

VOL. XXXV.-PART VIII.

FIRST SESSION, TENTH LEGISLATURE

OF THE

PROVINCE OF ONTARIO.

61125 20/10/02

SESSION 1903.

TORONTO: PRINTED AND PUBLISHED BY L. K. CAMERON Printer to the King's Most Excellent Majesty. 1903. -•

ARRANGED ALPHABETICALLY.

TITLE.	No.	Remarks.
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Dairymens' Associations, Report	22	Printed.
Deaf and Dumb Institution, Report	42	"
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Game Commission, Report. Gamey Bribery Charges. Gaols, Prisons etc., Report. Commitment of Boys and Girls to	$30 \\ 51 \\ 39 \\ 72$	Printed. " Not printed.
Hare, J F., commutation Health Report Highway Commissioner, Report Hospitals and Charities, Report	$53 \\ 36 \\ 27 \\ 40$	Not printed. Printed.
Imperial Institute, Canadian Section.Industries, Bureau of, Report.Insurance, Report.Insurance, Report.Inter-Provincial Conference, proceedings.	$54 \\ 28 \\ 10 \\ 4$	Not printed, Printed., "
Judicature Act, Order-in-Council	53	Not printed.
Kingston University, Specialists Courses	57	Not printed.
Labour Bureau, Report. Legal Offices, Report. Library, Report on state of . Liquor Act 1902, Referendum Vote. Liquor Licenses, Report. Live Stock Associations, Report . Live Stock, Registrar of, Report . Loan Corporations, Report .	$29 \\ 34 \\ 47 \\ 48 \\ 44 \\ 23 \\ 24 \\ 11$	Printed. " Not printed. Printed. " "
McHugh, Judge, payment to McMaster, John, appointment of Mines, Report Mines Act, Annual Expenditure under	$53 \\ 76 \\ 5 \\ 77$	Not printed. Printed. Not printed.
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, Titles.	No.	Remarks.
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Rainy Lake Pulp and Paper Company, Limited.Referendum Vote, 1902.Registrar General, Report.Registry Offices, Report.Road-making, Report.	66 48 9 35 27	Printed. " "
San José Scale, Report. Secretary and Registrar, Report. Sheriff of Frontenac, correspondence. Statute Distribution. Sturgeon Falls Pulp Co'y., L'td, Order-in-Council. "Agreement	$21 \\ 37 \\ 80 \\ 64 \\ 78 \\ 79$	Printed. " Not printed. Printed. "
Succession Duties Act, Order-in-Council Sugar Beet Experiments, Report	$\begin{array}{c} 55\\ 50\end{array}$	Not printed. Printed.
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Arranged in sumerical Order with their titles at full length; the dates when presented to the Legislature; the name of the Member who moved the same; and whether Ordered to be Printed or not.

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- No. 1.. Public Accounts of the Province for the year 1902. Presented to the Legislature, 21st March. 1903
- No. 2.. Estimates (Vote of Crédit) for the year 1903. Presented to the Legislature, 11th March, 1903. Not printed. Estimates (Vote of Credit) for the year 1903. Presented to the Legislature, 31st March, 1903 Not printed. Estimates for the year 1903. Presented to the Legislature, 23rd April, 1903. Printed. Estimates (Supplementary) for the year 1903. Presented to the Legislature, 10th June, 1903. Printed.
- No. 3.. Report of the Commissioner of Crown Lands for the year 1902. Presented to the Legislature, 23rd March, 1903. Printed.
- No. 4.. Report of the Proceedings of the Inter-Provincial Conference held at the City of Quebec from the 18th to the 20th December, inclusive. Presented to the Legislature, 21st March, 1903. *Printed*.
- No. 5. Report of the Bureau of Mines for the year 1902. Presented to the Legislature, 30th April, 1903. Printed.

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- No. 6.. Report of the Commissioners for the Queen Victoria Niagara Falls Park for the year 1902. Presented to the Legislature. 5th May, 1903. Printed.
- No. 7... Report of the Commissioner of Public Works for the year 1902. Presented to the Legislature, 21st March, 1903. Printed.
- No. 8. Report of the Inspectors of Factories for the year 1902. Presented to the Legislature, 3rd June, 1903. *Printed*.
- No. 9...Report relating to the Registration of Births, Marriages and Deaths for the year 1901. Presented to the Legislature, 21st March, 1903. Printed

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- No. 10.. Report of the Inspector of Insurance and Registrar of Friendly Societies for the year 1902. Presented to the Legislature, 11th June, 1903. Printed.
- No. 11. Loan Corporations Statements for the year 1902. Presented to the Legislature, 19th May, 1903. Printed.

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- No. 12.. Report of the Minister of Education—Parts I. and II.—with Report on Archaeology for the year 1902. Presented to the Legislature, 21st March, 1903. Printed.
- No. 13.. Auditor's Report to the Board of Trustees on Capital and Income Accounts, and Report of the President of the University of Toronto for the year 1902. Presented to the Legislature, 21st March and 8th May, 1903. *Printed*.

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- No. 15...Report of the Ontario Agricultural and Experimental Union for the year 1902. Presented to the Legislature, 2nd June, 1903. *Printed.*
- No. 16.. Report of the Fruit Growers' Association of Ontario for the year 1902. Presented to the Legislature, 8th June, 1903. Printed.
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- No. 19.. Report of the Entomological Society for the year 1902. Presented to the Legislature, 21st April, 1903. *Printed*.
- No. 20. Report of the Bee-Keepers' Association of Ontario for the year 1902. Presented to the Legislature, 8th June 1903. Printed.
- No. 21.. Report of the Inspector of San José Scale for the year 1902. Presented to the Legislature, 23rd Match, 1903. Printed.

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- No. 24.. Report of the Registrar of Live Stock of Ontario for the year 1902. Presented to the Legislature, 8th June; 1903. Printed.
- No. 25.. Report of the Farmer's Institutes of Ontario for the year 1902. Presented to the Legislature, 8th June, 1903. Printed.
- No. 26. Report of the Ontario Fairs and Exhibitions for the year 1902. Presented to the Legislature, 21st March, 1903. Printed.

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- No. 28.. Report of the Bureau of Industries for the year 1902. Presented to the Legislature, 8th June, 1903. Printed.
- No. 29.. Report of the Bureau of Labour for the year 1902. Presented to the Legislature, 21st March, 1903. *Printed*.
- No. 30.. Report of the Ontario Game Commission for the year 1902 Presented to the Legislature, 23rd March, 1903. Printed.
- No. 31.. Report of the Department of Fisheries for the year 1902. Presented to the Legislature, 21st March, 1903. Printed.
- No. 32.. Report of the Treasurer in re Fidelity Bonds, 1903. Presented to the Legislature, 21st March, 1903. Printed.
- No. 33.. Report of the Inspector of Division Courts for the year 1902. Presented to the Legislature, 19th May, 1903. Printed.
- No. 34.. Report of the Inspector of Legal Offices for the year 1902. Presented to the Legislature, 15th May, 1903 Printed.
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- No. 39.. Report upon the Prisons and Reformatories of the Province for the year ending 30th September, 1902. Presented to the Legislature, 21st March, 1903. *Printed*.
- No. 40... Report upon the Hospitals and Charities of the Province for the year ending 30th September, 1902. Presented to the Legislature, 21st March, 1903. Printed.
- No. 41... Report upon the Ontario Institution for the Education of the Blind, Brantford, for the year ending 30th September, 1903. Presented to the Legislature, 21st March, 1902. *Printed*.

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- No. 53.. Copies of Orders-in-Council under the provisions of the Judicature Act commuting fees J F. Hare, Local Master in Essex, and authorizing certain payment to Judge McHugh, of Essex. Presented to the Legislature, 21st March, 1903. Not printed.
- No. 54.. Report of the Commercial Work of the Canadian Section of the Imperial Institute, during the year 1902. Presented to the Legislature, 21st March, 1903. Not printed.
- No. 55.. Copy of Order-in-Council with respect to Regulations under the Succession Duties Act. Presented to the Legislature, 21st March, 1903. Not printed.
- No. 56. Copies of Orders in-Council in re recommendations of the Education Department. Presented to the Legislature, 21st March, 1903. Not printed.
- No. 57.. Copy of Order-in-Council, respecting Specialist's Courses in the University of Kingston. Presented to the Legislature, 21st March, 1903. Not printed.
- No. 58.. Copy of Order-in-Council as to agreement with the Canada Publishing Company, Limited: the Copp, Clark Company, Limited, and the W. J. Gage Company, Limited, regarding the Public School Phonic Primer. Presented to the Legislature, 21st March, 1903. Not printed.
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- No. 60.. Copy of Order-in-Council *in re* Regulations governing Public Schools. Presented to the Legislature, 21st, 1903. *Printed*.
- No. 61.. Copy of Order-in-Council as to agreement, amending a certain agreement with the George N. Morang Company, Limited, respecting publication of a first book of Geography. Presented to the Legislature, 21st March, 1903. Not printed.
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No. 72.. Return to an Order of the House of the fourth day of May, 1903, for a Return shewing the number of young Boys and Girls committed to the County Gaols of the Province during the years 1900, 1901 and 1902 respectively. Presented to the Legislature, 11th May, 1903. Mr. Hoyle. Not printed.

- No. 73.. Return to an Address of the eighth day of May, 1903, to His Honour the Lieutenant-Governor praying that he will cause to be laid before this House a Return of copies of all Awards made by the Arbitrators between the Dominion and the Provinces, since the date of the last Return. Also, a statement of the Account between Ontario and the Dominion from 31st December, 1892, to 31st December, 1902, as settled by the Counsel for the Province and the Dominion. Together with copies of correspondence between the Minister of Finance of the Dominion and the Provincial Treasurer of Ontario. Presented to the Legislature, 14th May, 1903. Mr. Matheson. Printed.
- No. 74.. Return to an Order of the House of the Eleventh day of May, 1903, for a Return of copies of all correspondence, agreements and other documents, relating to any application, or agreement between the Government and the Toronto and Niagara Power Company, or any other person, or persons, since the first day of January, 1902, for a grant, or proposed grant of water power from the Niagara or Welland Rivers, for the purpose of generating pneumatic, or other power. Presented to the Legislature, 21st May, 1903. Mr. Foy. Not printed.
- No. 75.. Return to an Order of the House of the Twentieth day of May, 1903, for a Return of copies of all correspondence between the Department of Public Works, or any officer thereof, and any applicant or applicants, for fishing rights or fishing concessions for commercial purposes, in Lakes Nepigon, Manitou and other Lakes in Ontario, since the first day of May, 1902, together with copies of all agreements for fishing rights, or fishing concessions, since said date. Presented to the Legislature, 28th May, 1903. Mr. Hendrie Not printed.
- No. 76.. Return to an Order of the House of the Twentieth day of May, 1903, for a Return of copies of all correspondence, papers and documents relating in any way to the appointment of one John McMaster, in or about the month of May, 1902, as overseer of work to be performed on Markstay and Warren Road in Algoma or Nipissing, and to the work done, security given and money advanced or expended in connection therewith. Presented to the Legislature, 28th May, 1903. Mr. Nesbitt. Not printed.
- No. 77... Return to an Order of the House of the twenty-seventh day of May, 1903, for a Return shewing the amount of money annually expended by the Province under the "Mines Act," for the encouragement of iron mining. The names of the persons, companies or firms to whom the money has been paid. The amount of iron ore annually mined and smelted in the Province; shewing as well the amount of foreign ore annually smelted in the Province. Presented to the Legislature, 29th May, 1903. Mr. Hoyle. Not printed.
- No. 78.. Copy of Order in Council approved by His Honour the Lieutenant Governor, on the eleventh day of June, 1902, respecting a certain

Agreement with the Sturgeon Falls Pulp Company, Limited. Presented to the Legislature, 1st June, 1903. Printed.

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- No. 80.. Return to an Order of the House of the fourth day of June, 1903, for a Return of copies of all correspondence between the Attorney-General or any other Member of the Government and the County Council of Frontenac, with reference to a Resolution of the County Council asking for the dismissal of the Sheriff of the County; together with copies of all correspondence between the Government, or any Member thereof, and James Dunkin Thompson, Registrar of the County of Frontenac, and Thomas Dawson, Sheriff of the said County, as to the appointment of a Returning Officer for the County, at the last Provincial Election. Presented to the Legislature, 16th June, 1903. Mr. Gallagher. Not printed.
- No. 81.. Return to an Order of the House of the twenty-eighth day of May, 1903, for a Return of Copies of all correspondence between any Member of the Government and James A. Browning of Bellingham, Ontario, relating to the imprisonment of the latter, on a charge of obtaining property on false pretences. Presented to the Legislature, 26th June, 1903. Mr. Smyth. Not printed.

TWENTY-FIRST ANNUAL REPORT

OF THE

PROVINCIAL BOARD OF HEALTH

OF ONTARIO

BEING FOR THE YEAR

1902.

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO.



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TWENTY-FIRST ANNUAL REPORT

OF THE

PROVINCIAL BOARD OF HEALTH.

To His Honour the Honourable WILLIAM MORTIMER CLARK, ESQ., Lieutenant-Governor of Ontario.

MAY IT PLEASE YOUR HONOUR:

The Provincial Board of Health respectfully begs to present, for approval, its Twenty-first Annual Report of work done under the provisions of Chapter 248, R.S.O., 1897.

The Board takes pleasure to draw Your Honour's attention to the high state of the general health of the Province in the matter of contagious diseases, by reference to the study of these, which appears in Chapter II of the Secretary's Report, page 19.

It is there pointed out that notwithstanding the fact that in 1902 the smallpox outbreak, which had appeared in epidemic form in 1901, had continued, yet the total deaths reported from 675³ municipalities as due to smallpox, searlet fever, diphtheria and typhoid fever were only 952. That this is relatively a very satisfactory showing may be gathered by a reference to page 20. From this it appears that the mortality per thousand of 0.43, was lower than in any other country in the list, including Great Britain, in which Scotland was lowest, with a mortality of 0.47 per 1,000.

The variability in the type of different diseases is, however, a matter affecting not alone the mortality rate, but the thoroughness of the measures adopted for dealing with contagious diseases. Thus, as referred to in Chapter II as well as in various reports of the Secretary and Medical Inspector, the mildness of smallpox has made it much more difficult to obtain effective local action than if the type of disease were more virulent. Similarly the need for more stringent measures for dealing with searlet fever is illustrated by the largely increased deaths, due to an increased virulence in the latter half of 1902. A new set of Scarlet Fever Regulations came into force by Order-in-Council on March 5th, 1903, which it is hoped will assist in limiting this, one of the most fatal diseases of childhood. The low prevalence of typhoid fever, which is so closely associated with the larger municipal works of our towns and cities, has been a good index of the steady development of waterworks systems and of sewerage systems throughout the Province. The town of Southampton has during the year established a system of waterworks, while Listowel has passed a by-law for sewerage works, and Woodstock and Stratford have formally applied to the Board for permission to extend their works.

The rapid growth of the urban population of the Province, through the development of manufacturing industries in the several cities and towns, is forcing the questions, not only of waterworks but of sewage disposal, into great promience. Fortunately for the welfare of the public the preliminary steps necessary to their establishment demand that the source of the proposed water supply of any town and the method of disposal of the sewage of any place be submitted to the Provincial Board of Health for approval. Thus a water supply of indifferent quality, or one in danger of pollution, is avoided where at all possible; while the protection of the interests of one town against any selfish action on the part of another town higher on a stream, the matter of sewage disposal is assured.

The problem of sewage purification has thus been prominently forced upon the municipalities, and, as will be seen by the Special Report on Sewage Disposal made by Dr. J. A. Amyot, page 33, the Board has during the year gone quite fully into the experimental side of the question. The facts therein set forth will be of much value to Municipal Councils and Boards of Health, as serving to indicate what may be expected of septic tanks and the several other methods of sewage disposal.

The scientific and practical aspects of vaccination are discussed in a paper by the Secretary on page 132, in which the relations of the public to compulsory vaccination are set forth. Similarly the social phase of isolation and vaccination in smallpox is set forth on page 128, and the claims of the public who have not been affected and are protected by vaccination are upheld.

Reports of the Conferences on Tuberculosis in Ottawa in April and New York in June, will be found on pages 100 and 103, and the importance of developing practical methods for dealing with this-most serious health problem is in these fully illustrated. By nothing probably is the relative social and ethical status of any community measured more accurately than by the degree of intelligent interest shown in this work; and it would appear from these reports that there is great need for a practical campaign of education being instituted in Ontario.

Other reports, such as the sanitation of barber shops, will be found in Part II, dealing with different phases of public health work. Not the least interesting are the annual reports of the several cities of the Province found in Part III. There is nothing which measures so accurately the advances of public health during the past twenty years as the attitude of the medical officers of local boards of health to the various problems of public health work; and it may be said that by comparison the work done in Ontario cities stands high in the scale, as illustrated on page 19, by the work done in limiting the contagious diseases. The direction by which more comprehensive and scientific work in the counties outside of the larger cities may be carried on, is illustrated in the several quarterly reports of the Secretary, indicating that the townships, villages and towns should be organized into larger health units, so that a single officer's time could wholly be devoted to public health work.

The actual position of public health work as an exact science, is set forth with much clearness in Chapter I, page 8 of the report of the Secretary, and indicates how remarkable has been the evolution of the science of public health during the past quarter of a century.

All of which is respectfully submitted,

H. E. VAUX, Chairman.

PART I.

REPORT OF THE SECRETARY.

CHAPTER I.

THE EVOLUTION OF PUBLIC HEALTH AS A DEPARTMENT OF GOVERNMENT.

The year 1902 completes twenty-one years of Public Health work under the Act appointing the Provincial Board of Health, and this being the number of years at which a man is supposed to have arrived at the age of maturity, and in this Province may exercise his franchise, it would seem proper that a brief study should be made of the progress which has taken place in the evolution of Public Health work, not only as a branch of State and municipal work, but as an exact science, taking its place in the schools of learning as a part of the curriculum of education and general culture.

In the annual report of the Board for 1891, reference was made to the condition of Medicine in the early days of Ontario, when it was pointed out that as early as 1832 a medical examining and licensing board existed in the Province,* but there is no evidence to show or lead us to believe that any teaching of sanitary science was a part of the requirements of physicians. That opinions as to the relations of insanitary conditions to the spread of disease were then strongly held, may, however, be gathered from a report made in 1832 by the Legislature of the York (Toronto) Hospital and Dispensary. It states : "The great increase in the population of this town and its vicinity, and the misery and wretchedness of the lower classes of emigrants, could not fail to disseminate amongst them disease in its various forms. Typhus fever, in its most malignant form, raged to a most alarming extent : many of the fatal cases above reported upon have been of this malady, brought into hospitals from the steamboats, or from the confined and filthy parts of the town." How much of the disease referred to was typhus, and how much typhoid, cannot be known; since, though Bretonneau, in 1818, had already distinguished the specific intestinal lesions of certain cases of this fever, it was not till after the work of Sir Wm. Jenner, in 1849, that the final distinction between these two diseases was recognized. Enteric fever having become recognized as a specific disease, its infectious nature and its propagation by the faecal discharges, led many physicians, as Budd, to look upon it as due to a specific agent. It was not, however, until within the period of this Board's existence that the discovery, by Eberth, in 1880, of its bacillus, has given us any certain knowledge of the specific character of the disease.

As was natural, the preventable character of typhoid was not even thought of, as regards its connection with a polluted water supply, at that time, nor, indeed, for many years later. That the medical profession, who were licensed to practice physic, surgery, and midwifery, stood in a high position in those early days may readily be gathered from the minutes of meetings of the Medical Board, as well as from reports in the newspapers of those early days. In 1832, Sir John Colborne, the Governor, had shown a proper sense of his duties when in the approach of cholera on the St. Lawrence, he issued, on June 20th, the following circular to the Chairmen of the Quarter Sessions, Boards of Magistrates, in the several districts of the Pro vince:

Sir: The contagious disease, which has extended its ravages to Lower Canada, having appeared at Prescott in this Province, it becomes necessary to take immediate precautionary measures for arresting its progress as far as human means can avail. I am, therefore, to acquaint you by command of the Lieutenant-Governor, that His Excellency, in the full confidence that the Legislature will sanction the adoption of any measures which the present exigency may require, requests that you will convene the magistrates of the district, and with their aid form a Bcard of Health.

(Signed) E. MCMAHON.

This prompt action in 1832 was followed in 1833 by legislative action, when an "Act to establish Boards of Health" was passed on 13th February.

The epidemic of cholera, recurring in 1834, maintained an activity in public health matters, which, however, became quiescent until 1849, when cholera appeared as an epidemic of great virulence. The old Act of 1833 had seemed inadequate, and the Parliament of Canada (Upper and Lower Canada), owing to the presence of cholera in England, in the autumn of 1848, from Hamburg, passed an Act in April, 1849, for "the establishment of a Central Board of Health," as an amendment to the Act of 5 William IV.

This Act provided for such a Board being created by a commission of the Governor. A report of a meeting of the Toronto City Council in the Globe of 21st June, 1849, illustrates the situation. A heated discussion is stated to have taken place, aldermen protesting that the Act required them to do work according to the instructions of the Central Board, and then bear the expenses besides. The Central Board issued its first regulations from its office. in Montreal, dated June 14th, 1849. The epidemic of that year having died out, the Central Board of Health seems to have passed out of commission till 1866, when cholera, again threatening, became the occasion for new regulations being gazetted on May 3rd. In matters of quarantine, laws had existed as early as 1794 regarding the inspection of vessels coming from foreign ports ; but excepting these, nothing more than has been indicated existed except the powers of municipalities to appoint committees of health. Such committees were provided for, and did some routine work in the way of abating nuisances, and dealing with contagious diseases as they appeared.

Speaking generally, it may be said that the spasmodic character of such public health work was due to the inexact knowledge of the nature of con tagious diseases. It was known that smallpox was contagious, but, on the other hand, cholera was looked upon as due to some mysterious influence, whelly independent of human agency, and hence non-preventable. As late as 1849 the following was written: "It is no doubt true that when one person takes the cholera another may take it. The atmospheric conditions which produce the one may produce the other. But as to any direct communica bility of air from one person to another, it is no more likely in the case of cholera than in the case of a broken leg."

Such was then the condition of public, and largely of scientific, opinion until 1881, when the agitation began for the organization of some permanent central health organization in Ontario. In 1877, after the devastating scourge of vellow fever in the United States, a National Board of Health was formed, which undertook the study of disease, and exercised for the few years of its existence an important advisory influence in the affected States of the South. Several States, as Massachusetts, New York, and Michigan, had already organized State Boards of Health, which were doing an important work in urging the establishment of Local Boards, and in drawing up rules, which in their advisory capacity they urged municipal authorities to adopt. What was wanted everywhere was scientific authority for the measures they advised ; and science was beginning to supply such.

In 1876, Pasteur had determined the true nature of the contagion of anthrax, and had propounded the axiom "omne vivum ex ovo.' Robert Boyle. the great English physicist, had said two centuries before, "that he who could probe to the bottom the nature of ferments and fermentation would pr bably be more capable than anyone of explaining certain morbid phen omena." Pasteur had deeply pondered these words, and had realized their truth in his studies on the vinegar and other fermentations; but as regards such studies in relation to diseases, it is curious to note that when in 1873 he was nominated as a candidate for a vacancy in the Free Associates of the Academy of Medicine, he was elected only by one vote, so little were his discoveries comprehended by the foremost physicians of the time in their relation to disease. Up to this time all outside the clinic was looked upon as useless, and viewed with indifference or hostility. Claude Bernard had felt it in the remark that "Physiology can be of no practical use in medicine; it is but a science de luxe which could well be dispensed with," and he made the mournful statement, "No doubt we shall not live to see the blessoning out of scientific medicine; but such is the fate of humanity; those that sow in the field of science are not destined to reap the fruit of their labors." Remembering these words, it becomes a source of supreme satisfaction to have been privileged to live during the succeeding quarter of a century, which has seen this prophecy in so large a measure fulfilled. When Villemin, in 1869, after years of experimental research, announced that tuberculosis is a disease which reproduces itself, he was treated almost as a perturber of medical order. Nevertheless, he pointed to the way, and Robert Kech, in 1882, successfully climbed the summit of the Mount of Difficulty

Davaine, who had already discovered the rod-shaped bodies in the blood of animals affected with anthrax, had called them bacteria, and who said: "They have a place in the classification of living beings," was even in 1873 being attacked for his opinions. It was as late as 1873 when Alphonse Guerin, who was a surgeon during the Commune, and had been led by Pasteur's studies to suspect that the frightful mortality after operations was due to germs, brought Pasteur to the Hotel Dieu, Paris, to witness some of the results of his simple dressings of wounds with layers of cotton wool; and, in 1874, that Pasteur received from Lister, at Edinburgh, a pamphlet and a letter, containing the request that he would read the researches on lactic fermentation, at the same time complimenting Pasteur on his brilliant researches, which, he said, "demonstrated to me the truth of the germ theory of putrefaction."

In 1874 Pasteur illustrated in a sitting of the Academie des Sciences the details which he, a chemist, considered necessary to get rid of the germs that might get into a wound, and in pointing out how cleanliness was the basis of all surgical details, explained. "in this way the advantage accruing to hygiene in hospitals and elsewhere from infinite precautions of cleanliness and the destroying of infectious germs."

In England, Dr. Bastian, of University College, attacked by experiments of much seeming eleverness, Pasteur's theories, and endeavored to prove the possibility of spontaneous generation. Prof. Tyndall, seeing the retroactive influence the publication of such experiments was having, took up the study along the lines of the physics of 'light to refute these theories, and in a letter to Pasteur said: "For the first time in the history of science we have the right to cherish the sure and certain hope that, as regards epidemic diseases, Medicine will soon be delivered from quackery, and placed on a real scientific basis. When that day arrives, humanity, in my opinion, will know how to recognize that it is to you that will be due the largest share of her gratitude."

Pasteur's greatest triumph in the domain of microbic diseases, as Sedillot characterized them, affecting man and animals, was, however, in 1877. Experimenting on the bacteria, he found by his admirable process of culture, outside organism, that the rods which exist in the hlood, and for which he has preserved the name bacteridia, given them by Davaine, are living beings, capable of being indefinitely reproduced in appropriate liquids, after the manner of a plant multiplied by successive cuttings. "The bacteridium does not reproduce itself only under the filamentous form, but also through spores or germs. after the manner of many plants, which present two modes of reproduction : by cutting and by seeds."

Closely following the proof of the cause, and the possibility of reproducing anthrax by inoculating the cultivated bacteria into sheep and cattle, Pasteur made the remarkable discovery that while hens, owing to their normal temperature being several degrees higher that that of sheep, would not under ordinary conditions take anthrax, yet on reducing their temperature during inoculation by chilling them in a bath of water, they sickened and died, and the bacteria were found in their blood, as in that of other animals. He equally proved the dependence of the germ upon temperature, by subsequently raising the temperature of a sick hen, when the fowl recovered, and the germs disappeard from its blood within a few hours. His next discoveries were in chicken cholera, which similarly proved to be a microbic disease, while his experiments discovered the attenuating influence upon the bacteria of oxygen in the cultures.

Following this up, he carried his observations into the wards of the hospitals, and interested himself in discovering the cause of puerperal fever. In 1878th discovered the chain-like streptococcus in the blood of patients sick with this disease, and announced it before the Academie de Medicine.

It was, however, in 1882 that Pasteur accomplished his crowning glory of accepting the challenge of the Melun Agricultural Society to prove his theory of immunization against anthrax by proceeding to the farm of Pouilly le Fort, and, on May 5th, in the presence of a crowd of farmers, veterinarians and physicians, vaccinated 25 sheep out of a flock of 50 with his attenuated virus or vaccine; again on the 17th he inoculated a stronger virus, and final ly on May 31 inoculated the normal virus into the 25 immunized and the 25 others. On June 8th all the latter were dead, and all the first 25, save one, were well.

The fame of this crucial experiment become universal. Public journals could grasp its broad and practical significance, and at the International Congress, in London, in 1882, Pasteur was the unchallenged hero of the hour. The French Government had already bestowed on him "The Grand Cross of the Legion of Honour."

In a special lecture, delivered at the request of the President. Sir James Paget, Pasteur said: "In a fortnight we vaccinated in the Departments surrounding Paris nearly 20,000 sheep, and a great many oxen, cows, and horses. Allow me not to conclude without telling you of the great joy I feel in thinking that it is as a member of the International Medical Congress, sitting in London, that I have made known to you the vaccination of a disease more terrible, perhaps, for domestic animals than is smallpox for man. I have given to the word vaccination an extension, which, I hope, science will consider as an homage to the merit and universal services rendered by Dr. Jenner, one of England's greatest men. It is a great happiness to me to glorify that immortal name on the very soil of the noble and hospitable City of London." Nothing so wonderful had ever occurred before, except, when in the British House of Commons, Jenner was voted £20,000, in 1803, for his services in the interests of humanity and his country.

In 1882 Pasteur attacked the question of swine fever, successfully, and similarly cultivated its vaccine, while Robert Koch, in Germany, directed the attention of the world from the triumphs of the splendid Pasteur to Germany by announcing his discovery of the elusive germ of tuberculosis.

It will be of interest to recall here some of the facts relating to this discovery by the man, who during the decade between 1880-1890 divided the honors with Pasteur, and through developing his method of solid cultures served to make the isolation of the germ of any particular disease an easier and more rapid means than that of Pasteur, who necessarily had to depend on abstracting the specific germ from the blood of his culture animals.

It was in 1884 that Loeffler, sifting the work done by Eberth, Klebs, Letzerich, and others undertook the cultivation and separation of the various bacteria present in diphtheria membrane by utilizing Koch's solid gelatine culture medium. He found diplococci and streptococci, as had others, and by inoculation experiments proved that these were not the true germs of the disease. Pushing his experiments, he found that in the deeper parts of the membrane were present bacteria, which on starting proved to be bacilli. Utilizing this material for cultures, he found that identical organisms were obtained from all the patients, having both the morphological and biological characteristics. Inoculation experiments prove that rats and mice enjoy complete immunity, while guinea pigs fall easy victims, due, it appeared, not to the germs in the blood, but to a poison produced at the seat of inflammation, which causes "an alteration in the walls of the blood vessels, leading to hemorrhages throughout the body." How recent years have verified these first experiments published only two years after Koch's great discovery all know : and how Behring, Yersin, and Roux have since developed the methods of culture on blood-scrum, and produced the antitoxin of the disease, which in benefiting humanity stands next in rank to the vaccine of cowpox, the world though its results has become everywhere familiar.

Reference has already been made to the clinical experiments which led Budd. Jenner, and others to believe in a specific cause in typhoid, and in its diffe entiation from typhus. The study of this latter disease has been but slight, with its lessening prevalence in progressive countries. What it was in 1849 Sir John Simon, referring to the dark courts and alleys of London, in slums of London, states : "Typhus prevails there, too, not as an occasional visitor, but as an habitual pestilence. It is impossible for me, by numbers, to give you the exact fatality of such spots. . . . But this I may tell you, as an illustration of what I mean : that in the few houses of Seven Step Alley and its two offsets, Amelia Place, and Turner Square, there occurred last year 163 parochial cases of fever"; while what its meaning was elsewhere may be judged from the following quotation regarding the deaths occurring amongst the emigrants who died of ship fever, or typhus, at the Grosse Isle quarantine stations in 1847. "According to the hospital returns for the year of 98.106 emigrants inspected at the Port of Ouebec, 8.691 were admitted into the Grosse Isle Hospital, and of these 3,226 died, while in addition 2,198 were

buried in the cemetery at Grosse Isle, who died on the vessels held in quarantine."

How different then and now may be judged from the report of the Quarantine Station for 1902.

For similar melancholy stories we must to-day go to the cities of the Far East, where with their crowded millions typhus and its fellows, cholera, and the plague, mark the existence of social and unsanitary conditions, which Europe and America have relegated to the limbo of a pre-scientific age.

Smallpox, in 1882, was the first, as it continues to be to-day, of the diseases to which public health authorities on this northern continent, pay special attention; and with such successful results that since the organization of the Provincial Board of Ontario, there have been in twenty years but 205 deaths. So marvellous, indeed, has been the progress in dealing with this decimating plague of the 18th and earlier centuries, that the public of to-day, unconscious of their privileges, assume too often an attitude of arrogant indifference, begotten of ignorance of what science has been doing for them, which makes it difficult to speak with judicial calmness regarding vaccination. Dr. Jenner, writing in 1801, says: "Upwards of 6,000 persons have now been inoculated with the virus of cowpox, and the far greater part of them have since been inoculated with that of smallpox, and exposed to its infection in every rational way that could be devised, without effect."

What smallpox then meant is shown in the figures collated by Mr. John Simon, showing the deaths in a 1,000 deaths before the discovery of vaccinati n in Geneva, and from whooping cough, measles, and scarlet fever by age distribution in England in 1847:

	Under 5 years.	Under 10 years.	Over.
Smallpox deaths in 1,000. Whooping cough Measles Scarlet fever	. 943 . 883	$155 \\ 52 \\ 92 \\ 254$	40 5 25 90

To day deaths from smallpox in the vaccinated are practically unknown in children, and, if in adults, only where revaccination has been neglected.

To quote but another example from early records, Mr. Cross, of Norwich, Erg., in a very severe epidemic which prevailed in 1819, observed minutely 112 families with the following results :

	Number.	Cases of small- pox.	Deaths by smallpox.
Total persons in families. Protected by previous smallpox		202 None. 2 200	46 Nore. None. 46

To-day we can present similar statistics, wherever the conditions make similar observations possible: and in addition we have what was not possible in Jenner's time, an adequate scientific reason for the immunity brought about by vaccination, with the added safeguards in the operation through aseptic surgery, which, if possible then, was not practised or considered wholly unnecessary. It is to the last fifteen years, and to our knowledge of the germ theory of disease, that aseptic glycerinated lymph has become a practical means of inoculation with a pure culture of the vaccine lymph. Immunity through its production of substances in the serum of the blood inimical to the reproduction of germs in the blood lymph has been proved, by the neutralizing action of the serum from smallpox patients, or from vaccinated heifers on vaccine. These facts but add to the glory of Jenner's discovery, and the Chairman of the Committee on Vaccination of the English House of Commons stated in 1802: "Upon the beneficial effects of this discovery I hardly wish to trouble the Committee (of Supply), as I am certain, if the report, which contains the scientific opinion of the first medical men in this country, does not satisfy the House, the united opinion of all the world, the homage of Europe, which has been paid to the discoverer of this blessing, will have its due weight on the minds of his countrymen."

Aphtha. Another disease belonging to the list of those affecting animals, and to some extent man, is foot and mouth disease, or *ephtha epizootica*. On the Continent before 1860, and in England from 1860-70, it prevailed as an epidemic, ruining hundreds of farmers, and destroying thousands of cattle. Klein, in 1885, announced the discovery of its germ as a micrococcus, found in the discharges of the vesicles, and in the tissues ; but this was not confirme l. Within the last five years, however, M. M. Loeffler and Frosch have proved that from a drop of serum from an unbroken aphthous vesicle of foot and mouth disease, some minute lymphatic cells were seen, appearing at times as almost inperceptible points. They are finer than any known bacteria, since they passed through a Berkfeld porcelain filter, and while seeming under the microscope perfectly limpid after filtration, yet a cubic centimetre of the fluid injected into the veins of a cow caused a characteristic attack of aphthous fever.

Ralnes. A yet greater gift to mankind was that of the indefatigable M. Pasteur, who, in 1885, announced, if not the discovery of the germ of the disease, that he was able to take the tissues of the spinal cord, and by reducing the virulence of its contained virus, to protect by vaccination men and animals affected with rabies. Within more recent years (1900) Dr. A. Bruschettine seems to have definitely determined its specific germ, as being a short thick bacillus, capable of producing the disease by inoculation experiments. However this may be, the practice of vaccination against hydrophobia has become ordinary medical practice, and Pasteur first showed that the disease depended upon (a) the quantity of virus introduced, (b) the point of its introduction, (c) the virulence of the virus, as determined by the animal yielding the material. Thus, he found that the virus was attenuated when passed from a dog to a monkey, and that by passage through successive animals, the pulp of the spinal cord failed to produce a fatal attack of rabies. He again showed that by taking this weak virus, and passing it in an ascending series through animals, as rabbits, dogs, or guinea-pigs, which increase its virulence, it comes back to a strength hat kills, slowly or rapidly, according to will. Thus he found that virus from a dog with street rabies, injected into the rabbit, became so intensified that the incubation period in the dog, of 12 to 14 days, after the 100th passage through animals, became reduced to 6 or 7 days. This Pasteur called *virus fixe*. He further found that virus is attenuated by temperature; and if it be subjected for an hour to a temperature of 50 deg. C. its activity is completely lost, or in half an hour at 60 deg. C. It has been further found that it rapidly loses virulence by exposure to air and sunlight. To develop a practical means of producing a vaccine, Pasteur developed the

simple process by which a series of spinal cords from inoculated animals were suspended in sterile flasks, plugged with cotton wool, and maintained at a temperature of 22 deg. C. Pulp made from cord so treated for 24 hours was found slightly less virulent; that at the end of 48 hours less so, and so on till, at the end of the 13th or 14th day, the virus was inactive. This determined, a dog was inoculated with 14th day virus, and so upward again until it withstood the fatal virus fixe, or was completely immunized against rables. He found by experiment that if animals bitten were injected within five days thereafter, almost all could be saved, and less so as the time lengthened, just as we know is the case with smallpox vaccine. Soon came the occasion for his experimentum crucis, when Joseph Meister was bitten badly, on the 4th July, 1885, on the arms and legs by a rabid dog. As he was certain to die, it was res 4ved to test the new vaccine. Thirteen injections were given within ten days-two on first day with 14-day-old virus. two on second with 11th and 8th day cord, and then on each following day with cord of a day greater in virulence. On the last day he injected the virus from the cord of a rabbit of full virulence. The boy remained well.

This wonderful discovery, which still further spread the fame of Pasteur, has been developed, and now the preparation of serums from the blood of treated animals has become a routine practice.

Tetanus. This disease, though not one which ordinarily appears in epidemic form, nevertheless, though endemically present in most populous districts, has appe. red in localized outbreaks, and, owing to its great fatality and painful symptoms which it exhibits, is one to which the attention of bacteriologists was early directed. So early as 1884, Carle and Cattani discovered virus in tetanus that could be inoculated from men to animals; but it was not until 1889 that the tetanus bacillus was obtained in pure cultures by Kitasato, and als) by Tizzoni and Cattani, as an anaerobe, which was spore-bearing. These spores are exceedingly resistant even to moist heat; but, fortunately, the germs do not develop in free air. Its presence, however, in the earth of gar dens and streets in various localities, made it very desirable that investigations be carried on to discover if possible its antitoxin. Behring, Kitasato, Ehrlich and Tizzoni labored at this for some years, and by 1890 the fact of an immunity being established against the disease through the injection of a toxin of graduated strength, was confirmed. Its utility has hitherto been limited by the fact that the quantity of antitoxic serum required for a successful result is at least two thousand times as great after the symptoms of tetanus have appeared, as compared with that required when an injection has been made antecedent to inoculation with the disease. This fact, associated with the further fact that the tetanus germ goes on developing in an ordinary punctured wound without any sign of its presence till the onset of the spasms caused by it, makes any chance of treating the disease successfully by the antitoxin relatively slight. The very complete knowledge which we now possess of the cause of tetanus, and the conditions under which it develops have, however, enabled the surgeon when called upon to treat punctured wounds, to take such steps at the time the wound occurs as will preclude in large measure any danger of its development.

Cholera. The story of cholera epidemics had become little more than a memory to most in Canada by 1882, since the last outbreak of any extent was in 1855, previous outbreaks having appeared in 1832 and 1849. In 1884, its appearance in Toulon, France, having come by way of Egypt, put all Europe in a state of excitement, only possible by the appearance of such a disease. The French Government sent a commission, designated by Posteur, to Alexandria to study the disease, and Professor Koch, of Berlin, also went

there to study the outbreak. The outcome of this work at Alexandra, when the brilliant Thenard, student of Pasteur, was a martyr to science, and that of Toulon, in 1884, resulted in the discovery of the comma bacillus of Koch. This supposed cause became the subject of study and dispute for ten years; but time has only served to confirm the first claim that the germ of cholera, like that of typhoid, grows in the intestines of the patient, and causes death by the toxins produced by it. It is, like typhoid, essentially associated with infected food and water, and the discovery of its cause and methods of its propagation have changed the disease, which formerly caused men to forget their natural duties under the influence of fear, to be as amenable to the operation of sanitary laws as that of any of the other diseases. Thus, as in typhoid, experiments have proved that cholera bacilli have been carried from the dejecta of cholera patients to milk and other articles of diet, as shown by M. Haffkine in the inoculation of sterilized milk exposed in clean vessels to flies, similarly as in typhoid. The use of cholera-infected water for washing cooking utensils has proved especially the mode of the spread of cholera by means of milk. Nurses and others about patients may, of course, through lack of cleanliness, convey the disease. But apart from these causes, as was shown at Hamburg and Altona in 1892, where the first city was decimated and the adjoining one remained free, the cause in the one was polluted water, while Altona had pure water.

Plague. The disease which for two thousand years has horrified the world through its appearance in widespread epidemics has likewise during the past quarter of a century had to submit to the penetrating power of the scientist. Not that it is possible in practice to wholly extirpate the disease; but to-day we are practically informed as to the weapons of defence; and it only requires executive methods to be thorough to stamp out the disease with the same certainty as smallpox.

It is to Kitasato, a Japanese student of the Hygienic Institute of Berlin, made famous through Professor Koch, that we owe the discovery of the bacilius of that plague, which for centuries has prevailed in Oriental countries with a terrible fatality. Not only has this scientist shed glory on his country, but he has won renown throughout the whole world of science through his heroism in exposing himself to the study of an unknown source of danger. He found in the bodies of patients with plague a characteristic breillus, growing readily outside the body in blood serum, but in severe cases it is found in the blood, being usually more abundant in the lymphatic glands, where the bubbes or pustules develop. Inoculation of rats with material from infected rats proves fatal in from one to five days. The disease had been noticed to be disseminated especially where rats abound in a locality, as along the wharves of Eastern cities; and it remained for Simond to prove that the disease seemed to spread directly through the fleas, which, biting sick rats. took the infected blood into their intestines, and then subsequently biting a person inoculated him through the bite. Dust, besides when inhaled or when falling upon food to a limited degree, becomes a source of infection. The recent report of the India Plague Commission concludes that man has, however, been the common medium of transmission. These notable, and what but a few years ago would have been called marvelious, discoveries, have been made still more important by the production of a serum at the Pasteur Institute, Paris, by Yersin, through inoculating horses with a graduated amount of the cultivated bacillus of the disease. The serum has proved to be not only protective by immunizing against the disease, but also to some extent curative in those attacked. As in other diseases, however, the success

of this scientific procedure in stamping out the disease will be in direct proportion to the intelligent application of executive methods at the ports of those countries whence vessels from the Orient come.

Malaria. The work of Manson and Ross, within the past five years, indicating the mosquito (culex anopheles) to be the medium of transmission of malaria from one person to another, owing to the fact that the coccidia of the haematozoon malariae multiply in the intestine of the mosquito, and reaching therefrom the poison ducts are injected with the poison into the wound made by the bite had barely been proved, and the possibility shown of preventing malaria in such fever districts as Lagos, in West Africa, by draining the puddles of water, or covering them with petroleum, in which the mosquito develops, when from Havana came the news that Findlay, Reed, and others had actually proved that yellow fever was similarly transmitted. In proof of which a young physician became a martyr to experiment by allowing himself to be bitten by a mosquito previously having bitten a man sick with the disease. He thereafter took the disease and died, the agent of the disease being another mosquito, the Stegomya.

Similarly, prevention has followed by the simple expedient of placing the patients within sick rooms surrounded with mosquito bars, and allowing none of those within to leave, and keeping out absolutely all others. except immunes as attendants. Havana, by thorough treating of the cesspools and puddles, where the mosquito develops, with petroleum has banished the disease, while its introduction is prevented by having all sick persons on ships from infected ports placed on shore in mosquito-proof quarters, any mosquitoes on the vessels killed, and a daily examination of non-immunes, so arriving in the city until their period of incubation is passed.

These several references to the discoveries made during the past twenty years, regarding the causes of diseases, have, as already remarked, been the basis upon which exact regulations for the suppression of the several diseases have become more possible. In the matter of smallpox, vaccination had been made compulsory from years of results based upon experience; scarlet fever had taught that through long isolation its eradication was alone possible, though even during these twenty years physicians have been known to go into the courts and declare its noncontagiousness. Diphtheria was a questio versata twenty years ago, and its origin was described as sporadic, as depending upon pythogenic causes, as decaying animal and vegetable matters: but with the discovery of its bacillus in the discharges of the nose and throat, and the means of its cultivation, it has become possible, in the most exact manner, to limit its spread, by determining the infectiveness of a patient by the presence or absence of the la illus during convalescence. The knowledge of the bacillus of typhoid and of cholera, and their presence in sewage, has made it possible, by preserving water supplies from pollution, and by disinfection of bowel discharges in patients, to practically eliminate both as causes of mortality in the millions of people in hundreds of cities obtaining their drinking water from public supplies. The simple expedients of protecting the non-infraune residents of certres, where malaria and vellow fever tend to prevail, from the bite of infected mosquitos, has made these sources of mortality to be brought within the compass of a prophylaxis possible under health regulations strictly and intelligently enforced.

If, however, we turn to that most fatal of the diseases in temperate climates, tuberculosis, we are met with one, which, unless it be leprosy, in its mode of attack, slow, insidious, now retrograding and deceiving, by raising hopes often doomed to disappointment, yet seldom failing in the end to make its last thrust fatal, presents so many elements of difficulty in the institution of practical measures for its suppression, that we to-day have to confess that the very immensity of the measures to be taken, owing to the enormous number of people affected, the long course of the disease, the cost of treatment, and the intimate relation of the disease to individual habits, social customs and industrial methods, make any executive attempts which hitherto have been possible, confessedly wholly inadequate to cope with the problem.

It is not that we do not know what is needful; but rather, it is that in this disease we would seem to have purposely presented to man the solution of a problem which contains, in a peculiar sense, ethical elements, in which the question, "Am I my brother's keeper?" raised at the dawn of history by the first materialistic philosopher, must be answered in the affirmative before society need ever expect to rid itself of this approbrium of civilization and progress.

But some day, somewhere, and somehow, there will yet be those who, following the teachings of that pure science, which is wisdom personified, shall be able to say, with the yet bound Prometheus: "But my spirit is not wholly cast down; for I know that I have done good to the sons of men, and that they honor the Titan, Prometheus, who has saved them from cold, and hunger, and sickness."

CHAPTER II.

STUDY OF STATISTICS OF CONTAGIOUS DISEASES IN ONTARIO IN 1902,

The diseases reported during the year 1902 have been collated from the 675 Annual Reports of Local Boards of Health, as returned according to law to the Provincial Board of Health. (See page 140.)

The returns include practically all the cases of smallpox which occurred in Ontario in 1902. It is important to note that all of these cases seem to have been reported or brought to the knowledge of the local health authorities, and, indeed, were almost invariably reported at the time of occurrence by the latter to the Provincial Board of Health. The rate of mortality is remarkably low, being 0.44 per cent. The difference between this disease, which we have been accustomed to view with so much dread, from its old-time fatal character, and scarlet fever, which in recent years we had begun to hold in contempt, is well seen in the tables, which show for the latter a mortality of 8.5 per cent. for 1902. Similarly, diphtheria shows a mortality of 15.5 per cent. It is probable, and indeed certain, that in the case of scarlatina, mild cases were frequently not reported; but the great increase in case mortality in 1902 has been, as already pointed out, very remarkable. The same is even more true of typhoid, which in hospitals often does not show a case mortality of over 5 per cent., but in these returns shows a rate of 15.1 per cent.

The returns of cases of tuberculosis have similarly been so imperfect that they have been excluded from the table, since the total deaths are returned in the monthly reports. We find that of scarlet fever, smallpox, and diphtheria, and typhoid, 10,490 cases came under the supervision of Boards of Health, with a mortality of 952, or 9.3 per cent. The distribution of cases by municipalities shows smallpox to have been present in 8 cities, having 386 cases; 40 towns and villages, having 267 cases, and 121 townships, having 2,141 cases. It will thus be seen that the disease was least prevalent in the towns and villages, there having been in cities 1 case to 1.063 persons; in towns and villages, 1 case to 1.690 persons; and in townships, 1 case to 680 persons.

In the instance of scarlet fever, we find that there were 3,458 cases reported, with 290 deaths, or a rate of 8.4 per cent.; 14 cities reported 1.698 cases and 147 deaths, or 8 per cent. of deaths, while 208 towns and villages reported 780, with 70 deaths, or 9 per cent.; while the cases returned by the townships were 979 cases, with 73 deaths, or 7 per cent. It would seem that the notification and mortality in many municipal divisions was much the same; but a closer examination of the tables shows that in some municipalities no cases were reported whatever until a death occurred.

With regard to diphtheria, we find the total cases to have been 2,696, with a mortality of 15 per cent. In the cities there were 1,459, with 214 deaths, or 14.7 per cent; in the towns or villages, 666, and 77 deaths, or 11.6 per cent., and in the townships, 571, with 117 deaths, or 20 per cent. The high case mortality in the townships points to the conclusion that a notable number of cases were not reported until they terminated fatally, and that many which recovered were not reported at a'll. This is confirmed by such a return as that of Collingwood, where 4 deaths and 4 cases only were reported, or that of St. Vincent Township, with 2 cases and 2 deaths. Typhoid fever returns for the Province show a total of 1,542 cases and 242 deaths, or a case mortality of 16 per cent. In the cities the cases were 420, with 81 deaths, or 19.3 per cent.: in the towns and villages, 648 and 95 deaths, or 14.1 per cent., and in the townships 474, with 66 deaths, or 13.9 per cent. The explanation of these very notable differences in the mortality rate is very difficult on any other supposition than that of neglect to make returns according to the facts, or not to return cases at all in some instances. The case mortality in the cities, for irstance, is donbhe that of the camps of either C ickamauga, in 1898, where 20,000 men of the troops were sick, with a case mortality of 10.5 per cent. or that at Bloomfontein, in 1900, where, with an almost equal number of cases, the mortality rate was almost the same figure. In this, as in other respects, it is apparent that the routine work of our Local Bcards of Heulth is very imperfectly performed.

Taking these four diseases as those including most of the deaths due to preventable discase, excluding tuberculosis, we find that the deaths returned month by month by the Division Registrars were 1.061 cases in a population-return of about 90 per cent. of the total. Roughly, therefore, it may be said that 1.200 deaths occurred in Ontario from this class of disseases. That it is a creditable showing may be gathered from the following table, although several of the Ontario cities are high in the comparative list for cities:

	Popula-	Smal	lpox.	Sca Fe	rlet rer.	Dipht	Diphtheria.		Typhoid.	
	tion.	Cases.	Deaths.	Ca302.	Deaths.	Ca 303.	Deaths.	Сазея.	Deaths.	Kate per 1,000
Ontario (1902) England and Wales (1900) Scotland (1900) New Jersey (1901) Ohio (1901) Massachussetts (1900) Illinois London, Eng. (1901) Liverpool (1901) Birmingham (1901) Dublin (1901) Baltimore (1901) Chicago (1901) Ohicago (1901) Detroit (1900) Montreal (1901) Ottawa (1902) Hamilton (1902) Guelph (1902)	$\begin{array}{c} 2,182,942\\ 32,526,675\\ 4,472,000\\ 1,925,781\\ 2,760,656\\ 2,805,346\\ 4,521,550\\ 4,544,983\\ 656,332\\ 523,284\\ 4,544,983\\ 656,332\\ 523,284\\ 245,001\\ 573,579\\ 518,000\\ 3,457,202\\ 1,758,025\\ 285,704\\ 267,516\\ 208,040\\ 59,928\\ 52,634\\ 16,619\\ 11,496\end{array}$	2,797 523 225 104 1,710 37 504 21 1,964 28 300 5 2	12 85 53 32 25 229 6 74 410 4 1 1 	3,452 2,496 6,396 18,381 3,310 3,314 455 1,398 367 16,692 1,773 701 689 97 37 24	$\begin{array}{c} 290\\ 3,844\\ 654\\ 155\\ 358\\ 643\\ 584\\ 195\\ 156\\ 15\\ 210\\ 11\\ 1,162\\ 165\\ 16\\ 242\\ 88\\ 50\\ 3\\ \end{array}$	2,696 3,444 12,158 533 150 3,319 1,607 12,056 2,237 893 230 106 72 14	$\begin{array}{c} 408\\ 10,187\\ 771\\ 834\\ 811\\ 1,387\\ 1,508\\ 1,258\\ 209\\ 85\\ 209\\ 85\\ 209\\ 85\\ 353\\ 164\\ 2,068\\ 495\\ 113\\ 99\\ 115\\ 28\\ 24\\ 12\\ 2\end{array}$	1,542 944 2,967 3,194 864 615 1,038 714 705 2,748 130 64 43 16	$\begin{array}{c} 242\\ 5,591\\ 644\\ 3755\\ 1,143\\ 533\\ 1,897\\ 154\\ 1111\\ 99\\ 142\\ 141\\ 727\\ 509\\ 54\\ 139\\ 255\\ 222\\ 7\\ 4\end{array}$	$\begin{array}{c} 0.43\\ 0.603\\ 0.47\\ 0.72\\ 0.72\\ 0.80\\ 0.50\\ 0.80\\ 0.50\\ 0.82\\ 0.67\\ 0.54\\ 1.30\\ 0.60\\ 1.00\\ 0.60\\ 1.23\\ 1.73\\ 0.64\\ 0.99\\ 1.23\\ 1.73\\ 0.64\\ 0.96\\ 1.73\\ 0.64\\ 0.17\\ 0.96\\ 0.16\\ 0.17\\ 0.96\\ 0.17\\ 0.96\\ 0.16\\ 0.17\\ 0.96\\ 0.16\\ 0.17\\ 0.96\\ 0.16\\ 0.16\\ 0.17\\ 0.96\\ 0.16\\ 0.16\\ 0.17\\ 0.96\\ 0.16\\ 0.16\\ 0.17\\ 0.96\\ 0.16$

Table Shewing the Number of Cases and Deaths in Different Countries and Cities from Smallpox, Scarlet Fever, Diphtheria and Typhoid.

The table is an interesting one, illustrating, as it does, the high standard of health held by Ontario, as compared with other countries. Incidentally, it may be mentioned, that the rate in Ontario is lower than that for 1901, in which the total deaths were 1.547.

As illus: rating another important point, the following table has been prepared, giving the percentage of deaths to cases in a number of cities:

Table showing the Percentage of Deaths to Cases from Smallpox, Scarlet Fever, Diphtheria and Typhoid in different Cities.

Table giving Percentage of Deaths to Cases in Cities.

