onset is often very sudden. There were twenty-four cases reported during the year, compared with nineteen in 1913. The deaths were the same, viz., two. The deaths that occurred this year were both in cases that were beyond help when seen by the physician. They died within a few hours in spite of the use of antitoxin and intubation.

hours in spite of the use of antitoxin and intubation.

During the year the Provincial Board of Health commenced the manufacture of antitoxin at the University of Toronto. The Board supplies it at less cost than we were formerly paying. It is furnished free by the Local Board of Health to those unable to pay. During the year four hundred and four thousand units of antitoxin were used. Two hundred and two thousand were used at the Isolation Hospital and two hundred and thirty-eight thousand were distributed from the City Hall office.

Statistics for the last five years are as follows:

Year.	Cases.	Deaths.
1910	10	9
1911	8	0
1912	12	0
1913		2
1914	24	2

### MEASLES.

This disease is ever present with us. There was not a month during the year that we were entirely free, though we did get down to one case in August. There were in all two hundred and seventy-nine cases during the year with one death. This was nearly double the number of cases we had last year.

One might naturally ask why measles is always so prevalent. The answer is that it is infectious for several days before a diagnosis can be made. In fact, a physician is rarely called until the rash appears, which is two or three days from the original date of infectivity. The best place to check an epidemic of this disease is in the schools, by having daily examination of the scholars by the teachers or nurses for the prodromal symptoms, which are quite marked.

Statistics for this disease for the last five years are as follows:

Year.	Cases.	Deaths.
1910	198	7
1911	17	0
1912	98	0
1913	144	0
1914	279	1

### TYPHOID FEVER.

Of our record in regard to this disease this year we may be justly proud. Not only has there been actually fewer cases than in any other year, hut with our constantly increasing population our rate is very low. There were eighteen city cases and seventeen imported cases. Strangely the death rate in city cases was much higher than in the imported cases. Of the city cases four died, giving a death rate of 22 per cent. Of the imported cases but one died, giving a death rate of 5.8 per cent.

Statistics for the last five years are as follows:

Year.	Cases.	Deaths.
1910	88	12
1912	63	6
1912	48	6
1913	80	5
1914	18	4

This does not include the imported cases which in former years were always included in the total number of cases. With the imported cases added this year there would be thirty-five cases with five deaths.

### CHICKENPOX.

There were fifty-two cases of this disease reported during the year and no deaths. The chief importance that one attaches to chickenpox is that at times it might be confused with smallpox. The reporting of these cases is a hopeful sign. In years past statistics would almost show that we had no chickenpox. That can hardly be so. There is but one inference, viz., that it is being reported now.

Statistics for the last five years are as follows:

Year.	Cases.	Deaths.
1910	0	0
1911	3	0
1912	17	0 ,
1913	19	0
1914	52	0

### WHOOPING COUGH.

No cases of this disease were reported this year. One death ocurred from the disease in October.

There has always been trouble in getting cases of this disease reported. I have had a talk with many of the physicians in regard to this matter. The excuse is that they are unable to make a diagnosis in many cases. But it will be noticed that the death is often certified to though no report has been made of the case.

It is important that cases of this disease be reported for the death rate is generally high.

Statistics for the last five years are as follows:

Ýear.	Cases.	Deaths.
1910	0	0
1911	1	4
1912	4	8
1913	1	3
1914	0	1

### ERYSTPELAS.

The question of the care of patients with this infection has come to be of importance, owing to the controversy as to whether they should be treated in the General Hospital or in the Isolation Hospital.

That the care of these cases be important is shown by the high mortality. During the year there were eleven cases with four deaths. No statistics are available for former years.

### MUMPS.

Three cases were reported with no deaths. This is quite a contrast to the sixty cases last year.

### TUBERCULOSIS.

There were seventeen cases of tuberculosis of the lungs reported, with eleven deaths. The death rate of tuberculosis is the highest of infectious diseases. There is great cause for encouragement in regard to the care and treatment of these cases in our midst. As the statistics which follow show, the co-operation of the physicians is increasing. As late as two years ago cases were rarely reported. In fact, this is the first year in which the number of cases reported has exceeded the number of deaths.

There is a fairly active anti-tuberculosis society here and it has been able to be of some assistance to the sufferers of this disease. The importance of notification is, therefore, great.

The co-operation of Mr. Blain has been helpful in the care of those cases.

I wish to again put myself on record as to the need of a Tuberculosis Sanatorium in this district. I think the districts of Thunder Bay, Rainy River, Kenora and Patricia should unite in the erection of a sanatorium.

This matter should be taken in hand at once and should it be found impossible or unadvisable to join with the above municipalities, the City of Fort William should undertake the matter itself.

The McKellar Hospital has cared for a number of patients during the year, and has done it well. But nothing can replace a sanatorium devoted entirely to the treatment of tubercular patients alone.

Statistics for the last five years are as follows:

Year.	Cases.	Deaths.
1910	0	21
1911	0	19
1912		13
1913		19
1914		11

#### DISINFECTION.

This has been in the hands of the Sanitary Inspector and Assistant Sanitary Inspector, the details of which work will be found in their reports.

## INSPECTION OF SCHOOLS.

Throughout the year a nurse has been employed by the School Board. Half-time was given to the work from November to June. Commencing with October, the nurse gives her whole time to the work. Miss K. Spearing, formerly on the staff of this department is in charge of the work. Her co-operation has been helpful, particularly in the controlling of infectious diseases among school children.

A Dental Society has been formed in this city. The Society has a proposition for the dental inspection of school children. I would be pleased to see the school board avail itself of the generous offer of the dental fraternity.

# MEDICAL RELIEF WORK.

During the year relief was afforded to ninety-nine cases. One hundred and fifteen visits were made, and fourteen consultations were held at the office. Four obstetric cases were conducted.

### LABORATORY REPORT.

Samples of milk tested	38
Total	476

This is seventy-four more than last year. By comparing the record of 1911, when out of 148 samples of milk tested, fourteen were below legal requirement for fat content with the present, when out of 433 tests but three were below standard, one can see the improvement.

This has been brought about by the addition of a man to the staff, enabling the Food and Dairy Inspector to devote his whole time to that branch of the work.

The citizens are now receiving a good quality of raw milk.

One of the dairymen has put in a two hundred gallon capacity pasteurizing plant during the past year.

# FOOD AND DAIRY DIVISION.

The report of the Food and Dairy Inspector follows. Part of the time there was no assistant to act as Infectious Diseases and Nuisance Inspector, so Mr. Stanley reports also on these divisions for some months.

# REPORT OF THE SANITARY INSPECTOR.

DEAR SIR:-

I beg to submit by annual report for the year ending October 31st. 1914.

#### NUISANCES.

For the months of November and December, 1913, and January, February and March, 1914, during which time I was the only Sanitary Inspector, I gave one hundred and ninety-eight verbal notices in regard to nuisances, and one hundred and thirty-seven written notices as follows:

Unsanitary premises.	Accumulations of manure.	Offensive privies.	Garbage nuisance.	Plumbing defects.	Other nuisances.	Total No. Inspections.
13	8	15	25	18	56	137

In connection with notices served for the abatement of nuisances, etc., sixteen cases were taken before the Police Magistrate. Eleven were for nuisances, one for infringement of plumbing by-law, and four under the milk by-law. The total amount of fines was forty-one (\$41.00) dollars. The results from police court prosecutions are far from satisfactory.

# INFECTIOUS DISEASES.

In connection with infectious diseases, the winter months were busy ones, measles and scarlet fever being very prevalent. Six hundred and twenty-two visits were made in this connection and forty-nine houses were fumigated. Drew Street school was also fumigated throughout.

#### DAIRIES AND COWBARNS.

More attention has been given to this branch of sanitation since an assistant Sanitary Inspector was appointed. Constant supervision has had a marked effect upon the supply of milk in the way of fat content and cleanliness. All cowsheds and dairies within the city limits and those on the outskirts are regularly inspected.

Eleven hundred and fifty inspections were made and four hundred and sixty-two samples of milk were taken for examination. Periodical tests were also made at the railway depots and dairies for dirt and temperature. Two hundred and eleven gallons of milk and cream were destroyed for being excessively dirty and for extreme temperature. Thirty-three licenses were issued during the year to milk vendors. Much improvement has been made in the class of vehicle used for peddling milk.

Good progress has been made in eliminating the old class of milkhouse and cowbarn. Almost without exception, they are now in first class condition. There are over a hundred people with one or two cows, who sell milk in small quantities, and it is a most difficult thing to get them to observe the by-laws. They state they only keep a cow for their own milk supply, and it is a most difficult thing to detect them actually selling. However, every effort is being made to have these cowbarns made sanitary.

During the summer, inspection was made of all the outside dairies (with few exceptions) sending milk into the city. With the exception of three or four they all leave much to be desired. The cowbarns are badly paved, lighted and ventilated. In some instances the milk was cooled on ice, but generally in running streams or wells. The contrast between the milk produced in the city and outside is most marked as regards cleanliness. This is not to be wondered at, considering the condition of the barns

There is, however, a tendency on the part of the milk producers to improve their buildings, and in time, no doubt, with encouragement and advice, they will equal the conditions of the city.

In company with the Medical Officer of Health, I attended a meeting of dairy farmers of Murillo and district. There the matter of milk production was gone into. This meeting was of mutual advantage.

### RESTAURANTS.

There are twenty-five licensed restaurants in the city. These are periodically inspected and, generally speaking, are kept in a first-class condition. An understanding was come to with the police authorities and this department that no license should be granted or renewed without a sanitary certificate. But this has been more honored in the breach than in the observance, which is to be regretted, as the threat of withholding a license was sufficient to get any required work done without more trouble.

#### PLUMBING INSTALLATIONS.

During the year one hundred notices were served for the installation of plumbing. This is a much less number than was at first projected; but owing to the financial situation, the service of notices was discontinued by order of the Council.

The small class of house was not dealt with, but something should be done with those as well as the larger class of house. In most cases there are as many inmates in the small house as in the large ones, and the nuisance, therefore, just as great.

Two blocks in particular have given a great deal of trouble. Nothing would induce the owners to comply with the notices. A way out, however, was found by placarding the house as unfit for occupancy, as they were vacated. By doing this the owners were at once compelled to put in plumbing. Most of the larger houses in the north end of the city on sewer lines have now had plumbing put in, and it is hoped that the west end will be taken in hand next year if the financial situation is favorable.

The following table shows the amount of work carried out.

#### SUMMARY OF PLUMBING INSTALLATIONS.

Number of notices served.	Request to the city to do work.	Number of premises with plumbing installed.
110	73	103

#### STORES.

All stores are inspected at frequent intervals including the cold storage warehouses. Generally speaking, not much fault can be found with the meat supply. With little exception, the supply is chiefly from the cold storage, very little being slaughtered in the city. The two abattoirs are used by Jews for the supply of the Jewish people. They are kept in fair condition. A little fresh meat is sold in the market twice a week. This is brought in by farmers and is of fair quality. One thousand six hundred and twenty-two pounds of various meats were destroyed during the year.

The following inspections were made:

Butcher stores	530
Grocer stores	
Bakeries	144
Fruiterers	215
Ice cream parlors and candy kitchens	
Restaurants and hotels	588
Total	,910

During the year I made the following reports:

Sanitary conditions of manual training quarters at Central School, scavenging, plumbing installations, baker stores, butcher stores, restaurants, cow barns and dairies.

WALTER E. STANLEY,

Sanitary Inspector.

# REPORT OF ASSISTANT SANITARY INSPECTOR.

DEAR SIR: -

I beg to submit my report for seven months ending October 31st, 1914.

Infectious Diseases.

Residences inspected and fumigated in which there had been:	
Scarlet fever	
Diphtheria (including one suspect)	10
Total	75

Total cubic capacity fumigated ...... 314,303 feet.

Forty residences were placarded in which cases of measles had developed.

All quarantined houses are inspected at irregular intervals, a total of three hundred and eleven inspections being made in the seven months covered by this report, besides some periods of several days which were entirely taken up with this work.

Several inspections were made of premises at which there were notifiable diseases

which are not placarded.

Two cases of quarantine breaking were taken into court, one party received a caution only from the Magistrate, while the other drew a fine of ten (\$10.00) dollars and costs.

On two occasions, people who were found visiting quarantined premises were

themselves quarantined.

As far as nuisance inspection is concerned in this city, with its great proportion of foreign population, the endeavor has been to obtain satisfactory results in the first place, by explaining the necessity of the requirements. This, combined with the power of the law, generally has the desired effect. In some cases the police Magistrate was requested to sign warning notices. Police court proceedings are resorted to only when persuasive methods have failed, or appear to be unnecessary.

The want of proper garbage receptacles in parts of the city causes the lanes to be more unsightly and unsanitary than they should be. Those parts of the city where the greater proportion of overcrowding exists, provide as much or more refuse per

household than any other.

Generally speaking, stable manure is well taken care of, covered manure boxes being required as part of every livery or other stable. Some difficulty, however, is caused when, through carelessness, covers are not used.

Periodical inspections are made to premises throughout the city, all sections being covered. Interior house-to-house inspections have not been undertaken. Whenever complaint is made, or exterior conditions are unsatisfactory, the interior of the house will also come in for a thorough and systematic inspection from basement to roof.

Much progress could be made if householders would give some attention to privy buildings. Instead of endeavoring to keep in a sightly and sanitary state, many property owners appear to think that it is unwarranted interference on the part of the Sanitary Inspector, to bring any required improvements in this direction to his notice.

If tenants and property owners would co-operate with the Health Department in maintaining privies in a cleanly condition and good repair, it would greatly help to abate the fly nuisance, to say nothing of improving the condition of the lanes.

Taken on the whole, houses are found to be clean. The chief nuisance so far as human habitations are concerned, are caused by bad ventilation, overcrowding, and dilapidated or filthy privies.

The following notices were served in connection with nuisances caused by:

Filthy or dilapidated privies	
Domestic whitestic in the second seco	16
Unsanitary manure boxes	93
Offensive garbage receptacles	14
Accumulations of refuse	98
Accumulations of manure 1	03
Unsanitary premises	45
Unsanitary yards	33
Workmen's privies	9
Defective W.S.'s, or connections	33
Other matters	42

Other notices were served requiring the

Provision of manure boxes	43
Provision of garbage receptables	69
Removal of old privy buildings	41
Provision of new privies	. 6
	159

Letters to the number of twenty-six signed by the Police Magistrate, were sent as a final warning, which in many cases made it unnecessary to take further proceedings. In connection with nuisances it was, however, necessary to take police proceedings in ten cases.

Number charged with having:

Dilapidated privies	3
Accumulations of manure	
Accumulations of refuse	
Offensive garbage receptacles	
Domestic animals in unsanitary state	1
Total	10

O. T. DIGBY,
Assistant Sanitary Inspector.

#### CHILD WELFARE.

The work in this Department may be divided into three parts as follows:

Firstly—From November, 1913, to June, 1914, during which time a nurse was employed, giving her afternoons only to the work, the forenoons being given to the school work.

Secondly—The months of July and August, during most of which time two nurses were constantly on the work.

Thirdly—The month of September, when one whole-time nurse was employed.

During the month of October we were without a nurse.

For the months of November, 1913, to February, 1914, Miss Minnie McKay was in charge of the work. From March to June, Miss Katherine Spearing was in charge of the work alone. Miss F. K. Fisher assisted Miss Spearing during part of July, and all of August, and continued in charge of the work during September.

The following is a detailed report of the work done during the year.

No. of visits made.		New babes visited.	Br. fed.	Mod. milk.	Cons. milk.	Patent foods.
November December. January February. March. April May June. July. Aug. Sept	120 99 91 90 100 119 123 136 484 690 282	65 60 59 49 52 82 77 74 106 317 82	48 48 52 45 46 61 71 71 103 297 72	7 9 5 3 5 20 4 2 1 10 6	3 0 1 1 0 0 0 0 0 1 1 5 1	7 3 1 0 1 1 2 1 1 5 5
	2,334	1,023	914	72	12	27

Th

The total number of visits made by the nurses was 2,334. The cost per visit was 34c., made up as follows:

Salary of nurse, November—June	\$400	00
Car fare	18	00
Salary, July	87	50
Salary, August	150	00
Car fare, July and August	8	50
Salary, September		
Car fare, September	3	00
Auto service	50	00
•		
	\$792	00

During July and August the cost per visit was 21.6c.

The total cost of the Department was \$804.00, the additional \$12.00 over and above the preceding total being for ice boxes.

Twelve tests of mother's milk were made during the year.

Several reports of existing nuisances were made by the visiting nurses. They were of assistance to the Sanitary Inspector's Department in this way.

I made an inquiry into the food supplied twenty-four infants who died in July and August from Ileo-Colitis, Gastro-Enteritis and Diarrhoea. The infants were fed as follows:—

Canned milk Cow's milk	
Breast milk	
Total	24

I also made an investigation to ascertain the nationality of the infants dying in July, of the above causes. I found that of the thirteen that died, no less than twelve were children of "foreigners," that is, non-English speaking people.

I have no hesitancy in saying that had we been able to take these twelve from their surroundings, one-half of them could have been saved. The nurses report that in many cases the parents seemed too lazy to care for the ice boxes which were supplied free of cost.

When one remembers that only twenty-five per cent. of our population is "foreign," one can realize the enormous infantile death rate among these people, and realize also what a low infantile death rate we would have were it not for the "foreigner,"

The citizens generally, and some in particular, were of great assistance to us in this work. Special mention is due Mr. Frank Blain, the Relief Officer, for the assistance he always gave when food supplies were necessary.

The Metropolitan Life Insurance Company, through the local Superintendent, Mr. H. A. Miller, has furnished us with a large quantity of literature which has been very helpful.

In conclusion, I will say that the demonstrations of the proper preparation and care of milk for the infants are bound to be of service in increasing the knowledge and so help in lessening mortality next year.

#### REPORT OF SUPERINTENDENT OF ISOLATION HOSPITAL.

I beg to submit herewith the report of the Isolation Hospital for the year ending October 31st, 1914.

he	following patients were admitted:	
	Scarlet fever	68
	Scarlet fever (suspects)	2
	Diphtheria	
	Diphtheria (suspects)	1
	Measles	5
	Total number of patients admitted	88

The	number	of	nursing	days	was	as	follows:
-----	--------	----	---------	------	-----	----	----------

Scarlet fever days Scarlet fever (suspect days) Diphtheria, days Diphtheria (suspect, days) Measles, days	12
Total number of hospital days	2,579
Antitoxin used	units
Operations.	
Mastoidectomy Intubation	. 3
Tympanectomy	
Total number of operations	. 7

There were three deaths, two from scarlet fever and one from diphtheria. One of the patients that died from scarlet fever was the one on which the mastoidectomy had been performed. The child had been in but three days, having been ill at home some time previous. The patient that died from diphtheria was an adult, aged twenty years. She was admitted at noon in a collapsed condition. A tracheotomy was done, but she died in a few hours.

# Respectfully submitted,

M. E. DUNCAN, Supt.

# ISOLATION HOSPITAL ACCOUNTS.

Maintenance account Salary of Superintendent Salary of Assistant Nurses Salary of Janitor Laundry Insurance Antitoxin, etc.		\$1,483 56 835 00 513 96 480 00 120 00 29 00 . 173 05
*	_	\$3,634 57
Credits.		7
Total collection, Isolation Hospital: Accounts		
Total credits	\$478 1	5
Net cost		. \$3,156 42
Number of hospital days		2,579 \$1.41

# VITAL STATISTICS.

# November, 1913-October, 1914.

Estimated population	27,000
49 still births)	13.11 34.96
Infant mortality rate per 1,000 births	
births)	29.96

# RATES PER 100,000 POPULATION.

Typhoid fevercase rate	66.6
Typhoid feverdeath rate	
Typhold leveldeath rate	† 14.8
Scarlet fevercase rate	385.0
Scarlet feverdeath rate	\$ 7.4
Measles	1,003.3
Measles death-rate	3.7
Diphtheria	88.8
Diphtheria	7.4
Erysipelas	40.7
Erysipelas death rate	14.8
Tuberculosis of the lungscase rate	
Tuberculosis of the lungsdeath rate	40.7

† This does not include seventeen imported cases with one death. § This does not include six imported cases with no deaths.

Births Registered in the City of Fort William for the Year ending October 31st, 1914.

	Males.	Females.	Total.	Twins.
1913 November December	41 40	33 39	74 79	1 1
January February March April May June July August September October	44 45 40 47 43 45 35 41 50 36	46 47 35 35 39 29 37 57 57 30	90 92 75 82 82 74 72 98 80 75	1 1 1 0 0 0 3 0 0 2 1
Total	507	486	993	11

# Stillbirths.

	Male.	Female.	Total.
November	2 2	1 0	3 2
January. February March. April May June. July August. September October	5 1 2 5 4 3 3 2 3 4	0 3 1 1 0 1 1 0 2 3	5 4 3 6 4 4 4 2 2 5 7
Total	36	13	49

# Infant Mortality Rate.

Month.	Death of Infants under one year.	Births.	Rate of Mortality.
1913 November	8 5	74 75	108.10 66.66
January. February. March. April May. June July. August September. October	3 6 7 5 12 5 15 19 7	90 92 95 84 87 92 97 98 80 75	38.33 65.20 72.61 59.55 134.20 45.60 154.63 193.87 87.50 120.00

# CAUSES OF MORTALITY.

# (Infants Under One Year.)

Causes.	
Enteritis and Diarrhœa	48
Congenital Debility	7
Other causes peculiar to early infancy	7
Pneumonia	6
Broncho-pneumonia	6
Convulsions of Infants	5
Simple Meningitis	4
Acute Bronchitis	2
Pleurisy	3
Erysipelas	2
Rickets	2
Bright's Disease	1
Asthma	1
Organic Diseases of the Heart	1
Diseases of the Stomach	1
Diseases of the Intestines	1
Acute Yellow Atrophy of the Liver	1
Intestinal obstruction	1
Whooping Cough	1
Cause of death not specified	1

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#### GUELPH.