Cities.	Smallpox.	Scarlet fever.	Diphtheria.	Typhoid.
London Liverpool. Birmingham Dublin New York Boston Baltimore (1901) Toronto (1902) Ottawa (1902) '' (four months of 1903 in new hospital) Hamilton Brantford Gnelph	None. 25.9 14.68 None. None. None. None.	Per cent. 3.17 5.8 4.7 3.2 6 96 15.02 3 03 12.5 7.5 2.2 3.09 None. None.	Per cent. 10.03 12.5 16.0 18.7 17.1 10.63 10.02 12.8 13.0 10.4 22.6 16.6 14.2 0 0 0 0 0 0 0 0 0 0 0 0 0	Per cent. 15 5 17.8 17 8 9 06 26 4 19 77 20.7 19.1 Cases not given. 10.9 9.3 None.

The variations in the type of the several diseases, or in the facilities and methods of treatment, are fully indicated in the mortality rates in the widely separated centres. Thus smallpox, of a high mortality rate, appeared on both sides of the Atlantic, the cases in New York and Boston having their sources in emigrants from Europe.

The inland cities had cases of the mild Cuban type, with few deaths. On the other hand, starter fever in no English city shows a high mortality, whereas Boston had 15.2, Toronto 12.5, and Ottawa 7.5, and New York 6.96 per cent. of deaths. Again. Hamilton had but 3 per cent., while Brantford and Guelph, with 37 and 24 cases respectively, had no deaths.

Typhoid fever similarly is seen to vary notably in its mortality rate to cases; but as the notification of the disease varies greatly in different cities, the convariant in this case is likely to be inconclusive.

Another matter of great practical interest is set forth in the different statistics, showing the provisions for the hospital treatment of the cases.

Such as are available on this point are given in the following table:

The reports from different cities do not give a systematized statement on this point, and some are very imperfect.

Tuble showing Percentage of Cases of Smallpox, Searlet Fever, Diphtheria and Typhoid treated in Hospital to total reported Cases.

Cities.	Smallpox.	Scarl-t fever	Diph heria	Typhoid.
London (Eng.), 1901 Liverpool, 1901 Birmiogbam, 1901 Dublin, 1900 Boston, 1901 New York, 1901 Toronto, 1899 Ottawa, 1902	100. None. None. 100. 100.	Per cent. 78.8 54.9 80. 100. 7.00 40.7 56.3	Per cent. 74 8 56. None. 100. 72.9 90.1	Per cent. 45.3 65.5 37. 50. Not stated. Not stated. Not stated.

These figures illustrate imperfectly a fact of great practical importance, viz.: the increasing estimation in which hospital treatment is held, not so much in the matter of treatment, as in being a sanitary necessity for stamping out disease. The Metropolitan Asylums Board of London is especially empowered to deal with contagious diseases sent in by the Medical Officers of Health of the different sanitary areas of that city. They had in all in 1901 6,178 beds in 12 hospitals, which can be increased in an emergency, if necessary.

How this accommodation has been developed is seen in the following table:

Percentage of Admissions to Hospitals in London of Total Cases of Smallpox, Sourlet Fever, Diphtheria and Typhoid notified in 1901.

Diseases.	1890.	1895.	1900.	1901.
Smallpox Scarl t Fever Diphtheria Enteric		84.5 58.2 41 55 24.13	73.5675 1572.4847.70	97.2 78.89 74.35 45.34

It seems little short of marvellous that in a city, with a population of 4,544,983, the machinery should have developed to such a completeness, that 74 per cent, of all the cases of these four most serious contagious diseases should have been treated in hospital, with a resulting decreased mortality, only excelled by the City of Guelph, Ontario, out of the 15 cities given in the table. The Managers' report of the London hospitals points out how, in 1893 and 1895, the percentage of cases in hospitals decreased, owing to the prevalence of these diseases, and insufficient accommodation provided; and further states that the percentage might again fall during an epidemic. The remarkable situation exists, however, that with such abundant accommodation for removal of first cases, the constant result follows, that the sources of epidemics-first cases-are being constantly removed. Sir Curles Cameron, of Dublin, urges in his report: "I would earnestly beg the Committee to bring this important question of hospital accommodation for fever cases before the Council." Dr. E. W. Hope, Medical Officer of Health of Liverpool, in 1901, writing on hospital accommodation, states: "It is now some 16 or 17 years since the necessity for the provision by the City Council of adequate hospital accommodation came into prominence. At that time, however, in Liverpool as elsewhere, public opinion was somewhat unformed, owing to the absence of any experience of the advantages resulting from hospitals, other than work house hospitals, for their treatment, and there was then little public support in promoting the work; indeed, there was a general reluctance, more especially on the part of those who were least able to isolate or nurse the infected at home, to allowing the patients to be removed to lospital. However, as more beds became available, and the advantages of hospital treatment became more apparent, not only in promoting recovery, but what is of even greater importance, in checking the existence of disease, the public soon began to realize the advantages of these institutions, and at the present time seek as a favor, or demand as a right, that means shall be provided by which persons may be taken care of when suffering from infectious sickness."

Speaking with regard to the work of the year, he further says: "Several circumstances combined during the year to tax very considerably the existing hospital accommodation. Very serious inconvenience was experienced on account of the inability to provide accommodation in hospital for consid-

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erable numbers of patients who needed such accommodation. That Was notably the case with scarlet fever. These cases had to be left at home, with the inevitable consequence that infection was spread from them as centres, and the disease extended to a very considerable amount." It is further added: "The reduction in the number of cases of this disease, which had been noted in 1900, ceased immediately the removal of patients to hospitals was stopped." How large a part of public health work this question of hospital provision forms in England, may be gathered from The Isolation Hospitals' Act of 1894. Under it the County Councils are to consider the need of such an hospital in any borough, and under section 6, may direct the County Medical Officer of Health to make an enquiry as to the necessity of an Isolation Hospital being established for the use of any particular district, and if he reports that such an hospital ought to be established, the Council may take proceedings to have it established, the same as if a petition had been preferred by a local authority.

As regards the utility of hospitals in lessening the spread of contagion, Dr. Alfred Hill, Medical Officer of Health for Birmingham, speaks in the report of 1901. Referring to the prevalence of scarlet fever, he states that the disease was as prevalent in houses with over three rooms, as in those under, viz.: cases at the rate of 12 houses in every 1,000. He then remarks: "It seems to me, however, very probable that the incidence of the disease would be much greater in the small houses if the cases were kept at home, instead of being removed to hospital. As a matter of fact, in the quarter referred to, 444, or 95 per cent., of the eases in three-roomed houses were removed to hospital. From houses of four rooms and upwards. 85 per cent. of the cases were removed, showing that the hospital is utilized, as it should be, to a greater extent by the tenants of small houses, than of large ones."

It will be noticed in the table given that no satisfactory statistics are available, indicating the percentage of cases treated in hospitals specially set apart for contagious diseases. Indeed, except for smallpox, it would appear that especially England, and even Outario, are notably in advance of American cities in this matter of separate hospitals for contagious diseases.

With the history of ten years of public health work in England, showing such progress in dealing with outbreaks of contagious disease, we may properly turn to Ontario, and observe the methods which have been in existence, and the progress here of sanitary methods. As regards smallpox, the Ontario Regulations since 1885 have required the removal of cases to hospitals, as provided in Regulation No. 2:

3. On the occurrence of the first, or any, case of smallpox in a municipality, the Medical Health Officer shall at once remove the person attacked to the isolation hospital, tent, or other place provided under section 44 of the Public Health Act. 1884, or cause such person to be otherwise efficiently isolated, and shall take proper measures for the disinfection, or if necessary the destruction, of all clothing which may have been exposed to the contagion, and for the disinfection and purificatiou of every conveyance, rail-car, steamboat, sailing-vessel, carriage, or other vehicle, which may have been exposed to the contagion. Sec. 3. Smallpox Regulations

The results of this practice have been so obvious in the instance of smallpox, that it has met with no opposition, and since 1900, when the present epidemic began, the utilization, by towns and township Local Boards of Health, of double-walled tents, has quite frequently been put into practice. In the larger centres permanent buildings have generally been constructed. In the matter of diphtheria and scarlet fever, the practice has varied. The general hospitals, prior to 1890, in a number of instances, as at Toronto, Hamilton, and London, had been in the habit of receiving cases of diphtheria, and to a small extent, those of scarlet fever. The objections to this practice became so obvious, that in most cities and towns annexes, or separate buildings altogether, were erected, and maintained under the supervision of the hospital authorities. Toronto was the first to establish, in 1892, a separate isolation hospital, under the direct control and management of the Local Board of Health; and even yet in other places the management of contagious disease wards, or separate buildings in the General Hospital grounds, is largely under the hospital authorities. In the smaller cities and towns, this practice is convenient, and if admissions and dismissions are made under the authority of the Medical Health Officer, there need the no objection raised to the practice.

Such conveniences for the reception of contagious diseases exist in the folhowing cities and towns:

Table of Cities and Towns with Contagious Diseases Hospitals and Wards.

Toronto	Isolation Hospital-Managed directly by Local Board of Health.
	Wards in General Hospital.
Kingston	Wards in General Hospital and Hotel Dieu.
	Isolation Hospital-Mauaged by Local Board of Health.
	Separate wards in General Hospital.
	Isolation Hospital, under management of General Hospital for smallpox.
Guelph	Separate annex in General Hospital.
46	' '' St. Joseph's Hospital.
	Separate annex, under management of General Hospital.
	Separate building, under management of General Hospital.
	Wards in St. Joseph's Hospital.
	Separate wards in General Hospital.
	Separate wards in St. Vincent de Paul.
	Separate building at General Hospital.
Peterborough	Nichols Hospital and St. Joseph's Hospital (separate wards) Under hospital
C 11	management contracted with by Local Board of Health.
Chathan.	Separate building, under management of General Hospital. "St. Joseph's Hospital.
Stratford	
Sudbury	Separate building of General Hospital.
	" " St. Joseph's Hospital.
	Separate building of General Hospital.
Berlin	Isolation Hospital, under management of General Hospital.

This list includes all the hospitals receiving Government aid, which, according to the Report of Hospitals and Charities, received cases of contagious disease up to Sept. 30th, 1902. There have been, however, in various smaller municipalities, temporary hospitals or tents, to which cases of these diseases have been removed; and with the new Regulations dealing with scarlet fever and diphtheria, we may expect that great progress in this direction will be made.

The Regulation requiring the removal of cases to an isolation hospital or tent, is the same in character as for smallpox, while it is supplemented by the following Regulations :

6. Where the emergency demands such measures, he shall further place in another building or tent which shall be provided as prescribed in the Act, all persons who may have been exposed to the contagion, and shall supply them with all necessaries until the period of incubation of the disease shall have elapsed as provided in Section 93 of the Public Health Act. No person who has not had scarlet fever shall go, or be permitted to go, abroad until the period of incubation of the disease has elapsed, and until the clothing or effects worn or carried by or with all persons exposed to the contagion be disinfected as provided in the Act.

Whenever in a house there is a case of scarlet fever or wherever there are persons isolated in the aame on account of exposure or supposed exposure to scarlet fever, no children or other persons shall be permitted to leave the premises until in the opinion of the Medical Health Officer, they and their clothing are free from infection.

7. Whenever a case of scarlet fever has occurred in a child attending any school, the Medical Health Officer shall personally, or through another physician, cause a daily examination to be made of all the children of the school room for at least one week from the date of the occurrence of the last case amongst such children. If any children are absent from such school, a medical examination shall be made of them in the same manner as if they were in attendance at the school.

At the date of writing, the monthly returns of Contagious Diseases in Ontario for January, February, and March, 1903, have been prepared, and the situation of relative immunity of the population of Ontario during twenty (20) years, from a severe type of scarlet fever, has suddenly and notably changed. In January, 1903, the total deaths returned were 90, in February 104, and in March 100. The rate exceeds that of any year in 30 years, and shows more than three times the mortality for the same months of 1902. The virulence is illustrated by the returns of cases for March, which show 545 cases in 100 municipalities, and 100 deaths, or a case of mortality of nearly 20 per cent.

Such a situation makes evident the historic fact of the remarkable variability in the virulence of scarlet fever, in different outbreaks, in different countries, and even in the same outbreak in the same country. As diphtheria had replaced it in importance in Ontario for many years, it may not be improbable that unless special measures for its repression are exercised, scarlet fever may again replace diphtheria in importance as a disease coming under the attention of public health authorities.

What a survey of the history of public health in different countries, and at different periods in the world's history, makes very evident, is that, with all the progress seen in the science of Preventive medicine during the past century, the unknown quantity which enters into the problem, and which determines the natural virulence of the germs of different diseases, still exists, and is bound to play an important part in tables of mortality, great or little in pr portion as the known practical means are put in operation for the suppression of outbreaks by dealing with first cases. How this may be done, together with the results of such methods, is not only illustrated by the quotations from reports of Medical Officers of Health in England, but also by the following statement by the Medical Health Officer of Ottawa, Ontario, regarding the influence of the new isolation hospital of 60 beds, opened in the end of 1902, on the prevalence of scarlet fever and diphtheria:

Memorandum from Dr. R. Law, Medical Health Officer, Ottawa, respecting the Scarlet Fever situation in Ottawa, April 29th, 1903.

	Thirty-four houses quarantined contained at end of Dec., 1902	Cases. 59 48
(1)	A total of	107
(-)	To-day we find thirteen houses quarantined	$\frac{14}{32}$
	A total of	50

A decline of over one-half.

(2) Comparing total number of cases with corresponding period for 1902, we find :

Month.	1902.	1903.
January. February. March April. Total	45 55 42 56 198	

A decrease of one-third.

The first month (in 1903) showing a slight increase—the last month the most marked decrease of over 50 per cent.

(3) The number of placards put up during corresponding period of 1902 was 109, as compared with a total of 27 in 1903. The hospital is thus seen to have done away, to a great extent, with the greatly increased risk of infection, the hardship and expense of a quarantine at home, which had to be forced upon so many last year.

(4) Including cases transferred from old hospital and from outside municipalities, 121 cases have been treated in the hospital, with 3 deaths.

"As regards the utility of the new Regulations, I think them excellent, as clearly defining the powers and duties of the local health authorities, and, for the three years preceding the opening of the hospital, a steadily increasing roll of scarlet fever cases has convinced us that thorough measures such as the Regulations call for are the only means of combatting this disease."

The evidence thus adduced regarding the value of a well-equipped hospital in the reduction of diseases and deaths seems so convincing and complete, that nothing need be added to it. In the autumn of 1901, smallpox caught the Ottawa authorities unprepared with hospital conveniences, with the result that within six weeks, forty houses were under quarantine with smallpox. Renovation of the old isolation hospital made their removal within a fortnight possible, with the result that, aided by a general vaccination, the epidemic was rapidly suppressed.

But relatively rapid as has been the development of public health ideas in Ontario in the matter of the zymotic origin of contagious diseases, it is apparent that the supplying of local municipal machinery for carrying out such ideas is greatly in defect of the urgent demands created by the presence of outbreaks of the several diseases. In truth, as in all our aspirations toward higher ideals, our efforts in this are ever falling far short in the results attained. What, of course, is the necessary primary requirement in all movements, onward or upward, is that absolutely clear conceptions of truth be held regarding the matter at issue. The good Spinoza says: "We may have general perceptions regarding matters of common report, more correct deductions when the perception is based upon experience, and still more correct perception when the essence of one thing is inferred from another perceived through the senses."

Hence, if we are to grow in a knowledge of method, to increase our ability to apply broad principles to the problems, which in public health matters seem daily more and more capable of being dealt with along the lines of pure science, it becomes of essential importance that we call to our assistance such an amount of knowledge, based upon actual experience, that we shall be able to indicate a line of action, in dealing with outbreaks of contagious disease, with the same calm certainty as to results, as when a certain volume of water, falling on a turbine through a given number of feet, is recognized as capable of producing a given amount of electro-motive force. Nevertheless, even in this latter, consideration must be had for the efficiency of the dynamo or ma chine; and this is still more true in all work, like the executive part of public health work, where the human element forms so important a term in the equation. To him we have necessarily to look, if progress is to be possible. for a growing and ever clearer conception of what scientific truth is, and for the development of more systematized methods regarding its application to practical problems.

But what is even more to be looked for, is the enthusiasm begotten of that scientific altruism, which, even apart from its moral aspects, makes per sonal sacrifice in the interests of the public health, as necessary and inevitable, as that of the philosopher Pascal in the vale of Vancluse, studying the laws of physics, of plain John Dalton on the Cumberland Hills, experimenting on the determination of the dew-point, or in his little laboratory at Manchester, working out the atomic theory; or of the immortal Pasteur, when exhausted through his labors for the silk growers of his beloved France, he extended his philanthropy to those interested in the industry wherever situated, whether in France. Austria, or Italy.

What is seemingly inevitable is that, as with the apostles of an earlier faith, the bones grow dry, and the enthusiasm of the discoverer becomes the routine of his successor, who does the same work mechanically. As Horatio says of the grave-digger in Hamlet: "Custom has made of it in him a property of easiness." To the apostles of experimental science, based upon new discoveries, public health must increasingly look for new and greater victories; but, as the lives of the early Christian Fathers must be read to illustrate enthusiasm and devotion, so the students of science must continue to return to the fountains, whence have sprung our streams of knowledge, if they are to continue that enthusiastic love of research and of truth, which has made the past of science, in its application to public health so glorious."

> "Aud this to fill us with regard for man, With apprehension of his passing worth, Desire to work his proper nature out, And ascertain his rank and final place, For these things tend still upward, progress is The law of life, man is not Man as yet!" "I could not, Lest his success ran counter to success Elsewhere; for God is glorified in man, Aud to man's glory vowed I soul and limb!"

-Browning's "Paracelsus."

· All of which is respectfully submitted.

(Signed) P. H. BRYCE,

Secretary.

CHAPTER III.

REPORT OF THE MEDICAL INSPECTOR OF THE PROVINCIAL BOARD OF HEALTH.

By C. A. Hodgetts, M.B., L.R.C.P., Lond.

To the Chairman and Members of the Provincial Board of Health:

Gentlemen: I have the honor to submit my First Annual Report as Medical Inspector of the Provincial Board of Health, covering a period of fifteen mouths, dating from October 1st, 1900, and ending December 31st, 1902.

The duties appertaining to the office have been heavy, chiefly owing to the many calls consequent upon the wide diffusion of smallpox, and the difficulties of diagnosis, arising from the continued mild character of the disease.

The work may properly be dealt with under the following heads:

- (1) Smallpox inspection—
 - (a) In organized municipalities.
 - (b) In unorganized districts.
- (2) Other sanitary investigations.

The work necessitated visits to municipalities either for the purposes of (a) diagnosis of suspected cases, (b) assisting the local authorities to enforce quarantine, (c) to stimulate them to more active work, and (d) to superinend in the unorganized districts the proper carrying out of the Regulations, and the quaranting of isolated cases of infectious disease.

During the fifteen months I have been absent from Toronto 277 days, and have travelled 25,000 miles and visited 176 municipalities.

Smallpox Inspection in Organized Municipalities.

Difficulties of Diagnosis : It is a regrettable fact, that after three years, with the continued presence of the disease in the Province, the difficulty still exists amongst members of the medical profession in arriving at a correct and early diagnosis of the mild cases, which somewhat resemble chickenpox, yet possessing sufficient clinical differences to make closer observation reveal their true character. I am of the opinion that many cases of so-called chickenpox, which have occurred in children and adults, have been smallpox of a mild type, and that there are many homes in this Province wherein lurks the infection of the latter disease. It should be the duty of all local health anthorities, and all members of the medical profession, to direct that disinfection be as thorough after chickenpox as after smallpox, since failure to do so in the past has resulted in a widespread diffusion of the infection, which at any time may break out in the more virulent form.

Indifference to the Disease and to Vaccination: Owing doubtless to the low death rate attending the present epidemic, the greatest indifference is displayed by all classes in regard to the adoption of quarantine, and the erforcement of vaccination. In some few instances there has been considerable display of opposition when the true character of the infection has been pointed out, and active measures have been called for by the Provincial Board. Many persons express themselves as preferring mild smallpox to vaccination, dreading the inconvenience and loss of time so frequently found to follow primary vaccination in adult life.

It cannot, of course, be expected that these objectors are fully informed of the great danger the unvaccinated run when exposed to the disease, even of the mildest type, of smallpox developing, in their case, into the severest form. Much less are they aware, on the other hand, that the successfully vaccinated are always protected, no matter how remote the operation, the degree of protection, however, varying with the number, size, and distinctness of the vaccination scars, the period at which the operation has previously been performed, and the natural immunity of the individual.

Vaccinal Protection; I have yet to meet with a case of varioloid (modified smallpox) in one person well vaccinated or revaccinated within seven years from the date of exposure: while many have been the instances where vaccination only once efficiently performed, even 25 to 30 years previously, has given complete protection, and of the modifying power of vaccination only once performed at a still more remote period of time, this, in one instance, being over 50 years.

That much unnecessary fear and alarm have been aroused against this highly important operation cannot be denied, and it remains with the medical profession and health authorities generally to re-establish confidence. To this end infant vaccination must be insisted on, and secondary vaccination before the children enter upon the wage earning period of life. For this purpose "glycerinated vaccine" alone should be permitted, and the use of the common ivory point become a thing of the past. With a view of still furthering the work, medical students should receive instruction in the technique of the operation of vaccination, a procedure, so far as I am aware, being at present generally neglected in the college course.

Abuse of Certificates: Another serious aspect of the situation, and one presenting great difficulties, is the fact that it has been for years a common practice amongst medical men to issue a certificate of vaccination at the time of performing the operation, without waiting the seven days wherein the virus pursues a certain definitely normal course, and upon which only can a certificate be issued. The number of such improperly certified vaccinations is very large, and it is time the practice was discontinued.

Compulsory Vaccination, its Failure and Remedy. The present method of carrying out compulsory vaccination seems to be quite inadequate to meet the requirements of our social conditions. It is found that the greater number of the employees of factories and workshops are called upon to submit to the operation, and that they resist, fearing a week or two's "lay off," for which they will receive no remuneration. Schood trustees, both public and separate, are alike somewhat reluctant to enforce the compulsory clauses of the Act.

To meet these difficulties it should be required of all employers of labor to adopt the Regulation applicable to unorganized districts, which makes it illegal for them to hire an unvaccinated person. If this requirement were preceded by one making it compulsory for school trustees to admit only vacclinited children to school, and to require certificates of secondary vaccination from all over ten years of age, this suggestion could easily be carried out. Such employees would not be affected at the wage-earning period of life, and we would soon have a well vaccinated population.

Isolation Hospitals: The prevalence of smallpox has forced many municipalities to provide temporary hospital accommodation for such cases, and in many instances this has been done by means of well-constructed doublewalled tents, usually 15 by 30 feet in size. Although there were a few objectors at first amongst the patients to their entering these canvas hospitals, yet they have been found in every way to meet the wants of either a city or township. As isolation hospitals they are suitable to rural districts, because of their portable character: and for the towns and smaller cities, from the fact that when not in use, they may be stored away from the public view; while their small cost is another important point for Local Boards of Health to remember.

Vaccination by Glycerinated Vaccine: The greater number of the vaccinations performed during the year have been with the glycerinated product, and on the whole, the results have been very satisfactory. Where the contrary has been the case, it has been due either to the operation being improperly performed, or to the inertness of the vaccine virus itself. To overcome this difficulty, it is quite evident there must be greater care exercised in the handling of the product, since exposure to heat, even for a short period, renders it inert. I am quite convinced that the accident often occurs in transit from the producer to the patient, the fault resting either with the postal department, the express company, the druggist, or the medical man himself, all or any of whom unwittingly may submit it to too great a heat. Hence, too great care cannot be bestowed upon it by keeping the place in which it is kept stored at a low temperature.

Local Medical Health Officers. While the work of the many Local Medical Health Officers in the past has been of untold benefit to the public, and while the public health of the Province has been greatly enhanced thereby it must not be forgotten that often it is performed at great personal inconvenience and financial loss to them. To expect a practicing physician to discharge the important duties of the office for a nominal annual fee, or often without any honorarium, is to expect too much; and as a result, in cases of an epidemic, the duties are too often imperfectly performed. To meet this difficulty, and for the furtherance of Public Health work, the office should be made a county one, only those possessing the necessary qualifications being chosen to give their time wholly to the work.

Public Health Work in Unorganized Districts.

New Regulations. The introduction of the Regulations of 1901 met with the general approval of the companies concerned, these being especially the lumber companies. The changes thereby brought about by the Regulations were of such a radical character that had it not been for the experience of the previous season, when smallpox was rife in the lumber camps, the difficulties of enforcing the employment of a medical man, and that of vaccination, would have been greatly increased. An old-time custom had to be met, viz., the sale of hospital tickets, a custom which for many years past had afforded the shantyman hospital treatment at the minimum eost of five dollars per annum for non-contagious diseases. The plan, doubtless, was good to a limited extent, yet abused in so far that often the tickets were sold beyond the area of the hospital's usefulness. Now the men appreciate the great advantages derived from the camp hospital, and the unto'ld benefits of a camp physician.

Vaccination of Employees. The enforcement of the regulation relating to compulsory vaccination has caused some inconvenience owing to laborers having been scarce; but I am pleased to report that the proportion of unvaccinated has been so small that the danger of any serious outbreak in any camp has been averted. About 75 per cent, have been successfully vaccinated; but this fact should not in any way prevent the yearly enforcement of the Regulations by the employers.

The improvement in the construction of the buildings and the sanitary location of the new camps is already apparent, and there seems to be a strong desire on the part of the firms operating in these districts to comply with the requirements of the Regulations.

As an indication of the good effect of the Regulations, I would state that so far this season smallpox has been reported in only three camps, and in each instance the outbreak was promptly dealt with by the company's physician, efficient quarantine being maintained, and the disease confined to these centres only.

As an illustration of what inspection has meant, the following will illustrate ;

P. H. BRYCE, ESQ. M.D., Sec'y Prov. Board of Health.

DEAR SIE, -I don't know whether a report on the operation of the Regulations for sanitary control in unorganized districts is required at the present time, however, I am pleased to report that the carrying out of the part pertaining to the medical attendance in this section has been almost a complete success. I have had charge of 28 to 30 camps, for seven different firms here and have had three assistants most of the winter. I had one very good general hospital in the woods and it was filled from Sept. 1st to April 30th and only one death during the winter. We had no appearance of smallpox during the season, nor of any other epidemic.

W. S. BUED, M.D.

Sudbury Isolation Hospital. The marked improvement in the care of infectious cases happening in the lumber camps was shown by the small number of smallpox patients treated in hospital tents near Sudbury during the winter of 1901-2.

The total number was fifteen, two of these being men who had crossed into this Province from the State of Michigan while suffering from the disease, and for whose care the hospital had to be kept open for a longer period of time than otherwise would have been necessary. For the care of these patients the Dominion Government is indebted to the Provincial Board some \$300.

As the Regulations place the responsibility for the care of all cases of sickness occurring in a camp upon the proprietor thereof, the cost of the hospital treatment of the smallpox cases has been charged against any company so responsible. I am pleased to state that so far this winter there has been no necessity for the re-opening of this hospital, and it is not probable there will be any further necessity for it.

Train Inspection at Pembroke and Ottawa. Upon the return of the first parties of shantymen from the Pontiac district, in the Province of Quebec, in the spring of 1902, it became quite apparent that smallpox had existed in the camps during the winter, and that there was danger of the infection being carried to the eastern municipalities. To meet this difficulty there were established two quarantine depots, one at Pembroke, and the second at Ottawa. The local authorities in both instances kindly placed buildings at the disposal of this Board, which were used for detention of the men, and disinfection of their persons, clothing, and effects. Four assistants were appointed to board the C.P.R. trains coming from the west and running into Pembroke, and the Pontiac & Pacific, and the Gatineau R.R., whose terminal is Ottawa. In this manner over twelve hundred men returning to points in this Province were vaccinated, each being detained until they were given a disinfecting bath, and their wearing apparel and effects fumigated with formaldehyde. The saving to the local authorities in the eastern portion of the Province can never be known; but, judging from the experience of other places in the previous year, before such measures were instituted at Sudbury, it must have been many thousands of dollars ; for undoubtedly the infection was prevented from being carried by these shantymen from the infected Ouchec camps. The assistance rendered by the Mayors and Corporation of the City of Ottawa and the Town of Pembroke, as also the Local Boards of Health. and the Medical Health Officers. was of the most cordial character, while the protection afforded these districts by the action of the Province was, it is hoped, fully appreciated.

Quebec Regulations re Camps. The adoption of similar regulations by the authorities of the Province of Quebec as those put into force in this Province materially lessens the danger for all time of infectious diseases being carried from the camps, and will, no doubt, obviate the necessity for train inspection at any time in the future. To further illustrate the value of this work and the appreciation of the Board's efforts, the lumber operators of the Ottawa district conferred in July, 1902, with the officers of the Provincial Boards of Health of Ontario and Quebec, and agreed to advertise that no unvaccinated men would be employed by any of them. Some 25 firms entered into the agreement.

Other Sanitary Investigations. The duties have been so heavy in the handling of smallpox that but little time could be given to outbreaks of other infectious diseases. I have, however, reported on three outbreaks of scarlet fever, and two of enteric fever, and trust that the information obtained, and the suggestions made, in these several outbreaks, have been of benefit to the local authorities.

In conclusion, I desire to thank the numerous Medical Health Officers, medical practitioners, and local authorities for their kind receptions and for the hearty manner in which they have generally co-operated with me in carrying out the provisions of the Act.

I have the honor to be, Sir, your obedient servant.

CHAS. A. HODGETTS, Medical Inspector.

CHAPTER IV.

REPORT ON METHODS OF SEWAGE DISPOSAL.

At the First Quarterly Meeting of the Provincial Board of Health, held on January Sth, 1902, the Standing Committee on Sewerage presented a report on "Sewage Purification," which gave a *resumé* of the progress of sewage disposal in Ontario during the previous twenty years. After summarizing the results and indicating some of the principal difficulties which municipalities have experienced in dealing with the problem, the Report goes on to state:

"Clearly, then, the question of sewage disposal is one requiring (a) a thorough practical knowledge of the engineering, geological and agricultural conditions likely to be suitable to any given case; (b) an eqnally intelligent knowledge of chemical and biological problems necessary to keep the sewage in any given ease in a condition most favorable for a rapid and natural decomposition by biological processes, and (c) a consecutiveness of thought and purpose in the oversight and management so that the trained operator will learn thoroughly at least one particular plant so that economy in management with a maximum of good results may legitimately be expected." "The municipal council, however, which by law is required to adopt such means as will prevent

"The municipal council, however, which by law is required to adopt such means as will prevent the pollution of the adjacent streams by its sewage, may very naturally ask: How are they to be expected to be equal to such things? The answer of the law is, that the means of abatement must be found by the person who creates the nuisance. It might further be said that a town should not erect industries until they know they can prevent them from becoming nuisances."

"All these answers might equally be given with regard to methods for dealing with contagious diseases, and perhaps with more reason since there are some 2,500 trained physicians in the Province supposed to know all about how to deal with smallpox and other diseases. But as a matter of fact the Government, through this Board, gives constant and great service to municipalities through its officers and laboratory; and there can surely be no logical reason why, if it can be found practicable, in the more difficult and complex biological and chemical problem we are eonsidering, some assistance should not be given, both to improve works already established and to advise in the operation of new works, which with our rapidly growing industries must from year to year be instituted." "The coming year is likely to see the work taken up in three or four cities, smaller towns will be introducing sewerage, and your committee feels that a great step forward in the Board's work.

"The coming year is likely to see the work taken up in three or four cities, smaller towns will be introducing sewerage, and your committee feels that a great step forward in the Board's work would be gained if the Board were placed in a position first to gain for itself all the available knowledge as to the methods being adopted elsewhere in working out these problems to a successful issue, and thereafter to give our cities the benefit of such knowledge."

The Report, after discussion, was adopted by the Board. When, two months afterwards, a deputation from town municipalities was received by the Government, and presented arguments and made a request that the Government should undertake some experimental work in the problem of sewage disposal, the Board's Committee, when consulted, naturally strongly urged that such work be undertaken, and that to this end a grant be made by the Legislature for the purpose. This year, as a beginning, a grant of \$2,000 was placed in the Estimates, which amount has been more than exhausted by the work carried on by the Board at Berlin.

The following Report on the Disposal of Sewage has been prepared by Dr. J. A. Amyot, Director of the Laboratory of the Board, assisted by G. G. Nasmith, B.A., Chemist, who has aided greatly in the experimental work.

P. H. BRYCE.

Secretary.

REPORT ON SEWAGE DISPOSAL.

By J. A. Amyot, M.B.

To the Chairman and Members of the Provincial Board of Health:

Gentlemen,—Last spring a deputation, representing several urban municipalities, waited on the Government to ask that something be done in the way of experimental work to aid municipalities in the difficult problem they had to face in the disposal of their sewage.

They represented that inland towns were especially interested, that it was difficult to get reliable information with reference to different systems for the disposal of sewage, that this was made more difficult from the fact that different standards of purification were required, that all sewages were not alike, that some towns had manufacturing wastes that were difficult to handle, and that the natural conditions of each town were different, necessitating different procedures in disposal.

The Government laid aside a certain sum of money for investigation along these lines, and called on the Laboratory of the Provincial Board of Health to do the work.

Berlin was chosen as the place to begin in, as there existed there a greater variety of factories giving objectionable wastes than in any other town or city in the Province.

Spasmodic efforts had been made to dispose of its sewage, but with very little success. The sewage, practically untreated, was being discharged into a small creek, which became nearly dry during the summer, so that it became practically an open sewer, and was complained of as a nuisance by those living on the stream below the town. A suit was pending against Berlin on account of this. No other town presented so many problems, and there was none where the question was more pressing. It was accordingly chosen. On March 28th, your bacteriologist visited Berlin to look over the ground and formulate plans for the work. Five days were spent visiting the factories to learn their methods of manufacture and to find what wastes, in what form, and with what intermission, were being discharged into the sewers. The existing sewage disposal plant was also visited and looked over thoroughly. A week later he visited the Eastern States, especially Massachusetts, to investigate the methods of sewage disposal in use there. Three weeks were spent in this work.

On May 2nd, accompanied by the chemist, work was begun at Berlin.

At this time Berlin had at its disposal plant a septie tank of 60,000 gallons capacity, and two coarse gravel beds of 23,000 gallons interspace capacity each. The sewage reached the farm by gravitation. There was a general impression abroad that the sewage, on account of factory wastes, was non-treatable by bacterial methods. The septic tank was being discussed on all hands, and contact beds were the talk of the time. The problems then seemed to be: Is the sewage treatable? What is the value of the septic tank ? What will contact beds do with this sewage ? What is the best material to make these beds of? How large should the material be? etc.

Fourteen acres of intermittent filtration beds, of a poor material, being chiefly clay, were being used. Some of the beds were being cropped. The effluvia about the farm were disagreeable. The beds were in bad repair. The effluent passing into Schneider's Creek was very bad-looking, and of sufficient quantity to render the water quite opaque and blackish in appearance and very offensive in odor.

A laboratory was established in the town in a large room provided by the municipal authorities. They also supplied town water. The laboratory was fitted up by us with tables, plumbing and gas fixtures, and a gas meter. There were many aggravating delays in getting apparatus and chemicals, so that the laboratory was not in running order until June 26th. To test the possible germicidal effect of the gas-works liquor on the sewage, a septic tank of 600 gals, capacity was put in 200 feet above the gas-works, another of the same capacity some two hundred yards below them on a by-way from the main sewer. The cleaning out of the town's septic tank at the farm was begun, also the construction of an 1,800 gal. septic tank, that could be more easily controlled as to flow, etc., than the large town tank. After this, the construction of four contact filter beds was begun to test the value of different sizes of materials and different materials; to control the capacity, each bed was made independent of the other; and, finally, a continuous filter after the Stoddart model was put in. As the town's gravel beds were found to be completely sludged up, and could not be filled in less than six hours with the means at disposal, they were abandoned as part of the experiment.

On May 27th we were able to start the uptown septic tanks, but not those at the farm until June 25th. The beds (the three gravel ones) were finished later, and put in operation on July 2nd. The coke for the fourth bed did not arrive until August 2nd. The bed was started on Aug. 6th. The cinder continuous treatment bed was put in operation on July 31st.

The experiments were carried on most vigorously until Oct. 4th, when they were discontinued and the laboratory moved back to Toronto, the beds being left in charge of the town's employees to be continued in their operation.

Sewage and Methods of its Examination of It.

In dealing with the problem, the first question naturally arising is, What is sewage? Two kinds are usually spoken of, viz., "Domestic Sewage" and "Manufacturing Wastes." Sewage is the liquid contents of a sewer, made up of human and animal excreta (faeces and urine), kitchen, house, personal and clothing washings, and, in some cases, even street washings. It contains, as a rule, not more than 150 parts of solids per 100,000, or 105 grains in one gallon, and of this only about 55 parts are of organic material, the rest being mineral substance. It is, consequently, not practically burnable as garbage, consisting of old vegetables, dead animals, chips, old paper, rags, etc., would be.

The organic matter is half in suspension and half in solution. The latter, of course, cannot be screened out to burn, and is even more putres cible than that in suspension.

Domestic sewage looks much like dirty dish-water, and contains fatty matter, soap, bits of paper, some rags, more or less finely divided, remains of meat, and vegetables and fruits, starches, sugars, and mineral matter, even wood dust, sand, etc. The organic matter of these substances is variously putrescible, and this by different agencies; fats being by one, sugar and starches by another, and the various proteids yet by others. The mineral matters do not enter into the question, except mechanically. It is this organic matter that has to be disposed of in the various processes of "sewage disposal." The wastes from factories are as varied as manufactured articles are. Even with the same product, as the processes of production vary the wastes vary, as, for instance, in the process of tanning sole leather, shoe-top leather, harness leather, glove leather, etc., are produced. All these are subjected to different processes. The wastes from all these necessarily should vary, and do vary. The wastes of many factories have mineral matter and organic matter in them. This last is what is to be treated. In the mineral matter there are usually substances which interfere more or less with this treatment.

In connection with the varying composition of sewage, there is variation with the time of day in domestic sewage, even as to composition. In that of the morning, there is more organic matter present, and less at night. Monday is the usual washing-day. Sewage varies thus with the days of the week; but this variation is especially a fact in manufacturing wastes; totally different substances are being discharged into the sewers from hour to hour even, as well as on different days. Sunday is a free day usually. All these changes and variations have to be taken into consideration in any plan of disposal adopted to get anything like uniformity of treatment.

On the whole, wastes originating from animals and their tissues, though more objectionable and harmful, are more easily disposed of than the wastes Organic matter may come from diseased animals, from vegetable life. and may thus convey disease. The excreta from healthy individuals may give rise to sickness. This organic matter putrefies, giving rise to odors that are objectionable and injurious to health, and in this process of putrefaction gives rise to poisons. Organic matters, other than animal. in origin, that are putrescible, may also give rise to more or less poisonous substances. Hence discharging sewage into drinking water, either for man or animals, is objectionable, and to be avoided if health and life are desired. Putrefaction, rotting or fermentation is Nature's method of getting rid of all this organic substance. When this process is complete, nothing is left but mineral matter. It is objectionable in the intermediate stages. No sewage is completely purified so long as there remains anything in it that is putrescible.

Sewage disposal is then really the mineralizing of organic matter. This **is done in Nature by the agency of those minute microscopical vegetables.** the bacteria. Practically no putrefaction takes place without the agency of these microbes.

Methods Used to Arrive at a Discovery of the Composition of Sewage.

Gauging the Flow.-This is as important as to know the quality of a sewage in order to arrive at an estimate of the amount of plant required to treat a given sewage. The flow varies at different hours or on different days, and at different seasons. The dry weather sewage is the usual standard to go by, because it gives more nearly the organic strength of the sewage, and this is what is treated. The sewage in wet weather is subject to so many variations that it is difficult to measure the amount of water diluting it, since the rainfall varies greatly. A light, though continuous. rainfall may give the same amount of water as a sudden summer shower, but will affect the sewers quite differently. One will flood them out: the other will sink into the earth, and, perhaps, not add much to the sewer contents. The dry weather sewage, since this is usually in the summer months, has also another aspect, especially in inland towns, viz., the carry ing away of the sewage by smaller and smaller stream flows, thus giving rise to more and more nuisance. Direct measuring with measures of known capacity in a given time is a simple method where the flow is not too great, as, for instance, a hotel or institution, a small hamlet, etc., and is sufficiently exact, provided reasonable care be taken with the time and the accurate filling of the measure, and the measurements be taken over a sufficient period of time. For large quantities, as in cities or towns, weiring of the main sewer is the simplest method, and accurate enough. This consists in causing the whole flow to pass over a sharp-edged horizontal right-angled dam or weir of known height, and measuring the depth of fluid over the weir at intervals to get an average, at the same time using weighted floats to learn the rate of flow.

With these data, viz., the length of weir, the height of fluid flowing over the dam, and the rate of flow in a given time, there is no difficulty in arriving at an estimate, at least of the flow in the twenty-four hours.

Taking Samples for Examination.—To be accurate, these should be taken at frequent intervals (half-hours or hours), and always in a quantity corresponding to the flow at the time of taking. There is not always time to do this, nor is it always possible to get labor sufficiently intelligent to make such varying quantity collections, so that it is usual to collect a stated quantity at regular intervals. These are poured into a large bottle or receiver, and kept in the cold, ice being used if necessary, until carried to the laboratory. The examinations are made from aliquot portions of this. It is hardly necessary to mention that the greatest care should be taken in having all receivers "chemically clean." Decimal parts in a hundred thousand are being dealt with.

Terms Used in Speaking of Sewages.—The term "raw" is used for sewage as it leaves the house or the factory, and "stale" is such as has heen in the sewers some time, and has undergone some changes, evidencing this in its acquired odors and changes in appearance, and is such as is found at the outlet of a main sewer. "Septic" is a sewage that has undergone a considerable anaerobic bacterial change. "Affluent" is the sewage of whatever character going into or on to any sewage disposal plant. "Effluent" is sewage as it passes out of this apparatus, whether a screening chamber, a septie tank, or a treatment bed of whatever kind.

Temperature.—This is taken of both the "affluent" and the "effluent." It is one of the gauges of the treatment or chemical changes taking place in the apparatus. Chemical changes are accompanied by changes in temperature. In the case of a sewage disposal apparatus, allowance should always be made for the surrounding temperature, warming in summer and cooling in winter. Sewage does not freeze as quickly as pure water, nor does it, when frozen, form as solid ice water does.

Turbidity.—Under this heading, the sediment and the scum are chiefly taken note of. As the seum may be fat, oil, tar, or wood fibre, this has to be taken into account, from their behavior in reference to treatment of bed surfaces. The sediment is gravel, or what? This is dried and the weight for quantity estimated; then incinerated for estimation of the volatile or organic substances, and the mineral remains, or ash. This gives an estimate of the amount of the total organic matter to be treated, without reference, of course, to its quality, and is usually slightly over one-third of the total solids. Another estimate is made with the scum and sediment, viz., the quantity of matter in suspension and in solution. Both of these dried show the total of each. When incinerated they show the organic and the mineral matter in each.

Usually about half of the organic matter in a sewage is in solution, the rest in suspension. The variation in the mineral matter is greater. Sometimes less than half is in solution, generally much more than half. The microscopic examination of the sediment is sometimes of considerable value, as showing vegetable and animal remains present, aside from living plants and animals. Color.—This is of the greatest value in telling us what is coming down with a sewage and as indicating when certain substances are coming; since, especially when there is much manufacturing waste, there is much variation in the quality of a sewage from hour to hour. The red-brown color of tannery waste may be taken as an example of this, or, again, the presence of certain dyes. Where "selective" methods of treatment are in use this is especially of value as indicating when to treat one portion and when another. These colors have to be noted and learned for each sewage, because two combinations are rarely alike.

Changes of Color.—These in a sewage in process of treatment are worthy of note also. For instance, at Berlin, during our experiments, the first indication of septic action in the tanks, and afterwards of oxidation in the beds. was shown in the changes of color undergone by the tannins of the sewage. When all the tannins are not removed in an effluent, and it enters a stream, no reaction may be produced; but, as happened in Berlin, a valuable indication was given of the presence of iron in the receiving creek, by the immediate blackening of the water and effluent mixture.

Odor.-Stale, septic and treated sewage have their own odors, and these with any given sewage may be useful in indicating what is going on in it. The effluent from a sewage disposal plant should have either no odor at all or only a slightly earthy one. Anything else shows deficient or incomplete treatment.

Reaction.—Sewage is generally neutral. It may be alkaline or acid. In chemical treatment, it is essential to know this, e.g., when lime is the treating material, if the sewage is neutral or alkaline, the lime that will be used will be all towards precipitation; if the sewage be acid, enough will first have to be added to reach the neutral point, then more added for the precipitation. More efficient treatment can be done in this manner, for an excess of lime does not mean more treatment, because some of the organic matter is redissolved in an excess. Watching the reaction conduces to economy also. Two indicators are used, phenophthalein in solution, producing a bright red in alkaline substances, and blue litmus in solution producing a red color in acid solutions. The solutions are kept in "drop-bottles," and, when required, are sprinkled on the sewage as it passes, giving distinct color reactions.

Gases Produced.—There is a movement at present to make this a test of the working of a sewage plant, especially in the septic tank department of it, from the fact that in this test a great deal of the organic matter is converted into gas. It is certainly valuable, but other compounds are formed as well as gas, being a sort of priming or formation of simpler compounds from the organic matter which will later be more easily oxidized when they reach the oxidizing beds proper. These gases can readily be gathered by just sinking below the surface of the sewage the mouth of a large finnel, to the spout of which is a tube carrying the gas into a proper receiver. The usual gases gathered are CO^2 , CH^4 , C^2 , H^4 , CO, H^2 and N^2 , $H \, {}^2S$, or $(N \, {}^4)^2$, Smay be present, and, perhaps, others; also ammonia is left in solution.

Free Ammonia.—In verfectly fresh sewage this, except accidentally, is not present; but the substances out of which it is formed by a process of hydrolysis in the progress of fermentation are. Of these, urea, one of the chief nitrogenous constituents of urine, gives origin to most of it. Higher, nitrogenous organic compounds also give rise to it in the process of their decomposition. Ammonia is very soluble in water, and, consequently very little of it escapes into the air. The quantity of this gas present in a sewage or a water is an estimate of the nitrogenous organic matter already decomposed. Its presence is shown by treatment with a standard solution of the iodide of mercury (Nessler's solution), and .008 mgm. of ammonia. in 50 cc. of water can be shown by this method. The process is called Nesslerizing. It is a colorimetric method, and depends on the comparison of the solution in question with a series of standard ammonium solutions, treated by the same agent (Nessler's solution). The color is a yellowish brown. In the examination a fixed quantity of the sewage is taken. It is usually necessary to dilute this with water—(of course, distilled ammonia free water is necessary)—generally one in fifty parts. It has been recommended to examine, without any further preparation, in 50 cc. Nessler tubes. However, it is usual to distill off the ammonia by boiling. This is said to alter the organic matter present, but hardly seriously. The free ammonia usually comes off in the first 150 CC. of the distillate; what sewage is left in the flask is then treated to obtain the albuminoid animonia.

Albuminoid Ammonia. It is no special form of ammonia. It is simply ordinary ammonia, obtained from a water or sewage by a chemical decomposition of the not yet completely altered, or the unaltered albuminous or proteid matters present. This albuminous substance constitutes the greater part of the nitrogenous substances present in a water or a sewage. It is probably the most important substance, estimated by ordinary laboratory methods in water or sewage examinations. It is this proteid portion of a sewage that gives rise to most of the trouble experienced from the pollution of a water supply. It is chiefly on the percentage removal of this albuminous constituent that an estimate of the efficiency of any sewage disposal plant is made. It is computed by estimating the quantity of ammonia recovered by distillation and Nesslerization after the decomposition of the albuminous substances by the action of a strongly alkaline solution of permangancte of potash, with the application of heat.

Oxygen Consumption.-This is, after the albuminoid ammonia, the next most important estimation made in the examination into the quality of any given sewage. It represents the proteids plus the carbonaceous materials of the organic constituents of the sewage. It simply represents what is oxidizable in a sewage. Instead of using free oxygen, which would be difficult to handle, there is used a substance, permanganate of potash, which contains a fixed quantity of oxygen, that it will give up when in reaction with organic substances. There are organic substances which this process will not reveal, and also mineral substances with which it reacts: but, in spite of this, and this is only a very small source of error, it is a very valuable point in the estimation of the constitution of a sewage, and again in estimating, by the disappearance of the substances which give rise to the reaction, the value of a disposal system. In procedure, the perman ganate is made into an accurate standard solution. The sewage is taken in a fixed quantity, and boiled with a solution of sulphuric acid, and then treated with an excess of the permanganate solution, while boiling gently, for three minutes. Sometimes the estimation is made in the cold, using hours instead of minutes. Each has its advantage. The three minute method is most frequently used in laboratories. This is then decolorized with an oxalic acid solution, which also is a carefully standardized one, and again titration with the permanganate solution is done until a permanent pink color is produced. The oxalic acid corresponds to a certain quantity of permanganate of potash. This is estimated, the remainder of the permaganate used represents how much oxygen has gone into the organic matter of the sewage. This is what is meant by oxygen consumed.

Chlorine.—This is estimated by titration against a standard solution of nitrate of silver, using chromate of potash solution as an indicator. It represents chiefly the common salt present in the sewage. When not used in manufacturing processes it is chiefly from the urine, and allowance must be made for the kitchen as a source of it. In sewage examination, it is not of so much value as in water analysis. Its chief use in sewage examination is as a measure of dilution. especially when the effluents enter small streams. For instance, if the chlorine contents of a stream above a sewer inlet is known, and the chlorine of the sewage entering is also known, by examining the mixture far enough below the sewer entrance to permit of thorough mixing, a very accurate estimate of the dilution is found.

Chlorine is not materially removed by treatment. It is usually present as sodium chloride or common salt, in solution, and is a harmless mineral compound.

Nitrites and Nitrates.—These are the end products in the treatment of the nitrogenous substances of the sewage, where part of the treatment is oxidation. In the management of sewage treatment beds, these are taken as the evidence of efficient oxidation in the beds. In one of the overworked town beds in Berlin, on examining the effluent, no nitrites or nitrates were found, and all the albuminoid material was removed. Free anmonia was found in very large quantity. A complete septic tank treatment had taken place, with no oxidation of the ammonia produced.

In septic sewage no nitrates are found, but occasionally a trace of nitrite.

In examining for nitrites their presence is shown by a colorimetric method, with an acid solution of metaphenylene-diamine, against standard solutions of sodium nitrite in Nessler tubes.

In examining for nitrates, we have been in the habit of using electrolysis, by means of a zinc-copper couple, to decompose nitrites and nitrates into ammonia, estimating this, subtracting the original free ammonia content of the sewage, and also the quantity corresponding to what nitrite has been found by the previous method. Then, by converting the ammonia formula into free nitrogen, we express the result as nitrogen present as nitrates, without any reference to the form found. When we have added the free ammonia, the albuminoid ammonia, the nitrites and nitrates together, we have the greater part of the nitrogenous compounds of the sewage accounted for. The remainder is of such a kind that it is with the greatest difficulty decomposed. It is often found in beds where active oxidation is going on, that the albuminoid ammonia in the effluent is in greater quantity than was present in the affluent. It is probably out of this remainder that. by oxidation, the additional albuminoid ammonia is formed. This very stable nitrogenous substance is now converted into such albuminous substances as are capable of being converted into ammonia by the action of the alkaline permanganate of potash solution used.

The presence of this remaining nitrogen may be shown by the Kjeldabl method, which, by the action of continued heat and strong sulphuric acid, converts all the organic nitrogen of the sewage into free ammonia. This is then estimated, after neutralization has been accomplished, with 25 per cent. sodium hydrate solution by nesslerization. The original free ammonia is subtracted; the remainder represents the albuminoid substances, the nitrites, the nitrates and this above-mentioned nitrogenous remainder, and is all classed together and called the organic nitrogen of the sewage.

Bacteriological Examination—The ultimate decomposition or disposal of a sewage is by bacteria, whatever method of disposal we adopt. There are numerous varieties of them. There are varieties, probably, for the decomposition of each of all the organic compounds found in a sewage; some for each sugar, each starch, each fat, each proteid, and so on, divided into two great classes. The anaerobic bacteria are those performing their function in the absence of oxygen by a process of hydrolysis, while the aerobes are those requiring oxygen for the performance of their function by a process of oxidation.

The bacteria are gathered up by the sewage from all directions. Bacteria are practically omnipresent. In a plant where septic tanks are used, the conditions favoring the anaerobes are present, a process of selection by circumstantial surroundings takes place, and the anaerobes thrive. The acrobes are not killed out, but are simply rendered dormant, as it were. When the effluent passes from the septic tank on to an oxidizing bed all the conditions are present for a free supply of oxygen; the anaerobes become dormant; the aerobes now thrive, being selected in turn by their circumstantial surroundings. The chief bacteriological examination made in sewage work is counting the bacteria in a given quantity of a sewage. One cubic centimetre is the standard quantity. This is with the object of finding the nutritive value of a sewage. The more rich in organic matter. the more will such a liquid support. As sewage passes through the successive parts of a disposal plant, the number becomes less and less, until **finally** we count them in thousands only in a good effluent, whereas in an ordinary stale sewage we may find as many as 15,000,000 to 30,000,000 to one cubic centimetre of fluid. The counting of the bacteria has another object, and this is especially the case in dealing with manufacturing wastes. It is to see if the particular sewage is inimical to the growth of bacteria, and as to whether it is consequently in its present state a treatable sewage by the bacterial method, or of finding if by some special process of handling it might not later be made into a treatable material for the bacterial method, the ultimate one in any case.

Bacteria crowd each other out; but it is still a question whether patho genic, or disease producing, bacteria are killed out in a sewage disposal plant. The nearer the effluent from the plant is to pure water, the less it will support these bacteria, and the sooner will it ultimately starve them out.

Bacteria from sewage are counted by a process of plating with a favorable medium for the growth of the bacteria. It is necessary in most cases to dilute. This is usually done in water previously sterilized. By experiment, the dilution is got down to where not more than 250 or 300 bacteria are contained in one cubic centimeter of the diluent. Many colonies growing on a plate of culture-medium inhibit each others' growth. The growths are usually made at 18 to 22 degrees C. of temperature, and under aerobic conditions only. This, of course, is error in the case of septic tank contents. These must be grown under anaerobic conditions, but such are extremely difficult and awkward to maintain. The more complicated a method, the more the chances of error to creep in are, and on account of this anaerobic cultures are not frequently made.