# Dr. H. O. Howitt, M.O.H.

This report of the year ending November 30th, 1914, is perhaps the most brief in our experience, to which I attribute the better state of our city's management in the past.

There were 257 births and 232 deaths during the year ending November 30th, 1914. The most important work of the year was the accomplishment of the sewer to St. Patrick's Ward, which will mean much in saving our main water supply from pollution and give the much-needed accommodation to that section of the city, with its growing factories.

Our water supply continues of the best, as is shown by only six typhoid cases in twelve months, a pleasant decrease from the old records before the installation of the

new water system, but an increase of two over last year.

The Smallpox Hospital contained two patients at the commencement of the year. Both were well quarantined at the first sign of the trouble, and further cases prevented.

The Isolation Hospital is being used by the General Hospital during alterations,

and St. Joseph's Hospital is looking after all our cases.

This year it has been the aim of the Board to act as economically as possible, as is shown by the non-use of upwards of one thousand dollars, which we are able to return to the Finance Committee.

Taking it all in all we have had perhaps the least number of complaints for five years.

Searlet Fever. Diphtheria. Typhoid. Chickenpox. Rothlen. Smallpox.		Tuberculosis.	Pertussis.	Rema <b>rks.</b>						
Dec. 1913. Jan. 1914. Feb. Mar. April. May. June July Aug. Sept. Oct. Nov.	1 1 1 1 6 2 2 1 3 4 16 9	1 2	1 4 1	12 2 1 3 2 1	1 1 1	6	1	1 1 1 1 1 1 2 1 1	10 3 2	1 died of Tubereulosis  1 '' ''  1 '' ''  1 '' ''

# HAMILTON.

### DR. JAMES ROBERTS, M.O.H.

Below please find report of Medical Officer of Health for statistical year beginning November 1st, 1913, and ending October 31st, 1914.

VITAL STATISTICS.		
1913.	Births.	Deaths.
November	247	107
December	210	99
1914.		
January	261	127
February	207	96
March	284	128
April	237	.131
May	247	118
June	252	86
July	252	95
August	263	94
September	234	110
October	227	93

By reference to the tables it will be seen that during the year there were registered 2,921 births as compared with 2,734 for 1913, representing a birth rate of 28.92 as against 27.34 for 1913.

The deaths for the year numbered 1,284 as against 1,367 for 1913. Excluding still births we have a mortality of 1,109 and 1,161, or a death rate per thousand of 10.9 and 11.5 for these two years. By including in the total deaths those of 29 and 23 non-residents at the hospitals as will be done by the Provincial Registrar, we will have a death rate of 11.2 and 11.7.

### COMMUNICABLE DISEASES.

Two thousand five hundred and seventy cases of communicable disease were reported as compared with 1,374 for 1913, the increase being due to the fact that the city was visited with epidemics of measles and whooping cough. The total deaths from this group of diseases numbered 154 in 1914 and 130 in 1913, or a rate per thousand of 1.53 and 1.30.

#### DIPHTHERIA.

Of diphtheria 194 cases were reported. Of these 16, or a percentage of 8.2, died. In 1913 there were 126 cases with 12 deaths, or a percentage of 9.5. Diphtheria of a rather virulent type has been more prevalent than for several years past, and the endeavour to control its spread by up to date methods requires the constant attention of this Department.

#### SCARLET FEVER.

Ninety-seven cases of scarlet fever were reported, being 64 cases less than the number reportd in 1913. There were no deaths from this disease.

### WHOOPING COUGH AND MEASLES.

The epidemic of measles which began in March and died away in August threw a great deal of additional work on the Department, owing to the fact that this disease is now, by a regulation of the Provincial Board of Health, a quarantinable one and requires placarding. During the period mentioned, 1,083 cases were kept under surveillance. Whooping cough was prevalent during the same period, 613 cases being reported. The deaths from these two diseases combined numbered 26.

## TYPHOID FEVER.

Thirty-two cases of typhoid fever were reported. A number of the persons who contracted this disease were out of the city at the time of being infected. Nine persons succumbed to this disease.

# TUBERCULOSIS.

Eighty-nine persons died of tuberculosis of the lungs, and 6 persons succumbed to other forms of tuberculosis, making a total of 95 deaths, as compared with 91 in 1913.

In the following table deaths from tuberculosis are given as percentages of the total death rate for the years 1899 to 1914.

1898	* * * * * * * * * * * * * * * * * * * *	13.5	1907	 7.3
1899		12.5	1908	 8.0
			1909	 10.0
	***************************************		1910	 7.1
1902		13.0	1911	 5.8
				 6.5
			1914	 8.0
1906		8.1		

#### SMALLPOX.

During the year 47 cases of smallpox were reported. All necessary measures for the control of the disease were put into force with very little alarm, antagonism or disturbance of business, and at small financial outlay to the city as compared with the commotion and expense in connection with similar epidemics in municipalities both near and far from us.

### INSPECTIONS, ETC.

The total inspections made by the sanitary inspectors were 19,469, among which were included 921 with reference to sewer connections, 3,657 for insistence on the proper recognition of quarantine and isolation; 449 visits to unemployed by request of the Board of Control for purpose of finding out financial circumstances; 462 regarding unsanitary garbage utensils; 554 for inspection of unsanitary or overcrowded houses; 389 in regard to accumulations of manure; 254 in answer to complaints respecting location and sanitary condition of stables; 207 visits to laundries.

Unsanitary collections of rubbish and refuse and various other nuisances to numerous to mention, together with the legal notices served for their abatement, were respon-

sible for many hundreds of inspections.

Nearly all of the sewer connections ordered were in the far eastern portion of the city, but on account of lack or work and hard times, only about one-half of the notices could be complied with.

During 1911,  $191\overline{2}$  and 1913 about 1,500 sewer connections were ordered in the older sections of the city, and as a result outdoor vaults in these parts are almost unknown.

Forty-one houses were temporarily or permanently closed pending necessary sanitary improvements; of these 26 were placarded as unfit for habitation; 11 unsanitary basements were ordered vacated by notice, which was complied with in every case.

The work of the Food Inspector has been highly commendable. In addition to supervising sanitary work, the Inspector made 5,000 inspections of markets, restaurants, butcher shops, bakeries, hotel kitchens, fruit stores, dairies, dairy farm cold storage plants, ice cream plants, etc. Two hundred and forty-eight dairy farms outside the city were visited by auto. A great improvement is being made year by year in the equipment of dairy farms and the sanitary handling of milk. Three hundred and twelve visits were made to milk shops and dairies in the city; 1,176 samples of milk were tested for butter fat; and 313 tested for dirt sediment. Nearly 6,000 lbs. of beef and 1,000 lbs. of pork were destroyed as unfit for food; also chickens, butter, sausage, veal, lard, eggs, etc., in small quantities. One hundred and sixty-eight gallons of milk were condemned, labelled and returned.

SUMMARY OF COMMUNICABLE DISEASES REPORTED FROM NOVEMBER 1, 1913, TO OCTOBER 31, 1914.

	November.	December.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	Total.
Smallpox Erysipelas Measles Typhoid Fever Scarlet Fever Whooping Cough Diphtheria Chickenpox Mumps Poliomyelitis Tuberculosis Totals	9 1 2 4 5 30 26 26 2 13	1 12	9 1 4  17 46 16 45  7	7 2 1 10 38 16 44 6 1 10 132	13  10			473 1 36 4 11 	220 26 19 3 1  15		3 12 5 6 12 13 3 1 	2 11 18 2 27 22 3  12 101	47 6 1,083 32 97 613 194 319 32 1 146

SUMMARY OF WORK DONE BY THE INSPECTORS IN QUARANTINE AND DISINFECTION.

Houses placarded	for scarlet fever	92
ε <b>ε</b> εε	diphtheria	184
44 44	measles	800
44 44	smallpox	30
44 44	poliomyelitis	1
Houses disinfected	l for scarlet fever—patients sent to C. H	51
44 44	diphtheria—patients sent to C. H	119
	scarlet fever—cards removed	31
"	diphtheria—cards removed	65

The state of the s	30
Houses disinfected for smallpox—cards removed	15
" typhoid fever	58
tuber curosis	10
erysipeias	1
" " poliomyelitis	3
" " diphtheria, patients dead	5
Schools disinfected for diphtheria	3
" smallpox	3
No. times clothing was disinfected for diphtheria	7
" " " scarlet fever	1
" " " smallpox	10
Measles cards removed	800
Visits re quar. and isolation	4,637
Inspectors' Report.	
Total inspections	19,469
No. re-inspections	4,692
Transferred to Quarantine and Disinfection Report	3,687
" " Food Inspector's Report	1,492
Places found O.K. at time of inspection	762
Laundries inspected	287
Unsanitary and overcrowded houses inspected	554
Stables inspected	254
Boarding houses inspected	- 52
New stables located	8
Junk yards inspected	6
Ice houses and storage plants	29
Tailor shops and work rooms	13
Schools inspected	4
Unsanitary basements	29
Houses inspected for sewer connections	921
Inspections re accumulations of rubbish and refuse	1,210
" " choked and defective sewer connections	179
" unsanitary and defective water closets	176
" eave troughs not being connected	28
" accumulations of manure	389
" manure bins not being kept covered	140
" offensive d. e. closets and privy vaults	349
" " depositing of waste water	46
" stagnant water on lots	180
" fowl on premises	167
" fowl and animals in houses	11
" hogs being kept on premises	6
" cows being kept on premises	2
" typhoid fever	26
" " offensive cess pools	4
" water in cellars	26
" "disposing sewage into inlet	1 5
" proper water supply for tenants	462
" " offensive garbage utensils	7
smoke nuisance	3
providing conveniences for workmen	4
Tunning uve water in Day	26
Closed premises placarded	231
Attendance at police court	13
Complaints unfounded	61
Water samples collected for examination	10
Visits to unemployed	449
Inspections of ice cutters' premises	39
Miscellaneous inspections	150
Notices were served as follows:	
To remove accumulations of rubbish and refuse	1,815
" " manure	390
" connect eave trough conductor pipes	30
" repair schools	3

То	clean laund	ries	153
4.6	repair laun	dries	3
e 6	connect sta	bles with sewer	84
6.6	abolish or n	nove stables required distance	50
**	provide pro	per manure bins	61
"	cover manu	re bins	240
Re	stagnant wa	ter on lots	165
4.6	unsanitary	and defective water closets	223
46	unsanitary	and overcrowded houses	507
6.6	nuisances c	aused by fowl on premises	180
66	"	" offensive garbage utensils	495
66	44	" water in cellars	22
6.6	44	" animals on premises	9
46	44	" hogs on premises	6
66	44	" disposal of waste water	10
4.6	44	" junk yards	6
66	sleeping and	cooking in one room	9
**	running dye	water into Bay	1
4.6		rbage dumps	2
6.6		de houses	2
То		e trade	1
**	provide con	veniences for workmen	2
66	vacate unsa	nitary dwelling houses	11
66	provide pro	per water supply for tenants	5
4.6	cut off sink	waste pipes	9
66	connect sin	ks with sewer	7
44	clean sinks		10
6.6	remove beds	from overcrowded premises	29
**	abolish priv	y vaults and put in water closets	199
8.6	clean tailor	shops	4
6.6	abolish old	wells	3
66		n bed clothing	24
8.6	stop offensi	ve trade	i
Foo	D AND DAIR	INSPECTOR'S REPORT YEAR OCTOBER 31ST, 1913, TO NOVEMBER 1ST,	
Tot	al inspection	7 Inspector's Report Year October 31st, 1913, to November 1st,	1914. 4,884
Tot No.	al inspection inspections,	INSPECTOR'S REPORT YEAR OCTOBER 31ST, 1913, TO NOVEMBER 1ST, as	1914.
Tot No.	al inspection inspections,	INSPECTOR'S REPORT YEAR OCTOBER 31ST, 1913, TO NOVEMBER 1ST, central market butcher shops	1914. 4,884
Tot No. "	al inspections,	INSPECTOR'S REPORT YEAR OCTOBER 31ST, 1913, TO NOVEMBER 1ST, as	1914. 4,884 161
Tot No. "	al inspections, "" ""	INSPECTOR'S REPORT YEAR OCTOBER 31ST, 1913, TO NOVEMBER 1ST, central market butcher shops restaurants and lunch rooms bake shops	1914. 4,884 161 792
Tot No. "	al inspection inspections, " " " "	INSPECTOR'S REPORT YEAR OCTOBER 31ST, 1913, TO NOVEMBER 1ST,  central market butcher shops restaurants and lunch rooms bake shops sausage factories	1914. 4,884 161 792 300 210
Tot No.	al inspections, inspections, " " " " "	INSPECTOR'S REPORT YEAR OCTOBER 31ST, 1913, TO NOVEMBER 1ST, 1S.  central market butcher shops restaurants and lunch rooms bake shops sausage factories hotel kitchens	1914. 4,884 161 792 300 210
Tot No. "	al inspections, "" "" "" "" "" ""	INSPECTOR'S REPORT YEAR OCTOBER 31ST, 1913, TO NOVEMBER 1ST,  central market butcher shops restaurants and lunch rooms bake shops sausage factories hotel kitchens hide houses	1914. 4,884 161 792 300 210 1
Tot No.	al inspections, "" "" "" "" "" "" ""	INSPECTOR'S REPORT YEAR OCTOBER 31ST, 1913, TO NOVEMBER 1ST,  central market butcher shops restaurants and lunch rooms bake shops sausage factories hotel kitchens hide houses milk wagons	1914. 4,884 161 792 300 210 1 10 7
Tot No.	al inspections, "" "" "" "" "" "" "" "" "" "" "" "" ""	INSPECTOR'S REPORT YEAR OCTOBER 31ST, 1913, TO NOVEMBER 1ST,  central market butcher shops restaurants and lunch rooms bake shops sausage factories hotel kitchens hide houses milk wagons fruit stored in cellar	1914. 4,884 161 792 300 210 1 10 7 150 2
Tot No. "	al inspections, "" "" "" "" "" "" "" "" "" "" "" "" ""	INSPECTOR'S REPORT YEAR OCTOBER 31ST, 1913, TO NOVEMBER 1ST,  central market butcher shops restaurants and lunch rooms bake shops sausage factories hotel kitchens hide houses milk wagons fruit stored in cellar fish stores	1914. 4,884 161 792 300 210 1 10 7 150 2
Tot No. "" "" "" "" "" "" "" "" "" "" "" "" ""	al inspections, "" "" "" "" "" "" "" "" "" "" "" "" ""	INSPECTOR'S REPORT YEAR OCTOBER 31ST, 1913, TO NOVEMBER 1ST,  secentral market butcher shops restaurants and lunch rooms bake shops sausage factories hotel kitchens hide houses milk wagons fruit stored in cellar fish stores Chinese tea stores	1914. 4,884 161 792 300 210 7 150 2 72 34
Tot No. "" "" "" "" "" "" "" "" "" "" "" "" ""	al inspections, "" "" "" "" "" "" "" "" "" "" "" "" ""	INSPECTOR'S REPORT YEAR OCTOBER 31ST, 1913, TO NOVEMBER 1ST,  central market butcher shops restaurants and lunch rooms bake shops sausage factories hotel kitchens hide houses milk wagons fruit stored in cellar fish stores Chinese tea stores fruit stores	1914. 4,884 161 792 300 210 7 150 2 72 34 122
Tot No	al inspections, "" "" "" "" "" "" "" "" "" "" "" "" ""	INSPECTOR'S REPORT YEAR OCTOBER 31ST, 1913, TO NOVEMBER 1ST,  central market butcher shops restaurants and lunch rooms bake shops sausage factories hotel kitchens hide houses milk wagons fruit stored in cellar fish stores Chinese tea stores fruit stores candy factories	1914. 4,884 161 792 300 210 1 10 7 150 2 72 34 122 53
Tot No. "" " " " " " " " " " " " " " " " " "	al inspections, """ """ """ """ """ """ """ """ """ "	INSPECTOR'S REPORT YEAR OCTOBER 31ST, 1913, TO NOVEMBER 1ST,  central market butcher shops restaurants and lunch rooms bake shops sausage factories hotel kitchens hide houses milk wagons fruit stored in cellar fish stores Chinese tea stores fruit stores candy factories grocery stores	1914. 4,884 161 792 300 210 7 150 2 72 34 122 53 37
Tot No. "" " " " " " " " " " " " " " " " " "	al inspections, "" "" "" "" "" "" "" "" "" "" "" "" ""	INSPECTOR'S REPORT YEAR OCTOBER 31ST, 1913, TO NOVEMBER 1ST,  central market butcher shops restaurants and lunch rooms bake shops sausage factories hotel kitchens hide houses milk wagons fruit stored in cellar fish stores Chinese tea stores fruit stores candy factories grocery stores butter and egg stores	1914. 4,884 161 792 300 210 7 150 2 72 34 122 53 37 26
Tot No. "" " " " " " " " " " " " " " " " " "	al inspections, "" "" "" "" "" "" "" "" "" "" "" "" ""	INSPECTOR'S REPORT YEAR OCTOBER 31ST, 1913, TO NOVEMBER 1ST,  central market butcher shops restaurants and lunch rooms bake shops sausage factories hotel kitchens hide houses milk wagons fruit stored in cellar fish stores Chinese tea stores fruit stores candy factories grocery stores butter and egg stores poultry dealers' stores	1914. 4,884 161 792 300 210 7 150 2 72 72 34 122 53 37 26 6
Tot No. "" " " " " " " " " " " " " " " " " "	al inspections, "" "" "" "" "" "" "" "" "" "" "" "" ""	INSPECTOR'S REPORT YEAR OCTOBER 31ST, 1913, TO NOVEMBER 1ST,  secentral market butcher shops restaurants and lunch rooms bake shops sausage factories hotel kitchens hide houses milk wagons fruit stored in cellar fish stores Chinese tea stores fruit stores candy factories grocery stores butter and egg stores poultry dealers' stores filtering basins at beach	1914. 4,884 161 792 300 210 7 150 2 72 234 122 53 37 26 2 3
Tot No	al inspections, "" "" "" "" "" "" "" "" "" "" "" "" ""	central market butcher shops restaurants and lunch rooms bake shops sausage factories hotel kitchens hide houses milk wagons fruit stored in cellar fish stores Chinese tea stores fruit stores candy factories grocery stores butter and egg stores poultry dealers' stores filtering basins at beach unsanitary barns	1914. 4,884 161 792 300 210 7 150 2 72 34 122 53 37 26 2 3
Tot No. "" "" "" "" "" "" "" "" "" "" "" "" ""	al inspections, "" "" "" "" "" "" "" "" "" "" "" "" ""	central market butcher shops restaurants and lunch rooms bake shops sausage factories hotel kitchens hide houses milk wagons fruit stored in cellar fish stores Chinese tea stores fruit stores candy factories grocery stores butter and egg stores poultry dealers' stores filtering basins at beach unsanitary barns laundries	1914. 4,884 161 792 300 210 1 10 7 150 2 72 34 122 53 37 26 2 7 83
Tot No	al inspections, """ """ """ """ """ """ """ """ """ "	INSPECTOR'S REPORT YEAR OCTOBER 31ST, 1913, TO NOVEMBER 1ST,  central market butcher shops restaurants and lunch rooms bake shops sausage factories hotel kitchens hide houses milk wagons fruit stored in cellar fish stores Chinese tea stores fruit stores candy factories grocery stores butter and egg stores poultry dealers' stores filtering basins at beach unsanitary barns laundries slaughter houses	1914. 4,884 161 792 300 210 7 150 2 72 34 122 23 37 26 2 3 3 7 83 12
Tot No. "" "" "" "" "" "" "" "" "" "" "" "" ""	al inspections, "" "" "" "" "" "" "" "" "" "" "" "" ""	central market butcher shops restaurants and lunch rooms bake shops sausage factories hotel kitchens hide houses milk wagons fruit stored in cellar fish stores Chinese tea stores fruit stores candy factories grocery stores butter and egg stores poultry dealers' stores filtering basins at beach unsanitary barns laundries slaughter houses house to house inspection	1914. 4,884 161 792 300 210 7 150 2 72 34 122 53 37 26 2 3 7
Tot No. "" "" "" "" "" "" "" "" "" "" "" "" ""	al inspections,  """  """  """  """  """  """  """	INSPECTOR'S REPORT YEAR OCTOBER 31ST, 1913, TO NOVEMBER 1ST,  secentral market butcher shops restaurants and lunch rooms bake shops sausage factories hotel kitchens hide houses milk wagons fruit stored in cellar fish stores Chinese tea stores fruit stores candy factories grocery stores butter and egg stores poultry dealers' stores filtering basins at beach unsanitary barns laundries slaughter houses house to house inspection alleys	1914. 4,884 161 792 300 210 7 150 2 72 22 34 122 53 37 26 6 2 3 7 83 12 3 3 6 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8
Tot No. "" "" "" "" "" "" "" "" "" "" "" "" ""	al inspections, "" "" "" "" "" "" "" "" "" "" "" "" ""	INSPECTOR'S REPORT YEAR OCTOBER 31ST, 1913, TO NOVEMBER 1ST,  secutral market butcher shops restaurants and lunch rooms bake shops sausage factories hotel kitchens hide houses milk wagons fruit stored in cellar fish stores Chinese tea stores fruit stores candy factories grocery stores butter and egg stores poultry dealers' stores filtering basins at beach unsanitary barns laundries slaughter houses house to house inspection alleys fish peddlers' carts	1914. 4,884 161 792 300 210 7 150 2 72 34 122 53 37 26 2 36 35 36 35
Tot No. "" "" "" "" "" "" "" "" "" "" "" "" ""	al inspection inspections,  """  """  """  """  """  """  """	central market butcher shops restaurants and lunch rooms bake shops sausage factories hotel kitchens hide houses milk wagons fruit stored in cellar fish stores Chinese tea stores fruit stores candy factories grocery stores butter and egg stores poultry dealers' stores filtering basins at beach unsanitary barns laundries slaughter houses house to house inspection alleys fish peddlers' carts cattle sheds	1914. 4,884 161 792 300 210 7 150 2 72 34 122 36 3 7 83 12 36 35 52
Tot No	al inspections,  ""  ""  ""  ""  ""  ""  ""  ""  ""	central market butcher shops restaurants and lunch rooms bake shops sausage factories hotel kitchens hide houses milk wagons fruit stored in cellar fish stores Chinese tea stores fruit stores candy factories grocery stores butter and egg stores poultry dealers' stores filtering basins at beach unsanitary barns laundries slaughter houses house to house inspection alleys fish peddlers' carts cattle sheds city dumps	1914. 4,884 161 792 300 2100 7 150 2 2 72 34 122 53 77 26 2 3 3 7 83 31 2 2 3 3 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3
Tot No. "" "" "" "" "" "" "" "" "" "" "" "" ""	al inspections,  ""  ""  ""  ""  ""  ""  ""  ""  ""	central market butcher shops restaurants and lunch rooms bake shops sausage factories hotel kitchens hide houses milk wagons fruit stored in cellar fish stores Chinese tea stores fruit stores candy factories grocery stores butter and egg stores poultry dealers' stores filtering basins at beach unsanitary barns laundries slaughter houses house to house inspection alleys fish peddlers' carts cattle sheds city dumps city schools	1914. 4,884 161 792 300 210 7 150 2 72 34 122 53 37 26 6 2 3 7 83 12 2 3 6 2 2 3 2 3 2 3 3 3 7 2 3 3 3 4 3 4 4 5 5 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8
Tot No	al inspections,  ""  ""  ""  ""  ""  ""  ""  ""  ""	central market butcher shops restaurants and lunch rooms bake shops sausage factories hotel kitchens hide houses milk wagons fruit stored in cellar fish stores Chinese tea stores fruit stores candy factories grocery stores butter and egg stores poultry dealers' stores filtering basins at beach unsanitary barns laundries slaughter houses house to house inspection alleys fish peddlers' carts cattle sheds city dumps city schools bottling works	1914. 4,884 161 792 300 210 7 150 2 72 22 34 122 53 37 26 6 2 3 7 83 12 36 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 4 4 6 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8
Tot No	al inspections,  ""  ""  ""  ""  ""  ""  ""  ""  ""	central market butcher shops restaurants and lunch rooms bake shops sausage factories hotel kitchens hide houses milk wagons fruit stored in cellar fish stores Chinese tea stores fruit stores candy factories grocery stores butter and egg stores poultry dealers' stores filtering basins at beach unsanitary barns laundries slaughter houses house to house inspection alleys fish peddlers' carts cattle sheds city dumps city schools	1914. 4,884 161 792 300 210 7 150 2 72 34 122 53 37 26 6 2 3 7 83 12 2 3 6 2 2 3 2 3 2 3 3 3 7 2 3 3 3 4 3 4 4 5 5 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8