Degree of Purification Required of a Good Disposal Plant.—The ideal of course, is pure water, such as could be used with absolute safety as a drinking water. This is not possible by any of the methods now in vogue. The intermittent sand filtration method has come the closest of any method to this goal. No person has been found daring enough yet to recommend even this sand effluent as a drinking water, though from a chemical standpoint, much worse waters are habitually drunk without harm. In the case of a sewage effluent, though, we are dealing with something that is removed from pure sewage by too small a margin. We cannot yet be assured that pathogenic bacteria have all been killed out in the passage of the sewage through the beds.

Nature has her methods of purifying polluted waters. Water-courses are depended on for drinking water. It is in these where Nature does her work. She needs time, though, to do it. When too much to do is put upon her, she simply deals with what she can and passes the rest on. Is a city or town at that point on a stream or river where she is passing the work on to be gone at later? This city or town, if it attempts to use the stream or river water as a drinking water, gets unaltered, or nearly unaltered, sewage, and we know this means typhoid fever, diarrhoea, etc., etc., So that now, when we consider the work a sewage disposal plant will be required to do, we shall have to think of the requirements of the stream receiving the effluent. Is the water to be used for drinking purposes, either for man or animals? It is as necessary to have good water for animals as for man. because animals used as food by man must be in sound health to become good food, and if they drink sewage water, we cannot be sure that they will be in good health. Where much dilution can be obtained, the sewage is soon rendered nearly harmless. Is the water body a running one or, like a cond or lake, a comparatively stagnant one? Mixing does not take place quickly under these circumstances. Then, how far below the outlet is the water used for drinking purposes?

When a water reaches that point where it is to be used for drinking purposes, chemically it should not have more than .005 parts of free am monia, or .023 parts of albuminoid ammonia, or .740 parts of oxygen consuming material to each 100,000 parts of the water. When this is taken into account, with a small stream receiving much sewage, the requirements from the sewage disposal plant are great. For instance, a disposal plant emptying its effluent into a stream which during dry weather does not send more than three times more water than sewage, would have to show such an efficiency that at least not more than .015 parts of free ammonia, .069 parts of albuminoid ammonia, and 2.220 parts of oxygen-consuming material per 100,000 be found in its effluent, and that this be non-putrescible.

If the stream, at its smallest capacity, were larger, say, sending for dilution ten times more water than sewage, then the plant's efficiency could pass whilst allowing .05 parts of free, .230 parts of albuminoid ammouia and 7.40 parts of oxygen-consuming materials to pass into it.

In the Eastern States, if the flow equals fifty times the quantity of sewage, the sewage is allowed to pass with a less complete treatment into the stream, but always with a protest, especially if a town is situated at a short distance down stream taking water from this source. It is difficult to set up a general standard; each case must be taken by itself, and, from circumstances, a standard made for it, always keeping in sight the fact that no drinking water should have more, under ordinary circumstances, than .005 parts of free ammonia, than .023 parts of albuminoid ammonia, and than .740 parts of oxygen-consuming material per 100,000 parts. A really good water would contain near what a Lake Superior sample would show, viz., of free ammonia .003 parts, albuminoid ammonia .005 parts, and oxygenconsuming material .115 parts per 100,000. It is to be understood that the effluents spoken of must be practically non-putrescible when entering the stream.

Fixed standards for purification have been made. For example, the Mersey and Irwell Joint Commission class as good an effluent, which absorbs less than .142 parts of oxygen and which evolves not more than .142 parts of albuminoid ammonia per 100,000.

The Inspector of the Ribble Joint Commission classes as good an effluent if the albuminoid ammonia liberated is below .1 part in 100.000, provided suspended matter is absent and the presence of nitrates is confirmed.

The Derbyshire County Council defines a good effluent as one which contains less than .1 part per 100,000 of albuminoid ammonia and which contains more than .5 parts per 100,000 of nitrogen as nitrates, and one which subsequently does not undergo putrefaction.

The oxidizable matters from factories not dealing with animal substances are often not harmful; in fact, in many cases, are not even putrescible, so that standards must be flexible.

On the whole, the Irwell Joint Commission's standard for an effluent is the one generally accepted, viz., .142 parts of albuminoid ammonia and .142 parts of oxygen consumed per 100,000 parts, provided it is non-putrescible in a week.

Constituents of Sewage.—Organic matter may be conveniently divided into three classes—carbohydrates, fats and proteids. These substances, in Nature are decomposed bacteria, and probably each compound has its own decomposing variety of bacteria.

The carbohydrates, such as cellulose, starches, and sugars, as also alcohols, certain organic acids, as lactic, acetic, etc., are acted on by microbes, sometimes converting them directly into gases, such as hydrogen, carbonic acid gas, methane, e.g.:—

(Cellulose), $C_6 H_{10} O_6 + H_2 O = 3 CO_2 + 3 CH_4$ (methane)

(Sugar)
$$C_{6}H_{10}O_{5} + H_{2}O = C_{6}H_{12}O_{6}$$
 (Sugar) $C_{2}H_{12}O_{6} = 3 CO_{2} + 3 CH_{4}$.

Or the sugar may be converted into alcohol and earbonic acid, the alcohol in turn into aldehyde and water, this last into acetic acid, and this even into formic acid, and this finally into carbonic acid and water. In this way the original substance is gradually reduced in quantity, and finally all goes into the air. These processes take a very short time, twenty-four hours, or even less, under favorable circumstances, is enough for their accomplishment.

The fats are also decomposed by bacteria. This is why fats become rancid. Fatty acids are set free. Of these, some combine to form soaps with any free alkalies that happen to be present in the sewage or surroundings; others are further simplified by oxidation, and may finally be completely gasified. The glycerine that is left is soon decomposed into gases. The soaps are decomposed, and further changes take place in them until finally all the fat, step by step, is gradually removed. The process is more tardy than that dealing with the carbohydrates, and we will see later the effects of this in the treatment of sewage and in the handling of the disposal beds.

There are also proteids and proteoids, including the various albumins, myosins, gelatines, keratins, and such nitrogenous derivatives, as albumoses, lysins, lecithin, creatins, tox-albumins, ptomaines, leucin, tyrosin, glycin, urea, indol, skatol, etc.

This last class makes up the nitrogenous portion of organic matter. It is the part directly coming from living tissues. There substances are highly complex, and of the organic substances this division is the most important. It is the portion that gives rise to the most disagreeable and nexious odors and to the many poisonous products that are derived from putrefying organic matter, e.g., in canned meat and game and fish poisoning. As the bacteria which decompose these complex substances are varied, their pro The gases produced from these substances are amducts are also varied. monia, nitrogen, carbonic acid, carbon monoxide, oxygen, hydrogen, and ammonium sulphides, and various very offensive aromatic gases, e.g., this alcohols, mercaptans, phenols, etc. The production of these gases is varied by, apparently, at least, very trivial circumstances, e.g., little differences in temperature, reaction of medium, slight changes in composition of media, etc. These conditions are not all known. Bacteria are present practically everywhere. Nothing we touch is free from them. If the tissues of fruit or animals are injured or killed, and these bacteria can gain access to the affected parts they immediately begin the process of disintegration. The result of their work is the removal of so much now useless organic material in its original form. Gases are formed which go off into the air, while the remainder is liquefied; other compounds are formed and again other gases. So the process goes, until finally there is practically nothing left but the mineral matter. This is Nature's method of getting rid of useless organic and encumbering matter. These gases are not wasted, for they are taken up by plants, and again by a step after step reversal of the process taking place. the elements are brought back to living tissues, gases and minerals to plants, plants to animals, animal tissues back to gases and minerals, and so the cycle is completed.

Now, in sewage disposal all these processes are brought into action in the ideal method. The organic matter is decomposed, the products form food for plants, the plants form food for animals, and so around again. The complete process, that of land-irrigation for crop-raising is under some circumstances, though desirable, a too expensive method. We are then satisfied with gasifying and mineralizing the matter, thereafter discharging it into water-courses, and allowing it to become food for water plants, and these to feed fishes, which are returned to us as food. It is often said that it is wasteful to cast this refuse into water-courses, and thence into the sea. This plant and afterwards fish-feeding phase has been overlooked.

In sewage there is fertilizing material; but it is present in a relatively small quantity. The process of separating it in any quantity for this purpose may be too expensive. There are much cheaper methods of getting the same amount of nutritive material for plants. The idea prevalent of being able to make money out of sewage disposal by any of the present methods has been responsible for a great deal of misunderstanding, and has been a hindrance to sewage disposal as a principle.

Methods in Use to Dispose of Sewage.

Various methods are in use for the disposal of sewage. They all have good points about them, and some bad ones also. None of them is perfect. Most of them are based, though, at one time this was not known, on the action of bacteria for their success, and, of course, the methods that give the most favorable circumstances for their growth give the best results. Other methods are used, e.g., chemical precipitation, but ultimately bacteria are called on, even here, for final removal. This method is simply temporizing. One method is applicable to one place, another to another, according to natural advantages or disadvantages existing at the place of disposal. Some places have sand, some have not; some can use gravity to carry sewage, others have to pump; while some have plenty of space, others have it contracted. Such methods as the following have existed:

(a) The Indian moves away when an encumbering amount of sewage accumulates, and pitches his wigwam elsewhere.

(b) It is thrown on the soil in the back-vard. A great part of it sinks into the earth, and so long as it can filter through and run away to give a chance for the next deposit to do the same all may be well. But unfortunately the land, as a rule, soon becomes water-logged; the water, with its contained sewage, is retained, and soaks further and wider into the earth, and if a well happens to be close at hand, enters into it. Now, this waterlogged earth forms a continuous medium for bacteria to grow in, and, if by misfortune, disease-producing organisms happen to reach this soil, they will have a fair chance, through this continuous water stratum, of reaching the well to be drunk with the water. And even though disease organisms do not penetrate by this process, organic matter in solution getting into a well gives food material for bacteria, if any should be present. An ideal pure drinking water is one that contains so little organic matter, or the derivatives of it, that it is unsuitable as a food material for microbes. The organic matter in a water is chiefly harmful from the fact that, on account of its nutritive quality for microhes, it may encourage their growth. Bacteria falling into pure water through dust, from drippings from well-tops, etc., may be killed out in a few days; but if the water have organic matter in it, and this only in decimal parts, even in a million, the bacteria thrive and multiply rapidly, and if they be disease-producing ones, produce disease in those drinking it. There is another objection to this system, viz., the odors emanating. These may be only disagreeable, but, unfortunately, many of them are harmful to health; not of themselves producing disease, but are auxiliary to some "efficient" cause in that they lower the general health and vigor of the body. One would think, when passing through the country, from the filthy appearance of yards and barn-yards, that our farmers had come to the conclusion that it was good for their cattle and them selves to have these odors about. They drink bad water and smell bad odors, and they suffer for it, though they should be the healthiest people in the land.

The difficulty underlying this method is that, from a small piece of land much more work than can be done by its bacteria is expected. What the land cannot treat accumulates. The bacteria, overfed and then bathed in their own products, are killed out, just as the acetic acid in vinegar production, when it reaches a certain percentage, at first checks and then kills out the acetic acid bacilli. Now, if circumstances become favorable, e.g., the temperature increases, dry weather comes on, or drainage is brought about, the bacteria grow again, and bad odors commence. If the conditions continue favorable all the organic matter may thus be got rid of. We shall find later that the principle has its application in the periods of rest given to working filter beds.

(c) Discharging Sewage Into Water Courses.—Here, again, we depend on the action of bacteria for the removal and treatment of organic matter. These bacteria are present in the water, being carried in by the sewage. But the sewage undergoes certain changes, aside from the action of bacteria, from admixture with the water. The brown waters from north of Lake Superior lose their color in a very short time after reaching the lake. The lime and other salts in the lake and bay water, or those in the river water, along with the active oxidation which goes on from the great quantities of oxygen dissolved in the waters of these great bodies, quickly precipitate it, while at the same time it carries to the bottom by gravity with it suspended particulate matter. Here it is attacked by anaerobic bacteria, and is either completely gasified or liquefied; a process of hydroFysis taking place. A molecule of water enters into that of the compound, disruption takes place, and simpler compounds are the consequence-thus:

(Albumen) 4 $C_8 H_{13} N_2 O_3 + 14 H_2 O = 4 N_2 + 19 CH_4 + 13 CO_2 + 2 H_2.$ (Urea) CO $(NH_2)_2 + H_2 O = CO_2 + 2NH_3.$ (Cellulose) $C_6 H_{10} O_6 + H_2 O = 3 CO_2 + 3 CH_4.$ (Starch) $C_6 H_{10} O_6 + H_2 O = C_2 H_{12} O_6$ (sugar). (Sugar) $C_2 H_{12} O_6 = 3 CO_2 + 3 CH_4;$ Or, $C_2 H_{12} O_6 = 2 CO_2 + 2 C_3 H_6 O$ (alcohol).

Thus the matter is reduced in quantity; the liquefied portion may be reprecipitated and again acted on by the bacteria, while other portions of it are oxidized. By the intervention of aerobic bacteria, the organic matter by the ferments which the bacteria form, is put into such an unstable condition that it takes up the free oxygen presented to it. By this entrance of the oxygen into the compound, changes are brought about in it; new combinations are formed, the original molecule is disrupted, while from a complex molecule more or less simple ones are formed. Thus:—

> (Albumen) $C_8 H_{13} N_2 O_3 + 19 O = 8 CO_2 + 6 H_2 O + N_2 + H;$ Or, (Ethylamine) $(NH_2) C_2 H_6 + HNO_3 = C_2 H_6 O H + H_2 + N_2$ (alcohol). (Alcohol) $C_2 H_6 O + O = H_2 O + C_2 H_4 O$ (aldehyde). (Aldehyde) $C_2 H_4 O + O = C_2 H_4 O_2$ (acetic acid). (Acetic ac.) $C_2 H_4 O_2 + O_3 = CO_2 + H_2 O + CH_2 O_2$ (formic ac). (Formic ac.) $2 CH_2^* O_2 + O_3 = 2 CO_2 + 2 H_2 O.$

It must not be understood that these are the exact compounds or the only ones found, since many others may be found. Various bacteria have the power to form each their own compounds and combinations. In these processes such acids as nitrous and nitric are found. These combine with bases, as lime, sodium and potassium in the water, and form, the nitrous acid, the nitric acid, with nitrates, the end-products of nitrogenous compounds. Ordinary water at the point of saturation holds only 7 cc. of oxygen to each litre, which is soon used up.

When much sewage is being decomposed, a great deal of oxygen is required for these oxidation processes. This part of the process ceases when the oxygen fails. In Nature it is supplied to the water by its exposure to the air through agitation by the wind, through running over rapids and over rocks, through currents produced by heat unequally distributed, as by shade and light, and chemical changes taking place deep down, thereby producing heat. When too much sewage is present in the water, all this dissolved oxygen is used up. Fishes depend on this oxygen for their respiration. They are driven out of sewage polluted waters when it has reached these proportions, or, if forced to stop in it, they die. Thus, the power of fishes to live in a water is taken as a test for its purity. When they do not live in it, we have undoubted proof, other circumstances being excluded. that the water is seriously polluted. Yet, unfortunately, though pollution may not be great it may yet be dangerous, though fish may live. Hence this method decidedly has its limits. In a river or lake all these chemical actions go on, precipitation, from admixture of water and sewage, these containing varying commounds, hydrolysis and gasification of this by anaerobic bacteria. What is left is oxidized through the agency of aerobic bacteria, the oxygen for this purpose being derived from the air dissolved in the water. Other agencies besides these play a part in the process, and they have probably not been heretofore taken sufficiently into account. Thus plant life of a slightly higher order than the bacteria, and even those low forms-so large that they are quite visible to the naked eve, as a fur-like growth adhering to

higher water plants and to stones and bits of wood—perform their part in precipitation. The meshes of the low plants give shelter and protection to myriads of chlorophylaceae, and to many forms of protozoa (paramecium, monas, euglena, vorticella, stentor, etc). These plants and low animals are found not so much when the sewage is fresh or just stale, but when it is partially treated. Old cess-pools show them in large numbers, especially the protozoa. Continuous filters and the drains from filter-beds also show them in large numbers, but especially do they show the low vegetable organisms. These at times form veritable nuisances, by growing to such an extent as to fill up the drains, etc.

Various standards of dilution of sewage with river water have been attempted. The difficulties are: (1) The variation in the compositions of the sewage, e.g., English sewage is, as a rule, 3 to 4 times as strong as that met with in America; that of Berlin, Ont., is over twice as strong as English sewage. (2) The variation in rate of flow of rivers. (3) The variation in the quantity of water at different seasons. When the free ammonia does not exceed .12 parts in 100,000, the dilution is looked on as a safe one. In the Eastern States this would correspond to a dilution of one part of sewage in 50 of water; in England, with the sewage three to four times this, the dilution would need to be one in 150 to one in 200; and at Berlin, Ont., to be on the safe side. one in 500 of river water.

There is a very important objection to discharging sewage into rivers to be sent down to towns and cities below, owing to the fact that sewage may run quite a long distance before mixing intimately with the water and being diluted and treated.

The same thing applies to the discharging of sewage into large bodies of comparatively still waters, like Lake Ontario. Sewage may float on the surface for long distances, and be carried in various directions according to the winds. Off Toronto Island this is well illustrated. On one day floats will be seen drifting eastward, and a few days afterwards westward. These currents and the fact that sewage shows a tendency to flow near the surface has an important bearing in reference to water supplies to towns on lake fronts where raw sewage is being discharged into the lake. Experiments carried on some years ago by the Provincial Board and Toronto officials showed that on certain days floats would travel from off Scarborough Heights to the western end of Toronto Island, a distance of about six miles, in some cases in three hours. The sewage could not be decomposed in this time.

(d) Land Irrigation.—The first systematic attempt to dispose of sewage on a large scale was made by this method. Large cities like Paris and Berlin had outside their confines extensive tracts of almost harren sandy lands. These lands only needed water and fertilizers to make them productive. These cities were polluting their water supplies with their own wastes. This method of irrigation, as a method of disposal, proved so successful that Berlin irrigates some 11,000 acres of such land, and is extending the system to 19,000 acres.

A daily average of some ten thousand gallons of ordinary domestic sewage can be disposed of to the acre by this method on a suitable soil. The best soil for the purpose is a sandy loam, the more sandy the better, and well underdrained, usually at a depth of four feet. Plants take up a large quantity of water from the soil. It is calculated that for every one part of dry solid added to the weight of a plant 250 parts of water are evapor ated. But all the water in broad irrigation is not got rid of in this way, but partly by underdrainage. The importance of a porous soil is quite evident when this is taken into account. The more clayey and heavier the land

is the less will water drain off, so that if broad irrigation is adopted, where such heavy land only is procurable more must be utilized and very much less fluid applied to the land. All plants are not suitable for growing on such beds, but only such as can be grown on ridges or stand up from the earth are safe to be used as food. The sewage must not touch the plant in us raw stage; this usually injures the plant or may kill it. The plants are placed in beds or ridges, having trenches running around or alongside, in which the sewage courses at intermitting intervals, filtering through the earth, laterally, a good deal of it, of course, sinking down into the earth. Plants cannot use raw sewage, except in very limited amounts. By this method of distributing the sewage, bacteria in the neighboring soil oxidize it, and it is then taken up with the water which the plants absorb from the earth. Now, plants cannot be loaded day after day with large doses of water. The requirements of the plants by this method come first, and the sewage supply must be limited to these. If there are other beds, and it is always necessary to have plenty of reserve land where this method is used. the sewage is sent to them; if there is not, it must be cast away without treatment. In Berlin, Germany, where this method is possibly seen at its best on the Continent, they have found it necessary to separate the heavier portion, or the sludge, of the sewage, before allowing it to go into the trenches, from the fact that in a very short time this sludge coats over the surface of the trenches and obstructs the filtration into the land, and, from covering the surface, prevents the free access of oxygen into the soil, thereby crippling the action of the aerobic bacteria. Under such circumstances, the effluent from the underdrains is found to carry off a still putrescible, or a more or less incompletely treated and putrescible substance-a poisoncarrying material.

At the Asylum for the Insane, at London, Ontario, probably the best broad irrigation method of sewage treatment on this continent is carried on. Heavy crops of varying kinds of vegetables are grown, several crops on the same land being produced in the one season. The sewage is the domestic sewage of the institution, where there are over 1,200 inhabitants, giving about 75,000 gallons per day. This is collected in a large reservoir and pumped out once a day, a special form of steam blower, devised by the engineer, being used to stir up the sewage so that all the sludge is carried off at each pumping. This is distributed to the long beds in lateral ditches wide. 12 or trenches of 6 feet between flat heds feet wide. The From coarse sand. the trenches the land is sewage filters laterally into the vegetable beds. There are seven acres for the treatment of this sewage, and the long beds are centrally underdrained throughout their length. The sludge that collects in the ditches, as soon as it dries, is raked up and carried away in barrows, and this has to be done occasionally, every two or three weeks. The trenches are spaded over three or four times in the year. When more water than ordinarily is required by the plants, and they are of a kind around the roots of which the sewage can be poured, the sewage from the trenches is ladled out. All this, of course, means a good deal of labor. Here it is useful labor in the treatment of patients, and practically costs nothing. They have found that it is necessary to use manure as well as the sewage to get the best results from their gar dening, and this in spite of the fact that it is a fairly strong domes There is no bad odor about the place, and no complaints tic sewage. are made from the lower lands. In fact, it is admitted that the crops in the fields below have been better since this system was adopted. During the winter months, the sewage is run into the trenches as in the summer,

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and disappears nearly as quickly, and has given rise to no complaint. The snow, when there is any in the trenches, is dug out before running in the sewage, otherwise they have found freezing takes place to such an extent as to prevent filtration. They leave the snow in the trenches between times to keep the ground from freezing deeply. There are some ten trenches, fully 500 feet long. All the sewage of a day is run into one or two of these and then into the next one or two on the following day, and so on, leaving the first to rest until their turn arrives again. On a recent visit, the trenches had been filled a couple of hours before my arrival. The distal ends were already dry and at the proximal ends the sewage had nearly disappeared. The ground was only moist. These trenches would get nearly five days' rest before the next application. Each trench had got, with this charge, about 37,000 gals. If it were required, more sewage might be treated here by giving three days rest, on account of the great porsity of the soil and the great care that is taken to keep the surface in such good condition. Land will not treat all it will filter, as is sometimes supposed. The organic matter, as well as a good deal of the mineral, is held in the meshes of the soil. This takes time to decompose and disintegrate. If the sewage were continuously or too often poured on, the spaces would soon be filled or sludged up; treatment would cease, there would soon be hindrance even to the passage of pure water through it.

Now, on account of the fact that the beds are not used to their fullest capacity, from the necessity of favoring the plants grown, and also from the fact that sufficient land is not always available, and that labor to carry on this ideal method thoroughly would be expensive, the method has been further simplified by leaving out the plant-raising end of it. Thus the sewage is poured over the land, the trenches being dispensed with, all parts acting equally. The intervals between applications can be shortened to the capacity of the bacteria's power of disposing of the sewage. Since plants have not to be looked after, all the time can be given to attendance in distribution and keeping clean the land, and the labor may thus be reduced to the minimum. This method is called filtering, and, on account of the intermittancy with which the sewage is applied, it is spoken of as "intermittent land filtration."

(e) "Intermittent Land Filtration."-In this method raw sewage is poured over all the land, in intermittent doses, with intervals of two or three days between applications. The higher plants have practically no power of digesting raw material for food purposes for themselves, but bac teria can. It is only the finished product which higher plants use. The finished product is not harmful, so can be run off with impunity. The higher plants obstruct the function and growth of bacteria, so that in this method of intermittent filtration the bacteria are placed in the most favorable ircumstances when the land is kept free from higher plant growth. Crop ping with this form of treatment is looked on as reducing (according to form of plants grown) the disposal powers of the bed from 25 to 40 per cent. The intermittancy is with the object of giving the bacteria between doses a sufficient time to decompose all the organic matter of the last charge. We have already seen that, of the organic matters, all are not equally and rapidly decomposable. A point worth noting in the application of the dose of sewage is to do it as rapidly as possible, consistent with non-erosion and serious disturbance of the surface of the beds. The bacteria which do the work in this process are the aerobic ones. If the application be long drawn out, unless in a very fine rain, it cuts off a free oxygen supply, and, as has been seen before, this means crippling the action of the bacteria and, if long continued, may even kill them out. This brings us to another 4 FF

point with reference to the application of sewage. It is, not to put so much on that it will take more than, at most, five or six hours to sink into the land. For this to be done with uniformity, all matting or caking of sludge on the surface must be avoided by frequent removal. This is especially necessary if there be much fat or oil or tar in the sludge. These prevent oxygen getting into the soil freely, and if in large quantity may prevent its entrance entirely, as well as preventing the entrance of the fluids of the sewage. The fats will in time decompose, but the tar will not. It is on this account that such substances should be prevented, as much as possible, from getting into filter beds.

The draining of the beds is also important. The products of bacterial action must be carried off if the bacteria are to go on performing their function. With the land water-logged, the bacteria cease their function. Now, different qualities of land, e.g., clay and sand, vary in permeability. This must be kept in view when dosing sewage beds. Is it clayey? This does not drain well. A very much less quantity of fluid will pass through than will go through sandy land. And so for all intermediate qualities, from sand to clay. The better the capacity for drainage, the less bathing in poisons the bacteria will suffer: the more work they will do. Thus sandy soil is always the best. All lands will treat sewage. But all lands will not treat an equal quantity, or with equal completeness. Not all the fluid that goes through a land is necessarily treated. In clayey land cracks and crevices are often found, especially in dry weather, through which totally untreated fluid may pass.

Bacteria can use up only so much organic matter. The rest is untouched. Dilution has very little effect on the amount of organic matter treated. At the Lawrence Experimental Station sewage was diluted twice and three times with water. The treatment was practically the same in all three sew ages. In other words, if a certain area of land will treat the organic matter in 10,000 gals. of sewage, then if that sewage be diluted with an equal quantity of water, thus making it 20,000, the result in organic treatment will be practically the same. This is also the case if it be diluted to 30,000 gals. It is the quantity of the organic matter that counts for most, and not the quantity of fluid. Of course, this must be understood to be within certain reasonable limits. If the sand cannot get rid of the water sufficiently quickly, the organic matter will not be treated at all, or only partially.

At Berlin, Ontario, a process of intermittent land filtration was installed in 1891. As the town grew and the sewage increased in quantity the beds became less and less able to perform their function; they were overworked, water-logged, sludged over the surface, practically all aerobic bacterial action was stopped. These beds became veritable cess-pools. Then, to make things worse, the wastes from tannery after tannery were poured in, also from a brewery, from laundries, and from the gas works. The tanneries increased the organic matter to be treated, added materials like tannins, that are treatable at best only in the smallest quantities under the most favorable circumstances; also sent down fats, as the laundries do from their soaps; and, besides this, a quantity of finely divided bark fibre. which is almost practically non-disposable, being almost non-putrescible. The brewery sends down the busks of grain, and the gas works sends down a tarry oil, which is probably the worst crippler of a disposal bed possible Altogether, Berlin's 14-acre clay intermittent filtration farm was treated as roughly as was possible. To make things worse still, the surfaces of the beds were not kept clean. One man's labor could not possibly keep the surfaces, under the circumstances, even in fair condition.

To show how hard an old idea dies, with all these circumstances against them—too much sewage, bad filtering material, ill-putrescible substances, objectionable sludging material in the sewage, insufficient labor to keep the surface of the beds free from sludge—an attempt was made, and is being continued, to raise crops on these beds. They raise good crops, but reduce the disposing powers of the beds in a notable degree, when they are already trying to carry a burden twenty times or more than their capacity.

To the State of Massachusetts is due the credit of bringing the intermittent land filtration of sewage to its highest development. They have abandoned all other forms of land but sand for the working of this system, so that the process has come to be called "Intermittent Sand Filtration." A considerable quantity of good, well-drained sand can be found almost anywhere in the State. The system has been generally adopted throughout the State, and during the last fifteen years has done all that was expected of it. It has been perfected in detail, and worked out in theory, until now, of all the methods of treatment of sewage, it is the best, giving effluents not much worse than a good drinking water. In fact, many drink waters are of a much inferior quality. All that is required is a sandy soil of pure sand of four or five feet of uniform thickness. The top earth is thrown up to make banks between one-acre lots. It is drained with ordinary farm tile, four inches in diameter, laid in lines forty feet apart across the bed and leading into a common effluent carrier. A central wooden or cement affluent conveyor is run across the top of the whole bed.

The construction is simple, and comparatively inexpensive. At Brockton, Mass, their farm has been in existence over fifteen years. It has not deteriorated; in fact, it is doing better work to-day than at the beginning. It is treating, the whole year round, an average of 35,500 gals, per acre per day, counting in times of rest, repairs of drains and intermissions. The application to the surface is often 200,000 to 250,000 gals, at one time. They have 25 one-acre beds (19 only are in commission at present), for a population of 30,000 people, all using the sewers. These are used alternately, beginning with No. 1, going on to No. 19, and coming back to No. 1. Each bed thus gets several days' rest between each dose. More could be treated if necessary. But, so far, it has been preferred to buy new beds than to run any risk of sludging up those they have, that are doing such good work.

Essentially raw sewage is being pumped on to these beds. It is collected in a circular reservior, capable of holding all the twenty-four hours' sewage. Three to four hours' pumping each day is all that is required to empty this. The towns I visited, during my Eastern trip, using this form of sewage disposal were Brockton. Clinton, Andover, and Hopedale, all of Mass. All of them are doing good work, and producing effluents practically beyond reproach. There is practically no odor about them. If one did not know there was a sewage farm in the district, he would never suspect its presence. Several very nice houses have been built within a couple of hundred yards of the Brockton one, and many new ones are being put up.

The cost of running these beds, outside the pumping, is not high. A couple of men are employed to keep down the weeds and to turn on the sewage. The surface of the beds are scraped over not oftener than once in three months, and it is only half an inch or so of material that needs removal. The neighboring farmers usually carry it away for manure, though its value is not very great. During the winter time the beds work as well as in summer. The only change in treatment is to ridge over the whole surface as some farmers ridge up the land in the country to cultivate turnips, beets, etc. This is usually done by a plough going up one side and down by the other, and then smoothed up with a hoe. When, in cold weather, the sewage is run on to the beds, filling them to the top of the ridge, it freezes on the surface, leaving plenty of space between the ridges and beneath the ice for all the sewage applied. The salts in sewage keep it from freezing solidly, and, besides, chemical action going on in the sewage keeps up a certain amount of heat. At any rate, it does not freeze under this sheet of ice. The surface if anything, is increased for filtration. Sludge does gather to some extent, but falls to the bottom of the trenches. This is scraped up in cakes in the spring and carted away, and the ridges harrowed down level again. Sometimes the surface is ploughed over and harrowed. This improves the treating power of the beds. A study of the following figures for these Eastern towns will show what "intermittent sand filtration" will do with sewage:

City.	Average gallons per acre treated.	Free ammon.	Alb. ammon.	Oxygen cons.	Chlorine.
Brockton, Mass. Raw sewage Effluent	35,500	3.01 .1766	1.36 0123	6.44 .13	6.59
Framingham, Mass Raw sewage Effluent		3.1012 .6382	3.145 .0176		8.45
Lawrence, Mass. (experimental filter) Raw sewage Effluent		3.0%0 .1113	0.590 .0207	4.01 .27	6,60

Better than this could hardly be asked. All it requires is plenty of sandy land. During our experiments at Berlin, Ont., we went over the hills to the east and west of the sewage farm, and dug a large number of testholes. The land to the west, all along the ridge shows good gravel for a considerable depth, and not more than, on an average, of 15 to 18 inches below the surface. By terracing, from eighteen to twenty acres of beds could easily be made. There is one slight objection in some parts on this side. It is that about eighteen or twenty inches into the sand is a one-half inch clay stratum, which might interfere somewhat with filtration. To the east from the farm is land of a much better quality. On the very surafce, the sand looks like drift sand, but after a couple of inches it is just of the quality required, and twenty-five acres could easily be made up, and at very little expense, beyond scraping off the top soil, which is here much thinner than on the west side. The greatest objection to this side is that it is closer to the town. Both sand lauds are about on an equal level. some twenty feet above the sewer level at the farm. The sewage would require to be be pumped to be applied to these beds, if constructed. All the Eastern cities pump, and consider themselves fortunate to have the good sand-beds at such small cost. There are no sand-beds along the valley on the same level as the sewage, or below it, within at least three miles below the farm.

With the sewage of Berlin at its present composition and quantity, nothing less than three or four hundred acres of the present clayey land would do to dispose of its sewage.

The average composition of Berlin's sewage is: Free ammonia, 2.542 albuminoid ammonia, 2.017; oxygen consumed, 49.95 per 100,000 parts.

In free ammonia Berlin's sewage is weaker than that of Brockton, Mass. Its albuminoid ammonia is one and one-half times as strong, and its other organic matter possessing the power of decomposing permanganate of potthe eight times as strong. This last is not so important as the albuminoid material, though not to be neglected. It could, in large part be got rid of by other methods to be mentioned presently.

Now, since Berlin's sewage, in its most objectionable feature, the albuminoid ammonia. is one and a half times as strong as that of Brockton, Mass., and since Brockton, requires one acre for each 35,000 gals., Berlin would require one and a half acres for the same amount, and since Berlin has, on an average, 450,000 gals. a day to treat, it would take about nineteen acres of sandy land of the same character as at Brockton if raw sewage was to be treated; but auxiliary methods to be mentioned later can be introduced, which will make Berlin's sewage weaker even than Brockton's, and, in proportion, will require less land for this final process of "inter mittent sand filtration."

Now, though "intermittent sand filtration" can treat raw sewage in such large quantities per acre, and is admitted to produce the best effluent of any system of sewage dimonal in vegue, in certain localities it is difficult or impossible to carry out this method. The land may be too expensive, or there is no sand. It might be carried, but this by the acre at four feet depth is expensive. Sanitarians have been on the lookout for some process that would act as auxiliary to this method, or even replace it.

(f) The Septic Tank.—It had been observed that from old away cess-pools water ran almost clean-looking, and. curiattempt was made to clean them out ously, when an verv little or nothing was found. Why was this? The effluent was not like raw sewage, and did not answer chemically to it, and there was practically nothing accumulating in the cess-pool. Bacteriology solved the question. It was found that the conditions favored the growth of a certain class of bacteria, and that these bacteria produced such substances (enzymes) that in their action introduced a molecule or molecules of water into organic substances, which union resulted in the disruption or breaking up of the molecules into simpler ones. Sometimes all was converted into gas, as, for instance, to state a couple of reactions a second time.

> (Albumen), $4C_8H_{13}N_2O_5 + 14H_2O = 4N_2 + 190H_4 + 13CO_2 + 2H_2$; Or (Urea), CO $(NH_2)_2 + H_2O = CO_2 + 2NH_3$. or again, (Sugar), $3C_2H_{12}O_5 = 2CO_2 + {}^{12}H_2O + 2C_2F_5O$ (alcohol).

Part of the substance was converted into gas, the rest of it, presents in a simpler form.

The alcohol or the simpler compound will be converted later on in the effluent of the tank by a process of oxidation, and be finally gasified, thus disposing completely of the sugar. These compounds can be destroyed in the cesspool, but more slowly than the original ones. Now all organic matter is more or less completely disposable by this method and of course when the process is complete there is nothing to remove. All that would accumulate in such tanks would be insoluble mineral matter, and such organic substances as are with great difficulty decomposable. Now the bacteria that do this work are found to be the anaerobes, and the reason that they grew so well here was that the oxygen coming in with the sewage (there is not more than 7 c.c. of it in one litre of sewage) is all taken up by the chemical changes going on in the sewage. In the cesspool from its size there is practically no agitation going on, so that exposure of the deep portions to the surface rarely if at all take place. A freedom from oxygen exists after the first inch or so in depth is reached. An anaerobic

condition is produced, aerobic bacteria cannot functionate there, and may even be killed out. Now a tank where this condition is pro-duced is called a septic tank, or one in which rotting or decomposition or putrefaction of the organic matter of sewage can be carried on, and would of itself be able to treat sewage completely if time were given. Under working conditions this would be found impracticable. After the first almost sudden disruption of the complex proteid, carbohydrolactic and fatty molecules of the sewage and liberation of gas by hydrolysis, the simpler remaining compounds are with more difficulty acted on; at least a considerable time is required. Aerobic bacterial action such as takes place in "land filtration beds" does this much more rapidly and completely , so that it is found much better and much more economical to divide the work between This tardiness in the decomposition of the simpler forms the two forms. of matter found after this first disruption may be accounted for in this way. We practically have bacteria for the destruction of each of the compounds, the ground is taken up by the first hydrolvtic set and it is found in bacteriology that when one form gets the start it is difficult for another to step in or live with it. If they do they modify the action and function of one another. Is it that in the case of the simpler compounds the proper bacteria for their decomposition are not present, or if present are handi capped by the first set, and not being able to perform what they might do rapidly if given a chance now do it tardily? One of the problems we look forward to working out in the laboratory is-Would the effluent from tank A run into tank B by a process of selection encourage the growth of such organisms as would attack these simpler compounds and thus get more work from the septic tank system?

The septic tank has come to be one of the greatest auxiliaries to the treatment of the organic matters of sewage. The sewage is retained only long enough to get this first hydrolytic action. By it the matter is either completely broken up into gaseous substances or into simpler compounds. What has taken place in a gross fashion is that by gas formation bits of tissue, masses of facces, pieces of paper, etc., are exploded as it were, broken into smaller particles, and liquefied, the remaining heavier portions settle down to the bottom of the tank and are further acted on-exploded-; final ly what falls and rests for good at the bottom are only such substances as are no longer capable of being decomposed. This is called "sludge." Now this settling holds this practically non-putrescible material back, preventing it thus getting into the filter-beds. This is the material that "sludges np" beds. The organic matter leaves the tank minus its gas and appears in simpler forms to be treated when run on the proper beds by the aerobic bacteria almost exclusively there, by a process of selection on account of surrounding circumstances, as has taken place previously in the septic tank with reference to anaerobes.

The gases that come off from septic tanks, as the substances which enter are various. The chief are CO_2 H. N. CH_4 CO, sometimes H_2 S (NH_4) **2H.** There are various aromatic substances besides these given off. Some septic tanks give off very offensive odors, others none at all. In the present state of our knowledge no one can prognosticate whether a certain tank will be foul-smelling or not. Perhaps it is due to the special forms of bacteria that have come out of the process of selection, that has taken place when the tank was started.

It has been found in practice that open tanks do as well as closed ones so far as treatment is concerned, as so little oxygen is taken in from the surface and all deep down is used up. If a tank gives off offensive odors it might be better to close it and ventilate with a high shaft or chimuey. At Clinton, Mass., during working hours the gases were directed into the fireboxes of the pumping plant. The engineer thought it made some difference in the coal consumption. The gas was from 750,000 gallons. On an average one gallon of mixed gas is given off from every 100 gallons of septic tank sewage. At Exeter, in England, the gas has been used for some of the lighting of the works. A scum from 1-1-6 of an inch to eight or 10 inches in thickness collects on the surface of most septic tanks. This is made up of bacteria and sewage particles rendered buoyant by gas bubbles. It was at one time looked on as a necessary thing in a well-working septic tank. It is looked on now as only an incident. Tanks without it show as good treatment as these with it, and frequently during active function the scum disappears completely to perhaps again reappear and disappear.

Thousands of larger or smaller bubbles may be seen rising to the surface of an active tank. In the winter not so many rise as in summer. The tanks do not do so well either, though not always are tanks acting according to the bubbles they give off. These gas bubbles are not peculiar to septic tanks. We see them in all waters where bacterial action is going on. A sediment or sludge collects at the bottom of septic tanks when in use for some time. It is a thick granular, blackish substance, and looks like a thin black mud. It is made up of sand, clay, wood-fibre, cellulose and an almost non-putrescible organic substance remains. When to land and allowed to dry it carted on is gravish in color and macerated paper. looks like Examination of this at the Lawrence Experimental Station has shown the organic matter to be chiefly unaltered cellulose and wood fibre and almost useless as a fertilizer, unlike the sludge from chemical precipitation, which has weight for weight, according to Prof. Shuttleworth's analysis, an equal value with ordinary barnyard manure. Autumn sludge contains less organic matter than s ring sludge. Three of the septic tanks at Berlin were divided into four equal parts. The first compartment was really a grit chamber. From May 27th to September 25 the tanks running continuously, nearly the whole of the first and 1.3 of the second compartment filled with sludge. In the other two compartments not more than an inch had collected at the bottom, a very small quantity when it is remembered that about 1-25 of a column of the raw sewage on standing was sediment. The composition of the sewage has considerable to do with the treating power of a septic tank. At Wor cester, Mass., the sewage contains a considerable amount of acid iron in solution. Twenty-six per cent. of the organic matter is removed or treated in spite of this. At Exeter 17 1-2 per cent. and at Leeds 59 per cent. was removed by the septic tank. At Berlin our average was from 44-55 per cent. in the different tanks. Of course these last were summer results, with a temperature of 60 to 65 degrees F. during their active period of a slowly putrescible material. In the winter time the average temperature at Lawrence Station during 1900 from Nov. to April inclusive was 46.3° F. of efflu-The average treatment was 58.9 per cent. With a summer temperaent. ture of 65.8° the average treatment was 56.3 per cent. In this particular case the treatment is in favor of the winter months. However, this is not always the case. When starting a new tank it takes some time before any change beyond a mere mechanical one is observed. Experience in Berlin confirms this. We started two up-town tanks on May 27th, and as late as June 25th there was no treatment. Warm weather commenced, the analyses on June 30 showed a removal of 40 per cent. in one and 60 per cent. in the other. From June 28th to June 30th bubbles for the first time began to appear, and

bubbling was rather vigorous. The two tanks at the farm were started on June 25th, on the 26th no treatment was observed in either of them. On July 7th the large one showed 41.5 per cent. removal, whilst the smaller one showed 40 per cent. The large tank had only been cleaned out before beginning it. The smaller one was new and yet showed only a slight dif ference at this time in treatment.

It has been recommended to seed a new tank, as in the vinegar process it is started by placing some mother of vinegar in the apparatus, with scum taken from a working tank. A considerable quantity of sludge had been left in the big tank at the farm and yet it did not show any great advantage over the new tank, into which only raw sewage went. The two up-town tanks did not show any treatment for one whole month, and then woke up in two days to a very large treating capacity. All of these tanks were started running with double their capacity in the 24 hours, a rather heavy dosing, e.g., each of the uptown tanks holding 600 gallons, 1,200 gallons were run through in the 24 hours.

Our Berlin experience has shown about a 10 per cent. difference between the treatment in a double capacity and a single one, in favor of the one capacity.

A septic tank serves several purposes. It is most important of course in the decomposition of the organic matter; the retaining of suspended matter, sand, paper, facees, and even more finely divided material, is another important purpose. This saves the beds. Another and not to be overlooked function is to hold flotting matter, estecially fats and oils. These substances are capable of doing great damage to beds. They are treatable, but require much more time than ordinary organic matter. Now in the construction of the tank these three functions, especially, must be kept in view. To meet the first, viz., the treatment, sufficient capacity must be given. Enough spice to get the fullest benefit consistent with economy should hold the whole of the sewage of the 24 hours. There is no objection to depth consistent with cleaning when this is required. Ten feet, unless there be difficulty in excavating, would be a good practical depth. It would be well to have the tank not more than three times as long as broad, so that the sewage will pass over a broad space and thus minimize currents and stirring up as much as possible, for it will be found preferable to run the sewage through continuously. If it is taken out by any mechanism that suddenly removes a considerable quantity, too much stirring results in considerable suspended matter being carried out that should be left behind. Now prangement should be made that the inlet be large, so that the entrance be slowed, and made considerably below the surface, so that upward pressure will aid in the precipitation of suspended matter. The outlet should also be broad and below the surface, so as not to carry off any floating scum. This would not be good for the beds. To arrest the coarser substances the first compartment should be a grit chamber with a partition running up to the sewage level. Over this partition, the entering sewage, after rising overflows. To hold the lighter sludge the fermentation chamber proper should have baffle boards at two places to within half way up to the sewage level. To facilitate cleaning, gates should be put in those baffles at the bottom, so that when it is required these may be opened, so that the sludge will flow towards the grit chamber, which end of the tank should be on a gradually lower level for this purpose.

To retain the scum and floating fats and oils baffle boards should be let down from the top of the tank to at least a foot or eighteen inches below the level of the sewage. The material out of which the tank is made is of little consequence, so long as it is a non-putrescible or non-rotting material. Wood is soon crumbled away.

No chemicals are needed, not much labor, only space. It is about the heafest way possible of getting rid of half of the sewage. It saves the beds by holding back suspended matter, and gives to the beds materials already prepared for further bacterial treatment, thus saving at least fifty, actually nearly 60 per cent. of filtering space.

The septic tank system is not a complete method of treating sewage. In practice it is the greatest auxiliary to its treatment. It treats half and prepares the non-finished material, or puts it in a condition chemically and physically in which it can more easily and in a greater quantity be treated by any given filter bed area.

At Lawrence Station they have suspected that over-septic treatment is harmful to the aerobic treatment to follow. Perhaps this is due to the fact that too much toxic substance is sent over into the beds. They were prompted to this conclusion by the indifferent treatment that septic sewage experienced when going on the intermittent sand filtration beds at Andover. The sewage here travels a long distance from the town and remains for a considerable length of time in a large inverted syphon crossing a large valley before reaching the septic tank, and this retained in the tank probably had too much septic treatment. This question is being investigated carefully by them; in the meantime we anxiously look to the results of their experiments.

(g) Chemical Treatment of Sewage. The ideal end would be to gasify, and reduce to its original elements the organic matters of the sewage. There are chemical methods of doing this, but not such as could be used on a large scale or could be used within anything like reasonable cost limits either. The process in use is to coagulate and precipitate all that is possible. It was thought at one time that all could be so precipitated in practice; but this has been found not to be the case. In London, England, the sewage removal is only 30 per cent., in Worcester, Mass., 50 per cent., and this last is about the best possible by this method. The chemicals used, though cheap, when used in the proper proportion, come to be a large bill of expense. Lime is one of these chemicals. Ten grains are frequently used to each gallon of sewage, and is a small quantity to use in many cases, would amount to 6 1.2 tons of lime per day where one million gallons of sewage a day are treated. Other chemicals are required with certain sewages, and are not, though used in such large quantities as lime is; still they are vastly more expensive (e.g., sulphate of iron and alumnia). The idea in these methods is to coagulate the organic matter in solution; this makes it heavy enough to fall to the bottom. In the process of coagulation a certain quantity of suspended matter is enmeshed and carrid down with the coagnium. After treatment the sewage is conducted to large sedimentation reservoirs and kept as quiet as possible to allow of settling. This cannot be allowed to go too far either, for some of the sediment may again redissolve. The supernatant fluid is run off, leaving a thick, mnddy substance at the bottom (slndge); this last is pumped off, mixed with more lime or some other thickening material, and carried to presses to get out part at least of the excess of water. Sludge as it comes from the settling basins contains on an average 90 to 93 per cent. of water. After hydraulic pressing into cakes it will still hold from 70 to 75 per cent. of water. This cake sludge is a bulky material, and has to be carted away. Weight for weight it has about the same value as ordinary barnyard manure. When

iron or alum is present in it, there is a question whether or valuable as the ordinary manure. When it not it he as dries. form, it is verv awkward account of its cake on Farmers cannot be induced to buy it, nor even cart to handle. it away if given to them. It could be kept until dry, but this encumbers on account of its bulk. It could then be powdered. This would increase its cost. At Worcester, Mass., they are carting it by a trolley line to a near-by valley and filling in with it. The odor about it is not very savory. There is still much water in it along with chemicals. It is in this condition not easily incinerated. The process would be expensive.

The chemicals used are lime and sulphate of iron and alum. The sewages to be treated vary in composition and especially in reaction. Ordinary domestic sewage is alkaline. Lime here is a precipitant. Many manufacturing wastes, e.g., tannery and iron works wastes, are acid. These need to be neutralized. This takes up a quantity of lime to reach the neutral point: after this the farther action is to coagulate. As much would be needed for this last as for domestic sewage, there would be added to this then the quantity required to neutralize, coming very high in some cases. The other two chemicals are used with the idea of bringing down what the lime cannot of the proteid substances and certain of the coloring matters, as the tannins, etc., in tannery wastes for instance. In sewages containing acid iron, the addition of the sulphate metals is not necessary, the iron of the sewage takes their place.

The settling basing require to be large, so that unnecessary currents are avoided, whilst the treated sewage is passing through, to allow of the needed amount of precipitation. They are not usually covered, as gener ally there is no objectionable odor coming off. The treatment is only a partial one. At best half of the organic matter remains, the bacteria natural to it are more or less destroyed. This untreated material when carried into a water course goes much farther than if it had its destroyers with it. It has eventually to be treated. This fact, though, has some benefit. In Hamilton, Ont., before the chemical method was adopted the bay was becoming choked up with water plants. Now even near the end of the season though there be some present, the bay is comparatively clear of them, even up to the shores. The half treated sewage probably is carried far out before the new set of bacteria have increased sufficiently to make the material good food for water plants. In the case of a river this would be harmful. As it is now the sewage from a town is more or less removed by the various methods already outlined before, the next town is reached. In the case of those chemically-treated sewage the material might reach the next town before it began to be treated and give rise to danger, especially when the rivers are depended on for water supplies. We might as well face the fact first as last. To get rid of organic matter bacteria must be called into action sooner or later.

The method is used as a preliminary one to land filtration and is a useful one, though not as good as the septic tank method. There is more danger from objectionable material getting into the beds. The chemicals used when in excess, or even in their combined stage are harmful to bacterial growth, and so much depends on unobstructed bacterial growth in land filtration. However, land filtration gives very fair results after it. The beds can be reduced in number beyond what would be required for raw sewage. And in the case of manufacturing wastes objectionable chemical substances can be prevented by their prcipitation from raching the filter beds.

Compared with the septic method, much more plant is needed. In the chemical a mixing place is required for the raw sewage, another is required for the sludge, a sludge pump is required and then a sludge press, and this has to be running almost continuously. The haulage is much more serious also. In the septic method the sludge is removed from each tank perhaps not oftener than once in 3 or 4 months. The pump is then only a simple one. As for reservoirs or basins, for the septic very little more space is required than for the chemical. The objections to the chemical method are:

(1) The chemical method costs much more than the septic; (2) it does not on the average remove as much organic matter; (3) what it does remove is only temporarily so; (4) there is the great difficulty of removing the sludge; (5) when the effluent is passed to "land filtration beds" it is much more likely to sludge them up, and besides the treatment is not so good. The material has not been seeded, as it were.

The good point of the method is that it can be used as aid to the septic, by being put into operation an at fac that tories to hold back objectionable material might get ino the disposal plant. As, for instance, in the case of a tannery, a great quantity of the hair, bits of hide and precipitable matters, tannins, etc., could be withheld, so large as 50 per cent. The process, after all, should not be thought of as chemical only. It is only partially so. The greater part of the process is mere mechanical sedimentation. It is in the last phase especially that it is useful in the treatment of factory wastes.

(h) Contact Beds. Though it has been shown that intermittent sand filtration beyond any doubt is the means at our disposal which produces the best of all effluents with sewage, there are circumstances where it is next to impossible to install such a system. Intermittent sand filtration requires a considerable area of good sand for its purpose. This is not always procurable in the neighborhood of towns. Then it may be said they can be built. Four feet deep of sand in acre beds would cost a considerable sum if this had to be carted. Then again under some circumstances though there be sand, the land is not procurable. There are other circumstances. Perhaps it would be necessary to pump the sewage to the land. Under some conditions this would be very expensive, not meaning by this that pumping is always expensive.

Sanitary engineers have expended a good deal of time and ingenuity to find a substitute for intermittent land filtration. The "contact bed" is the best compromise that has so far been devised. No contact bed gives the effluent that intermittent sand filtration gives, but it is better where his form cannot be used to get the next best, and the contact bed method gives this. A contact bed is a sewage treatment bed in which the material used is placed in such a manner and is of such a character that free oxygen will gain easy and continuous access to every part of it, thus allowing the aerobic bacteria on which dependence is wholly made for the treatment of sewage to perform their function at their best. Into this the sewage is run to overflowing, with as little delay as possible consistent with non-disturbance of the material, and allowed to stand in contact with the bed's material (sometimes called filtering material, though it is not except for the very coarsest suspended substances) for a stated time. During this time the enzymes or ferments, that the bacteria have formed during their period of rest preceding this running on of the sewage, attack the organic matters and bring on oxidation, that is introduce oxygen into the compounds, resulting in rearrangement of the molecules of which they are composed, into simpler and simpler compounds until finally only the mineral portions remain. This is precisely what is done in the intermittent sand filtration beds, only in the contact bed there is a greater supply of oxygen, more active change

takes place and much more sewage can be handled. After standing this stated time, usually not more than two hours, it is gently run off so as not to disturb the bacteria that are attached to the materials of the beds in the shape of a gelatious scummy substance, a zooglea mass as it were. If the sewage be left longer than three hours all told in contact with the bacteria these organisms are likely to be injured and may be even killed out. It is often found after a too long contact that it takes the beds sometimes even weeks again to recover their treating capacity. A contact bed is a very delicate living machine, which requires gentle, careful and skilfull hand ing. A man may go down in a diving-bell and perform so much work. When his air supply runs out he must be brought back to the surface, if left down he dies. The aerobic bacteria during contact with sewage are in the same p sition, when their oxygen supply runs out they must get more. If left too long without they too die. When the bed is emptied, the surface of course becomes clear of sewage first, then farther and farther down, until the bottom is reached. This running away of the fluid produces a void, into which the air from the surface is sucked, thus supplying it to the very bottom. And it should go there in a good contact bed. Now the bed is allowed to rest for from two to three or even four hours before the next dose is applied. Three doses to a bed in 24 hours is hard work for it. During the period of rest the bacteria live on the organic matter that is left in contact with the filter-bed material, building up more and more ferments. until at the end of the period considerable has accumulated. Now when the next dose is applied it is immediately attacked and oxidized as in the first instance.

Now though this form of bed treats a large quantity of organic material, it does not unfortunately decompose all that is run in. This is probably because a not sufficient quantity of oxygen can be got at. This is shown by the fact that after a certain period in the contact is reached no further treatment goes on. This period has been found in most cases to be reached in three hours of contact. There is nothing to gain in leaving it longer and all to lose in that our bacteria may be smothered out. Another explanation too is that possibly the products of bacterial action in hibit the function of the bacteria and even kill them. At any rate, the beds must have periods of rest. It has been attempted by mechanical means to supply a greater quantity of oxygen to contact heds to see if better results could be got. Perforated pipes have been placed horizontally at different levels in the beds and into these air is forced, in some cases previously warmed. A good deal of disturbance in the bed takes place, which probably does more harm than good in that it disturbs the bacterial scums on the bed material. At any rate it has not given what was expected. The treat ment is no better, even worse in some cases, and such beds especially are found to sludge up much more rapidly than those without this artificial air supply.

The ouestion naturally comes how is it that these beds do not fill up or sludge up with the suspended matter going into them in such quantities. These solids are not all decomposed in this short time. And the beds do in fact sludge up, and this is one of the serious objections to them. When a bed is started, if record of its interspace capacity be taken note of, it will be seen that for the next six weeks or two months it gradually becomes less. After this period is reached they frequently run for even years without showing any serious or appreciable diminution in capacity. The action going on is more complete than that going on in the septic tank; not so much sludge is left behind. They will nevertheless finally become filled up to such an extent that they will no longer work at all. Sometimes if a period of five or six weeks rest be given the bed it may recover in great part its former capacity. It has accumulated probably a material that is very slowly putrescible. During the period of rest this becomes decomposed, and the space restored. Wood fibre and cellulose would act in this way. But if the sludging be due to mineral matter then it does not recover. The material has to be renewed or taken out and washed. This sludging up takes place much more rapidly when raw sewage is used in the bed than when the material has had some preliminary preparation such as screening, sedimentation simply, septic tank treatment, chemical coagulation or sedimentation. All these processes besides reduce the quantity of organic matter entering into the bed for treatment. The septic tank does this to the greatest extent of all. This last too is of more value still in that it primes the organic material, so that it is more easily attacked. And of course this means that the contact-bed area can be reduced. There is not so much work to do.

These beds are not filter-beds. They are simply beds in which the sewage comes in contact, under very favorable circumstances, with the active bacteria. These beds may be made of various materials. Coarse or fine gravel, screened so as to remove the sand, is used.

The efficiency of a bed is calculated on its finest material. It it be sond, then the coarse material is of no use. Sand is not a good material for contact-beds. It is too fine and leaves too small interspaces for active oxidation. At Berlin, we found the best treatment to be in the bed that had the finest gravel—one-eighth inch—next the one-fourth inch, and next the half-inch. The greatest interspace capacity was in the coarser bed, of course, and, therefore, the greatest amount of sewage for treatment was in this bed. The probable reason for the best treatment in the finest gravel bed was the fact that this bed held less sewage.

Fine broken stone, such as is used in some cities to increase friction for horses on slippery pavements, the screenings really from stone-crushers freed from the fine material and coarser stone, such as is used for macadam izing roads, have been used. This occupies considerable space in itself, and leaves large interspaces, and does not, in consequence, supply sufficient surface. Still it has its advantages in that it is practically indestructible.

Fine broken brick is used, as also burnt ballast, and both are of about equal value. Soft coal clinkers form a good material, but are apt to crush after a time. Clinkers from all coal is not alike in hardness. Some crush eas ily, others are quite hard. Then comes coke. This is an ideal substance in that it is porous and is rough, and this presents more treating surface. It has another good point, viz., that when the bed is sludged up it may be taken out and burned, having lost practically none of its burning quantity or quality. Some very good hard coke is procurable from the coke ovens near Pittsburg, Penn. Some of the cokes are easily crushed, and this is a serious defect in a contact-bed, leading to bad aeration and filling up of the bed capacity by sinking, etc.

Charcoal, though a good material in many ways, is so easily crushed that it is only under very exceptional circumstances advisable to use it, e.g., in small plants, where it can be taken good care of.

Coal has been recommended, also. It does not possess any special virtue, though, over many other materials, as crushed stone, for instance.

The material out of which a contact-bed is made makes very little difference in the treatment. It should be rough, but porous, not in too large pieces (half-inch in diameter at most), and of a good durable material that will not crush. It would be well to be like coke, a good material to burn when no longer useful as a treatment medium. The thing is to use what is cheapest and best at hand, consistent with efficiency.

Regarding the construction of these beds, it may be said that if the land on which the beds are to be constructed be a porous one, the beds have to be walled, and have a bottom made that will be next to water-tight at least. If the sewage can filter through the bottom, contact cannot be maintained. Some beds I saw last summer took between five and seven hours to fill. The inlets were large enough to fill them in an hour. No true contact treatment was possible here. If the land be clay, then all that is necessary is to excavate to the necessary depth, from two to four feet; a greater depth presents too great interference with proper aeration and no advantage. The bottom should be well drained with ordinary tile drains, placed in contact only, with no cement. It is well to bank the drains with coarse (threequarter inch will do) screened gravel, free from sand. The gate controlling the outlet from these drains should be of such a kind that the flow may be checked, so that it take nearly as long to empty as it took to fill the bed, so as not to disturb the bacterial scum and attached sludge of the bed material. We must think of the head under which this emptying takes place. There is considerable pressure under four feet of fluid. Where there is much fine suspended matter in the affluent, a couple of inches of sharp sand is a good device to retain it and prevent it getting into the material proper of the bed. This sand can be removed from time to time, every month or six weeks, and more be applied. It becomes thus an additional expense, but where manufacturing sewage is being treated repays the outlay richly. It holds back fats and fine suspended material. It is to be raked over every few days, otherwise it soon sludges up.

The inlet pipe to the bed must be large enough to fill the bed in at least one hour's time. A trough distributor should be placed over the surface of the bed, so as to feed the bed evenly in all parts and at the same time, seeing at the same time again that there is not such a rush on to the surface that the bed material be disturbed or disarranged. Very few automatic arrangements for regular distribution of sewage to beds are reliable. Intelligent attendants are far more profitable, even though they cost more. The beds should be made of such a size, calculating on one hour to fill each, that there will be no hours between that sewage will have to be run off without contact, taking into consideration the "cycle time' for each bed. The cycle for a well-run bed would be one hour to fill, two hours of undisturbed contact, one hour to empty, and from three to four hours' rest before the next dose is given, making the cycle time from seven to eight hours. Eight beds should then be constructed. Three applications in every twentyfour hours would be about as much as any bed could stand and do efficient work.

The effluents from contact-beds frequently have considerable suspended material in them. To prevent this getting into streams, it is well, under circumstances, to allow this to settle in a sedimentation reservoir of some sort, from which the effluent will overflow. This would not disturb the levels. The reservoir could be made of any depth, consistent with the easy removal of the sludge.

Contact-beds will not commence to treat sewage, except as a coarse screen, the first day sewage is run on a new bed. It takes days, sometimes even weeks, before they commence to treat, and, for the very same reasons as it takes for septic tanks to begin, viz., the selection of the bacteria, and these come from the sewage entering. Raw sewage supplies these more quickly than septic sewage does. For seeding, it is well to make the contacts for the first week or so short. The selection takes place more quickly in warm than in eool weather. Seeding with surface garden mold is said to quicken the process. The advantage of this is doubtful, when the price of it is a partial sludging of the beds, and again it is just possible that the bacteria of this earth are not inured to this special form of food material that is found in sewage.

The effluent from the ordinary contact-bed, not being up to what was required, attempts have been made to improve it by making a second contact on another similar bed, and even at some places, a third bed has been added to get a third contact. Of course, these have to be on different levels, one below the other. The effluent from bed one passes on to the surface of bed two, that from bed two on to the surface of bed three. It has been proposed to add even a fourth.

These could easily be regulated in such a way that a weak sewage would be contacted in one, a stronger one in two, and so on to even the fourth. In this way, by intelligent handling, a large treatment might be got.

The results obtained at Sutton, in England, showed that on an average 770,000 gals. of crude sewage could be treated each twenty-four hours, showing an average purification, as to albuminoid ammonia and oxygen con sumed of 64 per cent. At Manchester, England, using a preliminary septic tank treatment, 700,000 gals. of sewage per acre per day, it was found that, on an average, a purification of 75.2 per cent. of the albuminoid materials and 90.1 per cent. of the oxygen-consuming substances could be got, but this was after a double contact.

At Lawrence, Mass., in 1899, on an average, 700,000 gals, per acre per day of stale sewage was treated, with a percentage purification of 61 of the albuminoid material and 55 per cent. of the oxygen-consuming substance by the first contact, and 79 per cent. of the total albuminoid material and 75 per cent. of the oxygen-consuming substances by the second contact.

At Berlin, Ont., during the last summer's work, we were able to get on an average, 70.6 per cent. purification of the albuminoid material and 67.1 per cent. of the oxygen-consuming substances, by one contact, after using a preliminary septic treatment, running at the rate of 565,000 gals. per acre per day, leaving an effluent still containing of albuminoid ammonia .596 parts and of oxygen consuming substances 16.43 parts per 100,000, an effluent that was still putrescible.

It is hardly possible to get a complete treatment from a contact-bed. The effluent is not aesthetic, by any means. To come up to the standard of treatment required, it would need to be well diluted when passing into the final water-course. It is a compromise method. The result can hardly be compared with the effluent of an intermittent sand filter. Certainly a greater amount of sewage is handled to a given acreage, and in a given time, and certainly more organic matter is disposed of, but much more is passed through untreated also, and this is inseparable from the method. It is impossible to hold it longer in the bed for treatment, the bacteria would be killed out. The bed has to be filled at each sitting. Three or four doses can be given a day as well as one, and one would not treat any better than if three or four were given. The bed deteriorates much more quickly than the intermittent sand filtration one, and has to be renewed. It has to be handled with a great deal of skill and discrimination. It must not be left with the sewage in contact over time. It must not be drained away too quickly, nor filled too quickly. If it commences to lose its interspace capacity, this must be immediately recognized, and rest given it, or it may

irretrievably be spoiled and sludged. Another disadvantage is that night men have to be used to keep the beds going. This, of course, could be got over by having a reservoir to hold all the night's sewage, treating it on the beds the next day. This would need fall, though, or pumping.

Its great application is where a not perfectly purified effluent is needed, as, for instance, where the effluent is going to be discharged into the sea or into some large water-course where a sufficient dilution can be had, and where the next town below is a long way off, i.e., far enough to give Nature time to decompose the rest.

Again, it has an advantage where sand cannot easily be got, and artificial beds have to be made. About five or six times less area is required to treat a given quantity of sewage than where sand is used for intermittent filtration. It will treat septic sewage better even than crude sewage, as the septic system has the same use with reference to these beds as to sand beds, doing half the work, only half the quantity of bed is required.

It is a compromise, too, where it would be necessary to pump a sewage to reach sand-beds, where all the handling by a contact system with a very few feet of fall could be done by gravity.

(i) Continuous Filtration. This is another compromise method. It is based on Moncrieff's experiments, which consisted in placing more or less fine coke. or some such material, on shallow travs, seven inches deep, and placing these trave one above the other, with three inches of space between them, to allow of free aeration. The sewage is allowed to pass on to the upper tray, intermittent triangular tipping boxes being used, then through perforations in the tray on to the second, and so on to the third, fourth, and so on even to the last. The organic matter is found by this method to become less and less and gradually more and more mineralized, until when it has reached the last tray no putrescible organic material is left. It shows what aeration and, consequently, oxidation, does, but it is not practicable on a large scale for sewage treatment. Several devices have been put forward to apply this principle on a working basis. The system of Prof. Stoddart has met with most favor. It is said that by this method it is possible to treat 5,000,000 gals, of crude domestic sewage each twenty-four hours on one square acre of bed four feet thick. Double the quantity is said to be treatable if the bed be made of double the above depth. Storm water does not affect its treating capacity. It will treat practically all putrescible manufacturing wastes, provided allowance is made for the quantity of organic matter that is present over and above what is the content of a domestic sewage. It has been found better to apply the sewage after a preliminary septic treatment.

The whole process depends on an uninterrupted supply of oxygen. The construction of the plant is very simple. The filtering material may be various, so long as it is coarse, hard and rough, like clinker, coke, broken brick or stone, the pieces to range in size from two to three inches, and uniform in size throughout the filter. The cheapest on the spot is best.

This is placed on a floor of concrete, with such a slope that water will not rest on it at all. There must, in consequence, be no dust or dirt in the filtering material, as this would hinder the free outflow from the bed. The sewage must bb distributed continuously in a fine rain. Prof. Stoddart's distributer is constructed for this purpose. It is made of a series of narrow shallow troughs, notched at the edges to allow of overflow; at the bottom edge nails or iron points are arranged so as to break up the stream.

If it could do what is claimed for it, we should have no more difficulty in treating sewage. We experimented with a two square yard one, four feet deep, at Berlin. The material was rough clinker, well washed; the outflow was free. The distributor delivered a rather coarse stream on to the bed. It hardly came up to our expectations. The odor about it was always bad. The albuminoid ammonia and oxygen consumption was almost not at all reduced in quantity. By Kjeldahl method the nitrogenous content was reduced. Grossly, there was a decided change. The brown color of the tannins was changed. The sewage, though, having considerable fine suspended matter in it when flowing on the bed, came away quite flocculent, the flocculi soon settling, leaving a fairly clean-looking effluent, which, though, was still putrescible. I think it would hardly be possible to run this method in our winter climate.

On the whole, we were much disappointed with the results.

No other continuous method has done better than this one. Some of the towns in England where this method has been worked with have had very little success with it. The results at Horsfield are claimed to be very satisfactory.

It has hardly proved itself one way or the other yet.

(j) Electrolytic Method. Much was promised for this method. It is all right to the extent of what comes in contact with the plates, but what does not passes on without treatment. The method as now constituted is expensive. To a great extent, it merely puts off the evil day, and so far has not been a success.

Profit cannot be made out of any sewage disposal system at present in vogue. But the outlav is not so great to dispose of the waste, as it was for obtaining drinking water.

Report of Work Done at Berlin, Ontario.

The first visit made to Berlin was on March 28. The five days were spent visiting twen'y-three of the town's factories. Thirteen of these were found not to give any waste beyond domestic sewage to the system. These thirteen factories included, a glove works, two leather shoe factories, one felt boot factory, a biscuit factory, two iron foundries, three furniture factories, a chemical works, one cloth button factory, and a white goods factory. Ten factories were found to give wastes to the system, peculiar to themselves, and, of sufficient importance to be considered separately with reference to their influence on the system. Of these ten factories, there were four tanneries, one gas-works, one brewery, one wool and felt mill, one shirt factory, and, finally, one rubber shoe factory. The following are the findings of these investigations:

1. Rubber Shoe Factory. Here twelve thousand gallons of water is used, some supplied by the town, and an additional quantity pumped by themselves from an artesian well. The crude rubber is crushed and washed in water, merely gravel and coarse vegetable matter, leaves and twigs coming away. All the rest of the process is a dry one. Nothing of a chemical nature of any kind is thrown into the sewers. The water, other than that used to wash the crude rubber, is used for the purpose of cooling the rollers only. The artesian well water here has at times a very strong sulphide odor. No*organic waste, then, beyond a domestic sewage comes from this factory.

2. The Shirt Factory. No dying whatever of goods is done here. The goods are made up and then laundered. In this process a large quantity of soap is used. About 12.000 gals, of water a day are taken here. About

the only thing to consider from here is the fat from reduced soap and from the fresh goods, and is not thought to be of such moment as to require any form of treatment at the factory.

3. The Button Works. Here, besides making buttons, a quantity of them are dyed. During the year, a carboy of hydrochloric acid, a small quantity of sulphuric acid, oxalie acid, bichromate of potash, sulphates of inon and copper, and not more than five pounds each of the various aniline dyes are used. The effluent is generally hot, nearly all the dye is exhausted befor being discharged into the sewers. Nothing here at the present time, and in the present quantities used, would cause any serious hindrance to bacterial treatment of the sewage. It is all lost very so n by dilution with the sewage.

4. The Wool and Felt Factory. Foreign and domestic wool, in the raw state, are made up into yarn and woollen goods and felts. Wool rags are also used in the process. Anything infectious in the finished wool is removed by the process. There is nothing, though, to prevent bacteria unkilled passing into the sewers during the preliminary washings given to the rags and raw wool. In washing, and afterwards in fulling, a con siderable quantity of soap, sodium carbonate and certain ammonia soap compounds are used, extracting a considerable quantity of fats. No attempt being made to retain them, they go right into the sewer. A great part of the yarns and felts made are dyed on the premises. In the process the greater part of the dyes are exhausted; what goes into the sewers is negligable. The fats from the washing and filling in this factory should be held back from the sewers. A storage basin, giving time for settlement of the sludge, and baffled on the upper surface to catch the fats, would serve the purpose here, and pay for itself probably in the fat held back. What would then go down would be of little consequence.

5. The Brewery. The only waste from here to the sewers is washings from the kegs, barrels, bottles and floors. Considerable finely divided vegetable matter gets into the sewers in this way, and reaches the disposal works. All this material is very tardily putrescible, and is apt to sludge up the reds. Barley husks in considerable quantity may be found at times on those beds receiving crude sewage. With a little eare, fine screens would hold this back.

6. The Gas Works. Gas is made here from the volatilization of partly exhausted cruce petroleum, scrubt ed with water, and freed of considerable of the sulphur compounds by passing over slacked lime. During the scrubbing, the heavier oils are reprecipitated, as it were. It is not as harmful, from a chemical standpoint, to the life of bacteria as the product from coal gas. It appears to be chiefly harmful in that, mixing with particulate matsuch as hair, etc., it blocks the sewers, but on filter-bed surfaces one could hardly conceive of anything worse. It scums over the surface, prevents almost absolutely any entrance of oxygen into the bed underneath, and thus defeats seriously aeration, one of the most important parts of a sewage disposal plant, whether broad irrigation, intermittent sand filtration, or, especially, contact-beds.

The creescte substances remaining in solution in the effluent from the works are soon rendered inert by dilution with the sewage. The heavy oils, though, entering and settling at the bottom of the septic tank, may give off a sufficient quantity of antiseptic to, at least, cripple the bacteria in their functions.

A very slipshod attempt is made to hold back these heavy oils at the works; but this summer they were particularly careful, for only on two or

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three occasions did they allow any very appreciable amount to come down. But coming down once in a while is still very damaging to any disposal plant. This material is practically non-decomposable. Proper settling tanks, baffled on the surface and at the bottom, if properly looked after at the works, would hold back all this substance. A double set of such tanks should be provided, so that the course of the effluent could be directed to one set whilst the other is being cleaned out. Otherwise, in the process a sufficient quantity to do harm will be certain to escape. If a system of pumping the sewage is finally adopted, this tarry substance will be found still harmful in another way unless the pump be a centrifugal one. The pistons will lecome fouled, and considerable damage may be done. In one of the cities visited in the Eastern States such a settling tank was introduced at the gas-works, where, so long as care was taken to clean it out regularly and carefully enough to prevent tar getting into the sewers, all went well. Any negligence was immediately felt at the disposal works. In spite of protests, once in a while tar would come down, giving a good deal of trouble, especially with the pumping plant. Finally, the town obliged the gas-works company to seek their own outlet for their sewage, prohibiting entrance into the sewers.

7. The Tanneries. There are four tanneries discharging their wastes into the sewers. Between the four, about 150,000 gals. of sewage, at a lew estimate, is being run into the sewers each twenty-four hours during week days. Three clas es of leather are produced—harness leather, sole leather glove and shoe-top leather—and three processes are in operation. For glove and shoe-top leather the chreme tanning method is used, and between the two factories using this about 20,000 gals, of effluent is discharged each day. They use between them 70 and 80 carboys of hydrochloric acid in a year, with the necessary amount of potassium bichromate. This substance, the "chloride of chrome." is decidedly antiseptic, and would stop bacterial action; but, fortunately, most of it is exhausted before it reaches the sewers, and, when it does, it is diluted to such an extent that it does little harm.

Both of these factories use moist hides in the process. The hides are first washed and soaked in water. This water is sent into the sewers. There is nothing to prevent pathogenic organisms going on, although, after the liming process that the hides are next subjected to, such organisms are probably killed. These tanners disclaim absolutely using any arsenic in this liming process, though in the Eastern section of the United States such la ge quantities of sulphide of arsenic are used that, even diluted, it comes to be dangerous. If used as there used, this arsenic would be antiseptic and harmful to any bacterial system of disposal. The lime itself is useful in the sewage, in that it helps to keep it neutral and acts as a precipitant; but, unforturately, a considerable quantity of it settles in the sewers and gives rise to a good deal of trouble. The third part of the process, the chrome treatment, would destroy any pathogenic bacteria present. The chrome is practically all taken up by the leather, and very little of it goes into the sewers. In this process there are, thus, three classes of effluent, the hide washings, the lime and lime washings, and, finally, the chrome liquor. All these at present are sent into the sewers at different times, and, of course, in varying quantities. The damage done could be greatly neutralized by mixing the whole twenty-four hours sewage, and allowing it to stand; there would settle out a considerable sludge, carrying down a very large percentage of the organic matter present, from 30 to 50 per cent. of it. This would mean a great saving in the way of disposal plant,

and, besides, would remove a great deal of the most obnoxious of the materials given to the sewers by this method. The expense to the manufacturers would be very little, as the plant itself would be simply tank capacity enough to hold the twenty-four hours' sewage. The chemicals would precipitate one another, a comparatively innocuous effluent would leave the place. They, of course, would have to carry away the sludge, and their tanks would have to be constructed so that this could easily be taken out of them. Some return could be made from the sale of the fats gathered at the surface by the baffle boards, and these fats form no negligable quantity either. It would pay to hold and render them.

Sole-leather is manufactured from moist and dry hides. Most of the dry hides of these come from foreign countries, chiefly Argentina. "Fallen hides " are unavoidably amongst thom. These are dangerous. Of course, all these animals have not died from communicable diseases; unfortunately anthrux hides sometimes find their way amongst them. Two tanneries in Berlin ar tanning sol letther. In the case of the moist hides, after washing and soaking in water to rid them of dirt and common salt, they are placed in a lime paste to loosen the hair. They are then washed in water, a good deal of the lime going down the sewers. They are then rid of hair, and treated with an acid, chiefly Sulphuric, and put into a hemlock back leach, to spend from four to six months in it. This letch is used over and over again, sometimes for two years. The hides after coming out of this are washed in water, the waste going into the sewers. In the smaller of the tanneries the spont letch is sent off into the sewers; at the larger one, and it is very acid here, it is sent off by another route, not entering the sewerage system of Berlin.

When the dry hides are used, they are previously soaked in water to soften them and to g t rid of the small quantity of arsenie attached, which has b en put there when packing, out of a watering can, to inhibit the growth of moths, etc. It is not sufficient in quantity to act as an antiseptic to the hide. Dr. Ellis says there is so little arsenic present in the rats in which this soaking takes place that cattle could drink the water without getting enough to produce any symptoms of arsenical poisoning in them. This arsenicated water gees into the sewers. It cannot do any harm there, except as a carrier of pathogenic bacteria.

The hid s from this are again washed, and finally sweated in a warm room to loosen the hair. After removal of the hair, the hides are placed in an acid solution, and then into the Lemlock leach vats. Up to the acid treatment there is nothing to kill pathogenic bacteria. From that out, probably, this takes place, viz., during the acid and tannin treatment. From this place the only tannin solution going into the waters is that washed off the hid s after they are taken out of the vats. And this is fortunate for Berlin's sewage disposal plant, for what they send out by their own private methods is extremely a id, and would be decidedly harmful in the sewage. Milk of lime hardly neutralizes it. except when used in great excess. A great waste of acid is going on here. A large quantity of water is used at this place, and nine tenths of it goes into the sewers. They make an attempt to hold back the coarse solids at least, but considerable fine sus pended matter gets away to the sewers. This could be held back as well as the fats by a settling basin, without anything further, except to hold the whole twenty-four hours' supply. A very large sediment forms in a standing bottle of this sewage.

In the manufacture of harness leather, moist hides entirely are used. These have been cured in common salt. The hides are washed, treated to

lime paste, no arsenic, and the hair removed. They are then placed in a bark leach and changed from vat to vat over months of treatment. The tannins are not used for as great length of time as in the sole leather process. The sewers get the benefit. Usually some one vat is emptied each day, but more especially on two days of the week. These tannin liquors are objectionable, more from the aesthetic than from any other point of view. Nearly all the ground waters about Berlin contain iron, and, of course, blackening takes place as soon as the mixture with this tannin is brought about. The septic tank and the best of the contact-beds removed the greater part of these tanning. These tanning are chiefly responsible for the "buckle-berry milk" color which Schneider's Creek water assumes when the sewage enters it. The purplish black precipitate is made up of tannates and gallates, etc., of iron. Hydro-chloric acid will dissolve them up, and they then give a beautiful iron reaction with Pot Thiocyanate. The effluent from this tannery is of three kinds, washings from the hides, lime liquor and tannins in solution. All of these come at different times of the day. We found, experimentally, that the tanning were lost, to an extent, and the organic substances reduced by from 35 to 40 per cent, by merely holding all the effluents together in the one receptacle for twenty-four hours, a considerable sludge settling to the bottom.

No form of settling tank for any of the tanneries with a less capacity than that of the twenty four hours would be sufficient to be of any value in sedimenting this sewage.

I have found a willingness in all these tanneries to do all that would be required of them to reduce the difficulties from any cause on their part, even to go to the extern of pumping their sewage into such tanks as would be found necessary. There is a glue works, which does not give any effluent to the sewers, however.

After this inspection of the factories was made, the trip to the Eastern States was under'aken. The sewage plants visited were those at Boston, at Andover, at Clinton, two at Hopedale, at Brockton, at Worcester, at Framing' am, and the Experimental Station at Lawrence. The greatest kindness was shown me at each of these places, and every facility given me to learn what there was to be learned at each place; and a good deal of inside information was got. Intermittent sand filtration is the favorite down there, a d they have good reason in their preference. It shows the best effluent: they have plenty of sand, the labor is small, and need not be over-skill d, though several of these plants have technically trained men in charge of their plants. The plants work about as well in summer as in winter. They have not taken very kindly to the septic tank preliminary treatment. Probably necessity has not driven them to it. Where they have been installed. except at An'over, they are well satisfied, yes, more than satisfied, with the esults. At Lawrence, the work is still being faithfully pushed on at the present time, especially along the line of sewage disposal, and there especially with the different bacterial methods, septic tanks, "contact" beds of verious kinds of "continuous" and "intermittent" filters. At the time of my visit, six skilled men were working here, besides the unskilled laber about the place. It is a little hive of enthusiasm.

(8) Average Daily Flow at Berlin. This was measured during dry weather and by weiring at the disposal plant. Readings were taken every hour on eleven different days, and showed the quantity arriving during each twenty-four hours to be approximately 450,000 gals. In appearance it varied at different times during the day. From seven to nine o'clock it looked like ordinary domestic sewage, more like dirty dish water than anything else.

From nine until eleven o'clock it became quite reddish in color from the large quantity of tannins contained; from eleven until about two in the afternoon, it became whitish, apparently from lime admixture; from then on it usually showed more or less brownish red coloration to about two or six o'clock, when it gradually became cleaner and less colored, so that at nine or ten o'clock at night it became the clearest and least colored of the day, and is said to remain so during the night, when hardly enough to overflow the large septic tank ran over.

In Berlin there is a special surface drainage system, carrying off surfice water and storm water. The four tanneries together give about 150, 000 gillons of waste water a day to the sewers. The gas works gives from 12,000 to 15,00 gals. The rubber works sends in about 12,000 to 15,000 gals. per day also. The other factories together give about 20,000 gals. Altogether the factories make up about 200,000 gals., leaving thus about 250,000 gals. of domestic sewage. The population of the town is above 10,000. Not all the town is sewered.

(9) Composition of the Sewage. Thirty-three samples were examined from June 26 to Sept. 4. These were aliquot portions from hourly samples taken at the disposal works from main effluent, on the days indicated in the

Raw Sewage at Berlin.

(Par	ts i	in 1	00,	000.)

1902.	Total free ammonia.	Total albumenoid ammonia.	Oxygen consumed.	Chlorine,	Color.
June 26th	$\begin{array}{c} 3 \ 000\\ 3. 450\\ 3. 855\\ 4. 788\\ 2. 772\\ 3. 780\\ 2. 520\\ 2. 100\\ 1. 620\\ 1. 640\\ 1. 960\\ 2. 530\\ 2. 120\\ 2. 220\\ 2. 660\\ 1. 360\\ 2. 400\\ 2. 600\\ 2. 600\\ 2. 600\\ 2. 600\\ 2. 600\\ 2. 600\\ 2. 600\\ 2. 600\\ 2. 600\\ 2. 600\\ 2. 600\\ 2. 600\\ 2. 600\\ 2. 600\\ 2. 255\\ 2. 100\\ 2. 450\\ 2. 225\\ 2. 150\\ 2. 255\\ 2. 150\\ 2. 750\\ 1. 900\\ 2. 800\\ 2. 100\\ \end{array}$	$\begin{array}{c} 1.500\\ 1.890\\ 2.856\\ 4.410\\ 1.092\\ 3.024\\ 2.590\\ 2.016\\ 1.600\\ 1.320\\ 1.680\\ 2.560\\ 1.460\\ 1.900\\ 2.280\\ 1.310\\ 1.450\\ 1.450\\ 2.280\\ 1.310\\ 1.450\\ 2.280\\ 1.310\\ 1.450\\ 2.280\\ 1.600\\ 1.600\\ 1.650\\ 1.750\\ 2.2700\\ 1.660\\ 1.625\\ 1.925\\ 2.200\\ 2.050\\ 2.050\\ 2.100\\ 1.750\\ \hline\end{array}$	31.50 16.90 69.80 27.43 22.37 43.40 21.50 63.00 49.70 66.20 51.00 58.60 58.60 58.60 52.90 43.40 52.90 43.40 55.80 40.80 72.80 49.00 52.40 85.80 45.80 45.80 45.80 45.80 45.80 45.80 49.95	30 0 86.0 40 0 88.0	Red. "" Greyish.* Ked. No color. Red. Little color. Red. "" "" "" "" "" "" "" "" "" "
Averages	2.542	2 017	49.95	61.0	

subjoined table. These samples were always brown in color except on public holidays and Sundays, and showed considerable sediment from 1-30 to 1-25 of the column. The odor was generally stale and did not vary much. The reaction was never found to be anything but neutral, phenolpthalin, methyl organ, red and blue litmus being used as indicators. Chemically it showed the subjoined composition per 100,000 parts: Free ammonia, 2.542; albuminoid ammonia. 2.017; oxygen consumed, 49.95; chlorine, 61.00.

This on passing into Schneider's Creek blackened almost immediately, due to a fine precipitation of tannates, etc. This precipitate was found to be soluble in hydrochloric acid and to then show a distinct iron reaction with potassium thyocyanate. The water above the sewage farm in Schneider's Creek showed iron to be present. Any of the ground waters about the disposal plant and anywhere else about Berlin that were taken showed iron. Any of the sewage that had run through the town beds showed distinct blackening. None of that from our beds showed it until after some weeks of sewage application. No sewage coming from the septic tanks even showed any appreciable amount of blackening.

(10) Water of Schneider's Creek. During the comparatively dry times the flow of this creek showed about 1,000,000 gals. per 24 hours. Above the sewage disposal plant the water was nearly clear, and showed the following chemical composition per 100,000 parts: Free ammonia, .035; alb. ammonia, .045; oxygen consumed, 3.5; chlorine, 1.0. Below the plant it was invariably blackish in color, sometimes very black and showed the following composition per 100,000 parts: Free ammonia, .225; oxygen con., 62.0; chlorine, 18.0.

(11) Uptown Septic Tanks. These tanks (two of them) were placed one above the gas works, the other below, for the purpose of finding if the effluent of the works acted harmfully towards bacterial growth and might thus hinder the treatment of Berlin's sewage. They were started on May 27th. The experiment ceased September 18th.

These tanks were each of 600 gallons capacity, containing a depth of three feet of sewage and being four feet wide. They were each divided into four equal parts by baffle boards dropping down from above and extending up from below, leaving a space between them of about six inches, the space being about one foot below the surface of the sewage and extending all the way across the tank, with the object of holding the sludge at the bottom and the scum above, at the same time allowing the current to run through continuously with little disturbing influence. The rate of flow was about 1,200 gallons per 24 hours for each tank. During the experiment the first compartment, half of the second and about one inch of the bottom of the third filled with sludge. The odor was never bad. Bubbling was always sluggish, and did not commence until June 28th (season was cool), and with the exception of the first compartment the seum was not marked. There was practically no difference in appearance between the two tanks, except that the color below the gas works always seemed better, probably accounted for by the dilution.

From seven a.m. until six p.m., when samples were collected, half hour quantities of affluent and effluent were taken and kept separate. Of these aliquot portions were taken for examination. And in making the examination it was made on unfiltered specimens.

The tank above the gas work removed 40 per cent. of the albuminoid substance and 22.97 of the oxygen consuming material, whilst that below there removed 38.5 per cent. of the albuminoid and 38.4 per cent. of the

THE REPORT OF THE

oxygen consuming substances. The sewage entering the upper tank was not so diluted as that below, but on the whole the difference is small when allowance is made for difference in affluent, but that difference is in favor of the upper tank, in the albuminoid substances, the more important of the constituents of the sewage. The difference though shows that the gas works effluent is not favorable, but that it is not so to any great extent. The sewage containing it is treatable bacterially at least by anacrobes. The following tables will show the composition of the affluents and effluents for each tank. The averages of these speak for themselves:

Septic Tank Above Gas Works.

		Atfluen	it.			Ffluen	t.
1902.	Free ammon.	Alb. ammon.	Oxygen consumed.	1902.	Free ammon.	Alb ammon	Oxygen contur ec
June 27th	3.465 3.360 3.885 4.788 3.780 2.520 2.850 1.850	$\begin{array}{c}1.890\\2.520\\2.856\\4.410\\3.024\\2.590\\2.950\\3.025\\1.625\\2.050\end{array}$	16 79 69.80 27.43 43.40 21 50	June 27th '' 28th '' 30th July 1st '' 3rd '' 5th Sept. 18th '' 19th '' 25th '' 26th	2.940 3.150 3.250 2.150	$ \begin{bmatrix} 2.380 \\ 1.470 \\ 1.686 \\ 2.268 \\ 1.590 \\ 2.180 \\ 1.100 \\ 1.650 \\ 0.925 \\ .900 \end{bmatrix} $	16,43 64,90 15,90 28,50 12,30
Averages	3.312	2.694	35.78	Averages	3,208	1.614	27.60

(Parts in 100,000).

Change in color throughout.

Capacity of tank 600, run at rate of 1,200 gallons per 24 hours.

Septic Tank Below Gas Works.

(Parts in 100,000.)

	Affluen	t.		Effluent.		
1902.	Free Alb. ammon. ammon.	Oxygen consumed	1902.	Free ammon.	Alb. ammon.	Ox y gen consumed.
June 27th	2 940 2.782 3 150 2.856 2.360 2.688 2.390 2 590 	18.95 37.50 23.46 40.20 16.70	June 27th '' 28th '' 30th July 1st '' 3rd '' 5th Sept. 18th '' 19th '' 26th. Averages	2.410 3 570 2.520 2.520 2.520 2.520	1.417 1.260 1.848 1.512 1.340 1.275 1.375 .950 1.372	12.24

Reduction of color always.

Capacity of tank 600 gallons, running at rate of 1,200 gallons per 24 hours.

1902

Results in the Septic Tanks.

In conducting these experiments two tanks were used: one, the tank two years before constructed by the town, with a total capacity of 60,000 gallons, the other one of 1,800 gallons capacity. The smaller tank was a duplicate of the same construction as those uptown in construction and division of compartments, and with the same arrangements of baffle boards. The larger one, as may be seen by the subjoined print, had baffle boards running down from the surface only. The baffling in the small tank was much more successful in arresting suspended matter than that in the large tank, even when making allowance for the difference in flow. The sludge in the smaller tank filled the first chamber and about one foot of the second. There was not more than an inch or two of it in the third. In the large tank all of the grit or first chamber was filled, the proximal floor of the rest did not show more than about 6 or 8 inches of sediment. Both tanks were started on June 26th, the experiments with them ceased on Sept. 4th, when these sludge measurements were made.

The flow through the small tank was continuous, and at the rate of 1,800 gallons per day throughout the experiment. The following table will show the average affluent with the effluent date by date, with the general average of each at the end of the experiment. The average percentage treatment here was for albuminoid substances 53.0, and for oxygen consuming materials, 51.7.

This occurred curiously enough without the production of any unpleasant odor. The gas production was never extremely vigorous, nor was scum formation marked, but compared with the affluent the effluent had lost a considerable quantity, as much as 3.4 of its coloring matter:

		Affluen	t.		Effluent.		
1902.	Free ammon.	Alb. ammon.	Oxygen consumed.	1902.	Free ammon.	Alb. ammon.	Oxvgen consumed.
June 26th	$\begin{array}{c} 3,000\\ 2,100\\ 1,620\\ 1,640\\ 2,120\\ 1,360\\ 2,400\\ 2,600\\ 2,600\\ 2,600\\ 2,600\\ 2,450\\ 2,475\\ 2,100\\ 2,475\\ 2,750\\ 2,475\\ 2,750\\ 2,750\\ 2,750\\ 2,750\\ 2,750\\ 2,750\\ 2,800\\ 2,100\\ \end{array}$	$\begin{array}{c} 1.500\\ 2.016\\ 1.600\\ 1.320\\ 1.310\\ 1.450\\ 2.600\\ 2.300\\ 1.650\\ 2.300\\ 1.650\\ 2.255\\ 2.700\\ 1.602\\ 1.625\\ 2.200\\ 2.050\\ 2.200\\ 2.010\\ 1.750\\ 2.100\\ 1.750\\ \end{array}$	$\begin{array}{c} 31.50\\ 63.00\\ 49.70\\ 66.20\\ 52.90\\ 43.45\\ 55.80\\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	June 26th July 8th ** 9th ** 11th ** 16th ** 29th Aug. 8th ** 9th ** 16th ** 16th ** 16th ** 16th ** 16th ** 16th ** 20th ** 21st ** 22nd ** 22nd ** 22nd ** 22nd ** 22th ** 22st ** 22st ** 22st ** 22st ** 22st ** 22st ** 22st ** 22st ** 20th ** 20th	$\begin{array}{c} 2.500\\ 1.785\\ .850\\ .850\\ 1.850\\ 1.620\\ 2.800\\ 2.800\\ 2.400\\ 1.500\\ 2.075\\ 2.350\\ 1.375\\ 1.705\\ 2.075\\ 1.800\\ 2.125\\ 2.100\\ 2.52\\ 1.825\\ 2.100\\ 2.450\\ 2.475\end{array}$	$\begin{array}{c} 1.062\\ 1.210\\ .880\\ .840\\ .740\\ .256\\ 1.159\\ .750\\ .750\\ .755\\ .675\\ .975\\ .975\\ .975\\ .975\\ .975\\ .975\\ .975\\ .975\\ .975\\ .975\\ .975\\ .975\\ .850\\ .925\\ .850\\ .800\\ 1.050\\ \end{array}$	11.74 42.80 19.80 22.10 21.90 31.60 28.40 13.20 32.00 23.60 30.60 30.60 30.20 20.20 20.20 37.20 30.80 33.80
Averages	2 317	1.835	57.08	Averages	1,966	. 860	27.56

Small Septie Tank at Farm.

(Parts in 100 000)

Capacity 1.800 gallons. 1,800 gallons run through per 24 hours.

The Large Septic Tank.

The large septic tank had just been emptied of sludge when the experiment began. It did not show any advantage over the smaller one in the time of commencing treatment. Bubbles appeared on both about the same time after the warm weather began. Seeding here, apparently, at least, had no advantage. Of course there must be taken into account the much larger bulk of sewage. The resting place for the bacteria being the sur faces of the tank and the contained sludge, the fluid moving out rapidly gave them much less chance to perform their work. This tank, whose capacity was 60,000 gallons, was run at the rate of 100,000 gallons per 24 hours. There was no odor. The removal of color was never as good as in the smaller tank, and there was always more suspended matter in its effluent than in the smaller tank. The bubbling was about the same in both. There was very little scum—hardly as much as in the smaller tank.

In the following table will be found the chemical composition of the affluents and effluents throughout the experiment. The average percentage treatment here was for albuminoid substances, 45.5, and for oxygen consuming substances, 40.6.

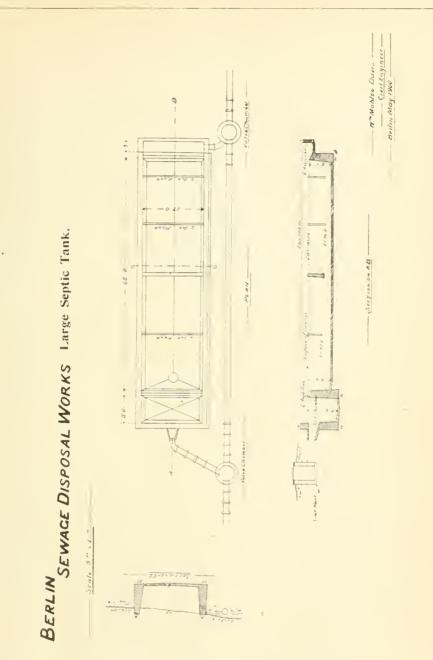
Large Septic Tank.

	Affluent.					Effluent.		
1902.	Free ammon.	Alb. ammon.	Oxygen consumed.	.1902.		Free ammon.	Alh. ammon	Oxygen consumed.
June 26th July 3rd " 8th " 9tb" " 11th " 12tb " 15th " 23rd " 29th " 29th " 29th " 29th " 29th " 20th " 15th " 20th " 21st " 21st " 21st " 21st " 21st " 21st " 26th " 26th " 30th " 3rd " 3rd " 4th	$\begin{array}{c} 3.000\\ \hline\\ 2.100\\ 1.620\\ 1.640\\ 2.530\\ 2.220\\ 2.660\\ 2.300\\ 2.400\\ 2.300\\ 2.600\\ 2.300\\ 2.600\\ 2.325\\ 2.100\\ 2.450\\ 2.225\\ 2.475\\ 2.925\\ 2.475\\ 2.925\\ 2.700\\ 2.675\\ 2.925\\ 2.150\\ 2.150\\ 2.100\\ 2.803\\ 2.100\\ \end{array}$	$\begin{array}{c} 1.500\\ 2.016\\ 1.600\\ 1.320\\ 1.680\\ 2.560\\ 1.900\\ 2.280\\ 1.450\\ 1.450\\ 2.600\\ 1.450\\ 2.300\\ 1.600\\ 1.600\\ 1.750\\ 2.250\\ 2.025\\ 2.700\\ 1.600\\ 1.625\\ 1.925\\ 2.200\\ 2.050\\ 2.050\\ 2.100\\ 1.750\\ \end{array}$	$\begin{array}{c} 31.50\\ \hline \\ 63.00\\ 49.70\\ 66.20\\ 51.00\\ 58.60\\ 28.40\\ 55.80\\ \hline \\ 52.90\\ 43.40\\ 55.80\\ \hline \\ 140\\ 55.80\\ \hline \\ 140\\ 55.80\\ \hline \\ 140\\ 80\\ 72.80\\ 54.80\\ 54.80\\ 59.60\\ 59.60\\ 59.60\\ 52.40\\ 85.80\\ \hline \\ 15.80\\ \hline 15.80\\ \hline \\ 15.80\\ \hline \\ 15.$	July 3rd " 8th " 9th " 11tb " 12th " 12th " 12th " 12th " 23rd " 29th " 29th " 15th " 29th " 15th " 15th " 15th " 29th " 21st " 20th " 21st " 20th " 21st " 20th " 21st " 22rd " 20th " 21st " 20th " 23rd " 23rd " 23rd " 23rd " 23rd " 23rd " 23rd " 3rd " 3rd		$\begin{array}{c} 3.000\\ 2.940\\ 1.800\\ 2.940\\ 1.357\\ 1.270\\ 1.357\\ 1.270\\ 2.400\\ 2.240\\ 2.400\\ 2.400\\ 2.400\\ 2.450\\ 1.900\\ 2.975\\ 2.250\\ 2.475\\ 1.750\\ 2.475\\ 2.650\\ 2.650\\ 2.250\\ 3.050\\ 3.050\\ 2.250\\ \end{array}$	$\begin{array}{c} 1.375\\ 1.260\\ 1.176\\ .874\\ .864\\ 1.190\\ 1.260\\ 1.240\\ 1.260\\ .950\\ .650\\ 1.350\\ .950\\ 1.050\\ 1.050\\ 1.125\\ 1.265\\ .950\\ 1.125\\ 1.265\\ .925\\ 1.150\\ 1.100\\ 1.025\\ .925\\ .925\\ .925\\ \end{array}$	10.45 19.47 19.47 10 18.50 16.20 53.70 40.40 38.30 25.00 21.00 28.60 26.60 26.60
Averages	2.329	1.930	54 48	Ave	rages	2.223	1.057	32.37

(Parts per 100,000)

Capacity, 60,000 gals. 100,000 gals. run through each twenty-four hours.

4



There is thus a difference of 7.5 per cent in the removal of albuminoid substance and 10.1 per cent. of oxygen consuming material in favor of not running a septic tank at Berlin above its capacity for the 24 hours. It would seem enough to repay the outlay made in supplying more tankage capacity.

The treatment obtained in both these tanks shows that septic tank treatment here is very well up to the best obtained at other places. The advantage in our experiments here was that both tanks were large, especially the larger one, and we were able to get results more nearly approaching what might be expected in the practical disposal of sewage.

Contact Beds.

There were four of them. Three of these had contact material of gravel and were covered to a depth of 3 inches with a coarse, sharp sand to screen affluent. The gravel in each of the three beds was of different sizes. This was done with the idea of seeing what difference size of material would have in the treatment obtained. The gravel was screened quite clear of sand and dirt of any kind. It was placed in each bed in a three-foot deep layer, the bottom of the bed being underdrained with 4-inch tile, coarse gravel being placed around the tile in a layer about 2 inches thick. These three beds had each an area equal to one two-hundredth of an acre. The banks and bottom of the beds were of clay, fortunately found in situ; any sandy seams present were dug out and tamped well with clay to prevent leakage. Boxes with sliding gates were placed to control the effluents. These three beds were finished and started on July 8th, the experiment with them was continued until Sept. 4th. It was nearly two weeks after starting before they commenced to remove the tannin color of the affluent, which had been always in the effluent of the large sea tic tank.

The bed with the smallest material was the first to change the tannins and always did it best, the least efficient of the beds being that with the coarsest gravel. In the effluent of this last there was always left a certain tannin coloration. Consultation of the subjoined tables will show the interspace capacity of each bed, the rate at which run and the composition of the affluent and the effluent from date to date and at the end the averages of each. At no time was the effluent from any of these beds nonputrescible. The field with the finest gravel gave always the best effluent, the coarsest the left treated, though the nitrate results were best in the coarsest bed when they were made.

During the first part of the experiment the beds were filled 3 times each day, during the second period only twice a day. It will be noted in the tables that there is no appreciable difference in the results of the treatment, whether two or three applications a day were made. The saud on the surface of the beds had to be raked over every few days otherwise it was found that the sewage could not go down into the beds. In collecting the samples, the affluents were sampled three times whilst running on, the effluents were taken three times whilst running off. The results from the three cycles or two as the case might be, were mixed together, affluent with affluent, effluent with effluent and aliquot portions taken for examination.

The interspace capacity of all the beds was probably reduced during the experiment. No. 1 showed a reduction of one-eleventh. It was the only one measured.

The percentage reduction in each bed over affluent was:

No. 1 No. 2 No. 3	Free ammonia. 40 per cent. 30.3 " 33.6 "	Albuminoid 34 4 pe 42 3 27.8	r cent.		corsumed. per cent.
The best bed lea	ves an average	effluent sh	nowing j	per 100,00	parts:
Free ammoni . 1.562	Albumin	cid ammonia. .592		Oxygen con 16.43	
Thus there is sho	own a percenta,	ge reductio	n_from	the crude	sewage of:
l ree ammonia. 32.8 per cent.		aminoid. per cent.		Oxygen con 70.3 per c	

The set tic tank has done more than two-thirds of the work.

Contact Bed I.

1/200 ac	ere.		(Parts per 100,000.) Qua			arter inch gravel.		
		Affiuent				Effluent	i.	
1902.	Total free ammon.	Total alb. ammon.	Oxygen consumed.		1902.	Total free ammion.	Total alb. ammon.	Oxygen consumed.
July 8th	$\begin{array}{c} 1.785\\ 1.180\\ 2.140\\ 1.300\\ 2.450\\ 1.900\\ 2.975\\ 2.250\\ 2.475\\ 1.750\\ 2.650\\ 2.475\\ 2.650\\ 2.650\\ 2.250\\ 2.650\\ 2.250\\ 2.900\\ 3.250\\ 3.050\\ \end{array}$	$\begin{array}{c} 1.210\\ .740\\ 1.160\\ 1.639\\ .950\\ .650\\ 1.350\\ .950\\ .050\\ 1.175\\ 1.265\\ .925\\ 1.160\\ .925\\ 1.100\\ 1.025\\ 1.025\\ .925\\ .775\\ \end{array}$	42 80 21.90 25.00 26.30 28.60 26.60 28.80 39.10 49.00 36.80 49.75 32.00 36.60 34.00 28.60	July Aug. Sept.	9th 15th 16th 20th 21st 22od 23rd 26th 27th 28th 29th 30th 2nd 3rd	$ \begin{array}{r} 1.275 \\ 1.575 \\ 2.400 \\ 1.950 \\ \end{array} $.630 .670 .640 .650 .350 .825 .550 .600 .700 1.100 .775 .575 .575 .550 .555	24.00 14.90 8.70 27.00 10.40 11.20
" 4th Averages	2.252 2.306	.925	33 72	66	4th Averages	1.375	675 .678	16 59

Interspace capacity 234,400 gals. per acre. Run at three times this rate for first half of experiment per acre per day. Run at twice this rate for second half of experiment per acre per day.

Contact Bed II.

1 200 acre.

(Parts per 100,000.)

Oue-eighth inch gravel.

		Attluen	Ŀ.			Etiluent.		
1902.	Total free ammon.	Total alb. ammon.	Oxygen consumed.	1902.	Total free ammon.	Total alb. amnion.	Oxygen consumed.	
Jnly 8th	$\begin{array}{c} 1,830\\ 1,800\\ 2,240\\ 2,140\\ .980\\ 2,450\\ 1,900\\ 2,900\\ 2,975\\ 2,250\\ 2,475\\ 1,750\\ 2,175\\ 2,650\\ 2,175\\ 2,650\\ 2,250\\ 2,250\\ 2,250\\ 2,250\\ 2,250\\ \end{array}$	$\begin{array}{c} 1.176\\ 1.260\\ 1.249\\ 1.260\\ 1.249\\ 1.650\\ .728\\ .950\\ .950\\ 1.050\\ 1.050\\ 1.125\\ 1.265\\ .950\\ .925\\ 1.150\\ 1.100\\ 1.025\\ .925\\ .775\\ .925\\ .775\\ .925$	47,10 40.40 40.04 38.30 25.00 21.00 28.60 20.60	July 8th 4 15th 4 16th 4 19th 4 23rd 4 29th Ang. 8th 4 16th 4 29th Ang. 8th 4 15th 4 15th 4 16th 4 19th 4 21st 4 21st 4 22rd 4 22rd 4 22rd 4 22rd 4 22rd 4 21st 4 21st	$\begin{array}{c} 1.470\\ .960\\ .660\\ .640\\ .780\\ .780\\ .780\\ .200\\ .200\\ .2925\\ .475\\ .475\\ .475\\ .475\\ .475\\ .475\\ .475\\ .475\\ .675\\ .050\\ .650\\ .650\\ .800\\ .750\\ .750\\ .72$	$\begin{array}{c} .580\\ .460\\ .560\\ .500\\ .500\\ .500\\ .650\\ .900\\ .900\\ .875\\ .800\\ .475\\ .660\\ .650\\ .700\\ .650\\ .525\\ .575\\ .450\\ .575\\ .450\\ .576\end{array}$	19.70 9.10 12 10 18.60 9.20 26.80 11.60 8.00 	
Averages	2.247	1.042	34.21	A verages	1.562	.596	16.43	

Interspace capacity, 187,400 gals. per acre. Run at three times this rate for first half of experiment per acre per day. Run at twice this rate for second half of experiment per acre per day.

1/200 acre			(Parts per	100 000.)	-inch gravel.			
	Affluent		t.			Effluent.		
1902,	Total free ammon.	Total alb. ammon.	Oxygen consumed.	1902.	Total free ammon.	Total alb. ammon.	Oxygen consumed.	
July 8th	$\begin{array}{c} 1.800\\ 1.160\\ 1.820\\ 2.240\\ 2.140\\ .980\\ 2.450\\ 2.450\\ 2.000\\ 2.200\\ 2.975\\ 2.250\\ 2.475\\ 1.750\\ 2.475\\ 1.750\\ 2.650\\ 2.650\\ 2.650\\ 2.250\\ 2.900\\ 3.250\\ 2.2$	$\begin{array}{c} 1.176\\ 1.190\\ 1.260\\ 1.240\\ 1.650\\ .650\\ .550\\ .950\\ .950\\ 1.050\\ 1.050\\ 1.050\\ 1.125\\ 1.225\\ 1.125\\ 1.265\\ .950\\ 1.100\\ 1.025\\ .925\\ .775\\ .925\\ .775\\ .92$	****	July 8th 12	$\begin{array}{c} 1.680\\ .300\\ 1.260\\ 1.260\\ 1.320\\ 1.320\\ 1.700\\ 1.650\\ 2.100\\ 1.650\\ 2.100\\ 1.425\\ 1.425\\ 1.425\\ 1.425\\ 1.425\\ 1.450\\ 1.425\\ 1.50\\ 2.150\\ 2.400\\ 2.400\\ 2.400\\ 2.400\\ 2.400\\ 2.400\\ 2.400\\ 3.50\\ 1.400\\ 1.50\\ 1.400\\ 1.50\\ 1.$	$\begin{array}{c} .610\\ .740\\ .620\\ .620\\ .960\\ .550\\ .975\\ .575\\ .575\\ .575\\ .575\\ .805\\ .750\\ .600\\ .600\\ .575\\ .600\\ .575\\ .600\\ .800\\ .575\\ .600\\ .800\\ .575\\ .600\\ .800\\ .800\\ .575\\ .600\\ .800\\ .800\\ .800\\ .575\\ .600\\ .800\\$	19.10 26.50 17.20 25.90 15.90 51.30 10.60 17.40 	
Averages	2 262	1.041	36 19	Averages	1.502	.758	20.07	

Contact Bed III,

Interspace capacity, 257,800 gallons per acre. Run at three times this rate for first half of experiment, per acre per day. Run at twice this rate for second half of experiment, per acre per day.

Coke Contact Bed.