No	inspections	lodging houses	4
"	"	re food unfit	2
66	44	cold storage plants	1
*6	66	bake wagons	4
44	44	cheese factories	1
66	66	ice cream factories	30
**	44	ice cream cabinets	30 9
66	64	ice cream peddlers' premises	
	44		198
"	"	ice cream parlors	200
"	"	city milk dealers' premises	312
44		dairy farms	248
66	"	milk dairies re disease	10
66	"	for milk license	53
		where milk license was refused	11
66		rantined houses	68
6.6		lation hospital	3
66		mplaints investigated	27
66	found selling	g milk without license	23
66	milk dairies	ordered closed	5
66	milk temper	atures taken	167
66	milk sample	s taken, and tested	1,176
66	milk sample	s tested and found to be below city standard	27
66		unts taken of milk	5
66		aken	6
66		les tested	17
4.6		sts taken	313
66		ed butter	4
66		weighed	18
		les collected	12
		g light weight bread	2
		ed re vaccination	5
		ited re vaccination	26
	Tactories vis	officer to vaccination	20
Noti	ices were ser	eved as follows:	
		barn yard	9
66		floor in cow stable	10
66		wash cow stable	76
66		e hogs from stable	4
**		milk license	633
66		milk dairies	29
61		milk	23
66		e manure from yard	7
66			3
	Clean	milk cooler	14
"	ice ii		2
	stop s	selling milk	_
"	crean	ice cream cabinet	67
	clean	restaurants	42
66	crean	butcher shops	28
66	clean	bake shops	63
66	clean	floors	49
"	clean	sinks	5
	ciean	milk wagons	28
**	clean	ice boxes	16
	· · · clean	candy factories	21
"	ciean	fish stores	11
**		laundries	20
66	clean	ice cream premises	26
66	clean	ice cream carts	30
**	in regard	to sediment test	115
66	re sleepin	g in room where food is stored	2
66	to remove	refuse	2
66	vacate	stable	2
66	" provid	e ice box for meat	5
"	" provid	e towels and sink in factory	3
66	" provid	e fly screens for foods	25
6.6	" remove	e beds from cellar	3
86	" cover	fruit	94
66	" remove	e fruit from dirty cellar	3

5 00

5 00

66

66

66

#### SEIZURES.

T ha	ac has			= 0.14
LUS			•••••••••••••••••••••••••••••••••••••••	5,341
**	vear			179
	DOLE			737
66		b		20
66	" cook	ted ha	am	40
44	" lard		•••••••••••••••	15
66	" butt		***************************************	7
• 6				20
No			S	30
46	gollong	of or	N	2
-66	gailons	OI OJ	vsters	_
46	gamons	OI I	nilk	168
66			S	6
				2
66	loaves	bread	l	20
46	boxes	currai	nts	6
~6	boxes	berrie	es	30
-46	lb. bac		***************************************	20
			NUMBER SUMMONS ISSUED.	
			NUMBER BUMMUNS ISSUED.	
NTO	G11222 20 0	na ia	TI A A	
140'			sued	9
	times	atteno	led court	12
			Prosecutions for 1914.	
No.	charged		selling diseased meatreceived sentence of 2:	months
66	44	6.6	having unsanitary housecase adj	ourned
"	66	66	having dirty laundry	\$10 00
66	66	6.6	having dirty milk wagon	5 00
66	66	66	keeping unsanitary maternity home	20 00
66	66	66		10 00
-46	66	'66	not covering fruit	20 00
66	46	66	selling light weight bread	10 00
66	"	66	selling adulterated milk	100 00

### KINGSTON.

re maple sugar adulterated .....

breaking measle regulations .....

#### DR. A. R. B. WILLIAMSON, M.O.H.

I beg to submit the following report for the year ending November 1st, 1914.

During the past year we have had fewer cases of infectious diseases originating within the city than we had in the previous year. Taking only the more serious of the infectious diseases into account there were reported to me for the past year 9 cases of scarlet fever, 5 of measles, 33 of diphtheria and 25 of typhoid fever, as compared with 18 cases of scarlet fever, 28 of measles, 56 of diphtheria and 28 of typhoid fever for the year ending November 1st, 1913. In the case of measles, and to a greater extent of chicken pox and milder infections, there is both concealment and overlooking of cases. Many never see the doctor unless complications arise, so that the report on these is necessarily incomplete, but as regards the other more serious infections I believe the reports are fairly accurate. It is particularly in these infectious cases that the services of the school nurse have been of great value to the local Health Department. Most cases of measles, scarlet fever and diphtheria are among school children, and the early recognition of cases and the exclusion from school of actual, and suspected cases have no doubt assisted materially in diminishing the total number.

Some nrogress has been made recently in matters of sanitation, particularly in the extension of sewers to hitherto unsewered districts, in the removal of old stone sewers that had become inadequate, in the drainage of buildings not previously drained and in the installation of house sinks in many unprovided houses, so that the number of the latter remaining not equipped is small, and in the extension of the city water supply. This year the Local Board petitioned the Council to appoint a permanent Sanitary Inspector, and nominated Police Constable Timmerman as a suitable

appointee. The Police Commissioners released Mr. Timmerman from his regular police duties and allowed him to devote his whole time to sanitary inspection for a period of six months. The work accomplished has more than justified the plea of the Board of Health for the appointment of a uniformed official. Mr. Timmerman was kept busy every day, and often until late in the evening, attending to the various duties devolving on a Sanitary Inspector. He performed his duties with tact and without fear, favor or affection, and if the Board could have his services permanently there would soon be little cause for complaint regarding the sanitary condition of the city.

A year ago it looked as if we were going to have a housing problem on our hands, as all available houses were occupied and a number of people were housed in buildings or under conditions that were unsanitary. Owing to war conditions and depression generally this problem is not now pressing, but if with returning prosperity an attempt should be made to let for human habitation certain tumble-down and unsanitary buildings that are not fit for any person to live in the law regarding air space and overcrowding in buildings may have to be put in operation. At the same time it is often a difficult matter to arrive at an equitable decision in this matter. Some families with well-developed tendencies to cleanliness can live in perfect health in the most forbidding looking surroundings, while other people housed in modern, sanitary buildings soon render these unfit for habitation by their lack of cleanliness. The great necessity would seem to be the education of the individual in sanitary matters rather than interference with the type of building, except in those cases where through lack of light and air and through overcrowding distinctly unsanitary conditions are

In order to bring our local legislation up to date on the question of milk supply the Local Board of Health requested the City Council to cancel the present by-laws on this subject and to adopt a new by-law giving expression to the views that are now generally held in progressive communities regarding the necessity for a pure milk supply and the danger to life of an infected supply. The City Solicitor, after consultation with the Board of Health and a careful study of the Provincial Milk Act and the by-laws of other municipalities, drafted a bill which is now before the Council, and which in the interests of the public generally, and the children in particular, the Board of Health hopes to see adopted. There is nothing in this bill that has not been approved of and adopted in other municipalities in Ontario. It is not drastic in nature, and its adoption will not mean anything more than the fact that Kingston is trying to keep abreast with other progressive municipalities in this Province.

At times many complaints are received from people objecting to the *chlorination* of the city water. The only answer that can be made to these is that as long as untreated sewage is allowed to empty into the sources of our drinking water supply so long must that water be treated chemically to protect the community. It is useless to say let the people boil the water. Some no doubt would boil the water, but a large proportion would not do so, and to allow infected water to go untreated to everybody would be nothing short of homicide. Chlorination must be carried on until other more efficient and less offensive methods are found to deal with the situation.

The early establishment of an efficient civic system of scavenging is an urgent necessity in Kingston. It has been estimated that at the present time the householders of Kingston pay individually for irregular inferior private services more than sufficient to finance a thorough up-to-date, efficient bi- or tri-weekly collection of garbage, ashes, refuse, tin cans, paper, etc. It is the experience of large cities that a properly organized system of this kind is a revenue producer. In Kingston I believe it would at least pay for itself when the amount spent privately is taken into consideration.

### NIAGARA FALLS.

# DR. H. LOGAN, M.O.H.

I beg to submit a report for the Board of Health for the year 1914.

During the year 1914 there were 300 births and 152 deaths. In the same year we had the following contagious diseases:—Diphtheria, 16; scarlet fever, 13; smallpox, 8; measles, 15; typhoid fever, 10; tuberculosis, 15.

During the year 1914 we have had no epidemics. We began in the spring and made a thorough cleaning up of the city, instructed all householders to have their cellars and yards cleaned up and refuse destroyed. All public buildings were inspected, and where necessary ordered cleaned.

Until the year 1914 we have had numerous *outside closets*, which gave us a lot of trouble and annoyance. I had the Municipal Council pass a by-law that all outside closets must be removed and connections made with the sewers. This is being done, and in a short time we will have no privies or out-door closets.

We are also recommending a trunk sewer to be built through the city to take the water from Muddy Run Creek and close up this creek. This eventually will be

accomplished.

Samples of river water I have frequently taken from the Niagara River, Chippewa Creek and taps throughout the city and analyzed by the Provincial authorities. The water has been much better this year than heretofore, although it is none too good at any time. We will never be safe from typhoid outbreaks until we have a good water supply and a disposal plant for our garbage and sewage, at the same time those towns above us putting in the same plant.

We have no trouble in *collection of garbage*, this being done once a week in winter and twice in summer. The bottles and cans collected monthly. I am having, where possible, all households and tenants use the galvanized covered can.

We have our restaurants under license and inspect them frequently.

We also have a competent meat and dairy inspector, who frequently tests the milk from the waggons.

# OTTAWA.

# Dr. R. LAW, ACTING M.O.H.

Owing to the absence of Dr. T. A. Lomer, Medical Officer of Health, now on duty with the Canadian forces in the European war, I have the honor to submit to you the annual report of the Health Department for the year ending October 31st, 1914. This report includes the reports from the heads of the various sub-departments.

The estimated population is	
Total number of births	2,537
Birth rate, 1914	24.92 per 1,000
Birth rate, 1913	26.38 per 1,000
Birth rate, 1912	23.98 per 1,000
Birth rate, 1911	22.83 per 1,000
Total deaths, 1914	1,868
Still-births	155
Deaths of non-residents	206
Corrected total deaths	1,585
Death rate	18.39 per 1,000
Corrected average death rate for 1914	15.26 per 1,000
Corrected average death rate for 1913	15.28 per 1,000
Corrected average death rate for 1912	14.14 per 1,000
Corrected average death rate for 1911	15.86 per 1,000

#### COMMUNICABLE DISEASES REPORTED DURING THE YEAR.

The total number of communicable diseases reported, and the deaths therefrom were as follows:

	191	1913.														
Diseases.	November.	December.	January. February.		March.	April.	May.	June.	July.	August.	September.	October.	Cases.	Deaths.		
Typhoid fever Tuberculosis Small-pox Diphtheria Whooping cough. Chicken-pox. Measles. Scarlet fever Mumps Erysipelas Poliomyelitis.	7 9 10 47 2 19 7 62 46 0 1	1 9 9 57 2 13 2 40 2 0	$\begin{bmatrix} 1 \\ 12 \\ 9 \\ 60 \\ 4 \\ 8 \\ 1 \\ 42 \\ 6 \\ 0 \\ 0 \end{bmatrix}$	$\begin{array}{c} 0 \\ 17 \\ 9 \\ 48 \\ 0 \\ 17 \\ 1 \\ 49 \\ 6 \\ 1 \\ 0 \end{array}$	0 16 1 44 0 7 2 51 18 0 0	3 19 3 50 2 15 3 28 17 0	0 10 3 44 8 9 3 19 15 2 0	9 5 0 50 4 16 1 12 28 1 0	8 1 1 45 0 1 0 10 4 0 0	10 16 0 49 1 0 6 2 0 2	13 12 0 59 1 1 0 5 0 0 0	67 11 0 62 8 3 3 10 0 0	119 107 45 614 32 109 23 334 144 4 3	13 137 0 60 13 0 0 29 0 7		

### DEATHS FROM COMMUNICABLE DISEASES BY WARDS.

1914—Wards.	Small-pox.	Diphtheria.	Scarlet fever.	Whooping cough.	Measles.	Typhoid fever.	Chicken- pox.	Total.
Ottawa By Rideau St. George Wellington Central Capital Dalhousie Victoria Outside Totals		8 5 3 8 10 2 4 14 2 4 ————————————————————————————	6 3 2 2 5 1 2 7 1 29	3 1 1 1 1		2 4 2 1 3 1		18 11 5 12 22 6 8 24 4 5

## PULMONARY TUBERCULOSIS.

During the year there were 137 deaths from tuberculosis, 116 cases being pulmonary, and 21 other forms of tuberculosis. Of these, 40 deaths occurred at the Lady Grey Hospital.

It is to be regretted that the cases of tuberculosis are not being notified to the Department of Health as they should be. There were during the past year 30 more deaths reported from tuberculosis than cases notified.

### DEATHS FROM TUBERCULOSIS.

Wards.	Pulmonary Tuberculosis.	Other cases.	Totals.
Ottawa By Rideau St. George Wellington Central Capital Dalhonsie Victoria Outside  Totals	15 8 3 10 17 11 5 27 6 14	2 3 2 3 2 2 2 4	17 11 3 12 20 13 7 31 6 17

The good work being done by the Lady Grey Hospital, the Anti-Tuberculosis Association and the May Court Club Dispensary is deserving of great praise, and merits the support of the citizens.

# TYPHOID FEVER.

During the year there were reported 119 cases of typhoid fever, with 13 deaths, 4 being non-residents. During the past year typhoid fever has not occurred in anything approaching an epidemic form—a fact that is largely to be attributed to the hypochlorite treatment of the water supply and the numerous daily tests which have been made of the water. Figures for 1913 were 118 cases of typhoid fever reported, with 20 deaths.

# SMALLPOX.

There were 45 cases reported during the year, with no deaths. The Hopewell Hospital has been closed since March 25th, 1914. Most of the cases have been of a mild type. The Hopewell Hospital has proved extremely useful and a very valuable means of checking the spread of the disease in the city.

## DIPHTHERIA.

During the last three years the following number of cases of diphtheria have been reported, also the deaths therefrom:—

Year. 1914														Cases.	Deaths.
1913														011	40
1912	• • • •	٠	٠.	 	 • • •	 		٠.	 •	 •	٠.	•		401	30
Т	otal			 	 	 	 							1.393	130

This makes a total of nearly 1,400 cases, with 130 deaths in three years. This is a most regretable condition of affairs, where we know that practically all of these cases dies owing to delay in calling for treatment. It cannot be too strongly impressed on the people that all cases of sore throats and croupy conditions should be seen by a physician without delay, both for themselves and the general public. Many cases are but slightly ill, and yet if untreated are capable of carrying the disease in a most malignant form to others. This is especially true of the form affecting the nose in which a discharge from the nose may be the only sign noticed. People should not delay in calling in a physician at once, and if they are unable to meet the expense the Health Department should be notified, and a physician will see the patient.

## SCARLET FEVER.

Scarlet fever prevailed extensively during the first half of the year, and was af a very severe type. Some 334 cases were reported, with 29 deaths. There have been comparatively few cases in the latter part of this year.

### INFANT MORTALITY.

Total	deaths	under 1 year for	1914 were	534
Total	deaths	for 1913 under 1	year ····	545

This infant mortality rate is still very high. It is partly accounted for by the size of the institutions caring for infants, which is very large in proportion to the population of the town. This means that a large number of infants are brought in from the surrounding country, and even from towns at a considerable distance. During the year of 1913 one of these large institutions which had a high mortality rate was found unsuitable for an infants' home and was closed. In order to efficiently control importation of infants from outside municipalities it would be necessary to have an official who could spend a considerable amount of his time in the supervision, admission, discharge and adoptions of such institutions.

The question of adopting out orphans, or abandoned infants, is very important, as many of these are sent to private homes where they are improperly cared for and afterwards are either returned to the institutions in a hopeless condition or die. We are at present co-operating with the Provincial Board of Health with a view to restricting these evils.

The work done by the infant milk stations, in charge of Miss Grace E. Moore, has done a great deal in assisting to keep down the infant mortality in the poorer sections of the city, and I hope to have this work continued and enlarged. The report of the work done by the infant milk stations will be incorporated in this report.

# CIVIC LABORATORY.

The report of Mr. Jos. Race, City Bacteriologist, on the work done in the laboratory is herewith attached.

### FOOD AND DAIRY INSPECTION.

The dairies supplying milk to Ottawa are in a very satisfactory condition, owing to the constant supervision and advice of Dr. J. B. Hollingsworth, the Chief Food Inspector.

In connection with the meat supply, I would emphasize the need for a municipal abattoir, without which no satisfactory inspection of meat can be made at the time of slaughter, and which is the only way diseased meat can be kept out of the city. The report of the Chief Food Inspector is attached.

# SANITARY INSPECTION.

One of the chief difficulties of the sanitary inspection staff is in connection with the rapid building of small houses in unsewered areas. Many of these houses consist of one or two rooms, and are unfit to put improvements in after the sewer has been laid.

Good work has been done during the past year in effecting the removal of outside privies from sewered areas, and with the opening of the West End drainage system

in June the number was greatly reduced.

I append the tables of mortality statistics for the year 1913.

All of which is respectfully submitted.

#### DEATHS BY NATIONALITIES.

Canadian	4
French-Canadian	_
Irish	4
Scotch	3
English	
Italian	
Jews	
Poles	-
American	G
Others	Z
Total	_
Total	8

The mortality statistics of the different institutions in the city are as follows:

Institutions.	No.	of	Deaths.
Ottawa Maternity Hospital			16
Salvation Army Rescue Home			
Lady Grey Hospital			
County Carleton General Protestant Hospital			125
St. Luke's General Hospital			60
Water Street General Hospital			107
Misericordia Hospital			20
St. Patrick's Home			15
St. Charles' Home			
Perley Home			
Old Men's Home			
Misericordia Infants' Home			122

# DEATHS FOR THE YEAR BY WARDS.

# November, 1913-October, 1914

Wards	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Total
Ottawa By Rideau St. George Wellington Central Capital Dalhousie Victoria Outside.	26 13 4 15 13 9 6 22 5 6	19 10 6 20 23 21 12 30 10 7	26 20 3 18 24 20 12 20 21	13 25	20 13 5 38 30 20 10 32 5 13	34 7 2 20 24 20 6 18 12 8	22 15 10 20 29 16 12 23 3	22 13 11	23 16 13 12 30 15 20 30 13 13	22 25 9 18 29 15 13 32 10	9 20 20 19 10 21 5	$ \begin{array}{r} 14 \\ 6 \\ 6 \\ 10 \\ 17 \\ 15 \\ 14 \\ 27 \\ 6 \\ 7 \end{array} $	266 166 79 228 284 198 139 302 78 128
Total	119	158	156	170	186	151	160	131	185	186	144	122	1,868

NO. OF DEATHS BY MONTHS WITH AGES.

A 202	19	)13	1914										
Ages.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr	May	June	July	Aug.	Sept.	Oct.	Total
Under 6 months. 6 months to 1 year 1-2 years. 2-5 ' 5-10 ' 10-15 ' 15-20 ' 20-25 ' 30-35 ' 35-40 ' 40-45 ' 45-50 ' 50-55 ' 55-60 ' 60-65 ' 60-65 ' 70-75 ' 80-90 up Stillbirths	19 7 7 11 2 2 1 5 1 1 2 2 6 6 6 5 9 5 6 6 7 7	26 5 3 9 6 6 2 9 13 7 6 4 7 7 7 10 9 8 2 12	27 97 88 25 35 99 38 710 65 50 114 211	34 7 9 6 3 5 3 4 4 6 6 7 7 9 11	46 7 3 7 4 2 3 7 14 6 6 6 4 4 4 6 9 15 11 17 4 10 10 10 10 10 10 10 10 10 10 10 10 10	28 9 23 4 6 5 3 11 10 6 3 6 8 4 8 5 11 14 15	39 5 7 5 7 3 4 10 11 7 5 6 5 7 9 4 10 6 8	24 6 4 3 5 2 3 7 8 7 5 4 2 4 9 7 10 7 13	55 122 9 8 4 7 7 4 15 5 4 7 3 2 8 6 4 11 11 11 11 11 11 11 11 11 11 11 11 1	53 21 57 2 2 4 4 7 8 6 4 4 4 3 5 6 6 6 6 16 19 12	39 14 5 3 3 6 6 6 4 3 5 3 1 1 12 5 1 15 10 10 10 10 10 10 10 10 10 10 10 10 10	35 6 6 2 3 1 0 5 5 4  1 5 7 4 3 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	425 109 62 777 444 49 42 57 107 69 69 51 61 61 77 92 78 144 35 155
Totals	119	158	156	170	186	151	160	131	185	186	144	122	1,868

# FOOD INSPECTION, OTTAWA.

# J. B. HOLLINGSWORTH, CHIEF INSPECTOR.

I hereby beg to present my annual report for the year ending October 31st, 1914, covering work done in the food inspection branch of the Department.

There are about 245 dairy farms supplying milk to this city with an average of about twenty-four cows per dairy. Most of our supply is produced within a radius of twelve miles from the city. We have, however, a considerable quantity coming in from Carp, Kinburn, Russell, Vankleek Hill and Pendleton, and to cover this your inspectors are kept continuously on the work.

Our dairies are scored once a year. The method of scoring is explained, and the producer is shown how an increased rating can be secured. In this manner the dairyman is made to realize the actual conditions of his dairy. A standard of 60 per cent. of the total score on the score card must be obtained before the dairy is considered to be in a satisfactory sanitary condition. If this percentage is not reached on the first inspection the dairyman is advised to make certain improvements so as to bring his place up to a satisfactory standard before his license is granted. If on the second inspection no improvement is shown, and the score is still unsatisfactory, the sale of milk is prohibited.

All dairy cows are given a careful physical examination—particular attention being paid to the udders. We must insist upon the cows being kept clean, comfortably housed, and supplied with proper food. All utensils must be kept scrupulously clean. Anyone handling the milk must be personally clean and free from communicable disease. The milk must be immediately removed after milking to the milk house; to be strained and cooled in a clean, well-ventilated and drained room—used exclusively for the purpose—and where it is stored in ice water preparatory to shipment.

All milking stools have been carefully inspected, and as these utensils are the last to be touched by the hands of the milker before milking, we insist that they are kept clean.

Particular attention has been paid to the light and ventilation of our dairy stables. We are now insisting that at least two square feet of window glass be provided for each cow; also a proper system of ventilation, which will provide one square foot of inlet for each ten cows, and two square feet of outlet.

Samples of milk are collected every day on the streets from the different milk rigs, and are tested both chemically and bacteriologically at the Civic Laboratory.

The inspector, while collecting the sample, examines the milk cans and especially the covers, which we often find defective. He also is provided with a thermometer for taking the temperature of the milk. The dairymen are instructed that in order for their milk to keep sweet until it reaches the consumers' table, it must be immediately cooled after it is drawn from the cow, and kept at a low temperature thereafter. In order to accomplish this many of our dairymen pack ice around their cans in summer-This year 2,415 samples of milk have been collected and tested, an increase of 891 over last year.

All places, where food is stored, consumed or retailed, are carefully inspected. We have under inspection 93 restaurants, 321 victualling houses, 20 slaughter-houses (only 2 are inside city limits), 89 butcher shops, 1 cold storage, and several wholesale plants.

The restaurants, butcher shops and victualling places have to get a certificate from this Department before they can obtain a license. This is a decided improvement, as

it enables us to have all necessary changes made in proper time.

Our bakeshops and confectionery stores have been carefully and regularly inspected; also as to the weight of bread. There have been very few loaves confiscated this year, owing to the strict measures that have been taken, and to police court fines. We should, however, be given power to pass regulations covering the sanitary conditions of bake and confectionery shops, and each party should be compelled to take out a license to conduct such an important business each year. All bread that was confiscated was turned over to Mr. Keane, city charity officer, for distribution.

During the year there has been a considerable quantity of vegetables, fruit and

meat confiscated.

There was 4,832 pounds of meat condemned, as well as 6 crates of peaches, 2 crates. of pears, 4 crates of blueberries, 1 crate of plums, 430 water melons. Two carloads of cabbages were sent to the incinerator and burnt.

In conclusion, I wish to state that the inspectors under my branch of the Department have performed their duties conscientiously and energetically, with the interest of the Department at heart.

# MODIFIED MILK DEPOTS, OTTAWA.

# GRACE E. MOORE, R.N., SUPERVISOR.

I have the honour to submit the Fourth Annual Report of the Infant Milk Depots

for the year ending October 31st, 1914.

The work which was started under the supervision of Dr. Shirreff at the Ottawa Dairy in 1910 has grown steadily, and this year, although the number of depots is the same as last year, the attendance has increased, and it has been found necessary to have an assistant at all the clinics.

The depots are viz .:

No. 1.-288 St. Patrick Street.

No. 2.-7 Irving Avenue.

No. 3.-298 Division Street.

No. 4.-138 Queen Street West.

On October 6th, 1913, No. 1 Milk Depot at 207 Church Street was moved to 288 St. Patrick Street, as the former house was too large and would be very expen-

sive to heat during the winter months.

From October 1st, 1913, to May 1st, 1914, three depots were open, viz., Nos. 1, 3 and 4. From May 1st, 1914, No. 2, at 7 Irving Avenue, was reopened, and Miss Davidson transferred from No. 4 to No. 2, and a new nurse, Miss Leonard, placed in charge at No. 4. October 1st, 1914, No. 4 was closed, and as the lease for that house did not expire until May 1st, 1915, it was sublet for eight months.

During the winter months three depots will be open, Nos. 1, 2 and 3. This year it has been necessary to retain the services of the fifth nurse for two months to substitute while other nurses were absent on vacations, the four nurses remaining being

unable to carry on the increased work at the depots.

The hours at the depots on week days are from 9 a.m. to 12 noon; during this time milk is dispensed and advice given by the nurse in charge. From 1 p.m. to 5 p.m. the homes are visited and general instructions given by the nurse as to the feeding and care of children. On Sundays milk is dispensed from 9 a.m. to 10 a.m., and the nurses are on call.

The milk comes from a selected herd at the Ottawa Dairy Farm and contains 4 per cent. cream. The average number of quarts dispensed daily is one hundred and seventeen in the summer months, and one hundred in the winter. The price is the same as the ordinary milk supplied throughout the city. Those too poor to pay are, on certificate from Mr. Keane, the city charity officer, supplied with milk free for

one month, and if necessary the certificate reissued.

Clinics are held weekly at the different depots with the exception of No. 1, where we have two a week, one French and one English. It is most encouraging to note that the efforts of the nurses in giving instructions to mothers regarding the feeding of their babies have resulted in an increasing number of mothers nursing their children.

An increase of one depot, to be opened in Ottawa East, is recommended. No. 4, now at 138 Queen Street-West, should be tradsferren to Lower Town for the summer

of 1915; this arrangement will greatly facilitate the work.

Since the inception of the work in 1910 no increase of salaries has been granted the nurses. It is strongly recommended that some recognition be made in the way of an increase of pay.

I wish to thank Drs. Shirreff, Beroard, Tilly, and Valiquet, the nurses, and my

assistant, for their co-operation and very efficient services during the past year.

The following statistical table and financial report will show the increased amount of work:—

Number of Depot.	Number of babies treated at clinics.	Number of babies seen by the nurse at Depot.	Number of visits made to babies at homes.	Number of quarts milk dispensed.	Number of deaths.
1	133	390	1.718	9,817	9 from Nov. 1, 1913, to Nov. 1, 1914.
2	201	545	650	5,861	8 from May 1, 1913, to Nov. 1, 1914.
3	510	1,330	1,840	12,866	7 from Nov. 1, 1913, to Nov. 1, 1914.
4	317	696	1,555	5,870	1 from May 1, 1913, to Oct. 1, 1913.
Total	* 1,161	2,961	5,763	34,414	25 *

Cash to the City Hall		\$577.74
Milk sold daily	518.90	
Extra milk sold		
Barley flour sold at 10c. per lb		
Feeding bottles sold at 5c. each	13.35	
	—	
Total		\$577.74

I have the honour to be, sir, your obedient servant,

GRACE E. MOORE, R.N.,
Supervisor of Modified Milk Depots.

\*It is to be noted that this figure includes several appearances of the same baby. 2,557 births were registered in 1914 and 124 deaths from diarrhoea and enteritis, of which the 25 deaths reported by the modified milk depots form a very small portion. It would appear that very few of these cases are being reached. It would be advisable to report these deaths annually, by wards and months. An additional staff during June, July, August and September in certain sections should reduce this rate very materially. Added by Chief Officer of Health.

#### PETERBOROUGH.

# Dr. A. W. McPherson, M.O.H.

I beg to submit my report of the sanitary conditions of the city, for the year ending November 30th, 1914.

It gives me pleasure to state that the general health of the citizens has been good. This is, no doubt, due to a number of conditions, such as climate, food and water, absence of dangerous or injurious occupations, proper sanitary facilities, and perhaps,

in a small degree, to the wise provisions for caring for the sick, and to the supervision over health matters as exercised by the Health Department. Some of these are beyond our control, and as such have only a passing interest; those that can be influenced by us must be carefully studied and supervised, so that the health of our citizens may be protected.

When we compare the health conditions of the different towns and cities in the province, as shown by the annual reports from the Provincial authorities, we have good reason for gratification. The following table shows the number of communicable diseases reported in, with the number of deaths.

		Deaths.
Diphtheria	. 80	7
Scarlet fever	. 12	0
Measles	. 2	0
Typhoid	. 12	5
Tuberculosis	. 18	21
Smallpox	. 0	0

From the table it looks as if we had a small epidemic of diphtheria, and on account of some interesting features in connection with it, I would like to make a few remarks. The city has been comparatively free from diphtheria for the past twelve years During December of 1913, a number of cases appeared, mostly in the western part of the city. In January and February, 1914, more were reported in from the northern part. From this time until the middle of summer an odd case was reported in from different parts. In August and early September, a number of cases were discovered in the south, just beyond the city limits. Whether the outbreak originated within or without the city it would be hard to say. Be this as it may, it was not long after school opened that three children attending the Sacred Heart school were taken down with the disease and one died. I went to the school and gave antitoxin to the two rooms from which the cases had come. The children were then examined, and all having any discharge from the nose were swabbed and sent home until a microscopical examination was made. Two of the cases were found to be positive. To confirm this and to strengthen my hand in the matter, I sent swabs of the positive cases to Toronto. The Provincial Laboratory confirmed my findings, and the houses were duly placarded, although very strenuous objections were made. A few more cases were reported in from among those attending the school. This had the tendency to alarm the parents and the school attendance fell away .75 per cent. At our request, the Separate School Board appointed a nurse to assist in controlling the outbreak. This was accomplished first by taking swaps from all suspicious cases and placing in quarantine any that were found to be positive; second, by following up absentees, and finally by giving antitoxin to every child in the school. After the antitoxin was given, we had no more cases. At the same time that this work was being done in the separate schools, a similar work was being done in two of the public schools, where a large number of positive cases was found.

By this means we located many children that were showing no symptons of any diseased condition, except a discharging nose; but who, notwithstanding, would be able to communicate the disease in a severe form to others. In following up absentees, and by insisting on a swab of the nose and throat being taken for examination before a pupil was readmitted to school, we located a number of cases of clinical diphtheria that, from one cause or another had not been reported in.

During the year eighty cases were reported in, but forty of these were showing no signs of illness, and were found through the work of the school nurses. As a result we are again free from diphtheria. I just wish to take this opportunity to express my appreciation of the good work done by the two school nurses, and the active support received from those in authority in both the separate and public schools.

Typhoid has been light again this year, only twelve cases being reported in. Four of these had been living out of town prior to developing the disease and doubtless obtained the infection there. The other eight were using either well water exclusively or well and city water. The cases were scattered throughout the year. The number of deaths was five.

Measles and scarlet fever gave us no cause for worry, and smallpox did not make

Before leaving this part of the report, I would like to call your attention to the number of deaths from *tuberculosis*. This year the number was twenty-one, as compared with 30 last year, or a decrease of 30 per cent. No doubt this is in a large measure due to the good work of the Peterboro Health Association. It is only two and a half years since the work began, but already the results are showing in the most

practical and in the most convincing form: the lowering of the death rate, or in other words in the saving of lives. How many will be saved from the ravages of the disease through a reduction in the number of cases and through education in prevention and spread of infection, among those suffering from the disease, or among those who may be exposed, be it at home or elsewhere or by caring for the delicate or poorly nourished children, only time will tell. In the meantime it is our duty to support the

association in their good work in every way that may be necessary.

The sanitary work has been carried on as far as possible with the help available, and is dealt with in the Sanitary Inspector's report which is appended. There is very little beyond the usual routine to report. I might say that during the year the bake shops and laundries were inspected and regulations controlling each drawn up. It was decided to recommend to the council that the laundries be licensed, the issuance of the license being subject to the approval of the Sanitary Inspector. A marked improvement in the laundries has resulted therefrom. In this connection I would suggest that the bakers also be licensed only after the premises have been examined and found in accordance with the by-law. Licenses for butcher shops are issued by the police. It seems to me that they should be issued only after receiving a favorable report on the premises from the Sanitary Inspector.

The milk by-law should be amended so as to compel the milkmen to keep the Sani-

tary Inspector informed as to the sources of their milk supply.

We have received from the Provincial Board of Health copies of the rules and regulations governing slaughter house and manure heaps, and it will be our duty to see that they are enforced.

I have but few recommendations to make. Last year I suggested the advisability of an abattoir and a small smallpox hospital. In view of the hard times prevailing, it

may be advisable to postpone consideration of these.

Before closing I would like to draw your attention to the fact that Peterboro is to be honored this year by being the first city outside of Toronto to have the Annual Convention of the Health Officers of the Province. The dates set for the meetings are May 25, 26, 27 and 28. When you consider that there are about 700 officers in Ontario, you will see that we will have a large number of guests to look after, and I ask your assistance in making it helpful and entertaining to them while in our city.

# SANITARY INSPECTOR.

### C. A. G. SPENCE.

I have much pleasure in submitting my third annual report for your consideration, containing a brief resume of the work accomplished during the past year. The following table will show at a glance how part of my time has been expended.

Calls and inspections	3,850
Calls and inspections (by Mr. Miller)	300
Visits to dairy farms	105
Visits to slaughter houses	45
Notices issued	222
Complaints investigated	186
Samples of milk tested	184
Timeses granted often improcion gives April 15th	
Licenses granted after inspection since April 15th.:	07
Restaurants	27
Laundries	12
Milk vendors	42
Scavengers	9
Dearengers	

In addition to the foregoing figures a great proportion of my time has been occupied in superintending the garbage collecting systems, the working of the incinerator and other details of sanitary work. I received valuable assistance in the spring from Mr. Miller, who inspected the yards in east city; but the increased labours attached to his other offices curtailed this assistance later, and at the present time he has as much work in his own department as he can cope with.

#### MILK SUPPLY.

The following particulars relating to the milk supply of the city may be interesting. The daily average quantity of milk sold in Peterborough by the 55 licensed vendors is about 4,500 quarts. Thirty nine of these vendors procure their milk from 60

farms in the surrounding country, the remainder being persons who keep one or two cows and sell milk to their neighbours.

The quality of the milk is good, both as to fat per centage and cleanliness, the average test for the 184 samples being 3.59 per cent. fat; a slight increase over last year's record, and well above the standard required by the by-law, namely, 3 per cent. The highest individual average is 4.3 and the lowest 3.05; highest individual test 5.3, lowest 2.8. Eleven vendors show an average test between 3 and 3.5; twenty-four between 3.5 and 4, and four above 4 per cent.

A greater number of dairy farm visits than last year has been made and many improvements effected. Two new dairy barns and several milk houses have been erected as a direct result of these inspections. The water that the cows drink and that cans and utensils are washed in has been tested, and every effort has been made to secure the citizens wholesome, clean milk from the time it leaves the cow's udder

until it enters the consumer's door.

## SLAUGHTER HOUSE REGULATIONS.

The slaughter houses have been periodically visited, and on the whole conditions are as satisfactory as could be expected under present circumstances. The regulations of the Provincial Board of Health, however, passed two months ago and now in force, will compel the City Council in the near future to take up again the question of a public abattoir for this reason, there is not a slaughter house in the district that can comply with the rules. The enforcement of these regulations simply means that the slaughter houses now in use will have to be closed. The owners are, I believe, unanimous in their desire to see an abattoir erected, in fact, they have frankly admitted to me their inability to meet the requirements from a financial standpoint alone.

#### COMPLAINTS.

186 complaints have been received and investigated, as against 122 in 1913. Of this number 25 had reference to outside closets; 18 to food products; 14 to noxious odors; 18 to stables; 15 to defective plumbing; 13 to premises being left in dirty condition; 11 to nuisances from fowls, and 7 to water supply; 30 of the total number were either exaggerated or unjustified.

# LICENSING OF LAUNDRIES AND EATING HOUSES.

As you are aware, by-laws were passed which came into effect on April 15th, 1914, providing for the licensing of laundries and eating houses. These licenses are not issued until the applications are favourably reported upon by me after inspection of the premises, and the result has been a radical change, especially in the Chinese laundries; all of which had to be remodelled or altered before the licenses were granted.

### MARKET.

New market regulations relating to the selling of fowl by weight and the displaying of the names and addresses of the vendors came into force on May 1st of this year, and, as usual with legislative innovations, met with some opposition at first. This, however, soon subsided, and at the present time the market square and building is quite inadequate to accommodate in comfort those who resort there on market days. I regret that my proposition to have fowl dressed with the heart and liver attached was turned down. The result has been that the buying public has suffered thereby, fowl after being dressed at home often being found diseased. In connection with this it is significant to note that the local cold storage plant will only purchase turkeys that have been dressed.

#### YARDS.

There are yards in the business section that are a disgrace to a city of this size, and a positive menace to the health of those who unfortunately have to work near them. The difficulty of deciding the ownership of these places is an obstacle to their improvement. They should be paved and drained, and until this is done it will be impossible to keep them in a sanitary condition. I would suggest this question be taken up by the Board of Health with the City Council, with a view of ascertaining whether they could not assume control and effect this under "Local Improvement."

In conclusion I may say that the results achieved in every department of sanitary work show distinct progress, and though my duties are arduous and often unpleasant, there is a satisfaction in knowing that one is surely though slowly attaining the goal aimed at. The public are gradually awakening to the fact that the work of the Health Department for the prevention of disease is not simply a fad; but one that is deserving

of consideration and support.

# PORT ARTHUR.

### DR. C. N. LAURIE, M.O.H.

I have the honor to present my report for the year 1914. We have been fairly fortunate during the year, having had no serious outbreak of disease of a dangerous character, although we had an unusually large number of cases of scarlatina and The scarlatina made its appearance very early in the year, and it has seemed almost impossible to stamp it out. It is of such a mild type that in eighty per cent. of the cases no physician is called, as the children are only slightly ill, and the rash which is very light only lasts a few hours, or at the outside a couple of days. The majority of these cases are not reported, the parents looking upon the sickness as a slight cold, or in some cases keeping it quiet to escape quarantine. Most of the cases have been found by the school nurse or were reported to me by some neighbor. We have had to close rooms in the schools at different times during the year to help check the disease. At present it seems under control again, but as it is in the townships around as well as in different villages up and down the railway lines, we can never tell when we may have another outbreak. We also had a number of cases of measles during the months of May, June and July, but I am pleased to say that we have only had one case lately and that patient took ill a few days after arriving from Winnipeg, having doubtless contracted the disease there. There has been a decided improvement in our typhoid situation this year over other years. Since July 1st we have had twenty-three cases reported, of which eight were from the city, and fifteen from outside points. This is a very satisfactory condition, but we trust that even this good record by constant care may be surpassed, until the disease is entirely wiped out of our country. Of course we cannot as a city do this alone, but the care must be general all over the Province and the Dominion. Our Provincial Board of Health has taken a very decided interest in this, and, with their district officers, are doing everything in their power to stamp out all contagious and infectious diseases.

We had sixteen deaths during the year from tuberculosis. This is a very serious matter and some steps must be taken by our Council to provide a place for the treatment of these patients. At present they are treated in the general hospitals. These hospitals are small and often overcrowded, and it is an injustice to expose the other patients to so serious an infection in their weakened condition.