This was of the same depth as the gravel beds and was constructed and drained in the same way. The coke was of a specially 0 h. D. I

U	$\mathbf{E}($	5 1	126	PG	

		Affluen	t.		Effluent.		
1902.	Free ammen.	Alb ammon.	Oxygen consumed.	1902.	Free ammon.	Alb. ammon.	Oxygen consumed.
Aug. 8th	$\begin{array}{c} 2.800\\ 3.000\\ 2.100\\ 2.975\\ 2.250\\ 2.475\\ 1.750\\ 2.650\\ 2.650\\ 2.650\\ 2.250\\ 2.900\\ 3.250\\ 3.050\\ 2.250\end{array}$	$\begin{array}{c} 1.150\\ 750\\ 1.350\\ .950\\ 1.050\\ 1.175\\ 1.125\\ 1.265\\ .950\\ .925\\ 1.160\\ 1.002\\ 1.025\\ 1.025\\ .925\\ .775\\ .925\\ \end{array}$	28 40 13 20 28 80 39.10 49.00 36.80 49.75 32.00 36.60 34.00 28.60	Aug. 8th " 9th " 15th " 15th " 16th " 20th " 21st " 22ud " 23rd " 23rd " 26th " 26th " 26th " 26th " 26th " 26th " 26th " 30th " 30th Sept. 2ud " 3rd " 3rd " 4th	$\begin{array}{c} 2.500\\ 1.700\\ 2.250\\ 2.650\\ 1.950\\ 1.950\\ 1.900\\ 1.975\\ 1.700\\ 2.625\\ 2.625\\ 2.150\\ 2.900\\ 3.000\\ 3.400\\ 2.425 \end{array}$	$\begin{array}{c} .850\\ .600\\ 1.150\\ .750\\ .975\\ 1.000\\ .925\\ 1.050\\ .726\\ 1.050\\ 1.125\\ 1.125\\ .975\\ 1.025\\ .850\\ .600\\ 1.000\\ \end{array}$	22.00 49 00 12.20 24.60 39.20 24.50 53 80 29.40 22.40 15.20
Averages	2.551	1.036	33.27	Averages	2.327	.936	29.23

(Parts per 100,009.)

Interspace capacity, per acre, 356,000 gallons. Run at the rate of 712,000 gallons per acre per day.

hard form in pieces of 1 inch in size. It had an area of one-eight hundredth of an acre. It was finished and started on August Sth, and finished with on September 4th. It took a week's working before its effluent showed any reduction of the color of the affluent. The effluent as shown by the subjoined table was not sati-factory. Its interspace capacity was 356,000 gallons per acre, and it was run at the rate of 712,000 gallons per acre per day.

During the week beginning September 15 we tried reapplying the effluent of this bed to it again having pumped it into barrels. Curiously, the second effluents showed more albuminoid ammonia than the first effluent, very like what happened continuously with the Stoddart continuous filter.

Stoddart Continuous Filter. This bed was made of 2 sq. yards area, 4 feet deep of well washed coarse 3-inch hard clinkers, placed on a sloping board foundation, with no walls, except the back one. It was fed with septic sewage from the large septic tank continuously in a rain by an imitation of Stoddart's distributer. Drawings of the bed may be seen by referring to the accompanying scaled sketch of the experimental plant at the disposal farm. The sewage was poured on this at the rate of 5,000,000 gallons per acre per day. The color was rendered black and instead of a fine precipitate as was in affluent, a flocculent one came away with the effluent. The odor about the bed was decidedly offensive. A large growth of low vegetable matter, but not enough to obstruct the bed, soon took possession. The effluent showed more albuminoid ammonia than went into it. A Kjeldahl estimation showed a decrease in the organic nitrogen coming off to that going on, this might possibly be the origin of the increased albuminoid ammonia, the rest having gone off in gases.

In appearance the effluent was certainly changed. It was still putres cible though; but it had lest its tannin color, and after settling showed a pretty clear supernatant fluid. The following table will show what was done in this bed:

	Affluen*.				Effluent.		
1902. a	Free ammon.	Alb. ammon.	Oxygen [.] consumed.	1902.	Free ammon.	Alb. ammon.	Oxygen consumed
Aug. Sth "9th "16th "16th "16th "16th "16th "16th "20th "21st "22nd "23rd "26th "27th "28tb "30th Sept. 2nd "3rd "4th	$\begin{array}{c} 2.450\\ 1.900\\ 2.100\\ 2.200\\ 2.975\\ 2.500\\ 2.875\\ 1.750\\ 2.150\\ 2.650\\ 2.650\\ 2.650\\ 3.000\\ 3.050\\ 3.050\\ 2.450\\ \end{array}$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	28.60 26.60 10.00 34.80 49.00 29.50 36.00 36.00 42.00	Aug. 8th "9th 15th 16th 20th 20th 22nd 22	$\begin{array}{c} 2.000\\ 1.700\\ 2400\\ 2.400\\ 2.275\\ 2.150\\ 2.52\\ 2.150\\ 2.500\\ 2.500\\ 2.500\\ 2.000\\ 2.350\\ 1.550\\ 2.000\\ 2.350\\ 1.550\\ 2.000\\ 2.350\\ 1.550\\ 2.000\\ 2.350\\ 1.550\\ 2.000\\ 2.350\\ 1.550\\ 2.000\\ 2.350\\ 1.550\\ 2.000\\ 2.350\\ 1.550\\ 2.000\\ 2.350\\ 1.550\\ 2.000\\ 2.0$	$\begin{array}{c} .950\\ 1.150\\ 1.350\\ 1.550\\ .925\\ 1.350\\ .900\\ 1.550\\ .900\\ 1.550\\ .900\\ 1.550\\ .925\\ 1.200\\ 1.650\\ 1.625\\ 1.025\\ 1.150\\ \end{array}$	35.60 22.40 13.30 30.40 32.00 27.40 27.80 32.80 46.00
Averages	Run at	1.069 rate of 5	30-52 5,000,000 ga	Averages		1 191	29.12
Town Bed.							
July 15th	1.820	1.260	40.40	July 15th	1.350	. 400	12.80

Stoddard Continuous Filter.

Sand in Neighborhood of Farm.-The hills in the neighborhood of the farm were visted from time to time in order to determine their composition. Test holes were dug in seyeral places. Sand of an excellent quality was found both in the east and the west of the sewage farm. At a very small depth below the surface not mo e than from eighteen to twenty-five inches and usually much less. In several of the holes a thin stratum of sandy clay about half an inch thick was found at about 20 inches bolow the surface of the sand in the hills to the west, but only very few such spots were found in hills to the east of the farm. The sand to the east is decidedly the better. On the surface it seems very fine but ofter a few inches is quite coarse and sharp. This clay stratum might hinder free aeration of the beds if they should be constructed ther .

Many acres more than sufficient to treat twice Berlin's present sewace could be made into beds on these hills.

Tannery Waste. The whole day effluent from the harness leather tannery was examined on five occasions and gave the following average composition per 100,000; Free ammonia, 3.20; albuminoid ammonia, 5.25; oxygen consumed, 122.4. By using an experimental sedimentation by means of two 40 gallon barrels, baffled after the metallurgists' principle, viz., allowing the fluil to enter into a small narrow chamber open at the bottom and leading into a much larger one, the solids rising against the head of water, are more likely to remain at the bottom, from this first barrel the effluent overflowing into a second divided in the same way. The average effluent was as follows in parts per 100,000: Free ammonia, 2.183; albuminoid ammonia, 3.15; oxygen consumed, 111.0, thus showing a reduction of 40 per cent. in the albuminoid substances by a mere sedimentation process allowing the compounds to react on one another, in a simple reten tion space. The oxygen consuming materials did not show the same or any considerable reduction at all, though the comparative colors of affluent and effluent showed a decided reduction in favor of the effluent.

By using alum on the tannin liquor before allowing it to enter the general mixture with 15 grains of alum to each gallon of liquor an almost complete removal of tannins could be made, with besides an additional reduction of albumino'd substances to the extent of 10.12 per cent. Sulphate of iron gave the sume result, but had the disadvantage of producing an objection ible black color in the effluent.

Conclusions Based on Experiments Regarding Berlin's Sewage Disposal Problem.

The average sewage of Berlin shows per 100,000 parts:

Free ammonia.	Albuminoid ammonia.	Oxygen consumed.
2.542	2.017	49.95

The average large septic tank effluent, 60,000 gallons capacity, treating 100,000 gals. per day, shows:

Free ammonia.	Albuminoid ammonia.	Oxygen consumed.
2.223	1.057	32.37

The average small sept	ic tank effluent, 1,8	00 gals. capacity, treating		
1,800 gals. per day, shows:				
	Albuminoid ammonia.			
1.966	.860	27.56		
The average of the bed g	riving best results or	treating 562,000 gals. per		
acre per day shows an effluer				
rice ammonia.	Albuminoid ammonia.	Oxygen consumed.		
1.562	.596	16.43		
A good water should approach the following composition:				
Free ammonia.		Oxygen consumed.		
.003	.005	.115		
A water from peaty soi	ls may contain:			
ree ammonia.	Albuminoid ammonia.	Oxygen consumed.		
č00.	.023	.740		
In a stream diluting 3 ti	mes a sewage effluer	nt containing:		
Free ammania. .015	Albuminoid ammonia. .069	Oxygen consumed. 2.220		
	.009	2.220		
Might be allowed to enter.				
Into a stream diluting	10 times, a sewage o	effluent containing:		
	Alterminoid ammonio			

Free ammonia. Albuminoid ammonia. Oxygen consumed. .05 .23 7.400

Might be allowed to enter.

The gas works effluent (gas being made from petroleum), after removal of the tarry products, may be discharged into the sewers.

The tarry material if allowed to enter would render any bacterial oxidation beds useless. Settling tanks, on the gas premises, baffled at bottom and surface, with a capacity of at least a half day's sewage, would hold this back. A small side tank of the same construction should be present to treat it whilst the larger is being cleaned.

The tenneries yield considerable organic matter that could be held back, to as large an extent as 40 per cent. with tank settling capacity equal to the 24 hours sewage flow.

Schneider's Creek, which receives the effluent, is very small, having a dry weather capacity of probably not more than 1,000,000 gallons a day. There is not enough water to dilute the effluent given by septic tanks and contact beds to the recognized standard of a tolerated drinking water.

Enough sandy land to give intermittent sand filtration to all Berlin's sewage for the present and probably years to come can be got in the immediate vicinity of the farm.

To reach such sand pumping would be required. A reservoir to hold the whole 24 hours sewage could be constructed. In this way all the pumping could be done in a few hours.

Septic tanks as an auxiliary could be used in connection with this intermittent sand filtration to reduce the quantity of organic mater to be treated and to the extent of work done would reduce the quantity of land required to purify the sewage to the required standard.

Were such a sand filtration method adopted, the septic tank capacity for the present sewage flow should not be less than 450,000 gallons.

On such sand beds as could be got at Berlin sand filtration elsewhere gives an effluent equal to the required standard. JOHN A. AMYOT.

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PART II.

CHAIRMAN'S ANNUAL ADDRESS.

By H. E. Vaux, M.D., Toronto.

February 12, 1903.

To the Members of the Provincial Board of Health :

Gentlemen: On reassembling for this, the first session of the year, it is with sincere thankfulness that, as a Board, we can do so in the enjoyment of health and strength.

(The year 1902 has not been marked by any epidemic of formidable character, although certain diseases are, like the poor, "always with us."

As the years roll by and sanitation becomes more of a fixed science, we find that our grasp of the essentials becomes more firm, and consequently results are more apparent and more prompt.

Through the kindness of our Secretary, I am able to lay before you some statistics showing the number of deaths from communicable diseases during the year, based upon a return from 90 per cent. of the population. The total deaths from all causes amount to 25,208, or an average of 12.8 per 1,000. There has been a mortality from tuberculosis of 2,164; diphtheria, 444; typhoid fever, 363; scarlet fever, 282; whooping cough, 144; measles, 106.

On comparing the number of deaths from contagious diseases in 1901 and 1902, we find a slight reduction on the whole. Thus, in tuberculosis there is a decrease of 122; measles, 14; diphtheria, 68; increase in scarlet fever of 73, and whooping cough, 32.

The cool, wet summer has probably much to do with bringing about this improved condition.

Several valuable reports have been laid before us during the year by the Standing Committees, by Dr. Bryce, and by Drs. Oldright and Cassidy, who attended the Tuberculosis Conferences as our delegates to New York and Ottawa.

I do not intend to do more than call your attention to and ask your careful study of what these reports so fully deal with.

Those on tuberculosis naturally claim first place in view of the heavy mortality. In these reports compulsory notification, isolation, disinfection of rooms lately occupied by consumptives, disinfection of sputum, and generally strict attention to well recognized hygienic measures for the prevention of contagion, at the same time care being taken that public antagonism is not aroused by too radical measures being adopted at first, are all fully emphasized. With this disease the old adage, "prevention is better than cure" is increasingly proved to be true. Almost at the moment that positive assurance is given that tuberculosis is curable, reports come to us from emineut authorities that some apparent cures are only temporary, and that a large p oportion of those who fondly hoped that they had conquered their foe have been doomed to disappointment by a return of their malady. While this may be true, yet in our experience, personal hygiene and the hygiene of dwellings, sheps, schools, and factories will be found to exercise a far greater influence on the reduction of mortality from tuberculosis than will result from segregation in sanatoria.

The Smallpox situation has certainly vastly improved since I had the honor of presenting my last Annual Address, and the very radical measures adopted in dealing with the sanitation of lumber camps have already, by their results, shown the wisdom of our Secretary's prompt action.

The Committee on Epidemics has also laid before us a report on necessary satisfary precautions, which it is advisable should be observed in barber **s** ops. This is a matter which has forced its attention on sanitarians, and we are glad to know that the barbers are equally anxious, with ourselves, to close every avenue of danger, so far as their shops are concerned. This being the case, it cannot be very long before the excellent roommendations made by the Committee are carried into effect.

The reports of the Committee on Sewerage are of very great importance, and should be given our special attention, more especially the one dealing with Berlin sewage, taken in conjunction with Dr. Amyot's exhaustive report, which was laid over for consideration until this meeting of our Board.

You will remember that in response to the appeal made by the Mayors of several municipalities, the Government consented to conduct a series of experiments last summer in connection with the Berlin sewage farm, Dr. Amyot being placed in charge. It is now for you to formulate such deductions from the results of his work, as may indicate to Berlin and other similar situated places, some solution of the great difficulties with which they have to contend.

In closing, I would desire to point to some of the results which have been secured by the adoption of better sanitary measures in dealing with sewage in suburban houses, and, in fact, wherever other safe means of disposal cannot be adopted, notably in summer resorts, where it is absolutely essential that the lakes and rivers should not be contaminated.

The report of our Secretary, Dr. Bryce, on this subject in the last Annual Peport of the Board, gives his plan in detail, and I am glad to be able to state that 't appears to work admirably in practice. Thus, at the Royal Hotel at Muskoka last summer, the sewage, even when the hotel was crowded, was disposed of witho 't any contamination of the lakes, and in the City of Brantford at the Pork Packing establishment from 15,000 to 20,000 gallons per diem is successfully disposed of.

All of which is respectfully submitted.

HARRY E. VAUX, Chairman.

1. QUARTERLY REPORT OF THE SECRETARY.

Toronto, April 9, 1902.

Mr. Chairman and Members of the Provincial Board of Health :

Gentlemen: Your Secretary begs to report that the general health of the Province during the past quarter has been more than usually satisfactory for the period of year. It has in a remarkable degree been free from those epidemics of influenza, which have, unfortunately, marked so many of the winters during the past twelve years. The month of March shows a decrease in the Toronto returns, while the comparative mortality for the Province as a whole is seen in the submitted Bulletins for January and February. Here and there outbreaks of diphtheria and scarlatina have been reported ; but, except in one area, that of the Parry Sound district, the deaths, have not been excessive. An unfortunate outbreak of scarlatina occurred in lumber camps in Hagerman and adjoining townships before Christmas, which was spread by men leaving camp for their homes, and carrying disease with them, resulting in numerous cases, and a considerable number of deaths-in one instance a whole family of six being swept away. The district was visited by the Medical Inspector of the Board, Dr. Hodgetts, and the provisions of the Regulations for Unorganized Districts were enforced, the outbreak having since been suppressed. A serious outbreak of diphtheria, resulting in several deaths in a single house, was reported in March from Denbigh Township, in North Frontenac. Fortunately, with the increasing settlements. medical aid is being brought nearer, as the people on the frontier settlements are becoming letter off, and these melancholy accidents are fewer: but they are still sufficiently frequent to make one wish that medica aid were more available for the poorer people in the sparsely settled districts. During the winter similar reports of smallpox outbreaks in families in Unorganized Territories have been received; and the problem of how far the interests of victims of the disease and of the general public should be promoted without the Board's directly undertaking to supply medical aid, has caused your Secretary considerable thought. The supervision directly by the Board of the Northern Districts last year led persons to suppose that they had only to report themselves, and that they then could get medical attention supplied; while the physicians of those districts, naturally thinking it easier to collect fees from the Board than from such patients, have endeavored, in some cases, to have the Board guarantee att ndance in private families. The mild type of the disease, has, however mitigated what under other circumstances would have resulted in serious misfortune, and it is pleasing to relate that no fatal results from neglect of such cases have been reported.

Smallpox. The quarter's reports of the prevalence of smallpox have just been completed, and the following statement sets forth the total cases which have occurred in Jaunary, February and March of 1892:

In January there were 629, in February 707, and in March 302, while the summarized totals since the beginning of 1901 were in all 3,517.

The January report showed that with the start given in the lumbering districts before inspection began in October, a considerable number of cases had broken out in camps, but that they were notably lessening under the strict inspection instituted by your officers, and the general compliance on the part of lumbermen with the regulations requiring them to employ medical men. In all some sixty firms throughout the Province have complied with the regulations, and, except in a few instances, have not only succeeded in preventing the men leaving camp and carrying disease with them, but also in stam; ing out the disease in the camps. Some of the difficulties were :

1. The primary difficulty, apart from the neglect to have medical men engaged for the camps, has been the neglect of the regulations, both by the men and companies, regarding compulsory vaccination. The companies state that the men refused to comply, and they, rather than lose men when employees were scarce, engaged them contrary to law.

2. That this should have occurred is not to be wondered at; but that the companies should have, in many instances, allowed the neglect to continue till one man after another had been infected, is the more remarkable, since, as has happened in several camps, the disease was allowed to burn itself out, over 40 cases in one or two camps having occurred.

3. To the natural dislike of some of the men to vaccination was added the belief that either they would escape, and not lose even a day or two by vaccination, and that if they had it, they probably would not take it badly.

4. Early in March the circular herewith shown was sent to owners, managers. physicians, and many municipalities, and, judging by results, has had a very remarkable effect, since scarcely an instance has yet occurred of men leaving camps which had been infected and carrying the disease out with them, although it would be too much to expect that some outbreaks will not follow their return home.

5. In view, however, of the many miles' distance of some of the camps from the nearest practitioner, and the practical impossibility of his doing justice in some cases to the men in a camp, who are required to pay 50 cents to \$1 per month per man, it will demand some arrangement by which 5th year medical men be allowed to practice under some regular practitioner, as is done in most rai'way construction camps, if the complaints of the men in some cases are to be removed.

6. How thorough the work of supervision in the camps in the Sudbury district has been is seen in the fact that only some six cases have drifted on to the railway and been correlled in the tent hospital : while two of these have been Americans who have escaped undetected the quarantine officers at the "Soo."

The question naturally arises, whence these have come. Of the many hundred: of cases recorded during the past winter. I have endeavored to obtain the sources of the first cases in the different outbreaks, but have not yet succeeded in locating it in some instances. The sources have been fairly equally divided between direct importations by persons returning home from or v siting in Michigan, Minnesota, or Dakota, and returning harvesters from Manitoba. As there does not appear to have been any notable prevalence of the disease in Manitoba, so far as it can be 'learned, it seems most probable, and, indeed, in some cases certain, that returning harvesters were infect d on the trains en route between Manitoba and Chicago. Very few are known to have been exposed en route by the C.P.R.

A reference to the table is of interest, as indicating some of the outbreaks; but those of Stephen. Hay. and Usborne, in South Huron; of East and West Wawanosh, in North Huron; of Bruce, Kincardine, and Greenock Townships, in Bruce County; of the Ekfrid, Lobo, and other cases in Mid-Pesex; of the Dover, Chatham, Raleigh, Harwich, and Tilbury cases, in Kent, and of Puslinch, Flamboro', etc., in Wellington, may all be cited as outbreaks, due directly to the persons so returning through or from the Unitel States; and which, as seen in the table of cases, resulted in some instances in very widespread outbreaks, due to neglect to early diagnose the disease by physicians, or in some cases to even call in a physician when the first case was mild.

The history of a single outbreak in Puslinch, Wellington, is sufficiently illustrative to be worth citing.

At the eastern end of the Province, the cases have grouped themselves about Ottawa, as an early centre, in the Ottawa district, but other sources, especially from the Quebec side, below Ottawa, have not been infrequent. Several outbreaks, too, have been traced into the St. Lawrence counties, from New York State, in returning shantymen, as in Cornwall, Charlottenburg, Lancaster, etc. The central part of the Province, in the territory radiating from Toronto, has been very largely free of the disease ; and from this, doubtless, has arisen much of the immunity of a large urban centre. The disease has this season been essentially one of the rural districts, excepting Ottawa and Chatham, and has scarcely at all appeared in the commercial classes, the travelling portions of which seem to be very particular in view of the constant exposure, to keep well vaccinated.

In view of much that has been learned of the unvaccinated character of the greater part of our communities where smallpox has occurred during the past 15 months, and of the almost universal neglect to carry out the routine requirements of the Vaccination Act by municipalities, the situation imperatively demands that the Act be recast and simplified, with a view to insuring that all children be vaccinated, or at any rate that it be offered them within the first year; that a list of such be recorded, and that later, should they present themselves for entrance into the public schools, that evidence of successful vaccination shall be a sine-qua-non to admission to the advantages of schools maintained by Government grants. The present methods of compulsory vaccination, wherever the disease is present, are admirably suited to meet the emergency.

Many questions have naturally arisen during these outbreaks as to the legal requirements in the matter of onarantine and isolation, and the maintenance of persons when so isolated. The Public Health Act and Regulations are very explicit on most of these points; but it may not be generally appreciated that the turning of the house of the person affected into a municipal hospital for the time being is directly contrary both to good practice and to the smallpox regulations. Law snits regarding the liability for damages by the municipality have already been instituted, and will probably still more frequently occur if the practice is not stopped.

Every outbreak proves incontestably the invariable wisdom of the practice of at once establishing a temporary hospital, tent or building, to receive not alone patients, but suspects separately, where they can be maintained at their own cost, with the invariable results that such means, and such alone, are likely to promptly stamp out the disease.

The disease again seems to be on the decline, and it is hoped that the coming month may see its practical disappearance for the season from the Province.

All of which is respectfully submitted.

P. H. BRYCE.

II. QUARTERLY REPORT OF THE SECRETARY.

September 10th, 1902.

To the Chairman and Members of the Provincial Board of Health :

Gentlemen: Your Secretary takes pleasure, in reporting upon the sanitary condition of the Province during the past quarter, to state that an unusual fre dom from the diseases incident to the summer months has existed, owing, doubtless, to the cool weather and abundant rainfall. The comparative deaths are seen in the attached Bulletins for June and July.

The outbreaks of Smallpox reported at the last meeting of the Board to be declining may be said for the moment to be practically stamped out. During the months of June, July and August cases have existed in the following centres :

Table of Small	pox.
Total	municipalities. Total cases.
June	29 211
July	18 46
August	

The dangers of a reappearance of the disease in the northern lumber camps cannot be overlooked; but such far-reaching steps have been taken to prevent this that it is hoped and expected that few cases will appear this season.

Early in July the lumbermen of the Ottawa district, after conference, signed an agreement upon which none of the signatories would engage for their shanties men not vaccinated. They invited your secretary and the officer of the Quebec Board to meet them at Ottawa, and as a result the Quebec Board undertook to secure the action which had already been taken by your Secretary in sending out copies of the following poster and circulars to all lumbermen, and to all parts where men were engaged for their camps.

NOTICE TO EMPLOYERS OF LABOR AND EMPLOYEES

IN THE

UNORGANIZED DISTRICTS OF THE PROVINCE OF ONTARIO.

Shantymen, Miners and other Employees of Lumbering Camps, Mining Camps, Sawmills, Smelting Works and any other Industry, or any Railway Construction Camp, are hereby notified and cautioned by *The Provincial Board of Health* under the "Act respecting the Sanitary Regulations in Unorganized Territories," Chap. 34, 1 Edward VII., that it is required :--

I. That all owners, managers, agents or foremen, or other person in charge of any lumbering camp, mining camp, or other industry, employ only vaccinated persons, and that all employees are equally required to comply with the Regulations.

II. That all employers of labor shall contract with a medical practitioner for their employees and works, and are authorized to deduct from the pay due any employee a sum not less than 50 cents and not exceeding \$1.00 per month.

III. That an hospital for the care of the sick must be provided by every employer, and that the men are entitled not only to regular treatment therein, but also to have the camps and surroundings inspected regularly and maintained in good sanitary condition.

IV. That failure on the part of any person to comply with any Regulation of the Provincial Board of Health renders him liable to the penalties provided in the Act.

Signed,

P. H. BRYCE, M.D.,

Toronto, June 30th, 1902.

Secretary, Provincial Board of Health.

Extracts from the Regulations for the Sanitary Control of Unorganized Districts.

Reg. 1.—The owner, manager, agent or foreman of any lumbering camp, mining camp, sawmill, smelting works or other industry, or of any railway construction camp located in any district without municipal organization shall, in connection with every such industry or works, be responsible for the proper execution and enforcement of any regulation herein contained, or of any clause of any Health Act governing in any case or circumstance.

Keq. 4.—In connection with every camp, works or dwellings coming under these Regulations, there shall be constructed a building, or, in lieu thereof, a double-walled tent shall be kept on hand with floor or floors and with facilities for heating and ventilation, equal to those provided in the example herein described, for the reception of any employees who may become sick; and should any disease of a contagious nature, as defined by the Public Health Act, break out, the hospital building or tent must be located by the physician in charge of the patient, in a position satisfactory to any health officer authorized to inspect the camp or works.

Reg. 5.—Every camp or the works of any industry coming under these Regulations shall be equipped with a separate building to be used as a washouse or laundry, and attached thereto a room, or, if preferred, a separate building or tent, equipped with a stove and tubs for bath purposes, in a manner satisfactory to any health officer authorized to inspect the camps or works.

Reg. 6.—Every camp or works coming under these Regulations shall be supplied with a building or tent properly constructed and set apart as a kitchen or cook-house, and having a diving-room or eating-room in connection therewith, with proper conveniences for the cleanliness and comfort of employees, and must be satisfactory to the health officer authorized to inspect the camp or works.

Reg. 12.—Employers of labor on works in the districts without municipal organization shall contract with one or more qualified medical practitioners for the medical and sanitary supervision of their employees and works; and are hereby authorized to deduct from the pay due any employee, a sum not less than 50 cents and not to exceed one dollar (\$1.00) per month, which shall be paid the physician; and he shall inspect the camps, dwellings or works at least once a month, and oftener if on the decision of the authorized health officer the health conditions of any camp or works or dwelling require it, and shall supply medical attendance and medicine to the employees.

Req. 13.—The owner, manager, agent or foreman, or other person in charge of any lumbering camp, mining camp, or other industry on which men are employed, shall require a certificate of recent successful vaccination of each employee when he is engaged by the company or its agent; and where evidence is not forthcoming, it shall be their duty, before employing any person, to obtain evidence of such vaccination.

Reg. 14.—Should any suspected communicable disease as defined under the Public Health Act break out in any camp, works or dwelling, the employer or his employee or agent in charge of any camp, works or dwelling, shall immediately send notice to the physician employed, who shall at once notify the Provincial Board of Health, or some officer thereof, of the outbreak. The employer or his employee or agent in charge of any camp, works or dwelling shall, equally with the physician employed, be responsible for any neglect to notify the Provincial Health authorities.

Reg. 16.—Every measure required to be taken by a Local Board of Health or any medical health officer, sanitary inspector or other health officer under the Public Health Act, or any Regulation made thereunder in any organized municipality, must at once be taken by the employer and his employees or agents, or the physician employed by the same, whenever any suspected communicable disease included therein breaks out in any camp, works or dwelling to which these Regulations apply. Any neglect on the part of any employer, manager, foreman or agent or the physician employed, shall be punishable in the manner provided by the Public Health Act.

As many companies are already at work in the woods, the absence of reports of any ontbreaks leads to the belief that the action taken has had very happy results. The ready co-operation in the Ottawa district has made it all the easier for your officers to urge the enforcement of similar methods in the wistern ar as of the Privince. So far as known, those of the great areas between North Bay and the Sault, in the Georgian Bay district, are complying in every way with the spirit of the Act, and Dr. Hodgetts, who has recently spent some time in the district, is much satisfied with the action taken. The steady improvement of the sanitary conditions of the camps goes on, and new camps are being built according to the rules of the Board.

Scar atina. The necessity for special regulations regarding scarlatina would seem to be called for by the appearance at several points of outbreaks of more than the usual virulence. Especially is this true regarding an outbreak in Lindsay in June and July, resulting in 11 deaths: Strong measures have eventually stamped out the disease.

Typhoid fever has appeared in a few sections, but only in isolated instances. The climatic causes, already mentioned, may be credited with this immunity. Especially is this freedom to be noted in those temporary aggregations of people at summer resorts. The steady progress of education in m thods of sewage disposal goes on, and not a few installations of the septic tank, with sub-surface tiles, in hotels and private residences has gone on, and are proving very successful. The work of installing new systems of waterworks and sewerage systems goes on throughout the Province, and laboratory analysis of a number of proposed town supplies have been made, and the formal plans will, in a number of towns, shortly be submitted for approval.

Reports of the special and standing committees will be presented.

All of which is respectfully submitted.

P. H. BRYCE.

Secretary.

III. QUARTERLY REPORT OF THE SECRETARY.

November 26, 1902.

Mr. Chairman and Gentlemen: The public health of Ontario has continued to be good since the last quarterly report of the Board. The prevalence of no disease has been high or unusual. The cold, wet summer has been favorable to a low orevalence of typhoid, as may be seen from the tables of the Monthly Bulletin ; but there have been several limited outbreaks of a severe type, showing the existence of conditions relative to well-pollution, indicative of a great lack still of popular knowledge as to the causes which bring about outbreaks of well typhoid.

The special reports on Sault Ste. Marie, Burk's Falls, Niagara Falls, and Tyrone are all illustrative of the fact that a very notable proportion of the public are ignorant and careless as to the nature and character of the filth which surrounds them in its relations to health, and that Local Boards of Health seem, as at present constituted, strangely ignorant or indifferent as regards the enforcement of laws which lie at the very beginning of good municipal health work. As remarked before, the council which appoints too often either its own members or persons who are incapable of independent and intelligent action, seems in the majority of instances to be incapable of appreciating the economic value of good health measures, and hesitates to exercise in any thorough way those powers for preventing nuisances, and remedying defective structures, as well as privies, etc., which are the alpha and omega of routine public health work.

The ridiculous sums set apart for public health work, as seen in the annual returns, fully illustrate the need for some notable change in the methods; and, as your Secretary has frequently observed, (1) the enlarging of the municipal health unit, (2) permanency of tenure of officers, (3) and adequate com-

pensation for trained officers, such as is provided by the recent legislation of England, are a sucception in the progressive and efficient public health work, whether in Ontario or elsewhere.

Smallpox. The table herewith submitted shows how satisfactory the situation as regards smallpox has been during the quarter :

It is apparent, however, from the last fortnight's reports, that we are to again see during the coming winter a recrudescence of smallpox, which it is to be feared will be of an old-time type as regards severity. In Cleveland during the past five months some 1,079 cases and 186 deaths have occurred up to November 8th, and within a few weeks 20 cases of hemorrhagic type had each proved fatal. Detroit has 50 or more cases in hospital, and others, it is believed, are being hidden. Most of the cases there have been mild. At last report 12 families and 20 cases are in quarantine at Port Huron, while the present week reports a recrudescence at Rochester of what previously proved a virulent type of smallpox—50 cases being reported to be there. Several centres have in the meantime devloped in Ontario, one or two the outcome of cases of last spring, as in Caradoc in Middlesex, Bayham in Elgin, Torbolton Township in Renfrew, and Waterloo Township, while others have been brought in from the Province of Quebec to Ottawa, to South Plantagenet, and Fitzroy Township. Others have been introduced by way of the United States to Toronto, to Anderdon, to Tecumseh in Essex, St. Catharines, etc. So it is apparent that the disease is prevalent across the Border. Ohio has had since June 2,600 cases and 248 deaths, while from October 11 to November S there were 319 cases in 34 deaths in 56 municipalities. Michigan has many cases and a few deaths to November 23, while New York State had at last returns many cases and some deaths. The Board may, therefore, look upon the relative immunity of the Province with much satisfaction, while at the same time exercising all vigilance to maintain the present excellent condition.

The evidence of the past three years has been amply sufficient to show that the Act re vaccination is, so far as regards the appointment annually of public vaccinators by councils or Local Boards of Health, as in the great majority of instances, wholly neglected. The result of this is that year by year there is growing up a population largely unvaccinated, while its aggregation in the cities and towns is with each decade more pronounced. There are to-day some 45 per cent of the population of Ontario in cities, towns, and villages.

Thus the dangers of the spread of smallpox will increase proportionately, and we may expect gradna'lly to develop conditions such as those of the great cities of the United States, which, as Boston, New York, and Philadelphia, were only protected last year against a devastating epidemic by compulsory vaccination of the whole population. Boston nsed some 500,000 vaccine points, and Philadelphia 1,000,000 last year.

Such facts make it evident that some radical change ought to be made whereby the utter indifference of councils to the statute requiring them to have all children vaccinated within four months of birth may be overcome by some more simple and practical scheme.

It has occurred to your Secretary that if the present Act were repealed and an Act of three or four sections were passed providing that

1. The Clerk supply a specially appointed officer, for instance, the Medical Officer, with the names of all children born during the previous six months; and that such officer be required to visit at their homes these children, and offer free vaccination.

2. Should there be a refusal, the duty would then devolve upon the parent of having the child vaccinated, at his expense, before it could be

admitted into any school, public or private; and the vaccination officer would b_{2} further required to visit every school and vaccinate all not already vaccinated.

3. A third clause containing the provisions of the present clause S of the Smallpex Regulations providing for compulsory vaccination whenever a case of smallpex exists in a municipality, would constitute practically the whole Act. There would be, in addition, a single clause providing for regulations being passed arranging the details for carrying out the work of vaccination, and supplying the Provincial Board of Health with certified lists of all children or persons vaccinated during any year.

It will be apparent that by such a method the work would be systematized, while the at times not unreasonable objections to the present absence of system in performing the important compulsory operation would be removed.

By it vaccine could be used at all times when fresh, and the children vaccinated would be supervised by a single officer, who not only would be responsible for his own work, but as a public official would be in a position to obtain and supply information regarding the quality of the lymph used.

Diphtheria: The prevalence of this disease has been small this autumn, due in part to the favorable season, and further to the constant care which is now exercised in case the disease appears. Antitoxin becomes more and more a routine measure of value both in treating the disease and in prophylaxis.

Scarlatina : While nowhere prevalent, has appeared with fata'l results in a few instances.

Anthrax: The appearance of anthrax in several new centres in the Province, in cattle has become a subject of remark; and it is to be regretted that some more systematic means than is being carried out at present is not adopted for investigating the source of first cases.

The seeding of pastures from the overflow of infected streams seems to have been the cause of most first outbreaks; but whence have come several other outbreaks is not so apparent.

The problem is an important one, and in relation to the economic side of public health work, has a high importance.

A number of nuisances, such as knackeries, and slaughter houses, and cattle yards, have called for attention during the quarter, and have been variously dealt with, as will appear in the correspondence.

All of which is respectfully submitted.

P. H. BRYCE,

Secretary.

IV. QUARTERLY REPORT OF THE SECRETARY.

Feb. 11th, 1903.

To the Clairman and Members of the Provincial Board of Health :

Gentlemen: I beg herewith to submit the principal points of interest relating to the work of the Board during the past quarter, as relate to outbreaks of diseases. Since the Board met last on November 27th, the public hea'th has remained fairly good, with two exceptions, viz., the prevalence of smallpox and of scarlatina, both of virulent form, which we, fortunately, for some time hitherto have been free from.

The following synopsis of smallpox, prepared by Dr. Hodgetts, Medical Inspector of the Board, sets forth the situation as regards smallpox. In December the Province, compared with the previous year, showed a smaller number of cases and outbreaks.

Dr. Hodgetts' report of January shows that the same may be said; but, nevertheless, the number of outbreaks, and especially their character, have given your officers cause for anxiety, especially since the outbreak at Galt, having obtained headway, and having been the source of the disease in several other municipalities, the extent to which the disease might extend was for a time in doubt. How extended have been the exposures has been apparent from the statistics just presented.

The activity of the Local Board and its medical officer in Galt, since the character of the outbreak was realized, has been very satisfactory. There was some delay in getting the isolation hospital complete; but the town has now a perman ut and very complete isolation building, which has enabled the Local Board to have all cases removed, and the quarantine raised on the h uses in the town.

More than 5,000 people had been vaccinated in a town of 8,000 during January, and the Local Board are continuing to push the compulsory work with vigor.

The virulence in the type of disease throughout the Province, as your officers have reported from time to time, has been assuming a character not seen since 1900 in the cases from the Orient. Five deaths have occurred in Galt within a fortnight, two in Preston, one in Toronto, and two on St. Joseph's Island, in Jocelyn Township, while the character of those in many of the other outbreaks is of almost normal virulence.

The generally unvacinated character of the younger population of the Province is, unfortunately, too well exemplified in the history of the several outbreaks set forth in the report of Dr. Hodgetts, just presented, and found printed later as a separate report.

The delicate and scientific discrimination of the *contagium vivum* of variola in selecting its victims from the innocent sufferers of parents' neglect it cannot in the light of a century be called ignorance—to have their children vaccinated, affords much food for thought on the part of persons who may have doubted the efficiency of vaccination in protecting against smallpox.

The continued presence, and at times prevalence, of smallpox in the Province for four consecutive years must afford every citizen serious cause for consideration as to how long the expenditures which it entails, quite apart from the loss of health and danger to life of the patient, the serious family loss through the quarantine of thousands of persons for several weeks, the cost of disinfection, the charges for nursing and physicians, and, more than this, the cost to the municipality for physicians, Medical Health Officers and police, are to continue. It will be remembered that it was estimated on the basis of returns made at the end of 1901 from a large percentage of municipalities that some \$450,000 had been expended in that year to suppress smallpox, wholy apart from the loss to individuals or the expenditures by the Government. This was probably equalled in 1902, if we take the total cases as a guide in 1902, the total cases reported having been 2,486.

In the face of such facts it is a remarkable commentary on the inertia of municipal authorities, that, although since 1863 there has been on the Statutes a Vaccination Act, requiring that the municipal councils year by year provide for the vaccination of all children born during the year, so far as your Secretary is aware there is not in the Province a single instance at the date of writing where a municipality has at the beginning of the year appointed a public vaccinator and stations as referred to by the Act for the vaccination of the y ung children; and there is no instance where any attempt has been made to determine by a statistical report how many infants born in any municipality during the past year have been vaccinated.

We have instances, it is true, as where Ottawa, in view of the great commercial loss the city was sustaining, went systematically to work within the autumn of 1901 and vaccinated some 20,000, and promptly stayed the spread of the epidemic; when suddenly some politic alderman moved that the epidemic of vaccination be stayed, and it was stayed forthwith; and we have had Galt boycotted by neighboring towns, with losses to trade mounting up to many thousands of dollars, pressing the compulsory clauses of the Smallpox Regulations, and vaccinating practically the whole population.

We have seen Deseronto, in 1901, when a single case of smallpox appeared, having the whole population vaccinated within a fortnight in the interests of business, and this practically prevented the possibility of other cases, as with numerous exposures from the Indian Reserve recently, but one case is reported as occurring in the town : and we further have had the 'ownship of South Plantagenet, with numerous cases of smallpox, where the municipal council was neglecting the disease, instructed in the end of November, that if they did not at once appoint a Medical Health Officer with compulsory powers to vaccinate during an epidemic, to vaccinate generally, the Provincial Board of Health would be forced to do it at the township's expense.

These are illustrations of what, except in the case of Deseronto, has been dope after smallpox has become prevalent; but, excepting Toronto, Windsor, Walkerville, Sarnia, and perhaps a few other cities, where children must present a certificate of vaccination before they are admitted to the public and separate schools, the very knowledge of the existence of a Public Vaccination Act seems to be unknown, as regards its provisions, by the councillors and Boards of Health of most of our municipalities. It is quite apparent from the illustrations given that the belief and opinion of the great body of the public is behind the medical profession in its attitude as to vaccination; but it is equally plain that the years of freedom, since the great epidemic in Montreal in 1885, when public fear made vaccination general, up to 1899, when the mild epidemic appeared, have allowed in this matter public attention, and with it municipal action, to drift entirely away from their duties under the Vaccination Act. The tendency is a natural one, perhaps ; but, as the facts of the last three years show, no closing of our eyes will remove the dangers, while any country where commerce and travel, with the increase of urban populations, are making such strides, must increasingly be exposed to smallpox, if it allows its young population to grow up unvaccinated.

It would seem apparent, therefore, that however adequate the provisions of the Vaccination Act, which has existed for 40 years, were, when passed, they are not of such a character as to harmonize with the organization of public health work as it has existed for twenty years under the Public Health Act. Under these circumstances it seems desirable that the Act be recast so that its machinery may readily and systematically be put in operation, so that the children born in any year, and those of school age, may be vaccinated by competent medical officers appointed as public vaccinators, acting under clearly defined instructions, whereby at the least inconvenience to the parents, a well-vaccinated community may grow up protected against the inevitable introduction of smallpox along an ever increasing number of avenues. THE REPORT OF THE

which by the position of the Province, as the great pathway of commerce, from the east to the west and northwest, it must more and more continue to develop. It is hoped that a short Bill, which at a later session will be presented by

the Committee on Legislation, will fulfil the requirements indicated.

Scarlatina. The reports from different parts of the Province show that during the past six months this disease has appeared in a number of centres with a virulence which has not for many years been equalled in this Province. For instance:

In 1902.	Cases.	Deaths.
Toronto had	701	88
Ottawa	689	50
Blenheim	4	1
Windsor	30	3
Clinton	10	10
Peterborough	100	15
Mulmur	3	3
Lind ay	31	10
Durham	0	4
Alfred Township	75	6
Puslinch	4	4
Fort William	70	13
Hintonburg	87	7
Erin	2	5

Other places return a number of cases, but with a mortality similar to that of past years. Thus:

	Cases.	Deaths.
Hamilton had	97	3
Ber'in	21	1
Brockville	30	0
Dr 'sden		1
Galt		0
Schreiber	24	3

From these illustrations it appears that in the death rate in the 12 cities, which have made returns the rate was 9 per cent., while in Toronto it was 12.5 per cent., and in Ottawa 7.4 per cent. The malignity of type is illustrated by there having been 21 deaths in 106 cases in Toronto in January, 1903, and 13 in Peterboro', in December in 21 cases. In some of the other places which have made returns it would appear that all the cases have died; but doubtless this must be explained by the fact that the cases occurring have not been re urned.

The increase in virulence is well illustrated by comparing the figures in T ronto with those in the epidemic of 1897, when during the first six months, with the total cases 1.138, there were but 63 deaths, or a rate of 5.5 per cent.

These figures are illustrative of the fact that scarlatina is a disease more remarkable for variation in type than probably any other of the infectious diseases which prevail in temperate climates.

Sydenham, in the 17th century, writing of scarlatina, spoke of it as hardly deserving the name of a disease ; but in the quinquennium, 1861-65, it caused a mortality of 1.11 per 1,000 in London, England. 1902

The frightful mortality caused by scarlet fever in England may be judged from the following statement of deaths from the Registrar-General's Report for 1874:

1855 1856 1857 1859 1859 1860 1862 1863 1864	$\begin{array}{c} 17,814\\ 14,160\\ 14,229\\ 80,317\\ 19,407\\ 9,681\\ 9,077\\ 14,834\\ 30,475\\ 29,700\\ 17,7(0) \end{array}$	1868 1869 1870 Also	24,000 of smallpox 18,567 11,922
--	--	------------------------------	--

The same virulent type apparently prevailed in Ontario at the same time, for the imperfect statistics of the time give the following results :

		8	
1871	630 deaths	$1882\ldots\ldots$	543 deaths
1872	642 deaths	1883	405 deaths
1877	717 deaths	1884	382 deaths

How the disease has on the whole declined in its fatal character during these years is indicated in the table of deaths by years, although a part of the lowe ed death rate must be attributed to better isolation and disinfection.

The broad historical fact, however, exists that it is a disease of remarkable character. Dr. Caiger, in Albutt's System of Medicine, says: "All the records of scarlatinal endemics in the past go to prove that the fatality of the disease in different outbreaks has been subject to enormous variation"; and this opinion is confirmed, up to a certain point, by our own experience at the present day.

This variation in fatality is marked, not only in epidemics widely separated both in time and locality, but also in outbreaks which have been simultaneously prevalent in contiguous localities. The type of the disease may, however, remain constant for many years in a particular locality. Trousseau, too, reports that Bretonneau had never seen a death from scarlet fever in Paris from the year 1799 to 1822; but that in the year 1824, the disease prevaled in a most malignant form in the town and surrounding district. Grave: speaking of the Dublin epidemic in 1802, states that the disease prevailed in a most malignant form, while it was followed with a mild type for 27 years, after which it again became malignant.

We have thus historically illustrated the variations in type of a disease in which the mortality has varied in different outbreaks from 2 to 30 per cent. of cases ; and with the type now confronting us in Toronto and other places, it is apparent that the Province is face to face with a situation more serious than anything that has appeared, in so far as the disease is concerned, within the past 20 years. It may be proper to briefly recall some of the features of the disease.

T e Cause of Scarlatina. It would appear that quite recent investigations have shown that the germ of the disease belongs to the group allied to streptococci, which are noted for the great variations in type as regards virulence, suddenly increasing, and almost as suddenly falling away in virulence. The persistence of the infection when closed up in clothing, in dust, or in dark spaces, is very remarkable, though the virus seems readily destroyed by disinfectants properly used.

A Disease of Children. While it is essentially a disease of childhood, it must be remembered that many grown persons are immunes because of having had it during childhood. It is, however, especially fatal amongst children.

In the London Metropolitan Asylums, Board Hospitals, with 10,000 cases treated annually, the case mortality was, between 1871-1893:

Under 5 years	19,595	18.2 per cent mortality.	
5 to 10 years	28,763	5.6 per cent. mortality.	
10 to 15 years	12,444	2.6 per cent. mortality.	

The Infectiousness and Period of Incubation of the Disease. The disease is infectious within the first twelve hours of its onset to susceptible young children, and the onset is commonly within 4 days after exposure, but in young children is generally not longer than 2 days, while Dr. Caiger, of the Metropolitan Hospitals, states, after seeing thousands of cases annually: "I have never met with an instance where there was any valid reason to believe that the period has been longer than 6 days."

The disease is contagious for a period varying in different cases ; but Dr. Caiger says : "It is a good rule in practice to regard six weeks from the rash as the minimum length of quarantine; and the length of time beyond this will be dependent upon the end of peeling, and upon the cessation of any discharges from the ears, nose, eves, a mucous cavity or wound of any description." An ear discharge may certainly retain infection for a period of six months; and the desquamation, though usually complete in six or eight weeks, may persist and be contagious for a period of three or four months. The average number of days' residence in hospital of the 14,143 cases treated in the Metropolitan (London) hospitals in 1901 was 59.72 days, including deaths, or 62.48 days of all who recovered. The mortality was only 3.82 per cent. Of course, it is apparent that the complications of scarlet fever will be great in proportion to the severity of the disease; and as we have at present to deal with a remarkable increase in the virulence of the disease, it becomes necessary that special attention should be drawn to these special causes of infection. What proportion these complications bear to the total cases, even with a mild type of the disease, is set forth statistically in the last London Record. For instance, of otitis, or discharging ears, there were 13.78 per cent.; albumenurea, 7 per cent.; adentitis, or involvement of glands. 7.2 per cent.: nephritis, or kidney disease, 4 per cent.; diphtheria, 2.7 per cent. Let the virulence of disease be increased, so that instead of 4 per cent. of deaths we have 20 per cent., and it is apparent that complications will be greatly increased. Viewed from the standpoints, 1st, of prevention, 2nd, of lessening the mortality, and 3rd, of reducing the various serious secondary effect of the disease, your Board is to face with a problem even more serious than that of dealing with smallpox for the following reasons:

1st. Because of its generally mild character till within the past year.

2nd. Becau-e the strongest argument, that of injury to business, is not so potent in the case of a disease which is peculiarly one of childhood and youth.

3rd. That we have not any known prophylactic means like vaccination at our command.

4th. That the long period of necessary isolation is very irksome to both patients and householders, and there is a proportionate tendency on the part of parents, and sometimes through them of some physicians, to make light of or even secrete, or misname the disease to prevent notification, isolation and placarding.

5th. That while municipalities will readily arrange for a separate building or hospital for smallpox, many are slow to supply the same for scarlet fever and diphtheria, leaving cases to be treated in their homes, with the common result that all the children in the house take the disease, and should the parent be allowed to go to business, there is the not infrequent danger of the disease being carried outside.

6th. The extreme contagionsness of the disease to susceptible children from its onset, and hence the danger of a mild case with sore throat being the cause, directly or indirectly, of its spread through the schools, and especially amongst the younger children.

The following are a few illustrative instances of outbreaks which have been investigated by your officers or reported by Medical Health Officers. Your Committee on Contagious Diseases, therefore, with a view to coping with the disease, has prepared the appended regulations for the approval of the Board, to the end of having them make an Order-in-Council for the guidance of Local Boards of Health in dealing with outbreaks of scarlatina.

All of which is respectfully submitted.

P. H. BRYCE.

THE REPORT OF THE

REPORT OF THE COMMITTEE OF EPIDEMICS RE COMPULSORY, NOTIFICATION OF CASES OF CONSUMPTION.

Toronto, November 26th, 1902.

To the Chairman and Members of the Provincial Board of Health :

Gentlemen: As you are aware, your committee have on several occasions made representations in favor of the compulsory notification of cases of tubelcules by local physicians to the Medical Health Officer, and these recommendations have also been endorsed by this Board. For instance, the Committee on Epidemics of the Provincial Board of Health of Ontario issued, June 19th, 1900, the following circular containing, among other instructions, a copy of resolutions passed by this Board dealing with the problem of limiting the splead of tuberculoss, and especially of that more prevalent and contagious form of it known as consumption. That circular states:

Moved by Dr. Cassidy, seconded by Dr. Bryce :

1st. That as tuberculesis is a contagious and infectious disease, all inmates of Provincial institutions who are affected with this disease should be isolated in wards set apart for such patients, and not be permitted to associate generally with other inmates.

2nd. That when rooms or wards which have been occupied by consumptive patients become vacant, they should be disinfected according to the methods set forth by the Provincial Board of Health, in the pamphlet issued by it containing rules for checking the spread of contagious disease.

3rd. That an individual affected with tuberculosis and living in a private family should be isolated, as much as possible, from other members of the house old, especial care being taken in the destruction of his expectorations.

4th. That when the room occupied by such a patient becomes vacant, it should be thoroughly disinfected, and, as a matter of prevention, the whole dwelling should be disinfected according to the instructions in the pamphlet regarding disinfection i-sued by the Provincial Board of Health, and that such other precautions be taken as are provided in Section 101 of the Public Health Act (1897).

5th. That the Local Boards of Health be urged to establish rules for the notification of cases of tuberculosis to the Medical Health Officer, or to the Secretary of the Local Board of Health of the municipality.

While your committee are of opinion that the opinions expressed and the advice given on the first **f** ur sections of the above resolutions have been of great use in instructing the public as to the communicable nature of tuberculosis, and the necessity of taking proper precautions to prevent its dissemination, we regret that, up to the present time, none of the Local Boards of Headth in Outavio, with one exception, have undertaken to establish rules for the notification of cases of tuberculosis to the Medical Health Officer.

The exception referred to is the City of Hamilton. Understanding that the Local Board of Health of that city favored the establishment of a by-law providing for the notification of cases of tuberculosis to the Medical Health Officer, a m mber of your committee wrote to Dr. Walter F. Langrill, M. H. O., Hamilton, asking for information on this question. His reply is as follows:

Hamilton, Ont., Nov. 5th, 1902.

Dear Dr. Cassidy:

The by-law is not yet in force, but has been endorsed by the Board of Health, and will be submitted to the City Council at its next meeting. I

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recently read a paper before the Hamilton Medical Society, which includes two-thirds of the practitioners in the city, and they were practically unamimous in favor of compulsory notification. I think the process of enforcement of such a law must be developmental. After registration I would take no action if the thysic an would agree to instruct the patient in proper methods of disposal of sputum, etc., and distribute the literature supplied by the Boud of Health, but, of course, requiring owners of apartments to renovate, and the Board will disinfect after change of address or death. In the report required from physicians this question will be asked, "Do you wish an inspector to visit the premises, and instruct the family regarding prophylaxis; answer Yes or No," the understanding being that if the answer be No that the physician will adout and supervise the necessary measures himself. In this way the better (lass of people will not be antagonized, and, moreover, among this class action by sanitary authorities is not so much needed, since they live in large houses and good sanitary conditions prevail. Physicians also take more pairs in instructing the families in prophylaxis. Among the poor and so-called laboring classes I expect the physicians will look to the Health Department to take action. In such cases the premises will be inspected, instructions given as to preventive measures to be adopted, and literature left. This in-protion will be repeated at regular intervals. After death or removal the apartments will be disinfected and renovation required. I do not anticipate in this city any trouble in the enforcement of the by-law if dis-criminat on be used. The only thing to fear is that physicians will neglect to report, through indifference and carelessness. They will require stirring up from time to time. I expect the same results as in typhoid. Every year I have reminded physicians of their duty in reporting typhoid, and yet, I thin', only about 75 per cent. of cases are reported. I must say I have not felt like prosecu ing. as in the case of diphtheria, scarlet fever or smallpox. I do not by any means look for complete results from this by-law, but I think much good can be accomplished. If you have any objections to such a by-law, or any uggetion to offer, I wuld be pleased, if not too much trouble, for vou to write me. Yours very truly,

WALTER F. LANGRILL,

Medical Health Officer.

In reply to a letter informing Dr. Langrill that the members of the Commit exact Epidemics of the Provincial Board of Health of Ontario had a'r ady, as per circular quoted above, advocated the notification of cases of uberculosis to the M. H. O., and, that, therefore, the passage of the contemp ared by-law in Hamilton would be agree; ble to the Provincial Board of Health, and, furthermore, requesting information as to the probable date of the next metting of the Hamilton Conneil, Dr. Langrill sent the following letter:

Hamilton, Ont., November 17th, 1902.