We had a nurse appointed early in the year to assist in the school work. She has done excellent work, and has been invaluable to me. She visits the schools daily, examines the pupils when necessary, gets the names of the absentees and calls at their ·homes to find out if they are absent through sickness. Since she started the work on March 10th last, she has examined 784 children in the schools, and made 1,810 calls at their homes. She reports all cases at my office daily, sends children suffering from disease to me for further examination and treatment, and, if necessary having me visit them at their homes. I have spent a great deal of time in this work visiting the schools and the homes to investigate cases of sickness. We have also examined over ninety school children for eye, ear, nose and throat troubles, and have operated on thirty-nine. I have also visited all homes quarantined. I have also personally supervised fumigating of these homes. With the sanitary and plumbing inspectors I visited all buildings reported as unsanitary. With the inspector I have visited yards and lanes all over the city to see that they were kept clean, also to see that the regulation garbage can was used. We have had sixteen persons in court for keeping dirty and unsanitary premises. We also had to summon a number of persons for failing to comply with the by-laws in regard to proper sewer connection. We have also had several cases before the Magistrate for breaking quarantine. We have kept a close watch on all, butcher shops 16, cold storage plants 2, restaurants 22, the market, laundries 15, livery stables 6, barber shops 18, bake shops 9, fruit stores, boarding houses, the C. N. R. bunk house, the theatres, slaughter houses, and dairies. The inspector has taken samples of milk from the wagons, all of which he brings to me for examination. I have found the milk generally up to the standard, occasionally we have found it necessary to warn some of the dealers. We have twenty-one licensed milk dealers and it takes a great deal of time visiting their dairies, as some live considerable distances out in the country. We have kept close watch on them, both the inspector and myself making repeated calls. The inspector has seized and destroyed a number of carcasses of meat, which was unfit for food.

In August we held a "Better Baby Contest," under the auspices of the Local Council of Women. We were assisted by the doctors and nurses of the two cities, and in the three days of the contest we examined about 250 babies, distributed literature instructing mothers in the proper feeding and care of babies, as well as giving personal advice. We have also addressed a number of mothers' meetings on the same subject, all of which we trust may help to reduce the great mortality amongst children. In this

connection it is interesting to note that out of 123 deaths amongst children in the city during the past year there were thirty-seven stillborn, which I think is an unnecessarily large number.

During the year we treated sixty-six cases in the Isolation Hospital, 45 of scarlet fever, 16 of measles, 2 diphtheria, 3 erysipelas, with two deaths, one being a case of scarlet fever and one diphtheria. I have received a number of reports from parents, whose children were treated there, speaking most highly of the care and attention received. I also wish to express my appreciation for the way in which the hospital is kept by the matron.

I have had a larger number of charity patients under may care this year principally on account of so many persons being out of work on account of the hard times. These patients were sent to me by the relief societies. I also had the usual number from the Police Court and Sailors' Institute.

During the year we finished the new water works intake pipe two miles below the site of the old intake, the water being turned on from this source in November last, Before the water was turned on it was carefully examined in a field laboratory of the Provincial Board of Health, which was sent up in charge of Mr. DeLaporte. The supply was almost absolutely sterile, assuring the citizens of an improved water supply.

All of which is respectfully submitted,

#### SAULT STE. MARIE.

### DR. A. S. McCAIG, M.O.H.

I have the honour to submit my report of the sanitary condition of the City of Sault Ste. Marie for the year 1914.

### VITAL STATISTICS.

During the year there were, up till September 30th, 205 births, 179 deaths, 121 marriages.

#### INFECTIOUS DISEASES.

1. Typhoid Fever.—During the year there were treated in the city 123 cases of this disease. From Sault Ste. Marie, 77 cases; Steelton, 23 cases; boats, camps and outside municipalities, 23 cases. There were nine deaths from this disease.

The outbreak of typhoid fever began in the latter part of June, and continued during July and August. The Provincial Board of Health conducted a very thorough investigation into the cause of the epidemic. It was clearly demonstrated by the investigation that the water supply was the source of infection, and that irregular administration of the hypochlorite to the water was responsible for the outbreak of the disease in Sault Ste. Marie and Steelton.

We have now had over a year of the sterilization of the water by chlorination and the results have not been as satisfactory as anticipated. No doubt we would have had a great deal more typhoid had the water not been chlorinated, but the knowledge that the water was being chlorinated gave a false sense of security, and the best method of sterilizing the water by boiling was neglected.

Chlorination is only a "stop-gap" method of treatment, and it is almost impossible to insure complete sterilization of the water at all times by this method. It must be looked upon only as a temporary expedient until more permanent measures of purification are installed, either a change in source of supply, intake, or filtration.

A great deal of complaint has been heard regarding the excessive amount of hypochlorite added during the summer. It is necessary to add the maximum dosage of hypochlorite all the time in order to take care of excessive pollution that may occasionally occur due to the congregation of a number of boats above the intake. Another leason for the taste being so perceptible in our water is that Lake Superior water is entirely free from vegetable and other impurities that abound in ordinary river water so that the material for oxidation by the hypochlorite is limited in Lake Superior water to the impurities furnished by navigation.

Even with all mistakes and accidents due to human indifference or carelessness and to uncertain mechanical contrivances designed for the administration of the hypochlorite eliminated, we are in constant danger. No system of chlorination, however carefully managed, can take care of the sudden gross contamination that our water is at any time exposed to during the season of navigation, and the only thing that saves us and has been our safety in the past is the immense volume of water that serves as a diluent

for the pollution. But in order to gather the pure concentrate of pollution into our water supply the intakes in both the ship and power canals are so placed in relation to the gates that the gates act as dams and the intakes readily gather in what the gates so effectively obstruct. A more dangerous scheme could not very well have been designed.

Now that the water system is under municipal control we look for immediate improvement in our water supply. During the year you had two reports upon the water supply, one from the Provincial Board of Health of Ontario, the other from Dr. Starkey, Professor of Hygiene in McGill University. Both reports condemned the source of our water supply as extremely dangerous and a menace to the public health. It should be the duty of the incoming council to deal with this important matter as early in the year as possible. I think it would be better to leave some of our streets unpaved for a few years and secure a pure water supply instead. A street is only bad for a very short time in the year and only to a very few citizens with carriages or automobiles, but a dangerous water supply is a menace to every inhabitant of the city and to every person whose business calls them to the city. With over 100 cases of typhoid in Sault Ste. Marie and Steelton this season directly traced to the water supply, and with 14 deaths from the disease in the two municipalities, and these deaths in young healthy adults, do not be surprised to receive any day a peremptory order from the Provincial Board of Health ordering you to clean up your whole water business.

2. Scarlet Fever.—We began the year with an epidemic of this disease. There were 36 cases of the disease. No deaths.

3. Diphtheria.—There were nine cases of this disease with one death. In 1912 we had 97 cases with 9 deaths, and in 1913 40 cases with 3 deaths. The benefit of the Isolation Hospital in controlling this disease is apparent. Before being released from quarantine every diphtheria patient must give two negative swabs from the throat. During the year I examined 23 swabs, seven gave a positive diagnosis of diphtheria and 16 a negative diagnosis.

4. Tuberculosis.—There were 16 deaths from this disease—13 pulmonary, 2 meningeal, and 1 peritoneal. This disease still maintains its place at the top of the death column. The educational campaign against this disease is still being carried on and though the results do not seem very encouraging just now, the rising generation is being educated along lines pertaining to the prevention and cure of the disease.

5. Measles were epidemic early in the year. There was one death as a result of this disease.

# DAIRIES AND MILK SUPPLY.

The dairies were inspected during the year by the Sanitary Inspector and a committee from the Board of Health. In some cases the stables were found in a very dirty condition and the method of handling the milk was not satisfactory to the Board of Health. The owners were notified of the changes necessary before they would be allowed to sell milk in the city.

Milk is the most favourable agent for the spread of disease. The milk may be infected by coming from diseased cows or it may become contaminated by careless and dirty methods of handling.

Tuberculosis is conveyed by milk from cattle to man. It is with cattle, as with man, the most widespread of all infectious diseases. It is prevalent in the dairy herds of Canada, and examination of the cows in this district revealed the presence of the disease in some of the herds supplying milk in the city.

Bovine tuberculosis transmitted by milk shows itself most frequently in children in the form of enlarged glands in the neck, tuberculosis of the bones and joints, and meninges. Probably 500 deaths in Canada each year are the result of infection with bovine tuberculosis. Pasteurization of all milk as at present furnished is a very safe measure to observe.

This coming year we intend taking advantage of the Order in Council passed last May by the Dominion Government regarding the testing of dairy herds for tuberculosis.

#### BUTCHER SHOPS.

These were frequently inspected during the year and were kept in good condition. The meat supplied by the butchers was clean and of good quality.

#### BAKERIES, HOTELS AND RESTAURANTS.

These were regularly inspected. Two bakeries were closed on account of insanitary premises, and one hotel proprietor was prosecuted for having his premises in an unsatisfactory cendition. Restaurants were made comply with the regulations of the Board of Health.

A great many new sewer connections were made on order of the Medical Officer of Health and Sanitary Inspector. This good work was somewhat interrupted when the war broke out, but we hope soon to resume this part of our work again so that in a short time there will not be a house on a street where there is a sewer which is not connected with it.

The work of the Sanitary Committee in the collection of garbage was well done. It will be much easier for the men on the earts when every householder is compelled to get a garbage can. The new incinerator has taken care of all the garbage that could

be taken to it.

The duties of the Sanitary Inspector were diligently and efficiently performed.

Sanitary conditions in the city are improving every year, and Dr. R. E. Wodehouse, Provincial Medical Officer of Health for this district, on his official visits to the city has expressed himself as well satisfied with the work that is being done in the interests of the public health.

# STRATFORD.

# Dr. J. C. ROBERTSON, M.O.H.

In accordance with the requiremeents of the Public Health Act, I have the honour of again submitting to you my annual report of the health of the city for the past

year ending October 31st.

It will no doubt be gratifying to the Board to know that during that time the health of the city has been exceptionally good. We have had no epidemics of the so-called preventable disease. There were seventeen cases of diphtheria with two deaths; eleven of these cases were treated in the Isolation hospital. There were eight cases of scarlet fever with no deaths. Seventeen cases of measles were reported, all recovered. There were only six cases of typhoid fever reported, with one death. It strikes me the profession is negligent in its duty in not reporting promptly cases of this kind coming under its care, although circulars have been sent them requesting them to do so. There were seven deaths from tuberculosis recorded—notification of tubercular cases seem to have been neglected. Such notification is not for the purpose of isolating the patient, but the Provincial Board of Health demands it, so that it may be able to forward to the patient such literature as it has formulated for his or her benefit and for the protection of the public. We had one case of smallpox, but by vigilance, carefully quarantining and vaccinating all exposed persons, no other case occurred. Three cases of infantile paralysis were reported, no deaths.

Of the preventable diseases, measles and whooping cough are the hardest to control. When it becomes known to the public that either of these diseases is prevalent in the city, they abstain from sending for medical aid, and consequently no report is made and the children are allowed to mingle with others long before the requirements of quarantine expire, thereby spreading the disease. Section 53 of the Public Health enacts that "whenever any householder knows or has reason to suspect that any person within his family or household, or boarding or lodging with him, has any communicable disease, he shall within twelve hours thereof give notice thereof to the Secretary of the Board or to the Medical Officer of Health. Failure to do so renders him liable to a fine."

There were in all 139 marriages, 384 births, and 186 deaths registered in the city. We find that from child-birth to ten years of age there were sixty deaths; between ten and twenty, six; between twenty and forty, twenty-two; between forty and sixty, twenty-six; over sixty, forty-three; accidents, three. Ages not given and premature births make up the total.

There were seven meetings of the Board during the year, although only four are

required by the Health Act.

I must congratulate the members of the Board in the interest they have taken in sanitary matters, as has been evidenced by their regular attendance at the meetings and

their rational and interesting discussion of matters brought before them.

One sad feature during the year was the loss of a valuable and esteemed member of the Board, in the passing to the great beyond of Mr. Frank Pratt. He never missed a meeting, and his counsel and advice were always worthy of consideration. His mantle has fallen upon one of the medical profession, and we look forward with the hope that no errors or omissions will lower the standard of that of his worthy predecessor.

This year the Board has accomplished a long needed necessity, which I have been agitating for years, in their having established a garbage collection and disposal system. By the conjoined efforts of the Board and a special committee of the council, the necessary by-law for same was prepared and finally passed by the council. Too much thanks cannot be given to the chairman and members of this special committee for the interest and efforts they took in having this matter successfully carried out.

Much sanitary work has been done this year, as will be observed by the attached

report of the Sanitary Inspector.

#### SANITARY INSPECTOR'S REPORT.

#### THOS. DUNSEITH.

In presenting my annual report I am pleased to be able to state that we have had a very favourable year.

I used every precaution where communicable disease was known to exist, and was extremely careful in disinfecting houses and schools, and any other places frequented by patients prior to being quarantined.

A case of smallpox broke out in the General Hospital, and by order of the District Medical Officer of Health we had the patient removed to the Isolation Hospital, and there was no further spread of the disease.

As to the sanitary conditions of the city, I think it will compare favourably with any city of like size in Ontario; and we look for still better conditions now that we have the long wished for system of garbage removal and disposal.

This system, although in its infancy, is giving the greatest satisfaction to the

citizens in general.

Another great factor in the better sanitation of the city was the covering of Romeo

and Erie Creeks, now completed.

We inspected the slaughter houses and found them unsatisfactory. Their owners were given notice to vacate their present buildings and erect modern slaughter houses, according to the specifications of the Provincial Board of Health.

I also inspected the livery and feed stables many times during the year and found them all kept clean and sanitary, the owners complying with the sanitary regulations. I inspected the restaurants regularly all summer and found them generally in good

condition. The bake shops also were usually found clean and wholesome.

I think we should have a by-law to enforce the wrapping of each loaf of bread for delivery. It would be much more sanitary than the present method of handling.

In my frequent inspections of groceries and confectioneries I found in nearly every

case the owners adhered closely to the letter of the law.

Almost every day during the year I have made sanitary inspections in some part of the city, and am pleased to say that conditions are improving, as people are becoming more alive to the fact that the health of themselves and their neighbours depends on the care they take of their premises and the disposal of all refuse.

In the matter of our *milk supply*. I made weekly tests during the summer of samples taken from the various milk vendors, and found it to be up to the standard. Also, in company with the Medical Officer of Health and the chairman, we inspected the dairies from which our milk supply is obtained, and with one exception found the stables and milk cooling places in satisfactory condition.

The District Medical Officer of Health was very favourably impressed with the dairy farms, and remarked that they would compare creditably with any in Ontario.

I inspected the butcher shops frequently and found them well kept. The laundries were frequently visited and found well cared for.

I frequently tested water from wells in all parts of the city and found about 35 per

cent of it unfit for use.

I had some difficulty in enforcing the by-law abolishing outside closets. Some of the houses are not built in such a way that the closets might be installed. Others are old and owners are not in financial position to make the improvements, but we have had about 130 comply with the by-law this season.

#### ST. CATHARINES.

### Dr. F. King, M.O.H.

I beg to submit the annual report of the sanitary and other conditions relating to the public health of the city for the past year.

As the Secretary will present a full record on "Vital Statistics," it will not be

necessary to make an extended reference thereto.

Generally speaking, the health of the city has been very satisfactory and death rate lower.

There were recorded 265 deaths from all causes, as compared with 242 last year; of these 39 were premature and still births, as compared with 21 recorded last year.

Of children under one year of age, there were 44 deaths as compared with 54 last year, which is an encouraging reduction when we consider the increase in population and the increased birth rate (504).

#### SANITATION.

A large amount of sanitary work has been done. The Sanitary Inspector has made 1,600 inspections of premises during the twelve months; 42 homes were placarded for

contagious diseases, and 75 houses were fumigated.

Early in the summer the City Council enacted a by-law prohibiting the use of outside closets within a defined area, but as the time allowed to make sewer connections was extended to September, the good effect of this by-law has not been apparent, but many of these places have been closed and many others are now being done away with. The garbage dump is still a prolific cause of complaint. It has, however, been kept in as fair a condition as possible, and pending the erection of a public incinerator this or some equally objectionable ground must be used.

#### MILK.

During the past year several unsanitary dairy farms have been excluded and three applications for licenses to vend milk refused; 232 inspections and tests of milk for butter fat have been made. The supervision of this important article of the food supply is a matter of "eternal vigilance."

#### WATER.

During the year seventy-five samples of the city water were sent to the Provincial Laboratories, Toronto, for analysis. A chlorinating plant has been installed by the Water Commission, and arrangements have been made for a direct pipe-line from Lake Erie, which should settle any doubts respecting the purity of the water supply.

#### GENERAL.

It is worthy of notice that there were twenty-two deaths due to pneumonia, the highest mortality recorded from any single disease. Many of these may be attributed, in part, to faulty ventilation in the homes; therefore, for this and other reasons, the appointment of a qualified plumbing inspector would be in the interest of the public health.

The necessity of an experienced inspector of meat, poultry, and fish has again been

fully demonstrated by the experience of the past year.

In conclusion I beg to recommend:-

 The extension of the area for garbage collection.
 The adoption of a by-law requiring all householders to provide proper covered fly-proof and waterproof metal receptacles for house refuse.

3. The extension of the area in which outside closets shall be prohibited, said area

include all streets provided with sewers.

4. The adoption of a by-law providing that where circumstances require the use of outside closets they shall be properly screened from flys.

- 5. The appointment of an experienced plumbing inspector.6. The providing of an efficient home for contagious diseases, with modern equipments and trained assistance.
  - 7. The providing of grounds for receiving and destroying general refuse.

All of which is respectfully submitted.

# REPORT OF THE SECRETARY, J. A. PAY.

I beg to submit herewith my annual report from November 15th, 1913, to November 15th, 1914, inclusive.

Attached to the report is a list of all deaths and their causes during the year, as returned by the medical attendants; also a summary of their ages at the time of death. The diseases classed as contagious were very few, as shown below:-

Diphtheria		
Scarlet fever		
Tuberculosis		
Chickenpox		
Typhoid fever		
Erysipelas		
Measles	1	44
Whooping cough	1	44
Total	52	66
Last year	115	6.6

- 514 births were reported, being an increase of 99 over last year.
- 236 marriages, being an increase of 35 over last year.
- 276 deaths, being an increase of 17 over last year.

#### AGES AT TIME OF DEATH.

	Still born and premature Under 1 month 1 month to 6 months 6 months to 1 year	39 15 22 9
	1 year to 2 years	5 6
*	5 years to 10 years	3
	10 years to 20 years	8 22
	30 years to 40 years	24
	40 years to 50 years	18
	50 years to 60 years	32 33
	70 years to 80 years	22
	80 years to 90 years	18
		276

The population last year as returned by the assessors was 16,025, and this year 17,296, being an increase of 1,271.

In proportion to the population the death rate is low, being 15.95 per thousand, which

will compare very favourably with any city of our size in the Dominion.

The garbage collection is giving very good satisfaction, very few complaints being received, and in most cases the fault is more the householder than the collector. All houses should have proper receptacles. The amount of garbage taken from the city daily is no doubt a factor in the health of the city.

During the past year a large area of the city has been supplied with good sewers

and a large number of outside vaults have been removed.

The sewers laid and sizes are as follows:—
17,545 feet of 10 in., 5,917 feet of 12 in., 3,374 feet of 15 in., 2,976 feet of 18 in., 398 feet of 20 in., 308 feet of 24 in., 746 feet of 30 in., 375 feet of 12 in. cast iron, making a total of 31,639 feet, or 6 miles.

# WINDSOR.

# DR. G. R. CRUICKSHANK, M.O.H.

I have the honour to present the annual report of the M.O.H. I beg to thank the Board for the hearty support it has given the M.O.H. in his endeavors to carry out its direction.

As one of the principal duties assigned to the M.O.H. was re-organization of the department, he begs to report upon this, and afterwards in detail upon the care of

communicable diseases under the following heads:

(1) Programme of Work. (2) Machinery and Officials. (3) Inspectors and their duties. (4) Smallpox. (5) Diphtheria. (6) Scarlet Fever. (7) Tuberculosis. (8) Typhoid. (9) Other Communicable Diseases. (10) Education of the Public. Recommendations.

### PROGRAMME OF WORK.

Our chief duty is to prevent the spread of disease (1) by quarantining those infected and giving off contagion; (2) by limiting and destroying contagions such as is contained in tubercular sputum and typhoid excreta and by increasing the immunity to special disease as is done for smallpox; (3) by vaccination, and for diphtheria; (4) by antitoxin and by increasing the immunity of the race by (a) adding to their vitality and vigor with pure air, pure food and sane ideas of living by aid of (5) plumbing (b) food inspection, and (7) sanitary education.

At the commencement of the year we had one somewhat antiquated smallpox hospital without water or sewer, one sanitary inspector under our direction and one plumbing inspector nominally directed by us. Our garbage was dumped by the

Board of Works on vacant lots back of the city. It was at once directed to burn all garbage in an incinerator and while this was being built the Walkerville incinerator took care of our garbage. The Windsor incinerator, built at a cost of \$24,000, was finished August 1st. In October 853 loads of garbage were disposed of, as well as horses and cows. This is under the management of the Board of Works, whose alley inspector has charge of ten wagons, and is doing a very efficient work. We had no office nor records except those in the office of the city clerk, who acted as secretary of the Board, and these consisted of minutes of the B.O.H. meetings and the contagious disease book. Mayor Howell placed at our disposal his room in the City Hall, where we meet inquirers, and keep records of all inspections. As many health regulations had been violated for years, such as the use of privy vaults on sewered streets, it was decided to add another inspector to look after matters of this kind, also to appoint a meat and milk inspector.

# INSPECTORS AND THEIR DUTIES.

Our four inspectors with the M.O.H. meet in the City Hall every morning from 9 to 10 to hand in reports in writing of all work done by them on the preceding day and to plan work for the coming one. A map of the city is kept on the wall with

colored pins indicating the number and places of contagious disease.

The Inspector of Quarantine in receipt of a notice of contagious disease at once establishes a quarantine strictly according to regulations, enquires carefully as to the source of contagion, inspects the premises, plumbing, closets, yards, and alleys, enquires where their milk is procured. This report is made in writing and is filed in our office. The milk record is entered in the card index to assist in tracing the source of contagion. If the milk is suspected the vendor must furnish a certificate of health from the M.O.H. where the dairy is situated. His duty is also to disinfect as directed by the M.O.H.

It is legally enjoined upon the Board of Health to supply necessaries for quarantined families in cases of poverty. In order that charity may not be duplicated or wasted in addition to our own investigation the president of the Home of the Friendless is communicated with. No charity is dispensed without her approval.

The Sanitary Inspector of nuisances investigates all complaints and reports in writing. This is entered in a card index so that at any minute we can turn to the inspection of any premises. He enforces the law as directed, condemns houses, causes delinquents to appear in court. All complaints are strictly confidential; all are fully investigated, the reports made in writing and the names of the complainants kept

absolutely secret.

This sanitary inspector made a sanitary survey of the city, especially with reference to privy vaults and stable manure. There were at the beginning of the year 176 houses on sewered streets not connected with the sewer, and 46 where no sewer exists. In all these cases open vaults were used. So far 99 have been forced to connect with the sewer and 14 have been made to substitute dry earth closets. Seventy-six open vaults still remain on sewered streets. This is due to the extension of sewers on streets where old houses used vaults and owing to poverty and hard times we were unable to compel the improvement so far. As to manure piles about 125 exist, and not one was fly proof. We have difficulty in disposing of this, as farmers do not seem to want it and our incinerator is overtaxed. Much improvement has been brought about. We have asked the Teamsters' Union to allow us to talk the matter over with them. These two inspectors are permanent and are liable for any duties that may arise.

The Plumbing Inspector is a practical plumber, who insists upon plans and specifications of all drains and plumbing, issues permits and thoroughly inspects the work. These plans are filed and make valuable records as to the position of drains, traps and pipes. One instance will show the necessity of this work. A child died of tuberculosis in a fine looking house on one of our best streets. A sanitary inspector, in his line of duty, inspected the premises and disinfected. He reported an unsanitary basement and notified the owner. After two weeks another inspection showed that nothing effective had been done, and a third inspection had a like result. The inspector then advised that the house be condemned as unfit for habitation. Before taking such a serious step the Plumbing Inspector, the Sanitary Inspector and the M.O.H. went together to suggest a remedy. The owner did not build the place and he told us that three firms of plumbers had already tried in vain to remedy it. No one could find out if there were pipes or traps or where they were. In the future no such contingency can arise in any place newly constructed or repaired.

The Meat and Milk Inspector inspects all meat shops at least once a week, criticizes the stores, condemns and sends unfit pieces to the incinerator, and brings delinquents before the police court. He also, with the Sanitary Inspector, examines

and condemns on the market and in stores all unfit goods, such as fruit, vegetables and eggs, and sends them to the incinerator. All criticisms and actions are reported in writing and filed in the city hall. All milk is analyzed and reported upon at least once a month. When our new milk by-law becomes law more stringent regulations will apply to all dairies and milkmen will be advised about the keep of their milk and cows, and advice as to feed, based upon analysis of the milk, will be given.

#### SMALLPOX.

There is no smallpox in Windsor to-day, but we had our isolation hospital occupied almost continuously from March 23 to September 11. In all 19 cases there were no deaths. This has been a very expensive item, as it is difficult to secure a caretaker and nurses to be locked in for an indefinite period, especially as there is neither sewer, water, nor gas in the building. During the early months our help cost us \$15.00 a day; later other help quite as good was secured for \$6.00 a day. Water is hauled at \$5.00 a load. Patients are not willing to go to this hospital, but we promise them every comfort and no expense and keep our word. Formerly we furnished groceries and medical aid to families quarantined. We still furnish this if asked, but collect afterwards every cent expended if the families are able to pay. This necessitates a better system of checking expenditure. Sewer, water and gas are promised us this fall.

The source of contagions was in most cases unknown but one, a very severe case, thought he caught it from some South American gypsies detained by the Emigration authorities. The M.O.H. of Rochester township directed us to a family exposed in that township. The children in the family should attend St. Alphonsus school. Fortunately they had not been attending, for on inquiring we found there 186 unvaccinated children. I examined all the children in the school and went from house to house to examine absentees and found none infected.

# VACCINATION.

Our rule requiring all children to be vaccinated before entering school had not being rigidly enforced. The Board of Health published a notice insisting upon this requirement and appointing time and place for public vaccination for those who did not wish to employ their family physician. This required six Saturday mornings, and 733 were vaccinated successfully, only seven failures occurred and there were very few sore arms. This work was done with very great care to ensure asepsis and to educate the children why and how to get it. It was impressed upon them that vaccination would not cause a sore arm if other germs did not get into the abrasion.

to educate the children why and how to get it. It was impressed upon them that vaccination would not cause a sore arm if other germs did not get into the abrasion.

Five amateur nurses were selected among them, showing how to sterilize their hands, and each appointed to a station and a duty. The Truant Officer admitted the patients at the door with arms bared. The first nurse washed with soap and water, the second with clean water, the third dried with clean cotton and the Sanitary Inspector scarified with a newly boiled needle. The M.O.H. applied the vaccine, the fourth nurse applied an antiseptic bunion plaster as a vaccine shield, the fifth fastened it on with a strip of adhesive. The shield to be removed in three days. No water, cotton, needle, vaccine or anything that touched one patient was allowed to touch another and the result was very satisfactory. Next Saturday certificates were issued. No vaccinated child ever had smallpox in Windsor.

#### DIPHTHERIA.

During the past year 96 cases of diphtheria occurred and six deaths, and sixteen cases are quarantined at present.

A rumor that there were some suspicious sore throats in the Mercer Street School was confirmed when one of the teachers became infected. An investigation was made and swabs taken from all suspicious throats in the school and neighborhood and sent to the government laboratory in London.

One family across from the school thought they had a common sore throat, but it was diphtheria and in the school four pupils apparently in the best of health were found to be diphtheria carriers. Similar investigations were made in the Collegiate and in Park Street School and no carriers found. A child with a suspicious sore throat is sent to the M.O.H. by the teacher, a swab is made and sent to the laboratory for a report. This means the child is detained from school three or four days. These investigations take a great deal of the M.O.H.'s time and should be done by a nurse. Diphtheria and scarlet fever are usually spread by those so mildly sick that they do not know they have it. We should have a laboratory of our own and get results in one day.

We have made liberal use of the antitoxin purchased through the Provincial Board. We furnish the 1,000 units packages free and to date have given \$30 worth and have sold \$30 worth besides. The antitoxin is very satisfactory and effective.

#### SCARLET FEVER.

During the past year 52 cases were reported; no deaths, and there are four cases

quarantined at present.

As there is no laboratory diagnosis for scarlet fever the M. O. H. insists upon teachers sending all pupils with sore throats to him for examination. In June last so many cases occurred in the east end of the city that the M. O. H. got a list of all absentees from school, made a house to house examination, and discovered two unrecognized cases. The inconvenience of quarantine induces people to conceal their cases. If we had a scarlet fever hospital this could often be avoided. For instance a family with a small store can hardly be condemned for avoiding a placard on their door.

### TUBERCULOSIS.

Only twelve cases have been reported and thirteen deaths.

Improved conditions of living and a better knowledge of contagion are helping. The Daughters of the Empire have established a sanitarium at Union-on-the-Lake that is doing much to prevent tuberculosis as well as cure it.

#### TYPHOID FEVER.

Eighty-one cases were reported; eighteen from other municipalities; five deaths; and twelve at present.

The water is chlorinated as directed by the Provincial Board. There is apparently

at times carelessness with this and an occasional excess of chlorine results.

If all typhoid excreta were disinfected according to regulations the international waterways would not be typhoid bearing, granting no carriers escape detection.

# OTHER INFECTIOUS DISEASES.

No Leprosy, Bubonic Plague, Cholera, Anterior Polio-Myelitis, Cerebro Spinal Meningitis, Glanders, Anthrax, or Rabies occurred the past year. A few cases of Measles were reported, but no other of the communicable diseases, except those above

It seems difficult to get physicians to report in writing, so that we are receiving reports over the telephone.

# SANITARY EDUCATION.

The Board of Health has been issuing a Health Bulletin, edited by Dr. McCabe, which is doing much to increase public interest and knowledge in these matters.

The M. O. H. and Sanitary Inspector spend much time in explaining the reasons

for our work to school children and others.

Addresses are given where opportunity occurs and the local papers are always willing to publish helpful items.

### RECOMMENDATIONS.

1. The smallpox hospital should be furnished with water, sewer, and gas. 2. Isolation hospitals for scarlet fever and diphtheria should be provided.

3. A local laboratory for the examination of diphtheria swabs, tubercle bacilla and milk should be established.

4. A school nurse should be appointed.

5. It must be impressed upon property owners that before any drainage or plumbing is done a permit must be secured.

6. The Garbage Department should be under the direction of the Board of Health.

#### WOODSTOCK.

### DR. C. M. MACKAY, M.O.H.

I herewith submit the Annual Report of the Health Department for the year ending November 15th, 1914.

There were 216 births registered in the city during the year.

There were 124 deaths (exclusive of still-births), which gives us a mortality rate of 11.9 per thousand population as compared with 13.6 per thousand for 1913. Excluding non-residents of the city, who came here for treatment, and whose deaths are included in the foregoing, the rate for the city would be 11 per thousand.

Deaths were due to the following causes:

Convulsions Chronic Bright's Disease Phthisis Cancer Abdominal Tumors Pneumonia Arterio Sclerosis	6 3 10 2 11	Acute Bright's Disease Pernicious Anemia Premature Birth Meningitis Railway Accident Bronchial Asthma Erysipelas	3 2 2 2
Arterio Sclerosis	23	Erysipelas	2
Septicaemia Heart Disease		Gall Stones	
Cerebral Hemorrhage		Gangiene	-21

One from each of the following causes, i.e., inflammatory rheumatism, angina pectoris, appendicitis, laryngitis, tubercular peritonitis, atelectasis, intestinal obstruction, cerebro-spinal meningitis, septic meningitis, paralysis, paralysis of heart, leukemia, perforation of stomach, haemophilia, intussusception, eclampsia, acute alcoholism, senile dementia, chronic bronchitis, cholera morbus, malnutrition, and suicide.

The deaths occurred between the following ages:

Still-born	11	From 40 to 50 years	9
Premature		From 50 to 60 years	
Under 1 year	6	From 60 to 70 years	
From 1 to 5 years	4	From 70 to 80 years	20
From 5 to 10 years	2	From 80 to 90 years	18
From 10 to 20 years	6	From 90 to 100 years	2
From 20 to 30 years	5		
From 30 to 40 years	9		135

It is gratifying to report that the mortality during infancy and early childhood has decreased considerably, i.e., from 22 in 1913 to 10 for this year.

# COMMUNICABLE DISEASES FOR 1914.

Disease	Nov. 1913	Dec. 1913	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Whooping Cough Scarlet Fever Typhoid Measles Erysipelas Mumps	1 1 					1			1 		1 1	1 1	1		9 11 4 3 3 1

Of this class of disease I am pleased to report that we have had a decided decrease

over the preceding year, viz., 31 cases, as compared with 109 for the preceding year.

There is still a laxity, I believe, in the reporting of communicable diseases, whooping cough and measles particularly, being neglected; the cases being so mild they are cared for by the mothers. This is, I believe, a great mistake, for, though the epidemic may be mild, the complications that so frequently follow are often serious and lead to dangerous results. I, therefore, as a matter of warning, wish to state that although a physician may not be called, the householder is equally responsible for reporting the case, and, according to the Act, should, within twelve hours of the occurrence of the

disease in his house, report the existence of the same to the Medical Officer of Health. I hope that this intimation will be sufficient notice that all future cases will be promptly reported, and thus we will be able to deal with any mild outbreaks before they become of any magnitude.

#### SANITATION.

Several new sewers and extensions have been made this year and 'a lane in the business district has been drained and paved, materially improving sanitary conditions

in that neighborhood.

The garbage system introduced last year is working very well, but will not be entirely satisfactory until an incinerator plant is installed. The present dumping grounds are a cause of more or less complaint in the localities in which they are situated, and I would suggest that, if an incinerator is not contemplated within the near future, the City Council secure a more suitable location for the garbage dumps.

The Sanitary Inspector reports that there are 1,300 outside closets in the city, a number of them in the congested parts. This is too large a number, and I would recommend that the local Board make an effort to have outside closets prohibited where

sewer connections are available.

Two houses have been closed during the year as unfit for habitation.

I would again call your attention to the request made in the report of 1913, i.e., that provision should be made for the inspection of plumbing.

I am pleased to report that a start has been made in installing hygienic drinking fountains, and would again direct your attention to the need of a public lavatory.

The Sanitary Inspector has not made a report as required by the Act, but a report of a partial inspection of some of the business places was submitted on April 4th, and a report on July 4th re some complaints made to him. I would recommend that frequent inspections should be made of premises where foodstuffs are handled and sold.

Dairles were inspected and reported on by our Veterinary Inspector as satisfactory.

The milk has been tested monthly and the reports published.

#### MEAT SUPPLY.

In the absence of Dr. Bentley, Dr. McNally, D.O.H. District No. 2, made an inspection of the slaughter houses from which meat is supplied to the City of Woodstock. Conditions were unsatisfactory in many instances, and in such cases the owners were ordered to clean up immediately. All vendors were given until May 1st, 1915, to comply with the Regulations of the Provincial Board, a copy of which will be placed in the hands of the parties interested, so that I hope by the time warm weather comes again we will have all slaughter-houses supplying the local trade in a fit and sanitary condition. Dr. McNally also suggested that to prevent the sale of diseased meat the head and hide of all animals not inspected at the time of killing should be submitted to examination by a competent person, before the meat is sold.

In conclusion, I wish to thank the members of the Board of Health for their co-

operation in dealing with matters of public health.

#### BARRIE.

# DR. A. T. LITTLE, M.O.H.

I hereby present to your Board my report for the year 1914:-Contagious diseases reported to your secretary are as follows: Scarlet Fever-47 cases; no deaths. Typhoid Fever-7 cases; no deaths. Smallpox-4 cases; no deaths. Chickenpox—22 cases; no deaths. Diphtheria—19 cases; 2 deaths. Tuberculosis-4 cases; 8 deaths. Mumps-9 cases.

Whooping Cough-5 cases.

All cases of mumps and whooping cough have not been reported to our secretary; so also tuberculosis.

Owing to the recent outbreak of diphtheria in the Sixth Ward among the school children, we deemed it necessary to close the school for a short period. The cases were of a mild type, and no deaths occurred.

Garbage collection has been carried out in a satisfactory manner; so also the other duties performed by Mr. Johnston and his men.

Our Sanitary Inspector, Mr. Hagart, has from time to time made careful inspection of our dairies, including the cow byres, the bottling kitchen, etc. He has had made milk tests from all the milk dealers in the municipality, and with few exceptions the tests came up to the standard.

A marked improvement is to be seen in the care of the slaughter-houses and also

in the marketing of the meat, both by the large and small dealers.

The refuse matter from our tannery has at last been taken care of. A sedimentation tank has been installed, which we hope will do away with our water pollutions from that source.

I would like to impress on your Board the necessity of a regularly appointed medical inspection of our schools, as recommended and carried out by many of our cities and towns. It would be of great service in stamping out outbreaks of disease, and also for the parents' knowledge of minor ailments from which the children may be suffering, as defects of vision, presence of adenoids, enlarged tonsils. A graduate nurse could be employed at a moderate salary to perform this work.

#### BRAMPTON.

## DR. W. D. SHARPE, M.O.H.

There have been during the year reported to me:-

Three cases diphtheria; all recovered. Two cases scarlet fever; both recovered.

Nearly 200 cases measles and no deaths.

Twenty-five cases chickenpox, no deaths; and numerous cases of mumps.

It was necessary to close schools in June and disinfect for measles and require certificates from all pupils as to freedom from contagion.

At Christmas Holidays the Public and High Schools were cleansed and disinfected. The milk supply of the town and its handling is not as it should be owing to the lack of a special milk by-law. I had one prepared, but it has not as yet been finally passed by the Council. I had some of the milk tested several times and it was only fair.

The water supply from the springs continues excellent according to Government official analysis of the samples sent down often. I had a number of wells tested and found them all contaminated. The slaughter-houses are not up to Government standard and will require looking after.

#### CHESLEY.

### DR. J. J. B. DOWNING, M.O.H.

I had my report prepared to November 15th, when unfortunately an outbreak of diphtheria occurred on November 8th, so I thought it better to rewrite my report and include in it the measures undertaken to combat the outbreak. I shall first deal with the period from November 15th, 1913, to November 15th, 1914, and then give in detail an account of the diphtheria outbreak from November 8th, 1914, to the present date.

1. From November 15th, 1913, to November 15th, 1914, there were reported:

13 cases of diphtheria.

1 case of tuberculosis (new).

1 case of measles.

1 case of typhoid fever.

During the same period there were 2 deaths from diphtheria, 2 from tuberculosis, and 1 from typhoid, or 5 deaths, altogether from communicable diseases. Taking the population as 2,000 this represents 1 death to every 400 of population from communicable disease—1/4 per cent. Two deaths occurred from diphtheria, no doubt owing to delay in calling assistance and having antitoxin administered promptly.

I am glad to say that tuberculosis is on the decline in Chesley. From 1912 to 1913 there were 10 cases reported, against 1 case only from November 15th, 1913, to 1914. During the year 1914 not a single case of tuberculosis has been reported. No doubt this is due to better sanitary conditions in the town and better care in handling of food. From May to November, 1913, there were no contagious or infectious diseases reported, with the exception of one isolated case of diphtheria, which fortunately recovered. A couple of suspicious cases occurred, which at first appeared to be typhoid but

were not. These were caused by bad water from wells, which I ordered closed up and town water installed in their place.

I should like to see the waterworks extended next summer so that everyone in

town may have the use of the town water, which is of excellent quality.

In the spring Dr. McNally, the District Officer of Health, in company with Dr. Houston, M.O.H., of Elderslie Township, and the members of the Elderslie Board of Health, made an inspection of the creamery and slaughter houses, as these are in the township, and therefore under the direct jurisdiction of the Elderslie Board, although I have power to see that they are kept in a proper condition. I was present when they made their inspection. The creamery was first visited and permission granted to Mr. Lackner to remain in his present position after complying with certain conditions. Mr. Lacker agreed to make certain alterations if he were allowed to remain for this season. However, Dr. McNally allowed him the privilege for this season, on condition that next year he will change the location to a higher and drier place.

The slaughter houses were then inspected. They were found in a fairly sanitary condition, with the exception of having the place where their hides are kept communicating with the interior where slaughtered beasts are hanging; also a few fly screens were necessary. These defects have since been remedied and our slaughter houses are now in a satisfactory sanitary condition. I think our butchers are very careful now in the handling of the meat. From the time an animal is slaughtered now until it reaches the butcher shop every care is taken. The slaughter houses are flyproof, screens being on all the windows. Then the meat is wrapped up and brought

to the butcher shop, where there are screen doors.

This is quite a different condition from a few years ago, when no screens on doors or windows existed, and no care was taken by wrapping the meat to keep dust and flies out.

I wish the bakers would be more careful in handling their bread. If the bread were wrapped in paper it would be a good measure.

I have asked the Council to pass a Milk By-law, as recommended by Dr. McNally.

I wish you would attend to this if you have not already done so.

Your Council brought before my notice the fact that the Grand Trunk Railway was keeping a nuisance at the station, which they had promised to remedy. The Council had sent several letters to the Grand Trunk Railway which the latter had never answered. You asked me to take the matter up, which I did. I received two or three evasive replies from them also, when I wrote to Dr. McNally, District Officer of Health.

As a result they removed the nuisance and installed water supply and sanitary closets at the station. They did not put in the wash basins this year owing to the financial stringency, but have promised to do so when times are better. However, the water supply, etc., are the most important, both for their own employees and the

travelling public.

I am glad that this Council was able to negotiate the purchase of land suitable for a dumping ground. Several preceding Councils had attempted this, but people who owned ground suitable refused to sell or asked too much for it. The property you were able to get this summer is well suited at the bottom for a dumping ground to which you have made a road, while the hill is full of rock, which will be fine to put through the crusher to be used on the streets, so that you can put your purchase to two good uses; namely as a dumping ground and to get material with which to fix the streets. Moreover, as it is on the outskirts of the town it does not offend the eye, as in the past when garbage was dumped on the river bank.

On the whole, gentlemen, there is a marked improvement in the town this year. In some respects there is room for improvement. For example, the sewers might be flushed out oftener to prevent disagreeable odors, and householders should burn papers, etc., instead of having them flying around their yards and on the streets. The Council should see this is done. However, this Council has done well this year, and I trust next year's Council will aid me as much in carrying out provisions for sanitation.

This is the report I had ready on the 15th of November, when I thought it better to wait and include in it the measures undertaken to combat the outbreak of diphtheria.

2. On November 8th I discovered a case of diphtheria and quarantined it. I then asked the Principal of the Public School to report to me each day the names of all those who were absent for two days or over and insist on such absentees coming to me for examination. In case everything was satisfactory I gave them a certificate permitting them to return; if not, I sent them home. This was done and is still being carried out thoroughly. On November 10th another case occurred, and on the 16th of November another, and on November 20th two more cases broke out, when I deemed it advisable to close the public school in order to have it thoroughly fumigated and cleansed.