Dr. J. J. Cassidy, 69 Bloor Street East, Toronto, Ont .:

Duer Do tor.—The next meeting of the City Council will be held on the 24th instant. I am not sure the by-law will pass, but do not know of any strong opposition to it. Thanking you for your kind reference to our action in this matter. I am, Yours very truly,

W. F. LANGRILL.

M. H. O.

At its regular meeting, he'd November 24th, '02, the City Conneil of Hami too, among other business transacted, passed By-law No. 226, respecting the Public Health By-law, a copy of which is herewith submitted:

BY-LAW NO. 226.

Respecting the Public Health By-law.

Wherea: it is expedient to amend the Public Health By-law so far as the same is in force in tais municipality, and By-law No. 46 of this municipality respecting the Public Health, by making further provisions relative to reports of medical practitioners to the Medical Health Officer;

T cuefore the Council of the Corporation of the City of Hamilton enacts as follows:

1. Rule 1 of section 29 of By-law No. 46 of the Revised By-laws of this city is amended by adding at the end of said rule the words, "and every medical practition r practising within this municipality shall report to the Medical Health Officer upon one of such forms, every case of diphtheria, smallpox, scarlet fever, cholera, typhoid fever, measles or other disease dangerous to the public health which he is called upon to visit in the City of Hamilton, such report to be made within twenty four hours after he knows that his patient has such disease, and shall also report to the Medical Health Officer the death or recovery of his ratient from any such disease, within twenty-four hours after such death or recovery.

2. Rule 1 of said section 29 is also amended by adding thereto the following sub-clause:

(a) Every medical practitioner practising within this municipality shall report to the Medical Health Officer upon one of the forms provided by him for the purpose every case of pulmonary tuberchlosis which he attends or is call d upon to visit in the City of Hamilton, such report to be made within one week after he knows that his patient has such disease, and shall also, if the patient dies from such disease, report the death to the Medical Health Officer within twenty-four hours after it takes place.

Passed this 24th day of November, A. D. 1902.

T. BEASLEY,

City Clerk.

JOHN S. HENDRIE,

Mayor.

A copy of Dr. Langrill's letter forwarding the same is herewith submitted:

Hamilton, Ont., November 25, 1902.

P. H. Bryce, Esq., M. D., Secretary Provincial Board of Health, Toronto:

Dear Sir,—Enclosed find copy of by law respecting compulsory notification of pulmonary tuberculosis. Yours truly,

W. F. LANGRILL,

Medical Health Officer.

Your Committee desire to express satisfaction at the action taken by the Hamilton Council in this matter, and their warm appreciation of the efforts of the Local Board of Health of Hamilton and the Medical Health Officer, Dr. Langrill, to secure the passage of this by-law. We hope that, stimu'ated by so go d an example, other Local Boards of Health and Medical Health Officers in Ontarlo will urge on their respective councils a course of a ton in respect to the notification of tuberculosis similar to that which has just been adopted in Hamilton.

All of which is respectfully submitted.

J. J. CASSIDY, WM. OLDRIGHT. P. H. BRYCE.

REPORT OF THE DELEGATE TO THE MEETING OF THE CANADIAN ASSOCIATION FOR THE PREVENTION OF CONSUMPTION AND OTHER FORMS OF TUBERCULOSIS.

September 10, 1902.

To the Members of the Provincial Board of Health:

Gentien.en,—As one of your delegates, appointed at our last quarterly meeting, to attend the annual convention of the Canadian Association for the l revention of Tuberculosis, held at Ottawa, April 17 and 18, 1 beg to report as follows:

By the courtesy of Dr. MacCabe, the sessions of the convention were held in the Normal School building, Elgin street. The officers were:--Honorary President, H's Excellency the Right Hon, the Earl of Minto, G. C. M. G., Governor-General; President, Sir James A. Grant, M. D., K. C. M. G.; Hon, S cretary, Mr. H. B. Small, M. D.; Hon, Treasurer, Mr. J. M. Courtney, C. M. G.

At the first session, April 17th, at 3 p. m., the address of the President, Sir James A. Grant, was delivered. The President reviewed the researches which had been carried on in connection with tuberculosis, and the general public interest which is being aroused on the question. He said:--"A question be ore us. and one which will, doubtless, be carefully considered in the the logy of tuberculosis is, is the tubercle bacillus the chief factor in its projuction? It is a known fact that individuals are immuned to certain doses of the tuber le bacillus, and does the present stage of our knowledge warrant us in requiring the absolute isolation of phthisical patients? What we do require is b tter accommedation for the treatment of the poor, less of the sweating in manufactories, increased vital capacity of air in underground and overground compartments, where operatives are almost lud(led together. In addition, the result of excessive strain of brain and ceneral nerve tissue in our present system of education, the food problem, and scrap diet in school or college life, the excessive use of alcohol, and defective sanitary arrangements, all of which, misdirected, have an undoubted tendency to lower the vital powers of the system, and become potent factors towards the development of tuberculosis."

On motion of Hen. Sydney Fisher, Sir James Grant was elected Chairmon of the Association for the current meeting.

Comu itt es. four in numl er, were appointed to consider and report upon the following and other matters:

Committee No. One.

The permanent organization of and constitution for the Canadian Association.

Committee No. Two.

(1) The relation of governments and municipal bodies to the crusade for the prevention of tuberculosis;

(2) Legislation;

(3) Notification by physicians of the presence of the disease;

(4 Inspection of schools and examination of children;

(5) Inspection or warnings against dangerous meat, milk, etc.

Committee No. Three.

(1) The availability of general hospitals, sanatoria, seaside and other resorts;

(2) The care of public conveyances (steamships, railway carriages, street cars, e.c.), to prevent the spread of the disease.

Committee No. Four.

The collection and publication of useful information for the education of the people twards securing their co-operation with the medical profession.

Committee No. Five.

Resolutions.

Arrangements were made that these committees should meet in different rooms in the Normal School building, transact their business, and report to the convention on the following day.

At the second session, April 17th, S p. m.,

His Excellency the Governor-General of Canada in the chair, a number of the peop'e of Ottawa were present, so that the hall was comfortably filled. His Excellency, who is Honorary President of the Association. addressed the meeting, and was very heartily applauded. He alluded to the fact that the Association was meeting for the first time as an organized body, and hoped that at each succeeding anniversary the President would be able to lay before them not only a greater knowledge of the mysteries of the fell disease they were combating, but increasing proofs from year to year that its ravages were at last giving way before that knowledge of treatment and precautions which we owe to scientific research and discovery. There was no greater leader in t'at research than Dr. Knopf, who was the guest of the Association, and who, in the midst of all the calls of a busy life, had generously found time to come to Ottawa and lay before them the invaluable conclusions he has drawn from the studies, which have already earned him a world-wide reputation. In conclusion, His Excellency said :- "The history of the disease is full of interest. Dr. Knopf, in his celebrated prize essay, quotes Hippocrate, who lived between 460 and 377 B. C., as well acquainted with its d ally results, and traces its rate of misery through the middle ages to the prese t day. And since the days of Hippocrates it has never left the people, and is still with us, the most fatal of all diseases-killing the health of the young, and the athletic, and the beautiful. Ladies and gentlemen, an Association must provide the armor with which we may successfully encounter this dread foe."

Dr. S. A. Knopf, of New York, was then introduced by His Excellency, and deliv^{*}red an address entitled, "The Mission of the Societies for the Prev ntion of Consumption in the Anti-tuberculosis Crusade." Dr. Knopf is a po shed and agreeable speaker, and was heard with great interest. His address was lengthy, and dealt with matters of importance. As it has been published in full by the Association before whom it was delivered, I herewith submit it as part of this report.

A general discussion followed, in which the views expounded by Dr. Knopf were endorsed, and he was cordially thanked for his interesting address

April 18, 10 a. m., the session was allocated to the various committees to discuss and frame reports or resolutions, to be presented at the afternoon and evening sessions of the convention. Your delegate was nominated a member of Committee No. Four, which was appointed to report on the collection and publication of useful information for the education of the people towards securing their co-operation with the medical profession. The chairman of this committee was W. C. Edwards, M. P.; the secretary, Dr. Eby.

At the fourth session, April 18, 2.30 p. m., the various committees repor ed. The report of each committee was taken up clause by clause, discussed and dealt with. After the reports of the committees had been received, it was decided, on motion, that as the subject matter of some of the reports of committees touched somewhat on that of the reports of the other committees, the Executive Committee of the Association would, prior to publication, be empowered to prune the reports, so as to overcome tautology or reluplication in the matters reported on.

The reports of the committees, as adopted by the Association, are herewith submitted.

The officers elected for 1902-3 are:

Hon rary President-His Excellency the Earl of Minto. ,

Honorary Vice-Presidents—Sir Wilfrid Laurier, Lord Strathcona and the Lieutenant-Governors of the Provinces, the Northwest Territories, and the Yukor.

President-Mr. W. C. Edwards, M. D., Rockland, Ont.

Vic Presidents-None at present.

Honorary Treasurer-Mr. J. M. Courtney, C. M. G., Deputy Minister of Finance, Ottawa.

Honorary Secretary-Dr. H. Beaumont-Small, Ottawa.

Executive Council—Appointed by His Excellency the Governor-General—H n. Sydney Fisher, Minister of Agriculture, Ottawa; Hon. Wm. Templeman, Victoria, B. C.; Mr. R. L. Borden, M. P., Halifax, N. S.; Dr. T. G. Roddick, M. P., Montreal; Mr. C. B. Powell, M. P. P., Ottawa; Dr. F. Montizambert, Director of Public Health, Ottawa; Prof. Robertson, Commissioner of Agriculture and Dairying, Ottawa; Dr. R. W. Powell, Ottawa; Mr. Geo. H. Perley, Ottawa. Elected by the Association—Sir Wm. Hingston, M. D., K. C. M G., Montreal; Sir James A. Grant, M. D., K. C. M. G., Ottawa; Mayor Beck, London, Ont.; Dr. E. P. Lachapelle, President of the Provincial Board of Health, Montreal, P. Q.; Dr. P. H. Bryce, Secretary of the Provincial Board of Health, Toronto, Ont.; Dr. Fagan, Secretary Provincial Board of Health, Viceria, B.C.; Dr. E. J. Barrick, Toronto; Dr. McNeill, Charlottetown, P. E. I.; Dr. A. J. Richer, Montreal; Dr. G. Bell, Winnipeg.

A vote of thanks to the retiring President, Sir Jas. A. Grant, was suitably acknowledged.

A vote of thanks to Dr. McCabe and the Government of Ontario for their courtesy in granting the use of the Normal School building for the purposes of the convention was passed.

It was decided that a report of the proceedings of the convention would be published. Also that Dr. Knopf's address and a memoir, entitled, "Tuberculusis, a Social and Medical Disease," by Arthur J. Richer, M. D., should be pu'l shed and distributed by the Canadian Association for the Prevention of Tuby reulosis.

It was also decided that the head office of the Association should be at Ot awa.

The convention then adjourned.

All of which is respectfully submitted.

J. J. CASSIDY.

THE REPORT OF THE

REPORT ON THE MEETING OF THE AMERICAN CONGRESS OF TUBERCULOSIS, HELD NEW YORK, JUNE, 1902.

Toronto,: September 11th, 1902.

To the Chairman and Members of the Provincial Board of Health:

Gentlemen,—Your delegate proceeded to New York in time for the opening of the Congress, which took place on Monday morning, with the object of allowing members to leave in time for the meetings of other societies. The sessions lasted for three days, 2nd to 4th June inclusive, and were held at the Hotel Majestic. Addresses of welcome were made by Clark Bell, M. D., and A. W. Bell, M. D., Secretary and President respectively of the Congress, and replies were made by the representatives of States and nationalities.

The discussions ranged themselves, with certain digressions, on three groups. The first embraced the social, municipal and state aspects of tuberculosis, including preventive legislation, and the aid to be expected from the various sources in the cure and prevention of tuberculous diseases. Nearly all were in favor of compulsory notification, the minority urging that this course might prevent some afflicted ones from seeking medical aid. It was pointed out that there would be less panic and disturbance of social and business relations from certain knowledge and care than from an uncertain danger being left to take care of itself. At the same time the necessity of avoiding needless alarm in the public mind, and in the attitude of people towards those affected by tuberculosis, was dwelt upon. The various means for educating the public to act in concert with sanitary authorities were also considered. These are familiar to you, and need not be taken up here.

The second symposium dwelt with the treatment of cases, both individually and collectively, as in sanatoria. Much interest was taken in the Stratton Act for facilitating the establishment of these, as also in the work at present going on in Muskoka and elsewhere. Three States of the Union were reported as having taken the further step of establishing State sanatoria for the treatment of tuberculosis.

On the third day the attention of the Congress was taken up largely with the question of the intercommunicability of bovine and human tuberculosis. Dr. J. J. Kinyoun and others adduced evidence of cases of tuberoulosis in children being caused by milk and other animal products. A very important contribution was that of Dr. Salmon, head of the Bureau of Animal Industries at Washington, who, in common with all prominent men who took part in the discussion, thought that the opinions of Prof. Koch, last year, were premature, and not substantiated; and that we ought not to relax anything of our vigilance in regard to animal tuberculosis.

A pleasing episode of this Congress was the passing of a resolution congratulating our King and the British nation upon the conclusion of the Boer war, for which resolution the thanks of the Canadians were briefly returned.

An interesting feature of the meeting was the "Museum" and exhibit of the American Congress of Tuberculosis, containing plates, pathological specimens, models, materia and armamentaria medica. An illustrated catalogue of the nuseum of some 42 pages is presented herewith.

To a large number of the delegates it was a matter of surprise and regret that many of the foremost practitioners were absent from the meeting of the Congress, and it transpired that some men who were guilty of unprofessional conduct, in advertising and other similar practices, were using and contaminating the Congress to serve their own ends.

A pamphlet by one of these men is submitted with this report. You will find that it contains such phrases as this:—"Still the cry of the medical profession is not only there is no cure, but 'there shall be no cure' (of tuber-

culosis)." It then proceeds to give a number of testimonials to the skill of the author and the efficacy of his "germicidal treatment" and "outfit and he prices thereof." It is backed up by a coat of arms on the cover, a dove with an olive branch on a scroll, surmounting a black shield, on which are two horns rampant supporting a dagger, pointing upwards towards the dove. At the lowest depth of the shield appears the name of the author, and beneath all the motto, "In fide et a bello fortis." We fear the fides is not bona fides, and you will find the bellum coming in later.

This pamphlet was the basis of a resolution passed by the Congress, to the effect that the author resign his membership, or that his communication be rejected by the Committee on Publications. Against the mover of this resolution, Dr. Paschal, of San Antonio, Texas, an action for libel was instituted, on what grounds it is hard to imagine. The name of the wonderful scientist concerned is omitted from this report, as it is not necessary to give him any greater notoriety, such as he would desire, by being mentioned in our records.

The condition of affairs described here called for a reorganization and rehabilitation, which was effected by the election of the following gentlemen as officers of the Society:

Honorary President-Dr. Henry D. Holton, Brattleboro, Vt.

President-Dr. Daniel Lewis, New York, N. Y.

First Vice-President-Dr. J. A. Egan, Illinois.

Second Vice-President-Dr. Frank Paschal, San Antonio, Texas.

Third Vice-President-Dr. E. J. Barrick, Toronto, Canada.

Fourth Vice-President-Dr. I. A. Watson, Concord, N. H.

Fifth Vice-President-Dr. Romola, Guatemala.

Secretary-Dr. George Brown, Atlanta, Ga.

Treasurer-Dr. P. H. Bryce, Toronto, Canada.

The suggestion to hold a World's Congress of Tuberculosis in St. Louis in 1904 met with approval, and steps are being taken to advertise this fact and secure the aid of medical journals, societies, physicians, and scientists in making this movement a grand success.

Your delegate expressed regret, which he still feels, at the absence from one of the active positions of Clark Bell, LL, D., who has done so much to originate the Association; but it was thought by the movers in the reorganization that a complete change was necessary to restore the professional prestige of the Association.

Dr. Brown, the new Secretary, has written to Dr. Barrick, Dr. Bryce, the writer, and others, asking that we at once put in operation all means possible to take this World's Congress a success in advancing the interests of mankind. It is suggested that the Board should take the matter up with this end in view, by the appointment of a committee, and such other procedure as to you may seem fit.

All which is respectfully submitted.

WM. OLDRIGHT.

REPORT OF THE COMMITTEE ON EPIDEMICS ON HYGIENIC RULES FOR BARBERS AND HAIR-DRESSERS.

To the Chairman and Members of the Provincial Board of Health:

Gentlemen,—In view of the fact that some common contagious diseases, as well as certain diseases of the skin and scalp, are sometimes propagated by the instruments and hands of barbers and hair-dressers, and that the well-recognized laws of hygiene should extend to the barber business, your Committee on Epidemics. having considered the matter, desires to report as follows:

In providing for the introduction of modern hygienic rules into the barber business, two principal methods may be advised.

The first would be by legal euactment (Provincial), obliging all the moster barbers in Ontario to pass an examination before a properly qualified Board, to obtain a license, and to subscribe to the hygienic regulations published or to be published by this Board, which relate to the business of barbering. A flagrant violation of these regulations would entail a revocation of license. Provincial inspectors would probably be required to see to the enforcement of these regulations.

A second method would be:—To have no formal legal enactment put in force in this Province, but for this Board to issue, from time to time, circulurs addressed to the barbers, showing them what is expected of them in the matter of hygiene, and also informing them of the most sanitary methods of carrying on the barbers' trade.

In reference to the first mentioned method, it may be said that Michigan has, perhaps, the best legislation on this subject, and it has been found productive of much good. In that State barbers must be examined before a board of experts, and receive a license before they can ply their trade. The applicant must answer such questions as "What kind of a lather brush do you use?" "What do you use for washing lather from your customer's face?" "How do you apply powder to his face?" etc.

Barbers are also required to explain how they keep their razors, how they clean shears, combs and brushes, how they stop the flow of blood from cuts, and what are good sample remedies for eruptions and skin diseases caused by close shaving. The Michigan law requires, also, that a barber shall be a citizen of the United States. He must tell how long he has been a barber, and how he acquired his training; whether under a regular bar er or "just picked it up."

A State Barbers' Association is in operation in Delaware. It requires all barbers doing business in that State to register. All barbers who have not been in the business for two years are obliged, if desirous of working at the trade, to pass an examination, and, if they pass, certificates are given. Those who fail to pass have to rank as apprentices until they are able to qualify.

Boston. Mass., has issued a short set of regulations for barber shops, applying to that city. It has been adopted by the Boston City Health Department, and places the barbers of that city under the control of the Civic Health Department in matters of hygiene. They quote:

Regulation for Barber Shops.

The place of business, with all the furniture, shall be kept, at all times, in a cleanly condition. Mugs, shaving brushes, and razors shall be sterilized by immersion in boiling water, after every separate use thereof.

A separate, clean towel shall be used for each person. Alum or other material used to stop the flow of blood shall be so used only in powdered form, and applied on a towel. The use of powder puffs is prohibited.

The use of sponges is prohibited.

Every barber shop shall be provided with running hot and cold water.

No person shall be allowed to use any barber shop as a dormitory.

Every barber shall cleanse his hands thoroughly immediately after serving each customer.

Attest, C. E. DAVIS, Jr., Secretary. Writing of the effect produced by these regulations in Boston. Dr. S. H. Durgin, Chairman of the Health Department, Boston, says: "We have gained great headway by these regulations, which have already closed up a large percentage of the shops."

In other States, viz., Indiana, Pennsylvania, California, no special laws have been passed, regulating the hygiene of the barbers' trade; but circulars have been issued by the Boards of Health of these States giving sanitary advice to barbers and hair-dressers, and calling the attention of the public to the conditions in the exercise of the barbers' trade, which are liable to produce disease.

The Provincial Board of Health of the Province of Quebec has issued a circular containing a set of regulations for barbers, which has been imitated by the State Board of Health of Indiana, and possibly by others. It has been favorably noticed, recently, in La Presse Medicale, Paris.

Having read the circular published by the Provincial Board of Health of Quebec, your committee desires to express its approval of the same, and will avail itself of these precepts in framing its own system of rules.

Regulatious for Barbers.

1. A barber should be clean and neat in his person and dress; should use the bath regularly, and be particular in maintaining a healthful condition of the mouth and hands.

2. No person suffering from any disease of the skin, scalp, or hair should act as a barber : nor should anyone suffering from consumption or any disease commonly known as contagious serve in this capacity.

3. If diphtheria, scarlet fever, smallpox, measles, or any other contagious disease should occur in the family of a barber, or among his friends or acquaintances, he should not nurse or visit the patients, nor in any way come in contact with them ; and if the disease should appear in his own dwelling or boarding-house, he should temporarily change his residence.

Persons suffering from any disease of the skin, scalp, or hair, or from consumption, or convalescent, that is, persons who have recently recovered, from smallpox, scarlet fever, diphtheria, or other contagious disease, thould not visit any barber shop or parlor, but should be attended by the barber at their own homes. All instruments used on such patients should be carefully disinfected after such use.

5. The floor of a barber shop should be made of hardwood, or, if not so made, should be covered with sound oilcloth or other impermeable floor covering. The floor of the shop should be washed frequently with hot water and soap. As a matter of ordinary routine, it should be mopped every morning with a damp woollen cloth. Sweeping is not recommended. If the floor is to be swept, it should first be sprinkled with dampened sawdust or wet tea leaves, and then swept, in order that as little dust as possible may be raised.

6. The shop or parlor should be well aired before the day's work is begun, and it should also be ventilated during the day. It must never be used as a dormitory.

7. Every barber shop should be provided, if possible, with running hot and cold water.

S. The shop should be kept very clean, as should also all of the chairs, razors, clippers, brushes, towels, and all other articles or instruments used in the business. Towels should be carefully washed, and then rinsed to remove the odor of soap.

9. Customers should be encouraged to use, or have used on them, their own instruments (razors, scaps, brushes, etc.), and in the case of persons suf-

fering from diseases of the skin, scalp or hair, this practice should be compulsory. For operations on a dead body, the barber should have instruments used only for that purpose.

Disinfection of Instruments.

Razors and clippers may be disinfected by boiling for five or ten minutes in soapy water, or in water containing a little biearbonate of sodium or carbonate of potassium. For this purpose they should be laid in an enamelled or galvanized metal dish, completely covered by the water. After boiling they may be cooled in cold water and duly dried.

Steel instruments boiled in solutions of the kinds mentioned above are not liable to rust.

Hair brushes, combs and strops may be disinfected by placing them in a small closet or case, which closes hermetically (is air-tight), in which is kept a saucer constantly filled with a solution of formalin, about one ounce to each cubic foot of space. It is recommended that all instruments be laid on racks or trays in this closet after using. If this is done every customer can have thoroughly disinfected instruments for use in his case. Brushes and combs will need cleaning with bran or clay in hot water at intervals. Shaving brushes may be entirely dispensed with, and a puff of cotton used, which can be destroyed after one using. A shaving brush may be disinfected by being placed in boiling water for five minutes before using. Before passing from one customer to another, the barber or hair-dresser should thoroughly wash his hands. He should use warm water with carbolic soap, or one containing meccuric chloride. The powder puff should be replaced by a powder blower, or by a ball of wadding. The wadding should be thrown away after one using.

A stick of alum should never be used to stop the flow of blood. A small piece of alum after being used on a customer should be thrown away. Some prefer burnt alum, applied on cotton, which can be thrown away after one using.

Sponges should never be used in a barber's work, because they cannot be cleansed as a towel may be. In place of sponges, towels or balls of absorbent cotton should be used.

Toilet wax should not be used indiscriminately; each person should have his own wax.

The hair-dresser should remove vaseline from the vessel containing it with a spatula or spoon, and not by inserting his possibly contaminated fingers into the vessel.

Only strictly clean linen towels, wrappers, etc., should be used for each e stomer. If a fiesh laundried wrapper cannot be supplied to each custemer, a clean towel should be used in place of the wrapper.

Your Committee does not wish to express a positive opinion as to the respective merits of a Provincial or municipal legal enactment, obliging barbers to qualify by examination and obtain a license to carry on their trade, or, on the other hand, a circular requesting barbers and hair-dressers to conform as much as nossible to such rules and regulations as this Board may see fit to adopt and publish. In favor of the former plan it may be said, that while some harbers are of themselves disposed to do what is required, others are careless in their methods, and their business would appear to demand careful supervision. A system of licenses, based on a Provincial law, with the probability of the revocation of a license for infraction of the regulations established by this Board would certainly tend to promote the observance of these regulations. On the other hand, it would be quite satisfactory if the barbers of Ontario were to form a Provincial Association among themselves, similar to the association of that name which has been established in the Province of Quebec. Such an association once established could easily be placed in touch with this Board, and be induced to adopt such hygienic regulations as this Board would think proper to prescribe. As the initial step would then be made by the barbers themselves, it would probably be more successful in securing the adoption of hygienic measures by the barbers, than the passing of a law regulating the barber business made at the request of this Board.

All of which is respectfully submitted.

J. J. CASSIDY. P. H. BRYCE. W. H. OLDRIGHT.

REPORT OF INVESTIGATIONS INTO OUTBREAKS OF DISEASE.

By C. A. Hodgetts, M.D., Medical Inspector Provincial Board of Health.

Toronto, Feb. 11th, 1903.

Gentlemen: During the quarter ending December 31st, 1902, I have investigated two outbreaks of enteric fever, viz., those at Niagara Falls and at Enniskillen, a village in the Township of Cartwright; an outbreak of scarlet fever in the Town of Peterboro; an outbreak of impetigo and scables in the Albert College, Belleville, lesides visiting 22 municipalities for either purposes of diagnosing smallpox or assisting the Local Boards of Health to put in operation the provisions of the Health Act in so far as it relates to this disease.

As scarlet of a severe type is now prevalent, I might refer to the difficulties experienced in the Town of Peterboro', where the disease evidently began with very mild cases. Even the medical men were in doubt, for on August 6th, 1902, a death was registered of a child, aged 10 years, the cause being given as "supposed scarlet fever."

It was not, however, until December 6th, three months later, that the first death was reported as being due to scarlet fever, and in rapid succession 14 others were reported—one child, aged 51-2 years, being ill only 36 hours. With public funerals being permitted, it can well be understood how the disease spread; additional dangers were laxity in quarantine, and the permitting of cases to remain in their own houses, instead of an early removal to a hospital, with efficient disinfection of the premises by the local authorities, instead of leaving it to the medical attendant.

In regard to the ontbreak of impetigo and scabies at Albert College, it was found that the diseases had been brought to the institution by two of the male pupils, and spread to both resident and day scholars, chiefly, I believe, by the use of a common towel in the lavatory. The affected pupils were sent to the hospital, the school closed, and every effort taken by the authorities of the college to place the institution in a sanitary condition.

The cases of enteric fever reported at Niagara Falls were found to have occurred in persons working on the American side, all of whom used the water of the American town; and further, it was found that there had been a large number of cases of the disease on that side of the Boundary, owing chiefly. I believe, to the impure water supplied to the town by both systems of waterworks. I collected samples of water on both sides of the river, and they we e subsequently examined by Dr. Amyot, with the result that the specimens taken on the American side showed the presence of bacc. coli. com.

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The cases of enteric fever which happened in the Village of Enniskillen were no doubt due to pollution of the water supply in each instance. Reports have already been handed in on both of these outbreaks.

Smallpox has been reported from 42 centres during the month of January, viz.: 4 cities, 12 towns and villages, and 26 townships, a total of 42 municipalities.

There have been 196 cases, with 10 deaths, the latter occurring in the following places : Galt. 5; Preston, 2; Jocelyn Township, 2; Toronto, 1.

In eight cases the origin of infection has been found to be outside the Province, 5 being traced to the State of Michigan, and one each to New York City, Mirnesota, and Dakota, while six of the municipalities trace the infection to the Galt cases, at a time previous to the putting on of quarantine in that town.

The chief centre for the month was Galt, which reported 65 cases, with 5 deaths. Here, as in many other places in the Province, the first cases were thought to be chickenpox, and there had been a large number of exposures before the true character of the infection was recognized. A notable feature of this outbreak is the severity of type, fully one-half of the cases being either confluent or semi-confluent, and the first patient who died suffered from the haemorrhagic form.

I saw 30 of the Galt cases, and, as showing the effects of vaccination upon the disease, found that none of these persons at the time of their exposure had either been vaccinated or revaccinated within seven years ; some S had been vaccinated after exposure :

17 never vaccinated.

4 vaccinated in infancy : ages, 36, 38, 46, 54 ; showing 1 sear each.

1 vaccinated in infancy; no scar evidence.

6 vaccinated 2nd or 3rd day after exposure.

1 vace nated 31d day.

1 vaccinated 3rd day; unsuccessful.

The 17 vaccinated were classed as follows : 3 confluent, 5 semi-confluent, 9 discrete.

The 4 vaccinated 30 to 40 years ago with only one sear : 1 confluent, 2 semi-confluent, 1 discrete.

The 6 vaccinated after exposure, and on whom there was a more or less satisfactory evidence of the reaction of the vaccinia : 3 semi-confluent, 3 discrete.

The 1 showing no reaction of vaccinia had the disease in the confluent form.

It was particularly noticeable in regard to the six persons vaccinated after expose re that desquamation was hastened, and the rash was very scanty upon the extremities.

The five persons who died were all unvaccinated.

As she wing the immunity conferred by even one successful vaccination, I would quote briefly the following examples which have come under my notice during the past month:

At Galt, Mrs. H., act. 32: vaccinated 17 years ago, as evidenced by two good scars, was the only one of four in a house who did not contract the di-ease. At Galt, Mr. L., aet. 57; vaccinated in childhood; 2 scars; the only one of four.

At Galt. Mr. K., aet. 43; vaccinated in childhood; 1 scar; the only one of 9 to escape the disease.

At Wilmot Township, Mrs. S., act. 45; vaccinated 43 years ago; 1 scar; was the only one of a household of 9 who was unaffected.

There are two regrettable facts incident to the present outbreak of smallpox.

The first is the persistent manner in which medical men generally continue to diagnose the disease as chickenpox, and thus large numbers of persons become exposed to a disease which otherwise they would avoid.

The second fact, and one for which many of our towns are paying dearly, is the ceneral neglect of vaccination, both primary and secondary, and the great difficulty experienced by the Local Boards of Health in the enforcement of what should be a readily accepted operation.

At first it would seem somewhat difficult to account for these unfortunate conditions; but experience teaches that the medical practitioner often, and the Medical Health Officer in most instances, is unwilling to bear the onus of responsibility of pronouncing upon many of the mild cases which occur in the initial stages of an outbreak, and which present few, if any, of the symptoms so usual, with what is generally taught, as typical smallpox. To do so is to antagonize a portion of the community, and bring himself into opposition with many who are just waiting an opportunity; if he is M.H.O. he is assuming a responsibility both for himself and the municipality, so both give the patient "the benefit of the doubt," a doubt too often born of ignorance and inexperience as regards smallpox and its differential diagnosis. Thus it is that the municipality suffers, and no local physician or Medical Health Officer assumes responsibility; as a consequence matters progress, and ultimately this Board is appealed to, its officer is expected by the local authorities and the medical men to assume all responsibility for errors in diagnosis, while they assume the role of injured innocence, or, worse still, of covert opposition.

If it is considered for a moment what the average township and village pays a M.H.O. for his services, and at the same time what they expect from him, even for extra services during an outbreak of any infectious disease, not to speak of the many calls made upon him from week to week, it cannot be wondered at that he should hesitate to assume such a responsible role as just referred to.

What, then, is the practical solution of this difficulty which is increasing instead of decreasing? There must be some union of municipalities—a union which can after sufficient compensation to an officer who shall devote his whole time to the duties of the office, in the same manner that some of the cities of the Province now engage their M.H.O.; and for this purpose the several municipalities of a county or portion of a county may be united. With the increased remuneration must come that very essential requirement on the part of the M.H.O.—a standard of qualification, and this Board should in the public interest institute some system whereby the necessary information and instruction can be secured, and the Province thus be supplied with trained Medical Officers of Health.

The failure on the part of the M.H.O. to do anything more than merely fill the position from year to year has in a large measure resulted in the general public ignoring even the wise provisions of the Vaccination Act. Hence it is found that in many of the rural districts infant vaccination is seldom if ever resorted to, and only in times of outbreaks have the public availed themselves of this protective measure.

Report of Smallpox Cases for the Month of January, 1903. Cities (4). 5 Windsor.... Brantford.... T St. Thomas.... IO Toronto (I death)..... 20 Towns and Villages (12). Pembroke..... Amherstburg..... 2 3 Petrolea..... Burlington..... I Deseronto..... Preston (2 deaths)..... Т 4 Sault Ste. Marie..... Drumbo..... Ŧ T Vankleek Hill..... Galt (5 deaths)..... 65 Т Hawkesbury..... Midland..... So Townships (26). Anderdon..... McNab..... 3 Medonte..... Bayham..... T Moore.... 10 Beverlev..... Portland..... Blenheim.... T Plantagenet, S.... Cambridge.... 2 3 Camden..... Dumfries, N.... Rawdon..... I Stamford..... 3 Tay..... Eldon..... ī 0 Emo.... 1 Thurlow..... 2 Finch. Hawkesbury, West..... Himsworth, N.... 0 Tinv..... Indian Reserve (Deseronto) 13 1 87 Hinchinbrook..... _4 Jocelyn (2 deaths)..... 0 196 Levant.... Report of Smallpox Cases for the Quarter Ending Dec. 31st. 1902. Cities (3). Ottawa..... Windsor.... 2 Toronto.... 16 Towns and Villages (8). Copper Cliff..... Streetsville..... T I Deseronto..... Thamesville.. T Pembroke..... 10 Rockland...... 2 Waterloo..... I 18 Sparta..... T Townships (25). Plantagenet, South 17 Anderdon..... Puslinch..... ī Bayham..... Sheffield..... 2 Т Stamford..... Caledonia.... T Caradoc..... Tecumseh..... Dorchester..... 13 Torbolton..... 12 Toronto..... Fitzroy..... 7 9 Jocelyn..... Wainfleet..... T 3 Metcalfe..... Westmeath..... 2 τ Muloch..... Widdifield..... 1 Norman..... Wylie..... 2 ĩ Orillia, South..... Oxford, North..... 132 Oxford, West....

Camps (1).

Collins..... T

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REPORT ON ENTERIC FEVER AT NIAGARA FALLS.

By C. A. Hodgetts, M.D., Medical Inspector.

Nov. 11th, 1902.

Dr. P. H. Bryce, Secretary Provincial Board of Health :

Dear Sir,-A report having been received that there had been a number of cases of Enteric Fever in the Town of Niagara Falls, I proceeded there under instruction on October 8th ult.

From personal interviews with the medical practitioners, I learned that there had been a few cases during the past few months, many of a mild type, and most of these were supposed to have contracted the disease on the Amer can side of the river. On the whole, the outbreak had been nothing like that of the previous year. At the date of my visit there were only three cases of fever, all in the practice of Dr. Killem. One contracted the disease on the American side, where he worked ; the other two were residents of the town.

In company with Dr. McGaerry, Jr., I visited the pumping station of the town water supply, where I found that the water was more turbid than usual, owing to the construction works now in progress further up the river, and the cofferdam enabled me to inspect the river bed above the intake, where I found a private sewer was being extended out into deep water by a series of iron pipes, whereby there would be direct contamination of the town's water supply.

I also found that the closets on the river's edge were kept in a very unsatisfactory condition.

On the Canadian side I took three samples (C. I., C. II., C. III.), as follows :

C I. Power-house well: temperature, 60° F.

C II. Intake: temperature, 57.5° F.

C III. Town tap: temperature, 61° F.

Proceeding to the American side, 1 found that the city receives its water supply from two sources : the city waterworks and the Power Company, the latter being the new source of supply for the upper portion of the city, and takes the water direct from the river, whilst the former takes the water from the old canal, the power-house being close to the Falls. Three samples were taken on that side of the river (U.S. I., U.S. II., U.S. III.), as follows:

U.S. I. Tap at pumping station, city waterworks: temperature, 60° F.

U.S. II. A fountain near power-house: stemperature, 50° F.

U.S. III. Town tap (after water had been aerated and filtered, as supplied to consumer): temperature, 60° F.

I have much pleasure in appending Dr. John Amyot's Report on the examination of the six specimens, from which will be seen the general difference between the Canadian and American waters ; the pollution by the Buffalo sewage of the American waters being quite evident.

Respectfully submitted.

CHAS. A. HODGETTS, M.D.,

Inspector.

Collected. ** 10, 1902. * Analysis. ** 10, 1902.							
Test Numbers.	Designation.	Turbidity.	Çolor.	Colon bacillia.	Chlorine.		
2,934	" C I."	None.	None.	None.	350	None.	10
2,935	" C II."	None.	None.	None.	580	None.	10
2,936	"C3"	None.	None.	None.	210	None.	9
2,937	" U.S.I."	None.	None.	None.	10,000	Present 200	10
2,938	" U.S.II."	None.	None.	None.	90,000	None.	11
2,939	" U.S.III.'	None.	None.	None.	2,000	Present 128	10

Received from Dr. Hodgetts personally, 6 bottles of water, in ice.

Recd..... Oct. 11, 1902. Collected. "10, 1902. Analysis. "10, 1902.

JOHN A. AMYOT.

REPORT ON ENTERIC FEVER IN THE VILLAGE OF BURK'S FALLS.

By. C. A. Hodgetts, M.D., Medical Inspector.

Dr. P. H. Bryce, Esq., Secretary Provincial Board of Health :

Toronto, October 24, 1902.

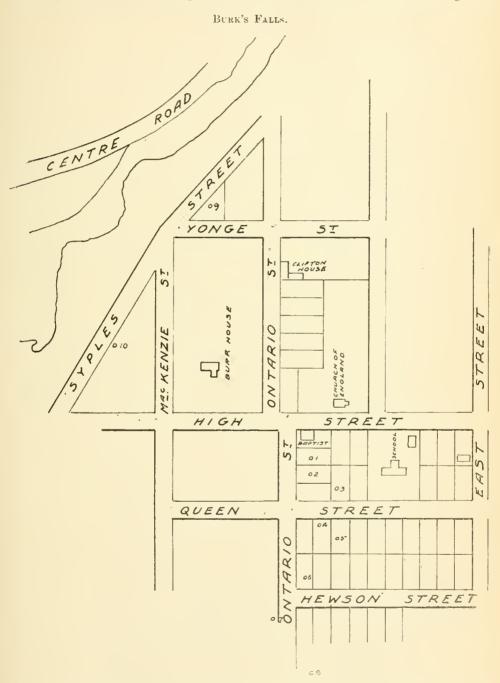
Dear Sir.—The appearance of several cases of enteric fever in the village, which has a population of about 600, caused the local physicians and the Local Board of Health to transmit to the laboratory several samples of drinking water obtained from various wells of the village, upon which the inhabitants depend for their supply.

The village is situated on the south bank of the Magnetawan River, from which it rises rather precipitously, the highest point being on the line of High street, and about 350 yards distant.

From this ridge the land slopes in a southerly direction towards Hewson and Ontario streets, and in this lower ground are found the wells which chiefly supply the villagers with water.

On this sloping land, and within the area of two blocks, bounded by High, Ontario, Hewson and East streets, there reside nearly 150 people. There are in the district 32 cesspools, or closets, at least 3 pig-pens and the same number of cow sheds, while there are only six wells, one of which, No. 4, may be called "the town pump," as there are householders who contribute yearly for its being kept in repair, and from it the school on Queen street is supplied.

I cannot pass on further to consider the outbreak without first referring to the cesspools. That such an accumulation of filthy pits should be permitted either by the individual owners or the village Board of Health seems almost inc edible—one, in the cellar of a house in which fever existed, was nearly full to the top of the seat—many others were equally as bad, and the odor was unbearable. In all of these cases the surface of the ground around



was saturated with the overflow. In two instances the pig pens abutted on these closets, and in one the atmosphere was reeking with the stench emanating from

the execreta of cow, pig and man-the quadrupeds were to be pitied, while the ignorant man was deserving of condemnation and punishment. If the

example were an isolated one we might pass the subject by, but experience teaches me that it is but a specimen of what exists in many of our larger towns, and often, I am ashamed to say, cities of this Province. Below, and encircled by these 32 pits, are to be found the wells numbered 1 to 6 inclusive, none of them 20 feet deep; Nos. 2 and 3 each being situated in the cellars of the house.

The ridge is gravelly, and a description of the various strata cut through in digging No. 3 will be a good indication of the others. They are as follows:-Sandy loam, vellow sand, light sand (firm), hard pan, sand, bottom of hard pan; in this bottom the water flows from the east and northwest.

As regards the other four wells situated beyond this area, No. 8 is much further to the south: No. 7 is on the west side of Ontario Street, close to the road, and not far from the edge of the second dip into the lower valley; it was 75 feet deep. Nos. 9 and 10 are some distance from the others, and although a little distance apart, are on the same level; the former is 16 feet deep, with a rock bottom; flows continuously. It evidently is contaminated by surface water, for the doctor states that at times it is tainted with coal oil, apparently washed in from the site of an old oil warehouse, just adjacent. No. 10 was originally a spring; the land around is chiefly made land, largely sawdust. It appears that the drainage from the house adjoining is carried away by wooden pipes, from a point near the outer side of the house to the river, and it is not improbable that there is a leakage therefrom, which would readily find its way into the well through the sawdust.

By reference to table it will be noticed that there were seen 14 cases—9 adults and 5 children—and it was found that all the children drank the water of well No. 4 when at school, and of some or other of the others, and 4 adults drank of water from the same source; two from No. 3; one from No. 8; one from Nos. 6 and 10, and one from Nos. 9 and 10. It was further ascertained that one adult drank during his business hours of No. 4, while the other 7 members of his household drank only from the deep well No. 8, and he was the only one attacked with the fever.

The possibility of the disease being communicated by the milk is very remote, as no two families had from the same source.

The summer had been a very wet one, and as a consequence, the ground became saturated, filtration being impossible at times, and impurities would be washed into the adjoining wells or soak through. As most of the closets were pits, there was every opportunity for this to happen, as each rainstorm would fill them, and before the next the liquid would have drained away into the pits or wells in the lower ground. It was further learned that last year enteric fever had occurred in two houses adjacent to, but on the east side of East Street, and allowing for either the imperfect disinfection of excreta at that time, or what is more probable, the depositing of infected excreta in the pits before the fever was diagnosed, it is not improbable these may have been factors in determining the present outbreak.

Samples from each of the wells were collected by Dr. Partridge, M. H. O., and forwarded to Dr. Amvot for examination.

I would strongly urge the immediate adoption of some system for the removal of "night soil" from the premises, and the cleaning of every cesspool in the village. The wells should all be closed, else a repetition of this year's experience may happen next, only with a more widespread diffusion. At the same time there should be instituted a system of public water supply, which possibly could be obtained on the north bank of the river, and at such an elevation as to give ample force for all purposes. In conclusion, I beg to thank Dr. Partridge, M. H. O., and Dr. Barber, for the kind assistance rendered me in making the investigation, and for the deep interest taken by them in this important matter.

Chas. A. Hodgetts,

Medical Inspector.

LIST OF CASES.

			Patient.			
	Name.	Street.	Adult.	Child.	Water supply.	Milk Suppl y .
1 2 3 4 5 6 7 8 9 10 11 12	Harris. Bailey Rutter Hillier. Couture Pates. Blakely. Stoart. Stuart. Ward Hillis. McClelland	Ontario. " Queen. Ontario. " Hewson Queen. " Hewson Queen. " East.	20	0 0 1 0 1 0 0 1 0 0 1 1 0 0 1 5	Well No. 4 & 7 4 3 4 6 4 & 6 6 10 4 4 9 & 10	Blakely. Own cow. Wilson. Westover. Hall. Own cow. Burk. Own cow. Baker.

Note.—Since writing this report, I have been informed by Dr. A. W. Partridge, M. H. O., who has taken the greatest interest in the investigation, that a case of enteric fever existed in one of the houses on High Street, no care being taken in disinfection of the dejecta.

The doctor also reports five other cases having occurred since the date of my inspection. C. A. H.

REPORT ON ENTERIC FEVER OUTBREAK IN SAULT STE. MARIE.

By C. A. Hodgetts, M.D., Medical Inspector.

October 17th, 1902.

To P. H. Bryce, M.D., Secretary:

Dear S'r.—Having learned while on official business in Algoma that there was a large number of enteric fever cases in the town, I called on Dr. McCaig, Medical Health Officer, and found that, for at least two months, the d'sease had been present, and was now (September) somewhat epidemic. Many cases had been of a mild type, but several deaths had occurred, amongst them one of the leading medical men dying.

Owing to there being no system of notification, the M. H. O. was unable to give me the exact number of cases that had occurred, and it was difficult to obtain the information from the medical men, owing to the briefness of my visit, but a conservative estimate would place the number at 120.

follows:	risiting St. Jos	epu's nospital,	T	Tound	there	40	cases,	classified	as
IONOWS.								Cases.	
1.	Non residents							11	
2.	Residents-								

Residents-	
(a) West of Bruce street	24
(b) East of Bruce street	
	35
	46

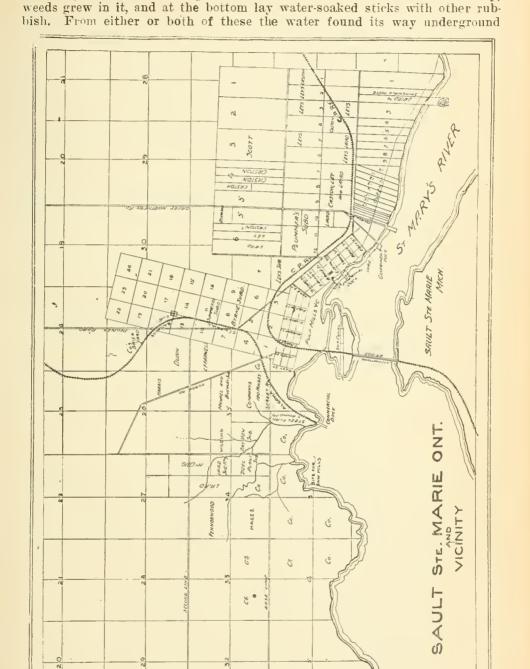
In addition to the cases seen in the hospital, the homes of 13 other patients were visited, and the premises examined. They were all of the class "Residents," in group "A" and in "B," making in all 59 cases included in the enquiry, eleven of whom were non-residents—one from the State of Michigan, and 10 from the adjacent country, leaving for consideration 48 "Residents." One of these had been acting as ward attendant on the enteric patients in the hospital, and no doubt the disease was communicated to him by want of proper care on his part of antiseptic measures. Of the remaining 47 it was found that the source of their water supply was as follows:

Town water	11
Well or spring water	23
Town and well or spring	12

The supply of milk was so varied, and the information on this point so difficult to ascertain from the hospital cases, who were chiefly from boarding-houses, that I have not taken it into consideration, although it is possible that this might have been a source of contagion—as those supplying milk would derive their water from wells or springs, which would be used to wash the cans and vessels; and there is the further possibility of some of it being used for adulteration.

As the larger number of those attacked drank water from the springs or wells of the town, 76 per cent., attention was directed to an examination of the section west of Bruce street, where the chief source of water supply was other than that supplied by the town, and in which 68.5 per cent. of the "Resident" cases occurred. Here the streets and houses are all new; the character of the soil being layers of either sand or loam on clay or rock; a district which, but a year or two ago, is said to have been the dumping ground for night soil and garbage. The ground itself was found to be soft and boggy, due, no doubt, to the fact that the season had been a wet one. There was every evidence that kitchen and other refuse was thrown out, without any regard to health or decency, and cattle roamed about: in fact, everything pointed to an easy pollution of the springs and wells.

A striking instance of the primitive and careless methods of the residents was seen in the spring on Grosvenor street. The street itself is a new one, with a gutter on either side. About ten feet distant from the gutter on the north side is the spring. The receptacle for the water is a hole in the ground, about 4 feet in diameter, its sides composed of small stones, and walled above the ground for about a foot; and at the time of my visit partially covered with a few boards fastened together. It had apparently been recently cleaned, for some of the slime adhering to the stones had been scraped off, though this might have been done by the scraping of the pails against them. Floating in it were some pieces of bread, possibly thrown there by the children sent to draw water. There was two feet of water, and it was clear and cool, and of agreeable taste. A second and sinilar receptacle lies about eight feet further off. Its condition was dirty,



to a barrel situated in the ditch, at the side of the road, out of which the residents also took their water. The ground in the immediate neighborhood was damp, and five closets were within a radius of 25 feet, and cattle r amed about.

The result of my inspection of the premises east of Bruce_street is anything but satisfactory, and the condition calls for prompt action on the part of the local authorities. It is an impossibility for the wells to remain uncontaminated so long as cesspools exist in the condition I found them; for while one careful resident with a well keeps his own premises clean, yet his surroundings are such that pollution must come from soakage.

As there was a sufficient number of cases amongst those seen who had only taken of the town water, I visited the intake in company with Dr. McLean and Mr. Craig, engineer of "The Amalgamated Companies." The water was clear and bright, flowing at the rate of about two miles in 24 hours; the banks on both sides of the canal were clean and free from any buildings from which anything might come that would be likely to pollute; the small accumulation of bark at the pulpwood dump, close to the mill, being merely the daily quota, and could do no harm.

It having been suggested that the water might be polluted by discharges from the steel plant, I found that there is a large concrete sewer running from this place and emptying into a creek which flows into the river below the company's works, and there is no discharge from the steel plant other than into this sewer.

I have requested the M. H. O. to forward for examinations samples of water taken at both intakes, and at several taps in the town: also of the Grosvenor street spring, and of one on Spring street; also any others he may choose.

I recommended the M. H. O. to instruct the public to boil all spring and well waters, and would further recommend the immediate closing of all springs and wells in the town, and the adoption of some system for the regular inspection of premises and the cleaning of cesspools.

> C. A. HODGETTS. Medical Inspector.

CHLOROFORM AND DISEASES OF THE STOMACH AS CAUSES OF SUDDEN DEATH.

By Dr. J. J. Cassidy, Toronto.

Gentlemen: In popular estimation, sudden death, or death occurring rapidly in a person who, apparently at least, was a short time before in good health, may be due to murder, suicide, or the existence in the body of the deceased of unknown pathological conditions. Whatever the cause of sudden death may have been, and however obscure the circumstances surrounding it may be, people in general believe that an autopsy will reveal the cause of death, and in formulating this opinion the public mind and the medical mind are not for asunder.

This opinion certainly appears to be most reasonable, and, in the majority of instances of sudden death, an adequate explanation of the cause of the same may be confidently expected if a careful autopsy is made.

As Watson says in the 4th chapter of his Practice of Medicine:—"The several modes of dying, then, in cases of sudden death, are clearly enough mode out. Let me briefly sum up the conclusions at which we have arrived. Life cannot be maintained without the circulation of arterial blood, and whenever a person dies, he dies either because no blood circulates through his arteries, or because venous blood circulates through them.

When it comes to pass that no blood is circulated through the arteries, we say that death occurs in the way of syncope, and this is of two kinds. In the one there is not blood enough received by the left side of the heart to stimulate its chambers to contract, or to be sent onward by their contraction; in the other there may be blood enough, but the heart has not sufficient power to contract upon it. Also there are two ways in which death may be bro ght about in consequence of the circulation of venous blood through the arteries. In one of these the first step is the sudden shutting out of air from the lungs; the blood which arrives in those organs is not aerated, or rendered arterial, but circulates again as venous blood, producing a failure of the animal functions and weakening of the muscles, till it finally stagnates in the capillaries of the lungs themselves. In the other the animal functions are the first to suffer—insensibility occurs—the power which governs the movements of respiration, the respiratory centre, is in abeyance, the breathing ceases, and organic life is extinguished as in the former case."

These simple, yet lucid, conclusions of the English author are as useful to-day as when they were written, 59 years ago. A difficulty, however, is encountered by the pathologist who makes application of Watson's conclusions to the circumstances of an autopsy in which important anatomical changes are not discoverable. For instance, an individual reported to be in good health, who can talk, walk, and conduct the ordinary business of life fairly well, lies down upon an operating table, and after taking a few whiffs of chloroform, expires suddenly. Who can explain the deadly action or the primary effect of chloroform in this case? We all know that when chloroform is applied in a liquid state to the bare skin that it proves to be very irritating, acting like an acid, and practitioners precede its administration as anaesthetic by the application of vaseline to the lips and nose of the patient, in order to save these parts from irritation. We are, however so accustomed to see even babes inhale it, that we cease to regard it as a specially dangerous drug, unless we are unfortunate enough to witness a death due to its effects. I shall not refer you to all the dangers involved in the administration of chloroform, but shall allude more particularly to the danger of primary shock.

Lyman says:—"It is during the initial stage of nerve excitement that such deaths have occurred, before the blood and the tissues could be saturated with the anaesthetic. The peripheral excitement of the fifth pair of nerves and of the respiratory filaments of the pneumogastric nerve by chloroform may be sufficient to inhibit the respiratory centres in the medulla oblongata, thus producing respiratory and cardiac arrest, just as a powerfulmental emotion or a painful peripheral impression may effect the same result."

Prof. Poncet of Lyons. in reference to syncope from chloroform, says:-"The patient's death is said to have been caused by shock from chloroform, and is due to primary or laryngo-reflex syncope. An autopsy reveals nothing. It furnishes no explanation, and leaves the surgeon more perplexed than he was before." I shall not allude to the danger of primary syncope in chloroform administration further than to say, that, although chloroform is for some patients an active poison, capable of producing sudden death after a few inhalations, we do not possess any data as to the coefficient of susceptibility and of resistance presented by such on such a patient to these deadly vapors. In other words, an administration of chloroform to a person who has not taken it before may be looked upon as an experiment, extremely hazardous for some few persons, innocuous for others—the great majority. The real difficulty is that there are certain persons reported to be in good health who cannot take chloroform without incurring the danger of sudden death, and medical science cannot diagnose such cases.

There are others forms of sudden death. occurring in persons reputed to be in good health, which cannot be explained. An autopsy is demanded, and the jury is surprised when the pathologist who makes the autopsy informs them that no adequate cause of death has been revealed. Popular imagination naturally begins to conjecture a number of causes, criminal or otherwise, which might or might not cause sudden death. As a contribution to the subject I propose to lay before you a brief abstract of an article read before the Academy of Medicine, Paris, March 15, 1902, by Professor Lancereaux.

His paper is entitled, "Rapid or Sudden Death of Gastric Origin." He said that sudden death occurring in persons who are apparently in good health is relatively frequent, but that the cause of it is very imperfectly understood. Deaths by embolism, by the rupture of an aneurism, or a rupture of the heart are rare. In many cases of sudden deaths nothing of importance is discovered when an autopsy is made; the heart is empty, as if death had been due to a spa m.