A meeting of the Board of Health was called to discuss the matter and the Board unanimously endorsed the measures I had taken and passed a motion to employ two women to thoroughly scrub and cleanse the school with antiseptic solutions, and also another motion was passed to employ a nurse in the school and visit the homes of the absentees as soon as school was reopened. I kept school closed from November 20th to November 30th, when no new cases having broken out since November 24th I thought it would be safe to let the school reopen. During the epidemic the Sunday schools were also closed.

On November 30th school was reopened with Miss Vanatter in charge, since which time no new cases have occurred, and the school is now going very well and large numbers of the pupils have returned to school. Every pupil who has been away has to be examined by me before returning. The work done by the nurse is excellent, and her report is very interesting as regards the condition of the mouths, noses and throats of the pupils. Adenoids, enlarged tonsils and defective teeth are common, as I have found out in examining their throats and mouths. Miss Vanatter's report goes over it very thoroughly and is of great value to me as Medical Officer of Health. I wish the School Board could see its way clear to employ a school nurse, as the efficiency of the teaching staff would be increased. During the last month or more the attendance has been about one-half and the teachers have to mark time so as not to get too far ahead lest those who have been away for some time may be unable to catch up with their Miss. Vanatter's report sets forth the conditions existing among the pupils, and it is the duty of the parents to see that defects in the noses, throats and mouths of their children be corrected. Children with defective teeth and enlarged tonsils and adenoids are not only a menace to themselves but to other scholars, owing to the liability to contract communicable diseases. I spoke to our dentists, who have consented to give clinics on the care of the teeth. I trust, therefore, that the School Board will take up this matter at their next meeting. At the same time, I would like to draw the attention of the Board to the condition of the school. On several occasions when I have been there I have found the lavatories in a dirty condition, and also some other parts of the school. The basins and closets should be kept in a more sanitary state. I wish the School Board to see that the existing conditions are remedied. Trusting the Council, through its Secretary, will draw the attention of the School Board to this matter. I herewith close this report.

### COCHRANE.

# DR. E. G. VERNON, M.O.H.

There occurred in the Town of Cochrane, during the year ending November 15, 1914, 25 deaths. This is a decided improvement over last year's list of 41. Dividing the deaths into groups according to the ages, we find that 6 were premature births, 5 still-births, 9 under the age of two years, and only 5 over the age of two. It will be seen that the greater number of deaths occurred before the second year of life.

During the year there was one death directly due to tubrculosis, while last year there were four. This is very encouraging, as we are all glad to see a decreasing number claimed by the white plague. Pneumonia following measles claimed two deaths, while pneumonia without complications was one. Marasmus and ilio-colitis four, convulsions one, heart failure two, one of which was a blue baby; pyosalpinx one, accident

one, and pericarditis one.

There were reported during the year 171 cases of measles with three deaths. In each case pneumonia was the complication. One case of typhoid was reported but was very mild. We are all very glad to know that typhoid was not so prevalent as last year. Four cases of erysipelas reported, no deaths. No cases of scarlet fever were reported. Two authentic cases of diphtheria appeared in the town and suspected cases which were placed under quarantine until definite returns from the Provincial Board of Health, Toronto, could be received. The local Board of Health of the town had a sufficient stock of diphtheria anti-toxin purchased for the citizens of the town in case of a severe outbreak of the same. We are very glad to see the care that separate individuals of the town have taken on their own account to protect themselves and prevent the spread of the disease.

The purity of the town water supply during the late summer months was not up to the mark, as several samples taken from Spring Lake showed the presence of bacteria of intestinal origin. That taken directly from the springs being up to the mark in every test. This goes to show that the town should in future take steps to have their full supply from the springs alone, as I understand, that if properly tapped, they will supply water in abundance for the town's use. Cows that occasionally strayed on the slopes leading down to Spring Lake were thought to be the cause of the contamination found in the water, a result of the heavy rains washing down the intestinal material into the lake. Warnings were issued, through the kindness of the press and also by cards placed

at the water taps, to boil the water. The intestinal bacteria which were found in the water was the cause of these notices. We hope that this contamination is not partly due to the sewage from the town sewer; if from it we should have expected more than on case of typhoid fever in the town. Last year we hoped that ample fresh spring water would be supplied when the large points were driven at the springs, but the same condition still exists.

Several samples of milk were tested and proved very satisfactory, all containing

more than the required percentage of butter fat.

The scavenger system for this year has been worked in a different way, each citizen being responsible for himself. We will yet have to see the success of the same when next spring comes. A proper enclosed wagon should be employed for the removal of residue from closets and that at night time.

Rigid orders were again enforced this year by Dr. George, the District Medical Health Officer, during his spring inspection of all foreign boarding houses of the town. The work was very effective and the sanitary condition was much improved by

reducing the overcrowding which is so prevalent among the foreign element.

The changing of the dumping ground was a good move towards the protection of the springs in that area, as they are part of the system from which the town spring water is derived. The extension of the sewer would further protect the same chain of springs and also prevent sewage contamination of the present water supply. The level of the water in Spring Lake from which part of the town's supply is taken is five feet lower than the small lake into which the sewer empties, with but a narrow ridge of land between. In the last four or five months water samples have been sent to Toronto at short intervals, and all the later tests have shown the water of Spring Lake to be contaminated with bacteria of intestinal origin. There must be an underground current through this ridge of land between the two lakes, which is more than likely, as the water is five feet higher in the infected lake. If the sewer was extended it would carry the sewage far below the level of the water in Spring Lake and thus protect the town's source of supply. According to the arrangement with the Provincial Board of Health, the town, when allowed to take water from the springs and Spring Lake, promised to extend the sewer to Marshy Lake as a protection to the present springs.

During the year there were 142 births in and about the Town of Cochrane, as compared with 86 last year and 106 the year before. There were 11 marriages, as

compared with 15 last year.

I wish to thank the other members of the local Board of Health for their kind assistance in matters concerning the health and welfare of the town.

## REPORT OF THE SECRETARY, H. J. BROWN.

Report of the Secretary of Cochrane Local Board of Health. Proceedings and work of the Board to be submitted along with the Medical Officer of Health's report to the Secretary of the Provincial Board:—

At the beginning of the year 1914 the following persons were identified with the Board: W. J. Bauldry, Chairman; Dr. E. G. Vernon, M.O.H.; Albert Taylor, Mayor; Thos. Portland, Sanitary Inspector. Owing to the resignation of W. J. Bauldry, the Chairman, during the forepart of the year, Mr. D. Kertzer was appointed by Council to the vacancy.

Seven meetings of the Board were held during the year, and in addition to these

several committee meetings.

The prevalence of measles in the town the first part of the year was responsible for a good number of the committee meetings. The advice of the Board on certain cases was sought at different times in this regard. The general sanitary condition of the town was always a matter which was spoken of at the Board meetings and through instruction to the Sanitary Inspector as well as personal inspections of the Board and the assistance of the District Health Officer, Dr. George, conditions were kept as well as could be expected considering that there was a large foreign element in the town.

Attention of the Board was given particularly to the dairies and bakeries, the different concerns were ordered to use a different system of tickets, which no doubt

had its good effect, and a strict watch was kept as to their cleanliness.

Reports of the town water were submitted by the M.O.H. to the Board regularly. During the summer the members of the Board made an inspection of the town's water supply and through representations of the Board to the Town Council certain improvements were made to Spring Lake and surroundings, which now make matters much more sanitary.

The disbursements in connection with the Board of Health for the year amounted to \$255.60 in addition to the M.O.H.'s salary, \$200.00. Considerable of this expense was due to the cost of supplies needed for fumigations of the numerous measle cases.

The last part of the year saw two or three cases of diphtheria in town, but owing to the prompt action of the Board the same was not allowed to spread, and the town has

now no such cases. Through the efforts of the Board quantities of serum were secured for use in case of a general outbreak, and same could be supplied to parties requiring it at first cost.

In every case where it was possible the members of the Board were always in regular attendance at the meetings and where matters affecting the health of the town were before the meetings a keen interest was taken.

#### FORT FRANCES.

DR. HUGH W. JOHNSTON, M.O.H.

During the year just passed the Local Board of Health have had to meet two serious

outbreaks of smallpox, and one minor outbreak of scarlet fever.

The first outbreak of smallpox occurred during the months of December, 1913, and January and February, 1914. This outbreak was confined to fourteen cases, and that it was so confined was due to the efforts of local health authorities, aided very materially by the presence and advice of Dr. Wodehouse, Provincial Medical Health Inspector of District No. 7.

It was found necessary during this outbreak to close the schools and several

places of amusement and enforce a general system of vaccination.

The second outbreak occurred during the months of October and November, 1914, and was confined almost without exception to children of the separate school, or to those who came in contact with them. None of those who were attacked by this disease at this time had been vaccinated in the early part of the year. The number of cases was nineteen.

During the month of June, an outbreak of scarlet fever numbering five cases

occurred.

Outside of these outbreaks the general health of the community during the year has been very good. The efforts of the Local Board to keep the town in a sanitary

condition have met with a very fair measure of success.

Perhaps the greatest difficulty encountered by the health authorities during previous years has been the disposal of garbage. The Local Board of 1914 met with the same trouble during the spring of the year. It is now confidently anticipated that this difficulty has been overcome by the construction of an incinerator during the fall of this year by the Municipal Council. No less than five horses have already been consumed in this incinerator, and the work was done in such a thorough manner and at such a trifling cost as to warrant the statement that no difficulty should be encountered in the future in the matter of garbage disposal.

During the early months of the year, an effort was made to have sewer and water installation adopted entirely within that portion of the town served by these systems.

This effort was only partially successful owing to two causes:

1. A number of houses were in such a condition as not to warrant the installation water closets.

2. The financial stringency, aggravated by war conditions, made it impossible to force the installation.

Tests of milk furnished to the residents of the town by the dairies have been made from time to time, both for sediment and butter fat. With one exception the tests prove the milk of good quality and free from sediment. The tests for butter fat ranging from 3.1, to 4.2. Tuberculin tests of the cattle from which the milk was obtained were also made, all being reported healthy.

Following are the vital statistics report for the year:—

Quarter.	Births.	Marriages.	Deaths.	Total.
First Second Third. Fourth	21 26 46 23	10 18 11 15	12 19 9 15	43 63 66 53
Totals	115	54	55	225

Contagious	Diseases reported during the year:	
	Typhoid	
	Smallpox	
	Scarlet Fever	
	Diphtheria	1
		205

OUTBREAK OF SMALLPOX AT FORT FRANCES, ONT., 1914.

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Remarks.	Placed in care of Mrs. Currie, 3273		Patient sent to	H. O. McKenzie Placed in care of Mrs. Carrie	Placed in the Pest	House.	Care of mother.	Cases discovered	late.	D. C. McKenzie'ln care of Mrs. Robt. Moore H. W. Johnston
Name of Physician attending.	Quaran-R. Moore	H. W. Johnston D. C. McKenzie	H. W. Johnston Patient	D. C. McKenzie	•	H. W. Johnston	Ĵ	* *		D. C. McKenzie Robt. Moore H. W. Johnston
Method of Quar- antine.	Quaran- R. tine by		:	: 1	io us	::	:	: :	: : :	::
Inmates attend- ing school.	ಣ	-000		ಣ	:	77	-	— ss	moo	0-
No. of in- mates.	10	ကဆားမှာကေ	:	∞	:	10 D	ιū	rr 20	<b>~</b> ¬	က
Where exposed.	Winnipeg.		or W. farm	•		Separate school	Sleeping with brot'r	son previously removed From brother (above)		
Date of probable exposure.	Sept. 20-25th . Winnipeg	Sept. 24th Sept. 23rd Oct. 1st		Oct. 2nd	Oct. 4th		30-10-14 Oct. 12th	0et. 11th		Nov. 14
Date of appearance of rash.	15-10-14	S-10-10 7-10-14 14-10-14 14-10-14		16-10-14 Oct. 2nd	21-10-14 Oct. 4th	10-10-14	30-10-14	1-11-14 not exactly known	abount 9-15-14 5-11-14 12-11-14	28-11-14
Disease,	Typhoid	::::	Typhoid	M Third St. E. Small-pox		u *	•	: :	Butler 625 Scott St. Searlet-fever Scott St Small-pox	4
Residence.	509 Mowat. Typhoid 233 Sinclair. Small-pox	327, Second. 5261st St. E. Scott St	Monarch Htl. Typhoid .	Third St. E.	M Portage Ave.	Nelson St	Second St	First St	Butler 625 Scott St	518 Nelson 1018 Scott
Sex.	MFF	MAFM	M	M	M	도 :	M	₹ :::	MFE	FE
Аде.	141	5510	25	-7	25	10 14 m	16	5 m m 5	0 + 82 28 + 82	91
Name of Patient. Age, Sex.	Chas. Carlson Leblanc, Orris Leblanc, Isabel	Currie, Donald Dwyer, J. J Cousineau, Dora Cousineau, Harold.	Collins, C	Boileau, Leo	Haley, John	Gagne 10 Boulanger, Baby 14 m	Currie, Ed	Dwyer, John  Boileau, (3 children)	Grinsell, J. Cyr. Inez Pellitier, J	Robin, Mrs. L. Stewart, Richmond 16

OUTBREAK OF SMALLPOX DEC., 1913 AND JAN., 1914, FORT FRANCES.

 														3C
Commonts.			Remained at home. Finnee of Reynolds.	Father of Minnie.	Cousin of Minnie.	Father runs planing	Practically whole	course underected.				Near boarding house.	Works across river	with Durant's friends
Quar, methods,	Detained in house.	Taken to pest house.	d at home.	*	•	u d	•	*	*	us ve	•	4	u u	*
Quar.	Detained	Taken to	Remaind	,	,	•	9 9	*,	•	*	•	*	,	:
No. of cases.	27	2)	श	ก	_		ro	ಬಾ	ro	13	ro	_	ಣ	•
No. of inmates.	7	7	ಚಾ	73	9	4	7	7	2	7	7	70	7	:
Name and place No. of where exposed to immates, infection.	Dec. 22, 1913 Dec. 19, 1913 Dec. 8, 1913 Beaudette	dan. 14, 1914 Jan. 12, 1914 Dec. 29, 1913 Reynold's house	" Thos. Reynolds	At home	Robt, Calder's house		1, 1914 Personal friends	" Infected at Interna-	tional Falls.	Dec. 15, 1913 Dec. 1, 1913		5, 1914	8 Probably Durant's.	
Probable exposure.	8, 1913	29, 1913	31	19	30	29	1, 1914	:	;	1, 1913	;	5, 1914	; .	
Pro	Dec.	Dec.	,	*	9 9	į	Jan.	·9 ·4	•	Dec.	•	Jan.	•	•
Date of appearanceof rash.	1913	1914	.:	3	4	9	*	9	19	1913		1914	22	:
Date of pearamed rush.	3. 19,	. 12.	3/1	\$1	9	27	14	15	16	. 15,	TG.	. 19,		
- Kil	3 Dec	4 Jai			*	*	-	*	:	Dec		4 Jan	•	
Report.	2, 191	4, 191	3	,, 9	* * * * * * * * * * * * * * * * * * * *	11	,, <u>L</u> I	Detected	•	ų.	,	2, 181	24	22
Rej	ec. 2	an. 1	<u>.</u>	9	, ,	;	;	Dete	٠	٠	•	Jan. 22, 1814 Jan. 19, 1914 Jan.	: 71	*
Sex.	M	<u>-</u> -	<u>F</u>	M	M	<u>F</u>	M	:	:		:	H	Œ	M
Age. Sex.	22	17	20	248	8	22	=	45	17	10	4	4	:	
Name.	1 Reynolds, Thos., 24	2 Trader, Minnie., 17	2 Calder, Lizzie 18	Calder, Robt 48	3 Calder, John	4 Huston, Alice	5 Durant, Wm	:	;	***************************************	•	6 McGregor	7 Seoville, Mrs	8 Case from camp
House No.	1 1	. 2	2 (	2	:	4 1	ت ا					6 1	7	

# HANOVER.

### DR. E. T. EEDE, M.O.H.

The sanitary condition of the town in general continues to be satisfactory. No epidemics (except 15 cases typhoid) have occurred during the year. Inspection of the slaughter houses shows that considerable improvement has been made since the definitely traced; but is suspected to be the river water, which is known to be polluted dairies and herds are properly kept; but a portion of the milk delivered by the dealers is collected from different farms not under public supervision.

The school buildings were inspected and found to be neat and clean, and the ven-

tilating system in good order.

Improvement has been made in conditions along the stream through the town; but there is stil something to be done to bring the sewage disposal arrangements of

some of the adjacent houses up to the requirements of the by-law.

Fifteen cases of typhoid fever have been reported during the year, with two deaths. The cases were distributed fairly evenly over the town, except the southwest quarter, and throughout the whole course of the year. The source of infection has not been definitely traced; but is suspected to be the river water which is known to be polluted and which is carelessly used for washing cups and utensils, and occasionally for drinking purposes, in spite of frequent warnings.

The water from different wells has been tested and found free from bacteria.

### NORTH BAY.

# DR. EDGAR BRANDON, M.O.H.

I have the honor herewith to make my second annual report as your permanent Health Officer. In doing so I am pleased to report one of the healthiest years, in so far as the number of communicable diseases reported to my department. They are as follows:-

Diphtheria	10
Scarlet fever	44
Typhoid fever	3
Measles	12
Mumps	1
Chickenpox	7
Tuberculcsis	4
——————————————————————————————————————	
	81

Most of these cases occurred in the first few months of the year, so the most of the year the town has been free from contagious diseases.

## WATER.

During the year repeated examination of the town's water supply has shown the excellence of quality and freedom from contamination by bacteria of intestinal origin. This is further carried out by the record so far as typhoid fever is concerned—only three cases to our knowledge, and none being traceable to water infection. I vish, however, to warn the municipality that more and more each year Trout lake is becoming a health resort and a place for summer cottages situated along its shores, and this leaves our water supply more and more liable to sewage and out-house drainage and contamination. The vacant land along the shores should be bought up by the municipality to prevent such contamination and conservation for the town in future. If this land were now secured, which it could be at a low cost, we should then be in control of the shores and greater security and safety to our water supply would be The town should purchase a strip at least sixty-six (66) feet wide around the shore for a distance of at least three miles in order to gain absolute control. Our neighboring town of Sudbury is this year paying the penalty for neglecting to secure the land around its water supply. Some forty cases of typhoid occurred there this year due to contamination of their water supply at Ramsay Lake by summer tourists and cottagers living along its shores and adjacent lands. They are now considering

the expenditure of \$100,000 to secure a pure water supply. A somewhat similar occurrence took place at Timmins and Cochrane. Pure water is absolutely the first necessity, and essential to a town, and we have now one of the best in the Province, which can be very easily kept pure by judiciously expending a few thousand dollars in buying up the shore line for a few miles.

#### SEWERS.

During the year some advance has been made in the laying of needed sewers, but a great many districts still remain unsupplied, necessitating the use of outside closets

and cesspools, which are always a source of possible infection.

We are still of the opinion that a trunk sewer is an urgent necessity to the town. Beginning at Regina Street, where there is a two-ft. sewer, we would suggest going along Oak Street to Sherbrooke Street and sap the present Oak Street sewer, which would relieve the urgent troubles and blocking of cellars to the business and hotel sections. Then going up Sherbrooke to Worthington and along Worthington Street to Wylde Street and along Wylde to the corner of Second Avenue where the present storm sewer could be tapped. The present storm sewer from there on could be connected into a sanitary sewer. This would supply an immense area to the north and northwest sections. Laterals along many streets could be constructed to empty into this trunk sewer. Another portion of this trunk sewer should be carried along First Avenue to Fisher Street and out Fisher Street to Chippewa Creek, whence all that section could be made to drain as the fall all gravitates towards that point.

A two-foot trunk sewer would take care of a population of 50,000 people, hence

the east and northeastern sections would be given ample sewage outlet.

The construction of the Fourth Avenue sewer to Cassels Street from near Fraser Street was a much needed piece of work and will relieve a very unsanitary state. More sewers are needed in the foreign boarding house sections, as our experience of last winter and previous times teaches; in that they have a total disregard for sanitation and an outhouse or closet, by reason of the large numbers using, rapidly becomes a serious menace to the community. Repeated court proceedings and fines do not seem to influence their ideas and habits as to proper sanitary measures, and we are of the opinion that the foreign boarding house should be run under a license system; a license to be granted only after proper plumbing; lavatories and water closets are installed, these places to be under our supervision and license to be cancelled if sanitary conditions are not preserved and maintained.

# GARBAGE AND NIGHT-SOIL.

The collection of garbage and night-soil has been well carried out during the year. The town dump has been kept in as good shape as is possible without a man being kept there constantly, which should be done so that the refuse and garbage could be kept fired and smoldering constantly. Under my instructions the Sanitary Inspector has kept the excreta covered with earth to prevent fly infection; but it must be admitted our method of disposal is very crude and quite unsanitary. An incinerator is urgently needed, particularly for this purpose as well as for garbage disposal. As an alternative, until such is obtained, in summer, at least, some arrangement might be made by which the excreta could be turned into a properly constructed man-hole and flushed into the sewers, which could be constructed at certain well selected points in the town and the work could be facilitated and the danger lessened in summer by reason of fly transmission. There is no doubt but that our open method of disposal of excreta leaves us open to a serious outbreak of typhoid in summer as fly infection of food so easily follows. Sewers are very urgently needed on Jane Street West, to supply a rapidly filling district.

MILK INSPECTION.

The by-law passed by 1913 council gave us a very effective weapon which has conduced to much better surroundings and conditions for the production, care and disposal of milk in the town. Sixteen (16) dairymen registered with the town as being desirous of taking out a license. Five (5) only were deemed sufficiently up to requirements to be granted licenses. These were G. C. Smythe, Chas. Johnston of this town; and T. K. Purdon, Jno. Hogan and W. F. Clark of Powassan. The other applicants, notably three with large clienteles, are improving their dairy barns and have constructed milk houses to meet the by-law. Next year, if they do what they have agreed to do, they may be granted licenses; but failing to come up to the requirements they will be stopped from vending milk and prosecuted.

According to the statements made by applicants for license, they are supplying our town daily with about 2,500 quarts of milk. This does not take into account the

great number of smaller vendors who have but one or two cows and who do not register with the department. So it is easily seen why such an important food supply should be kept clean and wholesome. I have made repeated inspections of these plants along with Mr. White, and I must say that there is great room for improvement. One large producer and dairyman had a particularly unsanitary plant, and on both visits it was swarming with flies. This dairyman is under a signed undertaking with us to build an up-to-date dairy barn, capable of housing 100 head of cattle under the most improved conditions, with concrete floors, iron stanchions, and with good light and ventilation. Also to construct a new milk-house, which I am pleased to state he has completed and is now using.

We must proceed slowly, necessarily so, because the putting into shape of these plants requires money and time; and if shut off, a hardship would be imposed both upon the vendor and consumer alike. Nevertheless great improvement has resulted

this year, and we expect still further in 1915.

Only one herd is tuberculin tested, and it is a source of regret that the producers do not resort to this procedure, as statistics go to show that from 20 to 40 per cent. of all cattle are tubercular. An important test made this year in the city of Edinburgh disclosed the fact that 20 per cent. of all milk supplied that city was definitely tubercular. Dr. Hastings, M.O.H. of the city of Toronto, is authority for the statement that 40 per cent. of the producers' cows are tubercular. Yet this is a staple food and the only article of diet for a child during the first year and most of the second year. Do you wonder at the city of Toronto making it compulsory for dairymen to pasteurize all their milk before being allowed to dispose of it to private customers? The death rate in infants from intestinal troubles, in summer chiefly, reached terrible figures. In the District of Nipissing last year, according to the report of the Registrar General just to hand, there were 66 deaths due to diseases of the digestive tract; 46 of which were two years of age or under, and due to diarrhoea and enteritis. In the same group in the city of Toronto there were 958 deaths, of which 558 were due to diarrhoea and enteritis. In Port Arthur, 31 out of 59. Hence our desire to obtain a pure milk supply.

During the year we have examined samples of milk taken from the dairymen, and we found all more or less dirty. Filter discs disclosed manure, hair and filth to a surprising extent, showing great carelessness in milking, straining, handling and cleaning of utensils. These discs are kept on fyle at our office in the City Hall and any citizen is at liberty to see for himself. The butter-fat tests were all up to rerequirements. Bacteria counts were made by the Provincial Laboratory, the counts varying from 24,500 to 340,000 Bacteria per cc. Some of these were much too high, but others were quite low in counts. Only one dairyman was prosecuted, Geo. Thorn. The Magistrate took a lenient view of the case, stating that while he couldn't see how evidence could be brought to controvert the sworn evidence to the effect that his milk was dirty and produced under very dirty and filthy conditions, yet he thought it wiser to give the defendant a chance to improve conditions before closing him up. We are, therefore, looking for much-needed and necessary improvement in his product before

taking further drastic measures.

We have the beginnings of a Laboratory in the City Hall, but its equipment is very meagre, and we are inclined to the view that the council and citizens, too, are not sufficiently alive to the importance of the Health Department. The City of Toronto spends \$100-000 per year on its Health Department and is glad to do so. Towns our size are spending two and three times as much as we do. The cities Fort William and Port Arthur have each a fully equipped Department with the Health Officer giving all his time to the work. Mr. White has done splendid work as Sanitary Inspector, but has too much work to do along with his duties as Plumbing Inspector. Heretofore, the citizens have been at the mercy of the plumbers, with no competent authority to check them up and see that the work is done according to the by-law and in accordance with modern, sanitary ideas. Mr. White has been most zealous in correcting these mistakes, and I am certain the citizens are reaping good health and saving money by his inspections and supervision of plumbing. We propose to have the plumbing by-law changed so that a plan of all plumbing and proposed sewage disposal be submitted to our Department before being passed and sewer connection allowed or cesspool constructed. These would be on record at our office and always obtainable in future years if anything goes wrong or some change is desired. Another reason for this change is the fact that there is a disposition to use the storm sewers as sanitary sewers, which is distinctly against the laws of the Province and the town's by-laws. Sometimes the citizens are aided and abetted by the plumbers themselves, who know it is wrong and This could be prevented by a better system. To carry this out, Mr. White should be given an Assistant Inspector and stenographer part of the time at least. We are desirous of increasing the efficiency of the Health Department, and it cannot be obtained without more help and increased expenditure.

#### ORANGEVILLE.

# DR. T. H. HENRY, M.O.H.

I beg leave to lay before you the following report on sanitary conditions in the town for the year 1914.

There have been very few cases of contagious and infectious diseases, except at the beginning of the year. These, under careful inspection, isolation and disinfection were prevented from spreading, and in consequence we have had a year practically free from disease.

Following are cases reported: Typhoid fever, 2 cases in January, 1914; scarlet fever, 3 cases in February, 1914; chickenpox, 2 cases in January and February, 1914; diphtheria, 2 cases in September, 1914; tuberculosis, 1 case in March, 1914. All made a good recovery, except latter, and this case has improved.

The annual complaints regarding disposal of sewage on our streets and private property were very much in evidence. A petition has been circulated, asking the Town Council to take some action along this line, which is the only way such conditions can be remedied.

A complaint regarding the sanitary conditions of Booth's and Queen's Hotels was investigated in the early summer. This was attended to in a satisfactory manner.

## OWEN SOUND.

# DR. H. G. MURRAY, M.O.H.

I beg leave to submit my annual report for the year ending December 10th, being a brief résumé of the work done during the year, and à few suggestions for the future. Accompanying is a tabulated statement of the milk testing done during the year, Dr. Norton's report of the condition of dairies and producers' premises, and a table showing the number and kind of the infectious diseases prevalent in town during the year.

It is now possible, as the result of a year's experience, to estimate the value of the services Miss Wilson, the school nurse, is rendering to the Board of Health. Her report is attached and speaks for itself, but I wish to place on record my conviction that the nurse's work is invaluable to us, and to state that her duties are being most satisfactorily performed.

The work of the garbage collectors has been systematized, and I think I am safe in stating that there is practically no complaint whatever. I advise that the collection of ashes be continued during the winter, as only in this way can the sanitary condition of the dump be maintained. I was fortunate in securing from Miss Stephens her property on 1st Avenue East for the purpose of a dump. Sufficient space has been secured for at least two years. No expense is entailed, but at the same time a marshy and unsightly piece of land is made of some value to the owner. I believe that it does not constitute a nuisance to the property owners in the neighborhood.

Our Milk By-law is working smoothly, and I believe the quality of the milk sold is on the whole excellent. Slowly but progressively the premises of the producers supplying the dairies are improving, and it is now a matter of common knowledge among the farmers in the district exactly what we require, and a genuine desire is apparent to comply. Dr. Norton, the Dairy Inspector, is doing excellent work, as his attached report will show.

The record of the cases of infectious disease this year is fairly large. Fortunately the cases were of a mild nature and no deaths resulted. As I have mentioned in previous reports, our main difficulty in dealing with these diseases is the absence of an isolation hospital. Much as we need this. I see no immediate prospect of it being provided, and I feel that under present conditions it is the part of wisdom not to ask for it. It will do no harm, however, to keep the need of one before the public and to educate our citizens to the value of one. Scarlet fever was the most prevalent of the infectious diseases, and I regret to state 'hat a large number of the public have not yet fully realized their duty in the matter of reporting such cases.

yet fully realized their duty in the matter of reporting such cases.

The sanitary conditions of the town are better than at any previous time. The experiment of placing boxes at prominent points for the deposit of rubbish has proved most successful, and next year I hope to be provided with a number of garbage cans, placed throughout the main streets of the town, for the deposit of rubbish of all kinds. Mr. King has been most active in his work and is at the present time occupied with a sanitary survey of the town for the provincial authorities, a summary of which will be found at the end of this report. Acting on instructions of the Provincial Board of Health, a commencement has been made regarding the more sanitary keeping of stables in town. Manure must now be kept in flyproof and waterproof receptacles, built, in

preference, of cement. Practically all livery stables in town are now equipped, and next summer all private stables, at least those likely to become a nuisance, will be

notified to provide them also.

A survey of the waterworks system has been made this summer by Dr. Amyot, Provincial Bacteriologist, accompanied by Dr. McNally and myself. Dr. Amyot expressed himself as well satisfied with what he saw, but suggested that more efficient protection be given to our springs. Steps will be taken to bring this matter before your Board in the spring, to be dealt with in some manner.

New regulations issued by the Provincial Board of Health regarding the keeping of slaughter-houses are most stringent. The slaughter-houses used by the local butchers will require extensive alteration before they will measure up to the standard set by the Provincial authorities. Personally, I am in active sympathy with the desire to make every producer of foods have the equipment necessary to insure an absolutely clean product. For this reason I trust the local Board will agree with me that next spring these new regulations shall be enforced in their entirety, and at the earliest

possible moment.

Under the direction of Mr Chas. J. Pratt, the Plumbing Inspector, a large number of sanitary conveniences are being placed in houses previously without them. This is a very satisfactory method of improving the sanitary condition of the town. The amount of work done during the last few years in this department is readily shown by reference to the number of dry closets returned as cleaned by the scavengers. This year, although times were unusually hard, twenty-five owners were compelled to provide water closets on their premises. The total number of dry closets in town at present is 787, whereas three years ago the number was 933. This is a most satisfactory record. The work of the scavengers is done well; the numerous complaints heard at first are heard no longer.

I wish again to express to the members of the Board my appreciation of the value of their hearty co-operation in our work, and my thanks for their kindness in assist-

ing me in various ways.

#### CASES OF CONTAGIOUS DISEASES.

Months.	Scarlet Fever.	Diph- theria.	Measles.	Chicken- pox.	Typhoid Fever.	Whoop- ing Cough.	Mumps.	Totals.
January	15 6 8 6	1 1	1 2	1	1			20 10 11
April May June July August	1 2 3	1	1 2		6			1 4 11
September October November December	2 3 7				1			2 3 11
Totals	53	3	7	3	9	5	1	81

DEPARTMENT OF MEDICAL SCHOOL INSPECTION REPORT FOR THE YEAR ENDING DECEMBER 1, 1914.

# KATE M. WILSON, S.N.

Number of	inspections made	10,689
Number of	throats corrected	77
Number of	pairs of glasses fitted	58
Number of	complete fillings teeth	56
Number of	home calls made	256

# List of Infectious Diseases.

Scarlet fever cases	35
Diphtheria	
Scabies	
Impetigo	
Measles	4

Whooping-cough	36
Ringworm	5
Mumps	11
Eczema	3
Chickenpox	9
Pendiculosis	22

In connection with the medical school inspection work for the year just closing, I might say the response of the parents has been far beyond our anticipation. A large number of children have been referred to and examined by their family physician. It has not been found necessary in all cases to operate or even give treatment, but where it has been, the work has been done in nearly every case. Where defective vision has been found glasses have been fitted, and at the close of the year a marked improvement can be seen in the condition of the children, especially in the teeth. A large number have been looked after, fillings and extractions have been done, leaving the mouths in a healthy condition, with little fear of tubercular glands or stomach troubles resulting from unhealthy, decayed teeth.

In conclusion, I wish to thank the teaching staff of the Board of Education, also the opticians and medical men of the town who have so kindly given me their assistance during the past year.

# REPORT OF DAIRY INSPECTOR, R. J. NORTON.

Enclosed is the dairy report for the year 1914.

My inspection in the spring covered 43 places and 285 cows. This last month I have inspected 51 premises and 345 cows.

Regarding the condition of these several places I am pleased to report very favorably. I consider 90 per cent, of the places which have been under inspection are good, while 50 per cent, of the new places which have not been under inspection are poor. Some, as you are aware, were considered unfit and the delivery of milk was suspended. A great many of the poorer places I visited the second time in an endeavor to get them up to the standard and in this I succeeded fairly well. The mailing of those letters, as you did, had a good effect, as it reminded the people of cleaning up for the winter.

#### REPORT ON DAIRIES.

Dairy.	Lactometer Reading.	Fat.	Solids not fat.	Total solids.
Owen Sound Dairy Co	29.68 29.68 27.44 30.8	% 4. 4. 3.6 4.2	% 8,22 8,22 7,58 8,54	7% 12.22 12.22 11.18 12.74
Purity Dairy Co	30.8 29. 29.58 30.74	4.2 3.6 3.5 3.4	8.54 7.97 8.09 8.36	12.74 11.57 11.59 11.76
Mr. Kivell	29.68 29.	5.2 4.	8.46 8.55	13.66 12.55
Mr. Barber	29.58 29. 29.	4.2 4. 3.8	8.24 8.05 8.01	12.24 12.05 11.81
Mr. Johnston	29. 28.52 29.	3.6 4.6 4.	$7.97 \\ 8.05 \\ 8.05$	$11.57 \\ 12.65 \\ 12.05$
Mr. Walters	$\frac{30.74}{27.55}$	4.4	8.48 7.76	12.48 12.16

There have been a few new stables built this summer and a few new floors put in.
I would suggest that retailers be not allowed to buy milk from places not under inspection without first having your permission.

#### RENFREW.

### DR. JAMES T. MCCANN, M.O.H.

I have the honour to submit to you the report of the sanitary condition of the town and the Health Department for the year 1914.

There have been 12 cases of diphtheria, with one death; 1 case of chickenpox; 1 case of measles; 5 cases of scarlet fever; 5 cases of typhoid fever and 3 cases of tuberculosis.

It is a matter for congratulation that the past year has been so free from epidemics of infectious diseases. This is in no small degree due to the promptness with which these cases have been reported both by teachers and the profession. In this way unnecessary exposure at the schools is materially lessened, and as a result the number of children of school age absent from their classes on account of sickness is greatly decreased.

Your Board has adopted the plan recommended by the Provincial Board of Health, and now followed throughout the Province, whereby all places in which there have been communicable diseases are funigated under the supervision of the Medical Officer of Health and at the expense of the municipality. This is a step in the right direction, as it encourages more prompt reporting of all infectious cases, thus giving the Board a chance for closer supervision and the prevention of the spread of any such cases. During the year 22 places have been fumigated.

Your Board has undertaken the furnishing of the isolation hospital. It is now well equipped and has served a long-felt need, and no doubt has been a factor in the lessening of the spread of infectious diseases. By an arrangement with Victoria Hospital, that institution has taken over the nursing of all cases in the isolation hospital.

By arrangement with the Provincial Board of Health, your Board and local druggists are able to procure diphtheria antitoxin at greatly reduced prices; for instance, 5,000 units, which formerly cost \$7.50, can now be purchased for \$1.80. This is done, not only to reduce the cost, but also to encourage more prompt reporting of all suspicious cases of sore throat; and it cannot be too strongly impressed on the people that all cases of sore throat and croupy conditions should be seen by a physician without delay. Many cases are but slightly ill, and yet if untreated are capable of carrying the disease in its most malignant form to others. People should not delay in calling a physician, and if they are unable to meet the expense, the Board of Health should be notified and a physician will be sent to see the patient.

Periodic analysis of the water supply has been made and, although at present it is not as free from infection as is usual, there is no cause for alarm. Of the five cases of typhoid at present one is non-resident, and the causation of none of the others can be directly traced to the water supply.

There have been six complaints re nuisances and unsanitary conditions, all of which have been investigated and remedied. One cesspool has been ordered to be done away with.

The number of births during the year have been 93, compared with 110 last year; deaths, 54, compared with 65 last year; three deaths have been from tuberculosis.

There is need for further sewer extension, especially in those districts adjacent to

the water supply, as water closets are very often a source of contamination.

The lack of system for the collection and disposal of garbage manifests itself in no uncertain manner in many parts of the town; at times the refuse being simply buried in shallow pits at the rear of the lot, soon decaying and becoming a breeding place for flies and diseases of various kinds. Especially is this to be deprecated in localities where by its presence our water supply may be endangered. On the whole, however, the town is in good sanitary condition.

My sincere thanks are due to the members of the Board of Health for the assistance they have been to me during the past year, and I commend the work of the

Sanitary Inspector.

# STIRLING.

# Dr. JAMES MCC. POTTS, M.O.H.

December 18th, 1914.

Herewith I beg to present my report for the year 1914.

In its freedom from communicable diseases Stirling has again been fortunate.

Two cases of measles in one family (that of Walter Mitchell) were reported to I quarantined the family and disinfected the house, with the result that no further cases developed.

A man (Horton) was reported as keeping his premises in an unsanitary condition. On inspection, his house and person were found to be inconceivably filthy, and as he refused to abate the nuisance, this Board took the matter in hand and had the man and his premises cleaned up.

I have had considerable trouble with the condition of the mill pond, Mr. Kingston, the owner of the water-power, persisting in running off the water to such an extent that the decaying vegetation exposed by the low water became a public nuisance. After repeated visits, and finally a threat of legal procedure, the nuisance was abated, and I do not think it will be repeated next year.

In conclusion, I feel that we may congratulate ourselves on the general sanitary

conditions of the village.

### STRATHROY.

### Dr. O. L. BERDAN, M.O.H.

I have the honour to present for your information the annual report of the Board of Health of the town of Strathroy during the past year.

It is matter of gratification that the town has been particularly free from any

Total expenses of this department, \$765.80.

epidemic of contagious diseases during the year, there having been only ten cases reported, with two deaths, resulting from tuberculosis. The slaughter-houses, dairies, schools and factories have been duly inspected, and will compare favorably with those in other towns of this size.

I would suggest that provision be made if possible for school children to wash their hands at school. Particularly is this necessary for those who take their dinner

to school.

I would also suggest that the schools be inspected once a month, and that suitable cards be printed and registers kept of all pupils requiring special attention, and that the nurses at the hospital assist at these inspections in order to receive a training in this work.

#### STATISTICS.

WALLER TOOL	
Contagious Diseases,	-
Diphtheria5Scarlet Fever1Typhoid Fever1Tuberculosis3	
Total	
Milk (Average for twelve months).	
1. Mr. Inch       3.9%       10. — Pearson         2. Mr. Plaxton       3.7%       11. Mrs. Kerr         3. Wm. Lindsay       3.5%       12. — Weeks         4. Jas. Buttery       3.5%       13. — Steele         5. Jno. Herdman       3.4%       14. F. Avery         6. D. Brown       3.4%       15. — Black         7. — Soper       3.4%       16. L. Fortner         8. E. Hunter       3.3%       17. Mrs. Graham         9. — Craig       3.3%       18. R. Nicholson         Population       2,994         Population, 1913       3,100	3.3% 3.3% 3.2% 3.2% 2.9%
Decrease	
Number of families	
Decrease	
No. of Stores       68       No. of Mills         " Churches       6       " Liveries         " Hotels"       4       " Laundries         " Schools       3       " Pool rooms         " Teachers       15       " Barber shops         " Factories       7	3 2 2

I have reason to believe that some closets are connected to the sewers, and I would recommend the inspector to locate these if possible and prevent the use of them, as the same water is pumped up again. I hope any citizens who have their closets or cesspools connected to sewers will see the necessity of stopping their use at once.

I would also suggest that the lanes behind the stores be inspected once a week,

and that a clinic be held once a week at the hospital for the treatment of children

unable to pay.

#### WHITBY.

# DR. CHAS. F. McGILLIVRAY, M.O.H.

I have the honour to present my report as Medical Officer of Health of the town of Whitby for the year 1914.

At the first of the year the local Board of Health was reorganized as required by statute, the following being the members thereof: J. E. Willis, the Mayor, Mr. C. A. Goodfellow, and Dr. Chas. F. McGillivray.

The following cases of communicable diseases were reported to me during the year, with no deaths. The case of tuberculosis left town, and I lost track of the patient.

Scarlet Fever	5
Measles	
Diphtheria	2
Typhoid Fever	
Tuberculosis	

No regular and systematic method of testing the quality and the cleanliness of milk, nor of inspecting the dairies, has hitherto been adopted in Whitby, but rather the custom has been an occasional testing or inspection according as public criticism of the milk supply has become more or less acute. I am glad to report that during the year the town council passed a milk by-law, which for its enforcement merely awaits the approval of the Provincial Board of Health.

The water supply of the town is all that could be desired. We have a waterworks system here, with water taken from Lake Ontario, through a "filtering well." Twice during the year Dr. Amyot's department examined specimens of water from tap, and in each instance his department reported the water as almost absolutely pure.

We have had the pleasure during the year of several visits from our district Medical

Officer of Health, Dr. Clinton, of Belleville. His visits are always helpful.

From a sanitary standpoint the greatest nuisance in Whitby for years has been the creek which runs one or two blocks east of Brock Street, the whole length of the town, from the north to the lake. This creek has not only been the natural water-run for some low-lying land in the north and east sections of the town, but town drains and an ever increasing number of cesspools have been drained into it, so that it was ever becoming a greater and greater menace to the health of this community. For many years the question of what was best to be done about this creek has been the "bête noir" of each successive town council. The installation of a sewerage system last year will prove the solution of this vexed problem.

During the year a sewerage and a sewage disposal plant system were installed at a cost of about \$120,000. The sewerage system covers the business portion and largely the residential portion of the town. About ten and one-half miles of sewers have been laid and private drain connections are now being made. The sewage disposal plant, consisting of a sprinkler filtering system and a chlorine house, has been erected at the south end of the town, and is quite sufficiently large to dispose of all the sewage of Whitby, even though the town grew to be twice its present size.

The citizens of the town, especially the property owners, whilst satisfied that a complete and satisfactory sewerage and sewage disposal system had been installed, have been and still are highly indignant to think that a public utility, costing \$120,000, could be imposed upon this or any other community without asking the consent of those entitled to vote on a money by-law, and that, too, on the mandatory order or ipse dixit of the Provincial Board of Health or its chief.