There is one variety of sudden death which is of rather frequent occurrence. It supervenes during the course of disease of the stomach. Death from this cause usually happens during the night, towards the end of the forenoon, or the end of the afternoon. The heart is sound, the nerve centres do not appear to be affected. A case of sudden death in which an autopsy revealed such conditions was mentioned. Prior to the attack which terminated fatally, this person had had a medical consultation, after which repeated fainting fits occurred, terminating in death. The fainting fits had been preceded by disorders of the digestive organs. Professor Lancereaux described a second case of a similar kind. He concluded that the preventive treatment of such a fatality would consist in endeavoring to ward off or cure dyspepsia."

In presenting this paper for your consideration, I wish, in the first place, to draw your attention to the fact that the idiosyneracy of an individual may cause sudden death from the inhalation of a small quantity of chloroform, no appreciable lesion of a vital organ being found at the autopsy to account for the unexpected result. In the second place, I think that the facts presented by Professor Lancereaux are deserving of the careful consideration of physicians, coroners, and medico-legal experts. His opinion that sudden death may occur from gastric disorder with no lesion discoverable at the autopsy, may help to explain a sudden death, the cause of which otherwise would remain obscure.

All of which is respectfully submitted.

J. J. CASSIDY.

1902

REPORT OF COMMITTEE ON WATER SUPPLY RE SOUTHAMPTON PUBLIC WATER SUPPLY.

Toronto, April 9th, 1902.

Mr. Chairman and Gentlemen :

Your Committee begs to report on the plans and proposed source of water supply for the Town of Southampton. Herewith is submitted a copy of the analysis made in the laboratory of the Board. As stated in the letter of Mr. J. Galt. Engineer in charge, the source of supply is taken from a basin sunk in the sandy lake shore, and so far has been shown ample for the supply of the town.

The principle of taking water from such basins has been successfully utilized at Meaford, Kincardine, Port Hope, etc., and where the location is properly selected and sources of pollution from the land side are prevented, these have proved to be amongst the most satisfactory sources of public water in the Province. Analysis at other points has shown these waters to be, under ordinary conditions, underground waters from the higher grounds, and to have the qualities common to sub-surface waters.

In case much pumping is required, it is found that the basin obtains its supply from the lake as well as by percolation from the land side.

With proper care in protecting the basin from surface contamination, nothing more is required for insuring in such cases a clear, pure water in every way fitted for public use.

Your Committee takes pleasure in recommending the source of supply. Respectfully submitted.

> H. E. VAUX, P. H. BRYCE, J. DOUGLASS.

REPORT BY COMMITTEE ON SEWERAGE RE EXTENSION OF STRATFORD SEWERAGE SYSTEM.

Gentlemen: Your Committee begs to report upon the proposed sewer extensions in Stratford, referred to in accompanying plan and statement of the City Engineer.

With regard to the first extension, there is an alteration to some extent of the original McDougall plan. The change, however, is a slight one, and is evidently intended for the convenience of ratepayers. Your Committee approves of the proposed change.

As will be seen in the drawing, the second extension is an alteration of the original plan in which it is proposed, owing to a heavy cutting to follow a watercourse through private property. Certain provisions of the Municipal Act all provide for drainage outlets across private property : and in this case it will be necessary to obtain consent and make compensation for use of land where proposed sewer is to run.

There seems no objection, so long as the city council arranges these matters of detail, to the proposed change.

Your Committee begs, therefore, to recommend that permission to make the proposed change be made.

It may be mentioned, that with extension of the coke-beds to seven, the area of the filters at Strutford, is now such, as with proper supervision to insure a good effluent from the sewage filter-beds.

All of which is respectfully submitted.

E. F. KITCHEN. P. H. BRYCE. JOHN DOUGLASS.

REPORT OF COMMITTEE ON SEWERAGE RE DISPOSAL OF WOODSTOCK SEWAGE.

Toronto, April 9th, 1902.

To the Chairman and Members of the Provincial Board of Health :

Gentlemen,—Your Committee begs to submit herewith its report on the proposed sewage disposal works of the Town of Woodstock.

The following report of W. M. Davis, C.E., Engineer in charge, is presented as a part of the report.

The various facts set forth in the following report give the Board an accurate idea of the work to be done, and Mr. Davis' scheme for accomplishing it:

The special reference to the very high amount of water pumped daily is of great importance, and points to the same conclusion referred to in the report of your Committee in January last, on the inexcusable waste of money in pumping in many cities on this continent, and the consequent greatly increased cost and difficulties in dealing with the sewage by a filtration plant.

How far the Board can go in regulating this first important point is not very evident : but it certainly should support such recommendations as those by Mr. Davis for the use of meters for regulating the amount of water.

The scheme proposed is an extension both in amount and in detail of the sewage farm scheme, which this Board approved of in 1895. for the north water-shed of Woodstock, and includes the construction of septic tanks and filter areas at two points, one for the north drainage area and one for the south.

Without entering into these in detail, which are set forth in the report, it will be seen that the scheme provided for by Mr. Davis refers to the necessity for preliminary supervision of the character of certain industrial sewages, before allowing them entrance to the common sewers.

It is sufficient to say that the scheme commends itself to your Committee as scientific and up-to-date, and likely, should it be introduced, to remove all reasonable grounds of complaint regarding pollution of the Thames, if the farm be carefully managed and supervised by an experienced engineer an 1 foreman.

Your Committee recommends the Board's approval of the proposed scheme. All of which is respectfully submitted.

> (Signed) E. E. KITCHEN, M.D., P. H BRYCE, M.D., J. E. DOUGLAS, M.D.

> > Berlin, December 23, 1901.

F. J. URE, Esq., City Engineer, Woodstock.

SIR,—I beg to submit the following report on the disposal of the sewage of the city of Woodstock and on the sewerage of the South Watershed for the consideration of your Council.

The situation of the city on undulating ground, each of the streets having a rapid fall which quickly sheds the storm water, makes the separate system of sewerage which excludes the storm water peculiarly adapted for its requirements for the following reasons:

1. The small flow of the river Thames renders it imperative that the sewage of the city should be purified before being discharged into the river, and as the cost of purification depends to a great extent on the volume of the sewage it is desirable that the storm water should be separated from the sewage.

2. The steep grades carry the storm water swiftly to the nearest water course, whence it can without assistance find its way to the river without causing damage, so that while occasional stretches of covered drain may be necessary for the conveyance of storm water no connected system will ever be required.

The earlier sewers were designed to carry both storm water and sewage, but a trunk sewer to take only the dry weather flow from these sewers will work satisfactorily, as is shown by the experience with the North trunk sewer, in which case an overflow to permit storm water to run into the open drain is provided in the connecting manholes. I would recommend that the same device be adopted for similar cases in the South watershed, and that in constructing sewers in the future the separate system be strictly adhered to.

QUANTITY OF SEWAGE. The weir measurements of sewage with which you have supplied me show the daily flow of sewage to be, in the North watershed 340,000 gallons; in the South watershed 130,000 gallons, total 470,000 gallons per day, which does not include the Simcoe Street or Dundas Street West sewer.

I have compared these figures with statistics from places about the same size and similarly situated and the quantity appears excessive. For instance Berlin with 10 miles of sewers has 327,000 gallons of sewage per day. Of this about 30 per cent. comes from tanneries and large factories which take large quantities of water. The quantity of domestic sewage would therefore be 228,900 gallons for 10 miles of sewers, or at the rate of 23,000 gallons per mile.

In the North watershed of Woodstock we have $6\frac{1}{2}$ miles of sewers and 340,000 gallons daily of domestic sewage, or at the rate of 52,000 gallons per day per mile, more than double the amount discharged in Berlin. The reasons for this difference are apparent. Woodstock has a practically unlimited supply of excellent water, few restrictions are placed on its use, and the excessive quantity of sewage is undoubtedly due to waste of water.

In Berlin, on the other hand, the conditions are different. The supply of good water, though ample for all legitimate purposes, will not permit reckless waste. The Water Commissioners have accordingly encouraged the use of water meters, with the result that half the services are metered. Other services are restricted in their use, and all services are inspected periodically in order to detect leaky fixtures and careless or improper use of the water.

In the interest of economy in the disposal of the Woodstock sewage the waste of water should be reduced to the minimum. A great deal may be accomplished by house to house inspections, but there are no means so effectual as the introduction of meters.

TRUNK SEWER. A trunk sewer for the South watershed should follow approximately the course shown on the plan from the corner of Norwich Avenue and Hounsfield Street down to the River Thames, a distance of about 11,000 feet, the diameter of pipe to vary from 8 inches at the head to 15 inches at the outlet, with grades shown on the profile. The sewer running half full will provide for a population of 7,000 people. Manholes about 500 feet apart would be necessary, and a flush tank at the head of the 8-inch pipe. Cedar Creek would be crossed by means of an inverted syphon, the manholes at each end being connected by cast iron pipe. A portion of the sewer between stakes 70 and 93, on account of the grade coming so near the surface of the ground, will require additional covering, as shown by dotted lines on the profile. For this portion of the sewer an alternative location on Main Street is practicable without adding to the total cost.

DISPOSAL OF THE SEWAGE. Of late years many tests have been made and much has been written of bacteria treatment of sewage in septic tanks and contact beds, the latter being usually constructed of coke brize or screened gravel. In the septic tank anaerobic bacteria, which thrive and multiply in the absence of air, decompose and liquify the solids, liberating various gases during the slow progress of the sewage through the tank. In the contact beds the effluent from the tank is acted upon in the presence of oxygen by another species of bacteria called aerobes which depend on a supply of oxygen for their existence, and a high degree of purification is attained.

In some of the earlier disposal plants installed it was claimed that in the tank the whole of the solids were liquified leaving no sludge. A more prolonged experience however demonstrated the fact that on the inorganic matter at least the anaerobes can have no effect, and therefore provision must be made for the removal of a certain amount of sludge from the tank.

This system has been introduced in many places in the last two years and, while the issue has not always been as satisfactory as was anticipated, a close study usually reveals the fact that any failure or partial failure is due to careless management or to the admission to the tank of antiseptics which check the action of the bacteria in the tank. An epitome of the various results would indicate that with domestic sewage well designed tanks intelligently managed will produce satisfactory results, but that some factory and tannery refuse may require preliminary treatment before it can safely be admitted to the system.

In my report to the Woodstock council of 20th April, 1895. the question of sewage disposal is discussed at some length. The advantages and disadvantages of different systems are enumerated and intermittent downward filtration recommended as best suited for the North watershed of Woodstock. In the six years that have elapsed since that time different systems, of which I have knowledge, have had a longer test and the results have been satisfactory, and I am still of opinion that intermittent filtration will best satisfy the requirements of Woodstock; but I would advise the use of septic tanks in connection which will enable the beds to be worked at a higher rate; that is, will enable a much smaller area of land to do the work and reduce the probability of the beds becoming clogged to a minimum. Near the outlet of the proposed trunk sewer is an area of about 3 acres of land of sufficient elevation above the level of the river to be available for filtration of the sewsge. Test pits show this material to be 18 inches yellow sand on the surface with 5 feet of gravel and sand underneath.

I would recommend the construction of two concrete septic tanks 90 feet x 16 feet x 6 feet with two grit chambers 10 feet x 10 feet x 7 feet, and the levelling and underdraining of one acre of land for the purpose of treating the tank effluent. Tanks of this capacity will hold nearly 12 hours' flow each of the sewage discharged in the South watershed at the present time and one acre would be ample to provide for the effluent. For the North watershed I am of opinion two tanks of the same capacity will be

For the North watershed I am of opinion two tanks of the same capacity will be sufficient. It is true the quantity of sewage to be treated is larger than in South watershed but, the area of land available for filtration is greater and will filter much more quickly than the land to the South. I would advise the levelling of three acres for this purpose.

I would advise that the tannery refuse receive preliminary treatment before admission to the sewers. The nature of this treatment will depend on the nature and quantity of refuse. With regard to the future, both tanks and beds will be so constructed that their capacity

With regard to the future, both tanks and beds will be so constructed that their capacity can be increased should occasion demand it, but a restriction of the waste of water would keep the quantity of sewage below the amount provided for for some years to come.

The following estimate provides for the construction of the works described above.

Msin Sewer Estimate.	
From Burtch Street to Outlet	
Hounsfield Street Branch	
South Disposal Works	4,542.00
North Disposal Works	4,413.00

I sm, Sir,

Your obedient servant, WM. MAHLON DAVIS.

\$17,877.00

REPORT OF STANDING COMMITTEE ON SEWAGE.

Toronto, April 9th, 1902.

Mr. Chairman and Gentlemen: Your Committee begs to report that the Government, acting on the recommendations contained in the Committee's report, presented at the last meeting of the Board, recommending that the Board be given such facilities as were necessary for carrying out a scientific investigation of such sewage disposal works as those of Berlin and other towns, where local complaints have arisen or may arise in future, has acted on the report, supplemented by a special report to the Premier by your Secretary, after a deputation from a number of cities had waited upon the Government, urging that a scientific assistance be given in the matter, and has appointed Mr. W. P. A. Robinson, B.Sc., Fellow in the School of Science, a chemist of several years' post graduate experience, to work in conjunction with Dr. J. A. Amyot, Bacteriologist of the Board, in giving special attention to the work at Berlin during the coming season, with a view to supplying the Board with such information as will enable it to make any additional recommendations to those contained in the Board's report of last October.

Dr. Amyot has, at my request, prepared the statement herewith presented of work already done, which contains a statement of conditions found similar to those reported upon by your Committee last October.

Dr. Amyot, after spending several days at Berlin, has now gone to Massachusetts to study the laboratory methods at the Lawrence Experimental Station, with a view of obtaining such information as will be of use in the enquiry.

It is hoped that at the next meeting your Committee will be in possession of such information as will enable it to take any further action in relation to the Berlin Sewage Farm which the situation demands.

All of which is respectfully submitted.

E. E. KITCHEN, M.D., P. H. BRYCE JOHN DOUGLASS.

REPORT OF COMMITTEE ON SEWERAGE OF LISTOWEL.

Feb. 13, 1903.

Gentlemen: The Committee on Sewage presents' for consideration the plans for the disposal of the sewage of the Listowel sewerage system.

After discussion, the plans were approved of, subject to the following provisos, on motion of Dr. Bryce, seconded by Dr. Kitchen :

Ist. That the septic tanks of the system be extended, when necessary, from time to time, so that the capacity will always be equal to one day's sewage flow.

2nd. That the filter beds or other method for final precipitation of the sewage shall be of such area and construction, and be so conducted that the effluent therefrom shall be of a degree of purity satisfactory to the Provincial Board of Health.

3rd. That should any of the manufacturers disposing of factory wastes into the sewers of the town be found to discharge sewage of such a character as to place an unreasonable expenditure upon the town for purifying its sewage, it shall be a part of this approval that at any time the Provincial Board of Health directs the Town Council of Listowel to take any additional measures to purify its sewage, the Board reserves to itself the right to determine the means and extent of the same which any manufacturer must adopt to remove a definite amount of solids and deleterious matters from his sewage wastes before pouring them into the common sewers of the town.

4th. That the town shall adopt a Plumbing By-law similar in its provisions to that contained in Schedule "B" of the Public Health Act, or the Model Plumbing By-law issued by the Provincial Board in 1897.

5th. That the town must employ in the management of its sewage disposal works a competent engineer, to keep the same under supervision, and that he shall have direction of the workmen in charge.

> (Signed) P. H. BRYCE, Secretary of Provincial Board of Health.

Copy of Engineer's Report.

Listowel, 9th April, 1902.

To the Mayor and Council of the Town of Listowel :

Gentlemen,—As the disposal of the sewage is in Listowel a serious matter, the "separate" system of sewerage, which excludes the storm water, and thus keeps the quantity of sewage at the minimum, is best suited to the requirements of the town, more especially as the storm water can in any part of the town be conducted to the natural watercourses with but little expense.

The course of the sewer should be along the river valley to the right of the stream; above Main street a ten-inch pipe will be sufficient, while a twelve-inch pipe will be necessary below that point; these pipes running half full will carry off 400,000 gallons of sewage per 24 hours, or will provide, when running only half full, for twice the present population.

Manholes for purposes of inspection and maintenance will be required every 300 feet, and three automatic flush tanks to keep the sewer clean, should be located at proper points; these flush tanks hold from 300 to 500 gallons of water, and are set to discharge at regular intervals, usually at from 6 to 24 hours, as occasion may demand.

Disposal of Sewage: As the Public Health Act will not permit the discharge of raw sewage into the river, some system of treatment for purification must be adopted. There are several systems of sewage disposal in use, each of them applicable to certain conditions. I do not consider it necessary to burden this report with their several advantages and disadvantages, but think it sufficient to describe the system which I think best adapted to your needs: This is Bacterial Purification by means of septic tanks and filter beds. In this syst m the sewage is received in closed tanks holding from 12 to 21 hours' di-charge; the sewage passes slowly through the tanks, the effluent being turned on to filter beds for further purification, the filtrate from the beds then passes directly to the river.

In the tanks the sewage is acted upon by bacteria called anaerobes, which thrive in the absence of air and light; these bacteria liquify all the organic matter in suspension, and the liquid passes on; the solids remaining are almost entirely inorganic matter, which settles in the bottom, and is very small in quantity. It will require to be removed probably once in six months.

Further purification is accomplished in the filter beds, where another species of bacteria carry on the work ; these bacteria are called aerobes, and depend for existence on light and air. These beds must be used intermittently, allowing time for the filling of the interstices with air between the doses of sewage. If used continuously the filters will become waterlogged and ineffective.

I would recommend that the disposal works be located near the crossing of the river by the Kincardine Branch R.R.; and that the works consist of two septic tanks holding about one day's flow of sewage, and two filter beds of about 1-10 acre area.

The following is an estimate of the costs :

Sewer from brewery to disposal works	\$3,866
2 septic tanks, concrete, 40. ft x 12 1-2 ft. x 6 ft	978
2 filter beds, 40 ft. x 50 ft., 3 ft. deep gravel or coke	780
Land for works and right of way	
	\$5.924
Add for contingencies 15 per cent	839

\$6,763

Should the Government experiments, in progress at Berlin, indicate that preliminary treatment of the manufacturing sewage is necessary before admission to the sewers, the advice of the Government bacteriologist should be taken as to whether he considers preliminary treatment necessary here. I am of opinion, however, that nothing of the sort will be required except in the case of the Gas Works, where the water used in washing the gas contains quantities of tar, and the woollen works, where the sewage contains a powerful anti-septic, which may have a detrimental effect on the action of the tank unless neutralized before discharging into the sewer.

I am. gentlemen, your obedient servant.

W. MAHLON DAVIS, C.E.

THE SOCIAL PHASE OF SMALLPOX AND VACCINATION.*

By P. H. Bryce, M.A., M.D.

Prof. Sedgwick, of Harvard, in his recent work defines public hygiene "as the science and the art of the conservation and promotion of the public health." Accepting this as a practical definition of the scope of public health, it is evident that we may very properly discuss the relation in which dis-eases, of which smallpox is the type, stand to the interests of society, whether as individuals in a social unit or community or as eitizens of a nation which endets laws for the government of its own people. Much argument may be had as to the extent to which individualism or communism in its exact sense should be the underlying principle in legislation; but practical c mmon sense and general experience, as seen in every day business, in educational, municipal and religious affairs, teaches that what cannot be done so well by the individual alone, as by a number acting together for a common end, may ploperly come within the sphere of governmental and municip: laction. The strength of this position may be pressed still further in any case where the action or inaction of one individual directly endangers the welfage or lealth of another. Such has been the subject of common action, even in those primitive communities, whether in past or present time, which have sarrificed a member of the tribe—even their choicest youth to placate an offended deity, or who have put to death wendigoes or witches. supposed to exercise malign influences whether upon men or cattle. We may then properly conclude that in the instance of a contagious disease, and especially of smallpox, which to the most uneducated, as the western Indians, whose traditions tell of whole tribes destroyed by epidemics of it, is looked upon as so loathsome and terrible that armed men have been known to guard the banks of a stream to prevent men from an infected settlement crossing, the most primitive societies recognize that common action may properly be taken to avert what is or may become a general danger or calamity.

The postulating of such a principle for the action of society must seem to most people wholly unnecessary and commonplace in view of the facts illustrated by a hundred years of history : and yet, we have only to read extracts from the daily press, from many particularist magazines, and, indeed, from many so-called scientific journals, to learn the truth of that Scripture: "Where there is no vision, the people perish : but he that keepeth the law, happy is le," to find medical officers of even large Canadian cities assuming reactionary attitudes with regard to the duty of the individual and of the community in dealing with outbreaks of this disease—if the cases be mild—by means of vaccination and prompt and thorough quarantine.

However commonplace, it does seem necessary to recall a few facts culled from the pages of history. Dr. Brooke (1766 A.D.) says, in his General Practice of Physic : "Smallpox has been for ages, and continues to be, the terror and destroyer of a great part of mankind. In the ordinary course and duration of human life scarce one in a thousand escapes the smallpox." Before this, indeed. Ben Jonson had written an epigram to smallpox beginning with :

> "Envious and foul disease, could there not be One beauty in an age, and free from thee?"

while at the beginning of the ninoteenth century we are informed that 90 per cent. of all the inmates of hospitals for the blind in England were there on account of smallpox. Dr. George Bell, of Edinburgh, wrote in 1802 that the smallpox in Europe for more than 1,000 years has descended with undiminished violence from generation to generation, and every effort made

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hitherto to extirpate it has failed. Of epidemics in America we have statistics of Boston from 1721-1792, in which it is stated that there were seven epidemic years, during which the average population was 14,714, and the average number of cases 5,600, or 38 per cent.; while Simon says of it in the 16th century : "In Mexico it even surpassed the cruelties of conquest, suddenly smiting down 3,500,000 of population and leaving none to bury them."

Such was the monotony of history and statistics at a time when Jenner made his memorable discovery, imitating, except in the source of his virus, the practice introduced into England from Constantinople by Lady Mary Wortley Montagu of inoculation from a case of existing smallpox, and who wrote from Adrianople regard ng the practice as early as 1717 A.D.

Of the effects of vaccination during epidemics, those in Montreal in 1885 may be given, where'n 30.08 per cent. of cases died in the unvaccinated and only 4.1 per cent in the vaccinated. The results during the recent epidemic in London, England, have told the same story. Thus, in the statistics for the week ending December 30th, 1901, we find that of 97 unvaccinated there were 60 per cent of deaths, while of cases up to ten years in vaccinated persons not one death occurred, and only two between ages of ten and twenty.

Such are only a few illustrations selected from an unlimited mass of materials showing what smallpox as an epidemic disease was, and would be to-day were its prevalence as great and our defences against it as limited as they were before 1796. One of the most pertinent questions which we may ask ourselves, however, is : "Granted all these facts, is it not true that in the Province of Quebec fatal epidemics of smallpox have not appeared since 1885, and that in Ontario the total deaths since 1882 have not much exce ded 200; and yet systematic vaccination has not been carried out by the people or the municipalities during the past fifteen years?"

The question has been posited thus clearly so that those doctrinaires who, in the matter of smallpox, would preach the expediency of a policy of larssez faire and of allowing outbreaks of the disease to be dealt with simply as ordinary diseases are by practising physicians, leaving the matter of quarantine and vaccination to the individual intelligence and sense of duty to the public, must accept the position either that such a course of action within their own experience or from the accredited evidence of history has suppressed outbreaks, has prevented an increase of the death-rate, has not produced destructive effects upon health as disfigurement of features or loss of evesight, has not been disturbing to the public comfort and sense of security and has not been injurious to their own or the general commercial prosperity of any community. Are such prepared to accept and occupy such a position? But while they may not do this they may fall back upon another and say: "No, we are not prepared to go so far, since we admit that common municipal and governmental action has at times been necessary to suppress severe and fatal epidemics; but, nevertheless, there are diseases, and at present smallpox in America is such an one, which are so mild in their effects, so little fatal, and yet so difficult to control without great inconvenience and expense to the public that it were better to simply leave their management to the individual citizen and his physician. For the moment let us accept the position. It has been estimated that during a single year, 1900, there were in the United States at least 100,000 cases of smallpox ; while in Ontario alone during a single year there were some 2.500 cases. The deaths in all were not greater than 1 per cent, in Ontario, and probably no more than this in the United States.

Taking that in Ontario as a type of the outbreaks, it may be stated that not much less, probably, than \$500,000 has been spent by the municipalities

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and Government in preventing the spread of the disease. With regard to the number of persons liable to the disease, owing to their not being protected by vaccination-assuming, of course, for the moment, that successful vaccination in infancy is a protection up to ten years and very largely so up to twenty years-we may roughly estimate that of the population of Ontario, 2,182,947, the greater part of some 913,645 have been born since the fatal epidemic of 1885 in Montreal, during which vaccination was very general in Ontario. Since that year there have been a number of isolated outbreaks of smallpox in Ontario promptly stamped out ; but not until 1901 did the disease become general, that is, having numerous centres, and as a result no general vaccination has been practised for upwards of fifteen years until the present epidemic. Assuming a relatively large number of persons in Ontario to be revaccinated in the 1,200,000 over twenty years of age, and it is apparent that the situation as regards the number in both age classes liable to the disease is very large, and that the mortality rates which prevailed in London during the epidemic of last autumn and winter, or of the outbreak at present existing in New York, would have prevailed in Ontario had that type of disease been introduced, and had there been as many cases during 1901 and 1902 as there have been. There were in all some 3,500 cases in fifteen months, which, with an average mortality of 25 per cent., would have meant nearly 900 deaths. It has been already stated that at least \$500,000 is estimated to have been spent by provincial and municipal authorities in stamping out the epidemic, and that most active and drastic measures both of isolation and vaccination were adopted. What the extent of the utbreak would have been had such measures not been taken cannot, of course, be definitely stated, but several instances will serve to give us some idea. Owing to the disease in 1901 not having been early diagnosed, and few measures of isolation and almost none of vaccination having been adopted. 550 cases occurred in settlements and camps in an area of 150 miles along the C.P.R. in a population not exceeding 10,000, between Sault Ste. Marie and Sudbury, within three months. In October, 1901, a case unfortunately diagnosed as chicken-pox occurred in Dover Township, in Kent. For two months the discase had spread unchecked by any official action. Such, subsequently, for a time was not thorough. The total cases were nearly 400, not to mention many in neighboring townships arising from the Dover outbreak. In Osprey Township, in Simcoe County, in a most prosperous community, a mistaken diagnosis of the same kind in April, 1902, enabled the disease to get a start, and resulted, even with the most drastic methods subsequently, in 76 cases. In Burford Township, an old-settled and intelligent community, some 200 cases occurred in 1901 because the disease had first been called chicken pox, and the local physicians had taken no steps to isolate cases or prevent the convalescents from attending schools and churches. The disease was only stamped out with difficulty, after thorough measures were adopted. Dozens of such examples, less notable simply because active measures for suppressing the disease were taken early, might be given ; while the 10,000 cases in the six months of 1885 in Montreal, most of which had occurred before active municipal measures for its suppression were adopted. illustrate the fact that, with a contagious disease present the average good sense of any community does not serve to prevent its spread, unless when crystallized into organized and systematic methods of action.

It has been, we think, fully demonstrated to what an extent the present epidemic of smallpox of a benign character, beginning in 1899, would have prevailed in Ontario had the views of the laissez faire school and of anti-vaccinationists been accepted : and when they turn to statistics and point to the low mortality after all our trouble, we ask them are they prepared with

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us to adopt drastic measures of every necessary kind when the disease with a high death-rate does really make its appearance? If they do---and this is the position of many believers in vaccination, both amongst physicians and mun cipal officers-they will have to explain by what conceivable means they are going to discover when an epidemic, like that from Japan in 1900, which killed nearly 50 per cont. of its victims, is going to appear, though even its first case in Port Arthur was so mild that it was not diagnosed, or at what moment virulent smallpox may arrive in Toronto from some hidden source in the slums of New York or Boston." Perhaps it is natural that we, viewing these matters from the official standpoint, should seem to disregard personal inconveniences and even municipal expenditures; but it would seem that there can be no via media. no position which, as with some other diseases, can be adopted without the assumption of a responsibility as regards loss of life, family misfortune and commercial disaster, which none who recognize what an epidemic of smallpox means would care to assume. Probably by none must the mental perspective be more accurately maintained than by the physician ; and this can only be maintained by the frequent readjustment of the instrument to a proper focus from time to time. Our memories are proverbially short, and mental pictures grow dim with surprising rapidity; but we do well to remember that Nature is ever the same in her me hods and her results, and if she seems at times to present herself in tranguil mood, as where the whole woodland is perfectly mirrored in the placid bos m of some northern lake, yet the time will speedily come when her rugged work must be done. He is, indeed, the wise mariner who looks well to stay ails and masts, to keep his vessel affoat and return unscatted to the desired haven.

*In May, 1900, an outbreak of smallpox occurred infecting many persons at different points between Winnipeg and Montreal, caused from exposure to a passenger from Australia via Japan to Vancouver, thence by C. P. R. The gentleman sickened on the train west of Winnipeg, was taken to the Winnipeg Hospital and died, as at first thought from purpura hemorrhagica. It proved to have been smallpox, and caused twenty-two cases and deaths in Winnipeg. Persons exposed on the train carried the disease to Eastern points. The first case at Port Arthur was mild and was not diagnosed, and resulted in the infection at that point and Fort William of fourteen persons and six deaths, at Arnprior of one person and one death, in Carleton Place of six persons and two deaths, in Montreal of six persons and two deaths, at Seine River of one case, at Sault Ste. Marie of one case and one death and at Wolfe Station of one person and one death.

SOME SCIENTIFIC AND PRACTICAL ASPECTS OF VACCINATION.*

By P. H. Bryce, M.A., M.D., Toronto.

Mr. President and Gentlemen of the Medical Society of the State of New York :

I have to express my appreciation of the honor conferred upon me through the invitation to address your society on a subject which, however old and hackneyed, becomes, in view of its present importance, one of extreme interest.

After a hundred years since Edward Jenner's discovery had been accepted in Europe, and by some of the more eminent physicians of America, we find a disease, which in the eighteenth and preceding centuries had its victims indifferently in the hovel and the palace, so little prevalent that until within the past three years the majority of living physicians in America and Canada had never seen a case of smallpox; and as it has happened the greater number of cases which have been seen on this continent recently have been so mild that we have to go back to the days of Sydenham, in the seventeenth, and Van Swieten, in the eighteenth century, to find a parallel for this anomalous type of the disease. It has not been, therefore, unnatural that to those inexperienced in the appearance of the disease, and even to those familiar with the type of the disease as it has appeared when introduced from Europe, much doubt has arisen as to whether or not the disease which, brought from Cuba in 1898, has spread so widely over the Southern, Western and Central States and Canada, has been true variola.

One supreme test of vaccination has enabled us, however, to prove conclusively its nature, since it has been so successfully combatted by that wonderful discovery of Dr. Edward Jenner, as the numerous outbreaks which from time to time have previously appeared since 1800. What he taught, in brief, was that by vaccination we introduce by inoculation a disease which causes a vesicle of a particular character on the teats of a cow or on the tender skin of the belly of a calf, the virus of which when inoculated into a person produces a vesicle of a peculiar character. We now know, what Jenner and other experimenters of his time, believed, from their experiments in variolation or inoculation with smallpox virus, that a similar vesicle can be produced through inoculating several calves in a series with virus from a smallpox patient, and that this smallpox virus thus modified produces in other calves, in man, in monkeys, and in guineapigs a vaccinia which protects against smallbox completely in practically all cases for ten years, in a large percentage for twenty years, and which, though decreasing, continues to protect against the severity of an attack of smallpox to a large degree throughout life. In the absence of any knowledge of the germ theory of disease, it is natural that Dr Jenner and his associates should not have arrived at any c'ear idea of how this protection was produced, further than that it was the same as that caused by other cruptive maladies, whether in man or animals,

Not until Pasteur's discovery of the germs of anthrax and chicken cholera, and his success in producing immunity by the cultivation of the micro-organisms of these discusses, did it become possible to formulate any theory as to how the protection by inoculation with the germs of a disease was brought about. Without discussing modern experimental evidence regarding immunity, we have only to realize the organism of any bacterial disease as a simple cell, having its environment within the body, subject to variations, just as in nutrient media, and multiplying and completing its life-cycle in the body, obtaining its pabulum from the fluid tissues and their contained cells, and producing substances peculiar to itself, acting upon and being

^{*}Read before the State Medical Society of New York, Jan, 27th, 1903.

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reacted upon by the normal tissue-cells, in order to understand that its pabulum may be exhausted as in a culture medium, that its products may become auto-toxines, and that they may stimulate in the tissue-cells of the body the production of compounds inimical to the further development of the microorganism of the specific infection.

We, therefore, very properly may conclude that as the bacillus of diphtheria grown outs de the body produces its toxine, which, introduced into horses, produces the anti-toxine, whose quality and antidoting strength can be measured, so the variolous or vaccinal germ produces its toxine, which stimulates the tissue-cells to produce their anti-toxine.

That such is actually the case has been experimentally proved, especially by Beclere and Chambon, of Paris, who have shown that active vaccine lymph may be neutralized by adding to it in test tubes the serum from vaccinated heifers, or from men, or monkeys recently having had variola. We have every reason, therefore, to conclude that variola is a bacterial disease, and that Copeman's, Klein's, and others' claims that they have isolated the microorganism of smallpox or vaccinia are founded upon fact.

The progress of vaccinal immunity in calves has further been admirably illustrated by the experiments of Beclere, and Chambon, in which subcutaneous injections of active glycerinized lymph were made, and subsequently epide mal ineculations were made on succeeding days from the 3rd to the 7th. The effect on the vaccine vesicles when the scarifications were made after the fourth day, were (a) vesicles appearing sooner than in normal vaccination ; (b) vesicles modified in external appearance, rapidly arrested or aborted in development : (c) lymph having little or no virulence when taken from vesic'es after the fourth day. Such, in brief, is the basis upon which the immunity caused by vaccination rests : and it must be satisfactory to all who have followed the marvellous results of the biological study of infectious diseases carried on during the past quarter of a century. It is, however, a remarkable fact that while the practice of protective and curative inoculations in the instance of diphtheria have been generally accepted both by the profession and the public, there has grown up during the very period in which. the experiments which form the groundwork of all our theories of immunity have leen carried out, an opposition both to the theory and practice of vaccination against smallpox, which even in conservative England, which claims the honor of the great discovery of Dr. Jenner, resulted in 1898 in the introduction of the conscience clause in the Compulsory Vaccination Act.

Wher in, then, lies the origin of this opposition? Primarily, I believe it lies in the simple fact that vaccination laws are compulsory. We have, in fact, no other law compelling persons to subject themselves to inoculation with a disease at a time when they are in perfect health, and when, as a matter of fact, no croses of the disease may exist in their community, nor, indeed, in their country. In the second place, the fact exists that in an occasional case unfortunate results have followed the operation, giving some reason for the objections which have been raised. What moral grounds, then, can we have for our insistence upon the necessity for such legislation; and if such can be shown to have a basis in reason, what are the logical deductions to be drawn as to the moral duty laid upon the State which institutessuch legislation?

With regard to the first question, we have several answers:—(1) That vaccination has during a century been the means of reducing the mortality from a disease, which previously caused one-tenth of all deaths in European countries, to the lowest of any of the infectious diseases which we have to combat in temperate chirates. (2) That the theory of the immunity caused by it is based upon experimental evidence which has completely revolutionized the practice of medicine, and produced results in the instance of such diseas s as anthrax, rinder-pest, plague, and diphtheria, which are comparable to that of vaccination itself. (?) That inasmuch as the infectiousness of smillp x is incomparably greater than that of any of these diseases, experience in every country has shown that, while sanitation, isolation, and disinfection, play important parts in the work of prevention, even the most complete sanitary organizations have failed again and again to eradicate the disease from a community without vaccination. (4) That we have the marvellous fact that vaccination is adequate to protect completely against the dilerse after exposure has taken place, even up to the fourth day, and of reducing the severity of the disease to a non-fatal issue in almost every instance where vaccination is consurrent with the smallpox.

If, then, we have such potent reasons for persisting in our demands for compulsory vaccination, we must be prepared to accept the fullest responsibility for the position taken, which must be that, if we insist on compulsion, we shall not, through indifference or neglect, allow anything to exist or take place by which any element of danger can enter into the results of the operation.

• I am quite prepared, gentlemen, to admit that while any serious results which have ever been shown to follow the operation are in practice infinitesimal compared with the total number of operations, yet the secondary effects of the operation at times from the ethical standpoint have been such as to clearly inculpate either the producer, the operator, the patient, or two, or, indeed, all three together.

As regards the producer, we must realize that while bovine vaccine has been produced and used largely during the past twenty years in America, the methods adopted being in the hands only of private producers, would not be likely to be improved beyond the scientific knowledge of the bio'ogical theories, explaining the modes of its production. Not until bacteriology had made known to us the part played by staphylococci and streptococci in pyemia and septicemia, could we understand why the sec ndary infections were unnecessary and avoidable complications of vaccination, recognized, however, as to their existence, even by Jenner, who said, "That the most material indisposition, or at least that which is felt most sensibly, does not come primarily from the first action of the virus on the constitution, but that it often comes on if the pustules be left to chance as a secondary disease." Hence it was not uncommon, up to quite recent years, for lymph to be taken from vesicles on a second, or even third day, and for clamps to be used for extracting the largest amount of lymph possible from the vaccinifer. Within the last ten years, however, with the experimental work of Blexall, Copeman, and others, all this has changed; and to-day we have producers everywhere supplying or endeavoring to supply a vaccine free from extraneous organisms. As usual, the very virtue of the method has become in some instances a defect, and it is found that at times the activity of the virus itself has disappeared. New producers have entered the field, widespread outbreaks have created unexpected demands for vaccine, and between inexperience and commercial necessities, the practice of vaccination has been injured by lymph at times of excessive virulence, and oftener by that having no protective value. It is, therefore, apparent that until all vaccine sent to the operator has been tested, and indeed standardized, as diphtheria anti-toxine, by experiments on persons and animals, we must feel that the ethical demands of the situation have not been altogether met. That it would make lymph more costly can be no valid reason for its not being done, and no State with a compulsory law can evade the responsibility for neglecting to demand of producers that all vaccine supplied be tested, or, failing to secure this, must supply adequate facilities for its production by qualified State officers. When we turn to the operator, or public or private varcinator, we find that while the State licenses medical practitioners, there seems to have been everywhere on this continent a growing neglect on the part of medical colleges to either teach the theory or illustrate the practice of vaccination. We find lymph which has been stored for weeks in a drug store used by the practitioner as if it were an inert mineral drug, incapab'e of change ; and while, in a surgical operation of another kind, the practitioner may carry out aseptic precautions to an almost absurd extent, he will invade the uncleansed epidermis with, perchance, an unclean scalpel, and, after scarification, leave the unprotected wound to its fate, with an unthinking disregard of whether its course may be normal or a dangerous secondary infection supervene. In all this the personal elements as regards s ientific kn wledge and personal responsibility from the ethical standpoint are points which, perhaps, it would be too much to make the State responsible for; but if the credit of vaccination is to be lessened or a single person injured by the operation, then it is clearly the duty of the State to allow such c mpulsory work to be performed only by responsible, trained, public vaccineters, and to establish heavy penalties, as is done in Germany, for any unqualified person performing the operation, or for proved carelessness on the part of a public vaccinator.

It is apparent that to institute such a system legislation of a kind similar to that of Eugland and Germany would be essential. In England, and especially in Germany, compulsory vaccination is accompanied by provisions for the production of vaccine by State establishments, where the responsibility for the production of tested lymph properly rests, and whence lymph is supplied to qualified public vaccinators, appointed by the municipalities. The system further provides for the regular and systematic vaccination of infants, and of vaccination on entrance to the schools, and to the army and navy. Such desiderata are making themselves felt more and more on this continuit, where increasing urban populations and the facilities for the transmission of infection through the extending travel by railways, are yearly becoming greater.

With regard to the individual responsibility for unfortunate results of the operation, but little need be said. If the vaccinator does not warn the patient of the precautions to be taken we may expect that the latter too frequently, through ignorance, will be lacking in a knowledge of the care necessary to pr tect himself. He ought to be taught to know that he is inoculated with a disease, and that for the short time required he must consider himself a patient. In the 1900 report of the Medical Officer in charge of the vaccinations at the National Vaccine Establishment, London, we are informed that out of 1.892 primary vaccinations, eleven on subsequent inspection showed a me abnormal clurse, most of which consisted of "sore arm," caused by domestic maltreatment.

In view of the distribution by producers of lymph through the journals of this country, and through advertising eiceulars within the past three years, of statements regarding vaccination, which at times have been at variance with the authoritative teaching on the subject, it may not be ill-timed to refer briefly to the question of what constitutes a normal lymph and a normal vaccination. It must be remembered that for years we have looked upon a good vaccine as one which by its more rapid evolution will within eight days have developed so complete a vesicle that it will serve to protect a person inoculated up to the fourth day after an exposure to smallpox, the incubation period of which is from twelve to fourteen days. We learn, from report after report of the National Vaccine Establishments in England, Ger-

many, and France, that the vesicle on the calf is mature within ninety-six to one hundred and twenty hours after inoculation. So fixed for many years was the period of maturation of the vesicle in man, that the compulsory laws of England required all children to be brought on the eighth day for examination of the pock. According to Copeman, of the Loudon National Establishment, glycerinated as well as crude lymph, if normal, will have produced by the seventh day a vesicle five or six mm. in breadth, with a glistening, translucent margin of a nacreous or pearly appearance, with the pal-red areola, the rest of the surface presenting a more opalescent, bluishwhite appearance, while the patient suffers from malaise, with some inflammatory fever, and involvement of the axillary glands. From this pearly margiu our old teachers took the lymph on the eighth day for arm-to-arm vaccination. With this picture so constant for a hundred years, it is astonishing that we should recently have had new teachers informing us that glycerinated lymph produced normal vaccination when a vesicle had matured on the twelfth day, without, as many of us know, presenting the pearly border and characteristic vesicle which we have been taught to look for. It is apparent that if we were to accept this new teaching, the protective inocu ation after an exposure to smallpox would become impossible. Fortunately, this new doctrine was short-lived; and, personally, I have been able to demonstrate even to the satisfaction of producers, that a normal lymph, even though it may have had to overcome some slight immunity, was able to produce in a patient so vaccinated an eighth day vesicle of a quite typical character. Such lymphs, we have, unfortunately, had good reason to know, have not only not protected against another vaccine, but have not protected against the mild type of smallpox, which has so generally prevailed. It has, hence, become essential to the maintenance of the credit of vaccination that the public officials as well as the profession should not only have perfectly clear ideas as to what a normal vaccination is, but that they further be placed in such a position in their several States and cities as to insist upon the use of only such vaccines as will produce normal vesicles and effective immunity.

One of the results of these new theories has been to cast discredit on the very great advances which have been made through the introduction of eseptic glycerinated lymph. Articles everywhere have been appearing in the medical press condemning unsparingly glycerinated lymph; and, from the standpoint of the results above indicated, with some reason. But it is apparent that when we can obtain statistical results collected from hundreds of public vaccinators under an organized system, where, as in England, in the year ending March 31st, 1902, lymph for 974,595 vaccinations had been sent out from the National Vaccine Establishments, and where for the quarter ending December 31st, 1901, 264,044 vaccinations showed a success of 97.9 per cent., and an insertion success of 93 per cent., we have a basis of fact which should wholly disabuse our minds of the idea that glycerinated lymph is a failure.

The actual figures published are :

	Cases.	Case Success per cent.	Insertion Success per cent.
Primary vaccinations	126,209	98 6	94.0
Re-vaccinations	134,835	97.2	92.0

Another theory which has likewise had its rise in these modern days of "sweetness and light" is that one scarification is sufficient for protective purposes. Contracy, perhaps, to what the theory of immunization might lead us to conclude, viz., that so long as the system becomes inoculated, it does not make any difference how the lymph was introduced, whether by one or five scarifications, we have the statistics of more than half a century proving absolutely that it does make a difference whether much or little lymph be introduced. We have long been accustomed to say that a well-pitted person will never take smallpox again; and we presume this is true. We say that a child which has suffered from a severe type of measles or scarlet fever is absolutely immune against another attack; and in practice this is true. We surely, then, are justified in saying that, just as the very slight protection produced by a twelfth-day vaccine has not established an immunity even for a month against an active vaccine, so a single scarification does not allow the same absorption at one time, as several would, of a virus whose activity is to overcome the vital resistance of the tissue cells, and will not, therefore, call up the same degree the vital energy in these cells to produce those anti-bodies, whatever their nature, upon which we now depend to explain the immunity.

The table of Mr. Manson, surgeon to the London Smallpox Hospital from 1836-67, of 13,755 cases of smallpox, seems conclusive on this point :

13,755 cases of Small-pox classified according to the	Percentage of deaths.		
vaccination mark on each.	1835-1851 (3,094 cases).	1852-1867 (10,061 cases).	
Stated to have been vaccinated, but no cicatrix	21.7 7.6 4.3 1.8 0.7	39.4 13.8 7.7 3.0 0.9	
Unvaccinated cases	35.5	34.9	

Such facts seem to be conclusive, and fortunately they do coincide with most of the knowledge we have concerning this wonderful fact of immunity against eruptive diseases, either through contagion or experimental inoculation.

It is apparent, gentlemen, that the few practical questions I have touched upon only serve to illustrate to what lengths the subject would lead us, if we attempted to do it justice. It is, however, the practical side to which public officers of health have constantly to direct their attention; and it is apparent that we on this continent, with our democratic methods, have been hitherto greatly limited in our powers to either control the quality of vaccines which have been supplied, or to produce in State establishments products which would fulfil the requirements.

Within the last year, however, official opinion has been crystallizing, and its conclusions, briefly stated, would seem to be: (1) That official supervision of the products of vaccine establishments by either State or Federal officers is imperatively demanded; or (2) that the production in State or Federal vaccine establishments of adequate supplies of vaccine of established quality, to be sent out free or at cost to municipalities, has become a necessity.

It is not necessary here to enter into a discussion of which scheme is preferable; since, while Government production in Germany, England, etc.,

has proved itself a success, it cannot be forgotten that in some respects our democratic methods do not always conduce to that permanency of the civil service and freedom from political complications which are necessary to efficient performance of scientific work. On the other hand, the unlimited capital and keen competition of the large commercial houses supply in many ways facilities for the production of standard articles, and their maintenance at a high standard of excellence, which, perhaps, few individual States could attain to. Personally, I am convinced, however, that no matter which scheme is adopted, there is demanded before everything else adequate legislation whereby from year to year qualified public vaccinators must be appointed in every municipality, who shall be empowered to vaccinate systematically all children born in any year, and that through the responsibil-ity laid upon them, and the routine methods established, such men will become experts in the art, and will gradually obtain such a store of information as will prevent the use of any except standard vaccine, and by the care exercised be able to anticipate and prevent those accidents which we have already referred to as seriously injuring the credit of this greatest triumph of modern medicine.

Cases and Deaths from Contagious Diseases from 675 municipalities.

(Annual	Returns	\mathbf{for}	1902.)
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Smallpox. Scarlatin		Scarlatina. Diphtheria.			Typhoid.		
Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
2,797	12	3,452	290	2,696	408	1,542	242

Total Deaths from Contagious Diseases and other causes by months for the year 1902. Average Population reporting, 90%.

Date.	Scarlet Fever	Diph- theria.	Measles	Whooping Cough.	Typhoid Fever.	Tuber- culosis.	All Causes.
Jan Feby.	28 38	48 34	21 21	7 16	31 25	169 177	2023 2241 2470
March. April. May. June	42 13 20 35	47 36 30 20	18 15 13 10	$ \begin{array}{c} 12 \\ 10 \\ 13 \\ 16 \end{array} $	$ \begin{array}{c} 14 \\ 24 \\ 18 \\ 16 \end{array} $	$232 \\ 233 \\ 184 \\ 207$	$2479 \\ 2490 \\ 2201 \\ 1844$
July Ang. Sept.	5 10	19 18 25	2 0 0	21 9	13 26 52	152 172 173	2015 1912 1951
Det. Nov. Dec.	18 21 41		$1\\3\\2$	8 11 14	54 34 56	$ \begin{array}{r} 170 \\ 147 \\ 148 \end{array} $	2028 1874 2150
Total	282	444	106	144	363	2,164	25,208

THE SEWAGE DISPOSAL OF SUBURBAN HOUSES AND PUBLIC INSTITUTIONS.

By Dr. P. H. Bryce, M.A., M.D., Secretary.*

To the President and Members of the Ontario Architects' Association:

Gentlemen: It gives me pleasure in complying with your invitation to prepare a paper on some sanitary problem connected with your work, to present a paper on the title indicated, as being of extreme importance, connected as it is directly with the problem of "Pure Air in Houses," which I discussed before you last year.

As we are well aware, there is a more or less marked difference in the air of country places and of towns and cities, indicated by a small excess of carbonic acid (CO2) in the latter, and the absence of ozone, or oxygen in a nascent condition, due to the excessive presence in towns and cities of organic matters on the surface, in houses, lanes, manure heaps, drains, and so on, constantly undergoing decay or reduction to simple compounds by the action of various living organisms, especially bacteria, which utilized oxygen in their biological processes. Sometimes they find this oxygen in the organic compound itself, especially in the azotic or nitrogenous compounds, but also in the carbon compounds of a starchy character; in other, and under ordinary circumstances, they utilize the oxygen free in the air. As will be supposed, there are different species or classes of this minute form of largely vegetable life, some of which do not thrive in free oxygen and air, and some forms which live within the bodies of animals and external to them in free air as well.

To the first class Pasteur long ago gave the name an-aerobes, or microbes living apart from air, and the second he called aerobes, or those which require free oxygen for their development.

The two classes have properties differing more or less from one another, one especially peculiar to an aerobes being the liquefying of organic compounds by growing into these, and really dissociating their solids, as, for instance, gelatine, forming, of course, by-products during the process. both of gaseous and liquid character. The constitution of these chemical compounds varies; that of the gases being principally CO2, H2O, H2S, and many highly organized volatile compounds, such as those given off by the breath of man and animals, those from the many foods and fruits, which develop during their mellowing and decay, and especially the extremely unpleasant emanations given off from putrefying meat, fish, and the solid wastes, which pass off to the sewers as excreta, and kitchen and house wastes of every sort. It is a fortunate fact that the products of aerobic decomposition are less disagreeable and injurious than those from an an-aerobic decay, since such are those which are most constantly exposed to air from surface decomposition of outside matter everywhere. With these preliminary rmarks, it will be easy to see something of the nature of the problem to be dealt with in disposing, safely and conveniently, of the house wastes which go by the name of sowage, or those matters which are conveyed by water into underground pipes or sewers.

It is the experience of every local health officer, and a source of constant difficulty to the Provincial Board of Health, that in those towns where a sewerage system does not exist, and in many houses in the suburbs of towns, even where such systems are, in rural districts, and in the large temporary summer resorts, hotels and cottages, the problem of what to do with excretal

^{*} Paper read at the annual convention of the Optario Architects' Association.

matters, both animal and vegetable, has been everywhere, if not difficult, yet the most constant one which the Local Boards have to deal with in the matter of nuisances, and which, in many cases, proves the most constant danger to the household immediately interested, and where streams or lakes are polluted, not unfrequently has become the occasion of some sudden and serious outbreak of typhoid fever or diarrhoeal disease. The fact that 253 examinations of water were made during the past season by the Provincial Halth laboratory shows that the causal relationship between polluted water and typhoid and diarrhoea is well recognized, and general observation, as well as laboratory work, is quite agreed as to the direct connection between such pollution and some accumulation of decomposits of animal or vegetable matter. Privy vaults, deep pits, or cesspools, constant contamination of the area around the house pump with kitchen washings, and slops of every kind, hotel stables and barnyaids, soakage from slaughter houses, the wastes from cheese factories and creameries, and the heaps of refuse from canning factories, and indeed every kind of manufactory in which organic products are used, may become direct means of pollution to wells and sources of public water, aud many are, moreover, the cause of serious injury to health from their creating effluvium instances.

Now, perhaps, gentlemen, as it may be only occasionally that as architects you are called upon to deal with more than one of these sources of ill-health, viz.: this one of the disposal of house sewage, including excreta, kitchen and chamber wastes, in places where there are no public sewers, it is most essential than some general principles should be laid down and acted upon, with a view to the safe, economical and aesthetic method of disposing of such organic wastes.

Probably every one here accepts the theory that in the economy of nature nothing can be lost, or that matter is indestructible, and perhaps all will, in a general way, agree that whatever is yielded by the soil, as, for instance, the potash, phosphates, ammonia, and so on, which are contained in the grains and other fruits of the earth, should be given back to Mother Earth for her goodness to us. So, in spite of man's foolish waste and ignorance, they ultimately are returned to her, but at an enormous cost of time and energy. Carried to the sea, sewage will form deposits ultimately forming new land, or in solution will become the food of microscopic vegetable forms of many species of the deeper ocean planthon, and of the larger plants of the ocean littoral, which in turn become the food of the microscopic infusoria, and finally the food of fishes, molluscs, and other sea animals, and so is brought back finally as food to man. Were we intelligent and careful, we would see to it that not a single pound of organic waste matter is allowed to decompose out of its place: in other words, to so act as to return to the earth every ounce of C, H, O and N, which taken from the humus or upper layer of soil, is year by year being used up by cultivation, and must be returned there, if fertility of the soil is to be maintained.

As, however, it is found in practice in most parts of this country that there is a lack of appreciation of the manureal value of such materials, and that the adoption of what is known as the dry-earth system in houses and institutions has not proved free from objection, owing to neglect to supervise it carefully, owing to its cumbersomeness, and as, moreover, it does not do away with either the need for water pipes, and a supply of water being laid on in the better houses, or of the need for disposing of the kitchen and chamber wastes, in any case it is evident that the growing appreciation of modern 'conveniences in houses is demanding some systematic method for dealing with all house wastes, whether for kitchen or closet by the water-carriage system.

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I propose, therefore, to indicate how in practice such a system may be established, at once efficient and economical. In the Annual Report of the Provincial Board of Health for 1898 a chapter is devoted to "The Biological Principles Involved in the Purification of Sewage," which to those interested will be found to contain a very full discussion of the scientific principles of this whole matter. There will be found a table giving the average analysis of town sewage. While probably less concentrated than the sewage of a single house, since it would contain water from factories, from sub-soil drainage, and so on, yet it will very well serve as an illustration of the contents of sewage. It is as follows:

(1) Solid matters in suspension-

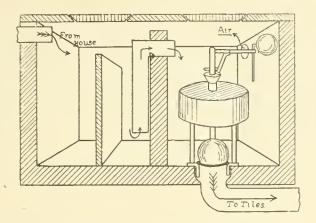
(a) Organic		
Total	66	44
(a) Organic		
Total	" ould yield:	•

Total solids.	Solids in suspension.	Chlorine.	Free ammonia.	Albumenoid ammonia,
1,428.0 parts	428 0 parts	120.0	50.0 parts	10.0 parts

Assuming what is in experience ample, 20 gallons per head per diem of sewage, it will appear that for an ordinary dwelling, with 10 inmates, with a water supply laid on, there will have to be disposed of daily 200 gallons. By reference to the analysis, it is clear that half the organic matter, or that in suspension, could easily be removed by any crude filtering method, as by a screen, a grit chamber, or even by passing over coke or some readily destroyed material, should it become clogged.

Assuming, however, that all the material's are carried to a common receptacle or tank at the end of the house sewer, there will be deposited daily 8,000 grains of organic matter, whether suspended or in solution, and 12,000 grains of mineral matter, or altogether some 3 pounds, of which two-fifths is organic, or is capable of undergoing decomposition, most of which will gradually be carried away when dissolved in the 200 gallons of water daily passing into the receptacle, the balance of carbon gradually being deposited in the tank. Of the mineral matter 50 parts are in solution, as potash, lime and other salts, which will likewise be carried away in the water. It thus appears that some 100 grains of insoluble mineral matter will deposit in the tank daily, with small amounts of carbon, or in 365 days for such a household not more than 10 pounds of mineral matters will have accumulated. That such is true may readily be proved by anyone caring to make the experiment, as I have done, that such a tank at the end of a year has not had a total deposit of solid matter, greater than can be held in a half-bushe' measure. If the balance, then, after decomposition, is capable of being carried along with the 200 gallons of water daily, it is clear that nearly all of it is capable, like any other soluble material, of soaking away into the soil with the water, if the conditions are favorable.

I have had drawn up for your inspection the diagram of a tank, which is intended to deal with such materials in a way to give the organic matter an opportunity to decompose, the water carrying the soluble materials being gradually removed from the decomposing tank, which we may call the septic tank—the word septic meaning putrid or decomposing—to a second tank, whence it may be discharged by a simple apparatus, at such intervals as may

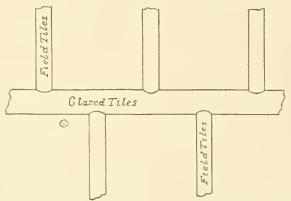


be found practical to produce the best results. The question then arises: In what manner can we dispose of this organic matter in solution, conveniently and in such a way as will not create a surface nuisance, or a pollution of ground water? Let us assume that by a series of sub-surface tiles, laid in a proper manner, we can distribute the 200 gallons over an equal number of feet of surface. It is plain that each square foot would receive 1 gallon of water daily. As soils vary in their capacity for water, from a coarse sand which will hold in its interstices not more than 25 per cent. of its volume of water, to a tenacious clay, which holds 75 per cent. of its own volume of water, it is apparent that if one gallon of water were poured on the surface of a cubic foot of dry soil, there would not be any water leaking away from the bottom of even a coarse sand, since a cubic foot of water equals 6.25 gallons: so that it requires 11/2 gallons to be poured on such foot of dry sand before it legins to drain away from the bottom. A dry clay would hold three times as much before it began to leak. In practice it will be seen that two four-inch tiles, laid side by side, would distribute such water fairly well over the surface of a cubic foot of earth; and also that the water contained in them soaking out of the open joints and pores of the tiles, would rapidly dispose of the small amount of water received by each tile daily. In practice it is found that in any ordinary porous sandy soil or sandy loam, tiles filled twice daily will rapidly dispose of the charge of soluble sewage poured into them; and, lifting up tiles after several years' use, I have found them lined only with a fire stain of black carbon, the volume of the tile not being materially lessened. I have further found that even heavy clay soils, with an occasional underdrain, have been quite adequate to dispose of the amount of sewage poured into them from an institution of 125 inmates.

It may be proper now to briefly describe the method of construction of such a system of tanks and sub-surface tiles. As in any system of house 'sewerage, it is convenient to arrange all the fixtures so as to discharge into one soil pipe. These being brought out beneath the ground floor through the foundation, or, if the house be on a hillside, it may occasionally be possible to bring them out under the cellar floor, so that the washtubs there may be discharged into them—if this unsanitary place for the laundry be adopted —the soil-pipe will be led to the top of a tank made of brick and cement in THE REPORT OF THE

a mauner similar to that shown in the diagram. If most convenient, this tank can be built directly against the house to save iron pipe, and to prevent its appearance on the lawn, since, as will be seen in a moment, it is necessary that the discharge pipe of the tank on level ground be not more than a foot beneath the surface. The capacity of this tank in the case we are discussing will be such as to hold in each compartment 100 gallons, to be discharged twice daily. It will be seen, therefore, that a compartment 2x3x3 feet will nicely hold 100 gallons, or a tank of interior measurement, 4 feet long by 3 wide and 3 deep, is adequate for two compartments, each holding 100 gallons.

The arrangement of the interior of the tank is shown in the diagram. As in all sewage tanks, the plan is adopted of having several divisions, the sewage becoming less dense as it passes from one to the other, thereby aiding to make that discharged from the valve chamber as thoroughly liquid as possible.



It will be seen that from compartment No. 1 to No. 2 the fluids are drawn off by an overflow pipe from about midway beneath the surface, since at the bottom will be found sediment, while the whole surface is covered with the decomposing matter, which appears to the eye a solid mass, but is really the organic material kept floating by the contained gases of decomposition. The liquids which pass over, of course, contain a large amount of organic matter in solution, being composed especially of ammonia (NH3) and carbonic acid (CO2), combined as ammonium carbonate with the sulphur compounds as ammonium sulphide. These are held in the second compartment until 100 gallons have accumulated, at which moment the flush valve operates automatically, and discharges in a minute or two the contents of the tank into the sub-surface tiles. It is apparent that the size of the tanks may be made such as to deal with 1,000 gallons quite as readily as with a 100.

The sewage thus discharged must, it is evident, be carried to tiles so laid that each tile will get its own share of sewage, and no more. It is apparent that with a rapid discharge the tiles laid on an exact level will each receive this amount, if together they hold exactly 100 gallons, provided the air which is in them be displaced. It is found in practice that in a loose soil the air from tiles laid near the surface readily gives place to the water, if discharged under the head in the tank. Where the soil is level, as of a lawn or garden. It is apparent that the matter is a simple one. If on a slope it is equally apparent that some careful detail work will be necessary in order that the tiles may, at the same time, be kept at the same depth beneath the surface, and also receive each its own share of sewage. To complete the description of the tank, it is apparent that as some gases, in excess of what are in solution, may be given off into the space over the sewage, it will be necessary to prevent them from accumulating, and forcing theniselves through the cover of the tank. This is obtained by making the cover of rough boards, and if thought proper, they may again be covered with earth and sod. The gases, if any pass outward, will be absorbed by the soil. In addition to this, however, it is necessary to provide for the ventilation of the tank. This is done by a 4-inch goose-neck leading from the distal end of the tank, which admits cold fresh air, and thus will displace the warm gases of decomposition, which are carried up through the soil pipe to be discharged above the roof, as in ordinary house plumbing in cities where the separate sewerage system is in operation. It may be asked, what ultimately becomes of the organic matter carried away in solution? In reply I would say that through the action of the microbes of the soil the ammonia salts are rapidly nitrifiedthat is, are changed into nitrates or nitric acid, which at once combines with the lime and potash salts of the soil, and thus has become a neutral salt in a condition to act as plant food for the grass or vegetables growing above it.

The following table by W. D. Scott Moncrieff, from the Ashstead, England, experiments, 1895, illustrates the change:

Effluent from cultivation tank.

Chlorine.	Free	N. Oxygen	Nitric	Total	Total N.
	N. H. 3.	Consumed.	Nitrogen.	Oxidized N.	of all kinds.
9.0	12.5	10.3 9,843	0.12	0.12	12.46

From final filter tray after complete nitrification.

7.5	0.25	02	0 58	9.0	9.0	0.6
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As the tank arrangement from which these experiments are taken was essentially a tank of this kind, except that, instead of the microbes of the earth to do the work, Moncrieff had arranged a series of artificial filters, holding pieces of coke, over which the sewage from the septic tank flowed, by which means the liquids for analysis could be obtained, there is nothing different in principle to the system we are discussing.

Little more need be said, I think, to make it clear that in these results of the study of biological processes, which convert organic matter back to its original constituents, we have not only a practical lesson of how to apply science to our every day needs and convenience, but we may also see how economical is Nature, and how wholly wise in her operations if she does not have man attempting, in his ignorance, to violate some of her primary laws. To me it daily seems more true, the more that I try to comprehend the meaning of the processes of Nature in this fine old world of ours :

"That nothing walks with aimless feet, That not one life shall be destroyed, Or cast as rubbish to the void. When God hath made the pile complete."

PART III

ANNUAL REPORTS OF LOCAL BOARDS OF HEALTH.

REMARKS ON THE REPORTS OF THE LOCAL BOARDS OF HEALTH

There have been received up to date the reports of 675 municipalities, and of this number only 122 Medical Officers of Health have forwarded their reports upon the sanitary condition of their several municipalities.

The return of cases and deaths from contagious diseases in the 675 muni cipalities is given in table A, page 172; but from the statements of the several clerks it is quite apparent that the number of reported cases is much smaller than the actual number which have occurred, there being in many of the rural municipalities a lack of care on the part of both physicians and householders in notifying the local authorities. That such is the case is quite evident from the discrepancy which occurs between the number of notified cases and deaths under the group "Tuberculosis"; the fau'lt is doubtless in a large measure due to the neglect of the Local Boards to furnish both medical men and school teachers with printed forms for this purpose, only 30 per cent. of the municipalities reporting stating that the system is in operation. If Medical Officers of Health would see to it that the law is complied with in this regard, our statistics will be of greater value, and the pubne receive better protection, since in 65 per cent. of the municipalities systematic isolation of these diseases is now carried out, and with better notification there will necessarily follow a quarantining of many cases that heretofore have been a danger to the communities in which they live. The notification is the actual forerunner of systematic isolation, and both are of equal importance.

Perhaps in connection with this important question of notification, and one which must receive the serious consideration of Boards of Health generally, is the necessity which exists for isolation hospitals for the care of infectious diseases. At present something less than 10 per cent. of municipalities have any provision whatever for cases of scarlet fever, diphtheria, or smallpox, and none whatever have any accommodation for the quarantining of exposed persons. To wait until the necessity arises seems to be the principle which actuates Local Boards. This temporizing policy can only result disastr usly. Indeed, this year several examples might be instanced where, although repeatedly warned by the Medical Health Officer to prepare a building before an outbreak has happened, large numbers of houses have been placarded, to the great injury of the trade of the place, and the outbreak has been nearly over before the isolation hospital has been in running order. A number of the towns and townships have very wisely provided themselves with the double-walled tents for this purpose, and for small places and rural districts they offer an economical and efficient means of isolating either the cases or suspects. Their portability is another advantage in the case of townships. The Isolation Hospital erected by the City of Ottawa for the treatment of cases of diphtheria and scarlet fever is a valuable addition to

this class of institutions, and cannot fail to be a means of preventing the **spre**ad of these diseases in the capital. Both in internal arrangement and external appearance it ranks as one of the best in the Dominion, and the Local Board of Health is to be congratulated on its completion.

It is very gratifying to notice the increase in the number of municipalities where disinfection after contagious diseases is carried out under the supervision either of the Medical Health Officer or the sanitary inspector That in more than half the municipalities this important measure is carried on systematically is of itself a guarantee that the spread of these diseases has been materially lessened. To still further lessen their spread, it is urged upon all Local Boards of Health that they provide each medical practitioner practising within their several municipalities with blank forms on which to report such cases, in conformity with section 17 of schedule B of the Public Health Act, and it is most important that both Medical Health Officers, and Secretaries of Boards, see that the law is carried out in regard to this most important matter. In their annual reports many medical officers state that they " have reason to believe that considerable laxity exists regarding the reporting of infectious diseases."

Apart from the widespread outbreak of smallpox, which has been of a severer type than in former years, there have been no very serious epidemics. The type of scarlet fever which prevailed during the first three-quarters of the year, was extremely mild, but in many instances became very malignant during the last three months. The reports which continue to be received point to the fact that its malignancy is rather increasing than diminishing.

There have been reported outbreaks of mumps, measles, and whooping cough, but with the exception of that in the Township of North Oxford there is but little to note. In this township the Medical Health Officer reports that there were hundreds of cases of measles of a severe type, many adults being attacked, and "almost everybody who was not immune took the disease, which in many cases was complicated with bronchitis or pneumonia."

A pleasing feature of the reports is the decrease in most municipalities of enteric fever, and in all of diphtheria. The first was marked by a mildness in type, and the latter, by the general use of antitoxin in both as a curative and a prophylactic measure. The Town of Port Arthur reports 209 cases of enteric fever, with 11 deaths : but it is only fair to state that a num ber of these cases, no doubt, came from the surrounding district for treatment in the hospital, thus reducing the total number among the townspeople. Another place where the disease was very prevalent was Sault Ste. Marie. The number of cases was very large, but in the absence of definite information we can say nothing. A report was made on the condition of affairs in the early fall by the Inspector of this Board, who attributed the outbreak to polyution of the wells and springs by surface drainage.

During the year there has been some progress made in regard to notification of and disinfection after cases of tuberculosis, and a number of the Medical Health Officers have recommended action along these lines, and it is apparent that the time is not far distant when such wise measures will become general, and as much or greater care will be taken to notify, isolate, and fumigate in this diseases as in any other of the group.

The most important preventative measure which Local Boards of Health have overlooked to enforce, through their municipal councils, and on the neglect of which has cost many a municipality thousands of dollars during the past three years, is that regarding vaccination. The situation can be best illustrated by the following extracts from the Medical Health Officers' reports. "I find very few of the inbabitants under 25 years old who have been vaccinated."

"No general vaccination for some years." "The law of Ontario which requires vaccination of all children attending school has remained a dead letter." Vaccination although made obligatory on all residing in this municipality is, I am corry to say, almost universally ignored.

and in reply to the question, " are new school children vaccinated," not 10 per cent. of the reports reply in the affirmative. There is, then, but little wonder that smallpox has made so much progress in some sections of the Province, and in ivew of this serious neglect to protect themselves, municipal authorities have in some instances had heavy accounts to pay.

While the interest taken in the proper methods to be adopted in the case of tuberculosis, whereby its spread may be prevented, is very general, as yet there is no systematic notification, and only in a few instances have Local Boards taken any precautionary measures. The Town of Petrolea carries out disinfection in cases of tuberculosis, under supervision of an officer of the Board.

The adoption of some simple rules which would be applicable in most cases would be of material assistance in preventing its spread. These rules should be made applicable to workshops, factories, and schools, if the work is to be done thoroughly.

The reports of the Medical Officers of the rural districts speak very favorably of the marked improvement in matters of domestic sanitation, as they concern the farm house and its surroundings. It is a subject well worthy the attention of every Local Board of Health, and one, once instituted, cannot fail to be appreciated by all (a hint from the beneficial results to personal health). The following are a few extracts on the subject :

M.H.O., Tp Derby :--" The voluntary compliance by the public to the matters of domestic sanita-tion is a subject of congratulation." M.H.O., Etobicoke :-- "I am pleased to state that the people are every year paying more attention to the sanitary condition of their premises, and a better condition of the public health is the resu't." M.H.O., Antrim :-- "For some years our board has given energetic attention to the sanitary condition of the township and I am pleased to say it is meeting with very satisfactory results indeed."

What these townships are doing and have done every similar Board can do, and should do at once.

Two very important matters yet remain to be touched upon, viz., the inspection of dairy cows and the licensing and inspection of slaughter bonses. From the returns received it is very evident that some municipalities pay but little attention to either. The importance of agriculture both to the dairyman himself and the general public is very great and far-reaching, and it should be the aim of Local Boards of Health to maintain the standard, as high as possible, especially in view of the fact that the industry has reached such a degree of importance in the Province. The subject of slaughter-house inspection is only secondary in importance, but can the more readily be handled on account of the small number of each in a municipality.

The reports of the Medical Health Officers of the towns of the Province show that progress is being made in sanitation generally, and it is particularly gratifying to notice that in many instances these officers anticipate the public wants by suggesting either the introduction of waterworks, the establishment of sewerage systems, or the erecting of isolation hospitals. Others, again, draw attention to the need for a scavenger system.

As the reports of the cities of the Province are published in detail, no reference need be made thereto.

The general outlook is most satisfactory, from a sanitary standpoint. There is every evidence that the public is appreciating the need for sanitary reforms, as provided for in the Public Health Act, and year by year they are bettering the conditions of both our rural and urban districts.

BRANTFORD.

Report of the Medical Health Officer.

Brantford, Nov. 1, 1902.

To the Chairman and Members of the Local Board of Health :

Gentlemen,—1 herein submit to you a report of the Sanitary Department for the year ending October 31st, 1902 :

Mortuary Statistics. The number of deaths, exclusive of still births, recorded for the period of this report was 245, which in a population of 17,021 gives a mortality rate of 14.33 per thousand.

Among the causes of death we find : Typhoid, 4; diphtheria, 12; tuberculosis, 36; pneumonia, 24; meningitis, 7; cholera infantum, 4; all other causes, 158.

It was also noted that regarding ages of death, 42 were under 1 year, 71 under 5 years, 61 over 60 years, 16 over 80 years of age.

Typhoid Fever. With regard to typhoid fever, during the past year we have been fortunate in having the lowest number of cases for the past six years, viz., 43 cases, with 4 deaths, and, as compared with last year, when 67 cases, with 7 deaths, were reported, it is quite a gratifying record.

And taking into consideration the water supplies as a factor in the disease, it was found that, notwithstanding the benign influences of the abundant rainfall, etc., of the past summer upon the wells, it was from this source, particularly in the unsewered portions of the city, that our typhoid occurred, viz., of the above 43 cases, 27 were well, 7 well and city, and 9 city water users; of the latter, in the majority of cases, extreme local conditions, such as bad drainage, etc., were present.

I think, therefore, the above facts urge upon us the necessity of not only abolishing all wells, but that the lower and undrained portions of the city should be supplied with public sewers.

Scarlet Fever. During the past twelve months 37 cases of scarlet fever, with no fatalities, occurred, infecting in all 29 houses. The cases for the most part have been extremely mild, as the absence of any deaths would indicate.

Smallpox. Two cases of mild smallpox occurred during the fore part of the sanitary year, one having as a source of infection a case reported in last year's tary year, one having as a source of infection a case reported in 'last year's records, the last being from a patient who contracted the disease in the neighborhood of Jarvis, in the Township of Woodhouse, and who visited here when he developed the disease, but returned to his home before it was known what he had. Both the above cases ran the ordinary course and made good recovery.

Measles, Chickenpox, and Whooping Cough. Of the above, 37 cases were recorded at the Health Office, with two deaths, one of measles, the other of whooping cough.

Diphtheria and croup. Of diphtheria and croup we have had, after two or three years of comparative freedom from the disease, during the past year 72 cases, with 12 deaths, the cases occurring for the most part sporadically, with but few cases of any history of direct source of infection from pre-existing cases. Particularly has it been noticed that adults were largely in this class of cases, while the deaths were amongst the infantile class, most of whom had the laryngeal type of the disease.

The cases for the most part have occurred in the lower lying portions of the city, where in most instances the cellars were wet and buildings damp, which was undoubtedly an active factor in rendering patients susceptible to the invasion of the bacillus, which not infrequently exists in healthy throats, awaiting a proper condition for development, and which, I believe, in not a few cases of unsuspected sore throat is the causative factor, and, in not being brought to notice, frequently spreads the infection again, from the variable time the baccilus remains in the throat after the disappearance of the membrane in patients isolated. A stated period of quarantine is not always satisfactory. This brings up the advisability of a laboratory, in which a bacteriological examination, both of suspects and convalescents, should be made to determine the wisdom of their mingling with the public. Now, as I have before brought this matter before you, and as the above is only one of the many needs for such a laboratory in connection with the Department, I am quite sure you will agree with me that the advantages that will arise from it will more than compensate for the outlay, which I must say is an absolute necessity to the office.

Gerbage system. In the matter of garbage system, I feel that the Board is of one accord, and realize its necessity both as a public convenience and a public safety, and I would once more recommend that the Board urge upon the City Council its views in the matter to have it established and put in operation at the earliest possible date.

Isolation Hospital. As the province of this Board has in matters relating to contagious diseases much in common with the administration of the Isolation Hospital, and more particularly with the indigent class of patients, for whose treatment the hospital is largely required, and for the medical care of which some provisions are necessary, therefore, since the responsibility of this matter affects both this Board and the hospital, I think that for the mutual advantage of both some one should be appointed to attend to this matter at the earliest convenience.

All of which is respectfully submitted for your consideration.

I am. your obedient servant,

T. G. E. PEARSON, Medical Health Officer.

Report of Sanitary Inspector.

To the Chairman and Members of the Local Board of Health:

Gentlemen: The following is a brief report of the work performed by your Sanitary Inspector during the past twelve months:

161 inspections of premises for contagious diseases, and serving 109 notices upon schools, churches, and library in connection with the same; 160 sewer notices were served, and inspections of the work from time to time, to see the progress of the work, of which 90 are now complete, 70 not yet attended to; 64 complaints for general nuisances were investigated, and the cause removed.

Besides the above, with the taking over of the night soil contract by the city, I had to visit in all about 4,000 premises to find out the sort of closets in use, over 3,000 of which were dry earths and 150 pits. All the latter I have had cleaned and abandoned, except where they comply with the requirements of the law. Since the 1st of February I have had to look after the cleaning of all these closets, and furnish the city clerk with a complete list of them. Since the beginning of the year about 100 have been abolished by the parties owning them making sewer connections, while about the same number have been added through the building of new houses where sewers are not to be had. During the year the dairies have been inspected, and about 30 milk permits granted.

I have also, from time to time, collected samples of milk from the different supplies to be tested, and assisted in the testing of the same.

All of which is submitted for your consideration.

I am, your obedient servant,

(Sgd.) J. A. CHAPMAN, S. I.

STRATFORD.

Report of Medical Health Officer.

To the Chairman and Members of the Local Board of Health:

Gentlemen: Appended you will find report of Sanitary Inspector Durst, which will give you a statement of the sanitary work done during the year.

The citizens have much to be thankful for, for scarcely in the history of the city has it been so free from contagious diseases, as in the last year. Only two cases of scarlet fever and one of diphtheria were reported since last April.

The case of diphtheria was brought in from a neighboring city, but by careful watching and isolation, no other cases developed.

Not a single death has been recorded from scarlet fever or diphtheria. Two deaths occurred during the year from whooping cough, and one from typhoid fever. Consumption again heads the list, 14 deaths being reported as occurring from that disease. In 1901 there were 10 deaths, in 1900 10, in 1899 12, in 1898 13 from that disease, a slight increase over the previous years, or, taking the entire number of deaths, one out of seven died from that disease.

In a previous report I mentioned the steps that were being taken towards the erection of a hospital for the treatment of those suffering from consump tion. I am pleased to state that steady progress towards that end is being made.

No further steps have been made towards the erecting of a place for treating contagious diseases. Advising, entreating or soliciting seems to have no avail.

Continued progress is being made in the sewage disposal works, and the laying of sewers. The active chairman keeps up his usual zeal and vigor.

Your obedient servant,

J. A. ROBERTSON.

Sanitary Inspector's Report.

To the Chairman and Members of the Local Board of Health:

Gentlemen: I have the honor to submit to you my Annual Report of the work done during the year, ending October 31st, 1902.

I had the usual number of health notices posted up in the month of April, and had one clause calling attention to the letter box at the health and relief office to leave any notices or complaints to be looked after. There were in all one hundred and fifty-four notices left, which were all promptly attended to.

Inspected all cellars in business part of city, and note quite an improvement in the majority of cellars; but there are still a number of merchants where I had to call repeatedly to have thorough cleanliness enforced. Had considerable trouble with lane on north side of Ontario street, east of post office, partly on account of so many repairs to buildings and change of tenants, and also to the weather being unfavorable, which caused considerably delay in removing rubbish.

I placaded, in all, nineteen dwellings during the year for contagious disease, eight of which were for diphtheria, and eleven for scarlet fever; all of which were thoroughly disinfected. Also all dwellings where persons died from consumption were thoroughly disinfected.

In company with Medical Health Officer Robertson, I inspected the milk supply of the city, visited all dairies, inspecting all cows as to general health, and barns and surroundings as to cleanliness and ventilation; took samples of water from wells where cattle are watered, and also that used for washing milk cans.

Collected samples of milk whenever called upon to do so by Medical Health Officer Robertson, reports of which had been in the daily papers at the time.

Inspected all back yards, lanes, and alleys, and had accumulation of rubbish there removed, and in general, enforced all regulations of the Health Act.

All of which is respectfully submitted.

Yours obediently,

GEO. DURST, Sanitary Inspector.

Stratford, November 17, 1902.

LONDON.

Report of Medical Health Officer.

To the Chairman and Board of Health:

Gentlemen: In presenting my annual report, for the year ending November 15th, I have to repeat what I said in last year's report as to the very satisfactory condition of the city's health. Five hundred and seventy four deaths occurred during the year, exclusive of 34 still-born, which are not counted in mortuary statistics. Consumption, as usual, carried off the largest number, viz.: 65, as compared with 48 last year, and 60 the year before. Pneumonia, also a disease of the lungs, comes second in the list, with 48 deaths. Leaving out what is called heart disease, which may mean anything, organic disease of the heart caused the deaths of 43 persons, and cancer, 29. There were 18 deaths by violence, of which two were suicides. There is a very satisfactory and comforting increase in the number of deaths from old age, siz.: 36, from octogenarians to the century mark. The number of deaths due to infectious diseases is comparatively small, viz.: 25, as follows: Diphtheria, 20; typhoid fever, 3; measles, 2, and none whatever from scarlet fever. This is a very low death rate from what is called preventable diseases for a city of London's population, and breaks the record for typhoid and scarlet fever. It is especially so when the difficulties contended against are considered. Many parents show an utter disregard of the golden rule, allowing their children, while convalescing from mild forms of scarlet fever, to mix with other children; send them to stores, and sometimes to school. Placarding a dwelling is a notice to the public to keep away from that dwelling, and that the inmates must remain at home, but there are cases where it would require the establishment of a "peaceful blockade," by a police

constable, to effect complete isolation. Some of the city physicians are equally culpable, for they, knowing the requirements of the Public Health Act, at the solicitation of the parents, do not report all the cases coming under their notice. Although there were no deaths during the year from scarlet fever, there was an unusually large number of sporadic cases of a mild type, many of them due to the carelessness of parents and neglect of physicians. Hereaftêr physicians and householders neglecting to promptly report all cases of infectious diseases, in accordance with the Act, will be given opportunities in the police court to explain why they did not do so.

The death rate for the year is 14.6 in the 1,000.

One hundred and seventy-eight herds and dairies were examined during the year. One cow was found with actinomycosis bovis (lump jaw), and destroyed. An examination of 161 samples of milk gave an average of 4 per cent. of butter fat; 2 samples had cream added, and 2 cream removed. The average shows that London is being supplied with good milk. The public ice supply comes from the same sources as allowed by the Board a few years ago, and has been of fairly good quality; that obtained from the Cove being sold for cooling purposes only, and so far there is no evidence that it has heen used in any other way.

No improvement has been made in the Covent Garden Market. The building should either he put in proper condition, or town down.

Several complaints were made during the year that the Talbot Street School is not in a sanitary condition. There were bad odors in the school at times; especially was this the case upon reopening the school in September, after the holidays. This school is heated and ventilated by the Smead Dowd system, and as long as the doors and windows are kept closed, the furnace and stacks will both heat and ventilate. But these large furnaces can only be used in the winter. For ventilation when the furnaces are not in use, also for the destruction of waste material, two small stacks are kept burning during the summer, and accomplish what they are intended for. During the holidays these are not kept burning: consequently, when the school opened in September, one or two weeks elapsed before all waste matter was rendered inocuous. This is the way the Smead system works, and it can work no other way. It will heat buildings well, but for ventilating purposes it is not safe. So far as the Talbot Street School is concerned, I do not think there will be any further trouble, and the janitor is a very efficient one. Traps have also been put in the water pipes.

The last two cases of smallpox were discharged from the isolation hospital in February last. No epidemic visited the city during the year.

The population of the city, according to the Assessment Commissioner returns, is 39,265.

T. V. HUTCHINSON, Medical Health Officer.

ST. CATHARINES.

Report of Chairman of Local Board of Health.

To the Mayor and Council of the Corporation of the City of St. Catharines: Gentlemen: I have the honor to submit my report on the sanitary con-

dition of the city, for the year ending the 15th day of November, 1902. Contagious Diseases. We have been remarkably free from

Contagious Diseases. We have been remarkably free from contagious diseases and zymotic diseases during the past year, as will

be seen by consulting the accompanying report of the Secretary of the Board. There was one case of smallpox which developed it self here, having been contracted in the city of Cleveland, Ohio. The house in which the disease occurred was, fortunately, rather isolated, and was, in consequence, more easily quarantined. His Worship the Mayor, in order to meet the emergency, appointed Dr. R. H. Smith, who held the position of Medical Health Officer during the existence of the three cases of smallpox last year, to take charge of the case; and the Board of Health stationed sanitary guards near the premises containing the patient, to prevent unauthorized ingress and egress. Three inmates of the house were exposed to the contagion, but they were successfully vaccinated, and none contracted the disease. The result was satisfactory, so far as accomplishing the result sought for was concerned; but a good deal of expense was incurred, as the family had to be sustained by the city, and the bread-winners confined to the house until all danger of spreading the contagion was obviated. It is earnestly to be hoped that the council, both on financial and humanitarian grounds, will take steps to secure a building for the housing and treatment of contagious diseases, at as early a date as possible, inasmuch as the city is liable at any time to be subjected to the invasion of smallpox, from outlying localities, where it often exists in an epidemic form, owing to neglect on the part of the sanitary authorities to take and maintain proper precautions.

Flush Tanks. Two flush tanks have been installed this year—one on Welland avenue, near Napier street : the other on Wellington and Lake streets, near the Simcoe Canning Factory. Both of these tanks, as well as those in other parts of the city, have been recently examined by the Sanitary Inspector and Mr. O'Neill, and have, without exception, been found to be in good working order.

Water Supply. I had the pleasure of examining the source of the water supply of the city, through the kind invitation and courteous hospitality of the Water Commissioners. I was much pleased to observe the marked improvements they have effected in the surroundings of the upper and lower reservoirs. I particularly noticed the inlet of the water at Higgins' flume, and am convinced that the method adopted there to properly aerate the supply as it passes from the canal through the flume, is as efficient as it is simple, and that it must serve, in a measure, to oxidize and neutralize the objectionable and unsanitary characteristics of the organic matters which the canal receives between Port Colborne and the intake at the flume. It is greatly to be desired that the Water Commissioners should be placed in a position to enable them to make the necessary alterations by which to accomplish the thorough cleansing of the lower reservoir; as it contains, under cover of the fresh and pure-looking water, a dense substratum of black, foul smelling, organic debris, in a state of decomposition, which it would be unsafe to disturb until connections can be made to supply the city with water from the upper reservoir.

Anti-tuberculosis. The recent and very important medical congress in Berlin, Germany, for the discussion of the best methods for the prevention and cure of tuberculosis, should stimulate all sanitary and municipal authorities throughout the civilized world to take precautionary measures to guard the public against the causes which lead to its inception and development, both in men and lower animals. It is a source of satisfaction to find that the steps taken by our Council and Local Board of Health, to make the practice of spitting on the sidewalks and in public places punishable. were recommended for universal adoption. The dissemination through the atmosphere of dried

tuberculous sputa is now recognized as one of the most fertile sources of tubercular infection; and the course pursued here, of stamping on telegraph and trolley poles throughout the city the prohibition of the practice of promiscuous expectoration, will, if the police do their duty, prove an un-doubted benefit, and a safeguard to our citizens. The efforts being made by the Council to utilize the borrowing powers, obtained from the Local Legislature, for the construction and maintenance of good roads, and the extension of our sewerage system, are to be highly commended. Should this privilege be granted, the results cannot fail to be beneficial, from a sanitary point of view, as it will enable the Council to take steps to abolish the unwholesome latrine vaults, of which constant and quite justifiable complaints are being made to the Local Board of Health by citizens in certain residential sections of the city, where this malodorous nuisance more extensively prevails. It is gratifying to notice the very marked reduction in the number of deaths from tuberculosis during the current year. Twenty-five deaths from tubercular disease having been reported for 1901, and only 18 for 1902, a difference of nearly 30 per cent. in favor of this year, such a marked improvement must, in a great measure, be due to improved sanitary surroundings and greater precautions, both public and private, to guard against contagion. The hospital authorities are to be commended for the steps initiated, at the recent meeting of the trustees of that most excellently managed institution, to provide accommodation for the reception of persons suffering from contagious diseases. The total number of deaths recorded during the year within the city limits was 162. Deducting from this number those inmates of the hospital from outside localities who died here, and also those who died from old age, premature birth, accidents, and suicide, I find that the rate of mortality per 1,000, based upon a population of 10.590, is 12.18, which I consider to be a most satisfactory showing, and good evidence of the healthful condition of the city. The services rendered by the Secretary, Sanitary Inspector, and the acting Medical Health Officer, have met with the entire approval of the Board; and the limitation, both last year and this year, of the smallpox cases to the quarantined houses, is convincing proof that all the sanitary officials performed their duties in a very creditable manner.

A11 of which is respectfully submitted.

E. GOODMAN, M. B., Chairman Local Board of Health.

Report of Sanitary Inspector.

To the Chairman and Members of the Local Board of Health of the City of St. Catharines:

Gentlemen: Your Sanitary Inspector begs to submit his annual report as Sanitary Inspector to your honorable Board for the year ending November 15, 1902. And would say I have made eight houndred house-to-house visits, placarded twenty-six for contagious diseases, and fumigated six where contagion had existed. I have visited and inspected the following places: City and county cow byres, slaughter houses, hide houses, city livery and hotel stables, and canning factories, and have pleasure in saying all are well kept and in good sanitary condition. I have regularly tested the milk from the licensed milk vendors; the register has been very satisfactory, none registering below 90. The city scavengers have removed over eight hundred barrels of night soil, and performed their duties well. The city flush tanks have frequently been inspected during the year, and very recently; they are working very satisfactorily.

All of which is respectfully submitted.

A. BOULDEN, Sanitary Inspector.

E. Goodman, Esq., Chairman Local Board of Health:

St. Catharines, 15th November, 1902.

Dear Sir: I have the honor to submit to you herewith a statement of the number of deaths occurring in the city of St. Catharines, from 15th November, 1901, to the 15th November, 1902, and the causes thereof, together with a statement of the number of contagious diseases reported during the same period:

A
Apoplexy 5
Appendicitis 3
Accident 2
Alcoholism 2
Asthma I
Bronchitis 8
Bullet wound I
Broken back I
Congenital weakness 4
Cancerous affections 9
Convulsions 3
Cholaemia I
Cholera infantum I
Consumption IS
Drowned 2
Diphtheria I
Epilepsy I
Erysipelas I
Enchondroma I
General debility I
Gangrene I
Hemorrhage 5
Heart disease
Inanition 2
Inflammation of lungs I
Insanity I
Kidney diseases 5
Meningitis 4
Marasmus I
Mal-nutrition 2
ALLA HALLIGHT IN THE SECOND STREET

Neuritus	1	I
Obstruction of bowels		I
Paralysis	4	4
Paresis	1	I
Peritonitis	4	2
Placenta praevia	1	I
Pneumonia		4
Premature birth	1	I
Protracted birth		I
Rheumatism	4	2
Septicaemia		
Still born		
Senile decay	6	5
Suicide]	I
Syncope	:	2
Tetanus		
Tumor of brain		
Typhoid fever		
Ulcer		
Whooping cough	•• •	I
		-
Total	162	2
Contagious Diseases reported—		
Scarlet fever		
Measles	7	7
Diphtheria	(Ð.
Smallpox	• • 1	I
		2
Total	. 20	D

Your obedient servant,

JNO. S. McCLELLAND, City Clerk.

OTTAWA.

Annual Report of the Medical Health Officer.

To the Chairman and Members of the Board of Health:

Gentlemen: I beg to present the annual report of the Health Department for the year, 31st October, 1902.

For us it has been an eventful year, its close seeing the isolation hospital, for which your Board and my predecessor, Dr. Robillard, have so long contended, almost completed.

When completed, we shall have an institution of which Ottawa may well be proud. The urgent need of this institution is shown in the record of contagious diseases reported, the number of which has been steadily increasing, scarlet fever, especially, showing 200 cases in 1900, 391 in 1901, and 689 in 1902. It is utterly impossible to isolate the cases properly in their homes.

During the year some 309 cases of smallpox occurred, many of these coming to us from outside of city. The fact that only one case died on the is and, and that a child, which had been concealed at home until too ill to save it, speaks volumes for the care given the patients by those in charge of the hospital. Fortunately, our city is now practically free from the disease, and by thorough vaccination, we should avoid any recurrence of the trouble this coming year. Certainly our vaccination of last year saved us a tremendous number of cases, and was the chief agent in staying the epidemic.

A review of the mortality table appended shows that 1,156 deaths occurred in Ottawa during the past year, 117 less than in the preceding year. This, at the estimated population of 61,137, gives a rate, per thousand, of 18.9. As many of these deaths are of those from other municipalities, coming to different hospitals and homes for treatment and care, the actual death rate of our own population will be still lower, showing Ottawa to be a naturally healthy spot.

As guardians of the public health, it is our duty to use our every endeavor to make this rate still lower. The three most infectious diseases we have, i. e., scarlet fever. diphtheria, and smallpox, have, during the year, caused but 80 deaths all told, owing to the preventive measures put in force by your Board; while tuberculosis alone has caused 140 deaths, or ½ of the total mortality, despite the fact that it is much less contagious than any of these three, yet it has been practically ignored by us.

When we know that it is both a preventable and curable disease, and that it is the cause of so much illness and misery, I consider that this is the most important matter that can engage the attention of your Board during the coming year.

But 28 deaths from diphtheria, as compared with 65 deaths from this source in 1901, is a very pleasing feature of the report. This improvement is, I think, largely due to the more general use of the antitoxin in the treatment of this disease. It is to be hoped that the work of those aiming to develop a similar remedy for scarlet fever may soon be crowned with success.

I trust that this year will see the agitation for a civic scavenging system enccessful, as each year's growth of the city renders it increasingly urgent.

The frequent complaints received at our office in regard to defective sanitary arrangements in houses, rendered the appointment of a qualified plumber as an inspector a matter of importance, as defective plumbing is always a menace to health.

Now that we are on the eve of entering our new isolation hospital, I think it only due to those who have labored so earnestly in the two old hospitals, that I should place on record my appreciation of the splendid services they have rendered us. During this year, especially, they have been taxed to their ntmost, and everything possible has been done by those in charge to contribute to the care and comfort of the patients.

I beg also to present the report of the Sanitary Inspector, which coutains some important recommendations on the matters which have come more especially under his notice.

In conclusion, I have much pleasure in testifying to the excellent service rendered by the staff of the Department.

Respectfully submitted.

December 5th, 1902

(Signed) ROBERT LAW, M. D.

THE REPORT OF THE

Report of Sanitary Inspector.

			1										
Disease.	V.	0		ف	j.	April.	ty.	ne.	ly.	S.C	pt.	ئہ	Total.
L/13046C+	Nov.	Dec.	Jan.	Feb.	Mch.	Ap	May.	June.	July.	Aug.	Sept.	Oct.	T ₀
			1					1				1	
Abscess		1		 					 				1
Burn	1					1	1		1	1	1	1	2
Cutting throat			1										1
Drowning			1				1	3	1				8 2 1
Electricity			$\begin{vmatrix} 1\\ 1 \end{vmatrix}$				[1	••••	2
Explosion Fali		1	. L 	1				2	1	2		1	8
Poisoning		İ		i		1		1 ī	l	iĩ		î	5
Railroad				1		1		1	1	1	1		4
Shooting	1				1		1						3 5
Suffocation	1	1	1	2	• • • •					1		• • • •	1 1
Alcoboliem			1 1	3	1	1		1			1 i	1	83
Aneurism		1				1	1		1		1		3
Annendicitis			1		3	1				1			6
Asthma	1		$\frac{1}{2}$	3	2	$\begin{vmatrix} 1\\ 1 \end{vmatrix}$	4	4	• • • •			$\frac{1}{2}$	$\frac{2}{26}$
Bronchitis Cerebral abscess		0	4		ī			1					20
Cerebral hemorrhage	1		2	3		2		5	5	2		1	21
Cerebral tumor			i		1								1
Cirrhosis of liver		· · · ·		1	· · · · ·	$\frac{1}{3}$	10		$\frac{1}{5}$	9	1	$\frac{2}{3}$	$\frac{7}{45}$
Convulsions Congenital defect	8	$\begin{vmatrix} 6 \\ 1 \end{vmatrix}$	6	4	6 1	$\frac{3}{2}$	10 3	$\frac{5}{2}$	3	1	2	1	18
Croup	1	î	1								$\overline{2}$		4
Cystitis										1		1	4
Debility infantile	10	9	10	5	9	6	9	9	11	13	9	8	108
Debility senile	$\frac{5}{1}$	5	8	6	4	8	14	8	18	3	9	5	93 2
Dementia Diabetes	1	1	1	1				••••			i	i	4
Diarrhœa	4		3	4	7	4	1	6	24	29	9	4	95
Diphtheria	1	2	5	1	6			2	2	2	1	81	28
Dronsv	1.						1			••••	••••		$\frac{2}{1}$
Dysentery	3				1	••••	••••	••••		i i	1	1	6
Dyspnœa	1				1		1	1		î			5
Ectopic gestation	1												1 1
Emesis							· • • • ;			1		• • • •	1
Embolism	1	••••	••••	i	z					•••	1	••••1	3 2 2 3
Epilepsy Empyenia	1				1								$\overline{2}$
Ervsipelas	1	1		1	· · · .]								3
Exopphalmic goitre		• • • •				· · · ·	1	••••	••••]	••••	· · · ·		$\frac{1}{2}$
Gangrene	· · · -	• • • •	2	· · · · !	$\frac{2}{2}$	••••	· • • •]	·	••••	$\frac{2}{2}$	••••		5
Heart disease	10	3	10		10	2	7	6	3	5	4	6	75
Hernia										1			1
Influenza			•••••		· · · ·]	··;·¦	···;·	· · · ·	· · · · ļ	••••	1	····[$\frac{1}{6}$
Intestinal obstruction Intestinal rupture.			1	1	••••	1	1			- · • •	1		1
Jaundice						1					1		1
Malignant growth	3	6	2	5	2	5	1	7	3	3	-6	2	45
Meningitis	3	5		$\frac{2}{2}$	4	$\frac{2}{4}$	3	···	3	4	4	$\frac{1}{2}$	$\frac{31}{22}$
Nephritis.	1	$\begin{vmatrix} 1\\1 \end{vmatrix}$	3	2	4	4	••••	4	1	••••	••••	-	1
Obstruction of Oesophagus Paralysis	^{····} i	$\frac{1}{2}$	2	2		1	2	1		· i l	1		13
Pempbigus				[1		1
Peritonitis		1		3	3	4	2	••••			3	4	20 83
Pneumonia	3	6	$\frac{11}{1}$	91	$12 \mid$	9	17	3	5	2	-		1
Pneumonihopiosis Premature birth	2	2	$\frac{1}{2}$	4		3	3	····	3	5	2	3	30
					• • • • (1
Rheumatism		ļ			1			I					1
Scarlet fever	11	5	3	2	$\begin{bmatrix} 6 \\ 1 \end{bmatrix}$	$\begin{bmatrix} 5\\1 \end{bmatrix}$	4	4	2	3	1	4	$\frac{50}{3}$
Shock	$\frac{2}{2}$	·····	$\frac{1}{2}$	…!	$\begin{bmatrix} 1 \\ 6 \end{bmatrix}$	2	2	2	1				19
			_	į		į	- 1	1					1
										l	1	1	5

REPORT OF SANITARY INSPECTOR. -Con.

Disease.	Nov.	Dec.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Total.
Typhoid Tuberculosis Variola Whooping cough Unknown cause Total Exclusive of still births								1 105	1 4 98 5	110		1 12 1 82 8	22 140 4 3 2 1,156 85

	Protesta	nt annex.	R. C. a	Porter's Island.	
	Diph.	Scar.	Diph	Scar.	Smallpox.
Admitted Discharged Died	$117 \\ 105 \\ 10$	$153\\142\\9$	84 80 4	235 215 15	309 304 1

Disease, Diphtheria .	Number. 234
Scarlatina	689
Smallpox	309
. Reports on other diseases unreliable.	

How disposed of.	1	Number of children.
Admitted during year		. 227
Placed outside or returned		. 102
Died during year		
Remaining in Home, November 1st, 1902		. 35

The Chairman and Members of the Board of Health:

Gentlemen: I beg to bring under your notice the annual statement, showing the work done by the sanitary section of the Department under your control during the year ending October 31, 1902.

In addition to the ordinary routine work of the section, there have been 1,023 houses disinfected, 374 cards put up on houses were infectious disease had existed, and 322 taken down.

In the ordinary course of duty, I have to report that 7 drains have been tested, 3,100 privy vaults cleaned, and 196 written notices were issued to property owners and tenants. In the great majority of cases, however, verbal notice has sufficed to secure due attention. One summons was issued, and one conviction followed.

Infectious Diseases. The number of houses disinfected was double that of the preceding year, owing to the outbreak of smallpox, scarlet fever, and diphtheria.

Dumping Grounds. The four dumping grounds of the city have received proper attention.

Removal of Garbage. The conveyance of garbage and kitchen swills through the streets of the city has been carried out in compliance with the by-law.

Sundry Trades. The inspection of several trades, which might become offensive through insufficient attention, has been attended to monthly.

Manure. The regulation for the disposal of manure, and the piling of it in yards, should be very clearly defined, and strictly enforced, particularly during the summer months. Covered boxes should be insisted on in the hot season.

Dairies. Having inspected nearly 40 dairies during the months of July and August, I found that most of the proprietors were making the needed repairs and improvements for the better ventilation and accommodation of their cattle.

The water used by the animals was likewise drawn from sources free from any danger of contamination.

Supervision of Ice Cutting. Several complaints were received to the effect that ice was being cut outside the area prescribed by the Board, and the offenders were notified accordingly.

Public Urinals. During certain hours of the day a large proportion of the citizens have business in the central parts of the city, there are many casual visitors, there are several hack stands, where the drivers spend long hours, etc., and yet there is scarcely any public provision for their convenience.

Were some effort made to supply this deficiency, it would gratify both residents and visitors, who would not be under the necessity of violating the rules of public decency.

Drainage. It is greatly to be regretted that, notwithstanding the strenuous and costly efforts made by the civic authorities for the disposal of sewage, that there are so many private tenements without any, or with inadequate drainage; the only effective remedy for the supervision of this dangerous nuisance would be to empower the Engineering Department to inspect such premises, and to order the necessary sewage connections to be made under provisions similar to those of the "Local Improvement Act."

Slaughter Houses. A number of these establishments have been visited during the year. It would be idle to enter into a detailed report of their defects, or to offer suggestions for their improvement; they are all more or less offensive, and detrimental to the public health of the city. There can be but one solution of this much debated question : the erection, in a sufficiently isolated position, of a public abattoir, thoroughly equipped, and efficiently supervised. This system has been introduced in many cities, and has amply justified its adoption.

In conclusion, I have much pleasure in stating that all work entrusted to my assistant has been promptly and carefully performed.

My sincere thanks are due to the Chairman, members, and Medical Health Officer of the Board for their unfailing courtesy and readiness to afford me every assistance in their power.

The whole respectfully submitted.

(Signed) G. O. S. LAFLAMME,

Sanitary Inspector.

Ottawa, October 31st, 1902.

WOODSTOCK.

Report of Medical Health Officer.

To the Mayor and Members of the Council of the City of Woodstock :

G utlemen,-I beg to submit the following as my report for the year ending November 15th, 1902: I am pleased to inform you that the health of our citizens has been exceptionally good, and death rate lower than for several years past. We attribute that condition, in a great measure, to the active co-operation of our citizens in sanitary matters, and by the further extension of our sewer and scavenger systems, the health of our citizens would doubtless be much improved and mortality lessened.

We would recommend that the lanes in the rear of the business portions of Dundas street be properly drained and graded, thereby placing them in a sanitary condition.

As milk is largely used as an article of diet, especially for children and in sickness, and as choicera infantum and typhoid fever, etc., can frequently be traced to impure milk, your Board has causd the milk sold by vendors to be thoroughly tested twice during the year. The result showed all up to Government standard.

Herds, byres, approaches, water supply, etc., were properly inspected by Dr. Rudd, veterinarian. His report indicated that our milk vendors were en deavoring to supply a good quality of milk, as herds, appliances, etc., were in good condition.

The water in many of our wells was tested. Some of the wells were so polluted that they were ordered to be cleaned out and filled up with clean earth; others cleaned out. Would recommend every citizen to use city water thereby insuring them against many ailments.

During the early part of the year measles were very prevalent; 115 cases were posted. No deaths. A few sporadic cases of scarlet fever, diphtheria, and typhoid fever were reported, some of them being traceable to out side municipalities.

Only one card has been posted during the past four months, viz., a case of scarlet fever, contracted elsewhere, thus indicating that our city is in a comparatively healthy condition.

During the month of July a case of smallpox was reported. Prompt measures were adopted by your Board, and approved of by our Mayor, to prevent the spreading of the same. The Provincial Board was notified of the outbreak, and Dr. Hodgetts, Provincial Health Inspector, visited the patients, and approved of our procedure. The patient made a good recovery. Quarantine was raised in about five weeks. No further outbreak. We would recommend that the Council take into its most serious consideration the erection of an isolation hospital for contagious diseases. We believe it would be the means of saving lives, lessen the spreading of infectious disease, and be a financial gain to our citizens.

Number of deaths during the year, 94. or about 10 per 1,000—a low mortality. Some of those died in the hospital, who belonged to outside municipalities.

Number of deaths from tuberculosis, 8: pneumonia, 7: typhoid fever, 3; scarlet fever, 2: measles, 0; diphtheria, 2: cholera infantum, 2: cancer, 5; heart disease, 12.

It may be noted that tuberculosis has greatly decreased during the two past years.

All of which is respectfully submitted.

A. McLAY, Medical Health Officer.

Woodstock, November 30th, 1902.

П я.

WINDSOR.

Report of Secretary.

Windsor, December 16th, 1902.

To the Chairman and Members of the Board of Health :

Gentlemen,—Pursuant to the requirements of the Health By-law, I herewith place before you a statement of the deaths rgistered in this city from January 1st of the current year down to and including the 15th instant, showing the causes of death, and the age and sex of the deceased, as reported by the attending physicians; and also a statement of the number and nature of the contagious diseases (as the latter term is understood) reported during the same period.

I have the honor to be, gentlemen, your obedient servant.

STEPHEN LUSTED,

Secretary.

Deaths and their Causes. As registered from January 1 to December 15, 1902, inclusive.

DEATHS AND THEIR CAUSES.

As registered from January 1 to December 15, 1902, inclusive.

Appendicitis 1 40 years m Albuminurea 1 2m f Asthenia 1 78 f Apoplexv 3 91, 86, 70 m, m, m Angina Pectoris 3 8, 50, 48 f, m, m Acute Rhematism 1 66 m Actickent 149 m f Broncho-Pneumonia 1 10 n. m, m	Disease causing death.	No. of cases,	Age of deceased.	Sex of deceased.
	Albuminurea Asthenia Aspoplexy Angina Pectoris Acute Laryngitis Acute Laryngitis Abdominal Tumor Accident Abdominal Tumor Accident Abscess of Stomach Bronchitis Brights' Disease Cerebral Thrombus Cyanoeis Cancer of Stomach do Breast do Liver do Neck Cancer of Stomach do Neck Cancer Cystitis Congestive Chills Carcinoma of Bowels Cerebral Hæmornhage Concession of Brain Cholera Infantum Cholera Infantum Carcinoma Cholera Infantum Cholera Infantum Carcinoma Cholera Infantum Carcinoma Cholera Infantum Cholera Infantu	1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	$\begin{array}{c} 2m\\ 78\\ 78\\ 91, 86, 70\\ 8, 50, 48\\ 5\\ 66\\ 60\\ 14\\ 49\\ 1, 10m, 1, 1, 4, 3 wks, 10\\ 10 n.\\ 85, 73, 85, 3m\\ 4\\ 70\\ 1 day\\ 55, 40\\ 55\\ 72\\ 72\\ 74, 61, 79\\ 69\\ 50\\ 68\\ 30\\ 50\\ 3m, 1, 1\\ 53\\ 48\\ 64\\ 4, 12\\ 5\\ 5\\ 1\end{array}$	f f m, m, m, m f, m, m m f m f m, m, m, f, m, m, m m f, m, f, m f f m, m, f, m f f m, m, m, f m m, m, m, f m f f m, m, m, f m f m, m, m, m f m m, m, m, f m f m m, m, m, f m f m f m f m, m, m, f m, m, m f m f f m, m, m f m, f m f f m f f m, m, m, f f m f f m f f m, m, m, f f f f m f f f m, m, m f f f f f f f f f f f f f f f f f f f

Disease causing death.	No. of cases.	Age of deceased.	Sex of deceased.
Endocarditis Fibroid Phthisis. Found dead in bed. Fibroid Tumor General Anaemia General Dropsy. Heart Disease Heart Disease with Phthisis Hydrocephalus. Kidney derangement with Uraemia Malnutrition Marasmus Malassimilation Meningitis Measlea. Malignant disease of Rectum. do do Uterus. Mitral disease of Heart Nephritis Old Age Paralysis. Pneumonia.	1 1 1 1 5 6 1 1 1 3 7 1 8 3 1 1 1 2 1 3 2 1	61 51 45 50 91 70 53, 56, 56, 2, 64 6i, 53, 77, 50, 80, 30 23 8m 75 3½m, 1, 1 3wks, 6m, 3hrs, 4, 6m, 10m 8m 4m, 5m, 4, 1, 3, 16, 4m, 5m 4m, 8m, 18m 61 51 39 12, 44 87 72, 56, 88 6m, 2, 97, 18m, 4, 67, 78	f
Phthisis Pueumonia with Whooping Cough Pulmonary Consumption Pulmonary Phthisis Poison Parencious Anaemia Phthisis Tuberculosis Premicious Anaemia Phthisis Tuberculosis Prementure Birth Puerperal Peritonitis Pelvic Cellulitis Phthisis Pulmonalis Stillborn Senile Decay Scarlet Fever Senile Decay Scarlet Fever Senile Cangrene Softening of Brain Strangulation Tuberculosis Tubercular Meningitis Typhoid Fever Typhoid Fever Typhoid Forver Typhoid resconing Valvu	$5 \\ 1 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1$	19 74, 86 84 29 49 10m 48 39, 25, 35 6 6, 26 26 3m	III, II, II, II, II, II, II, f, f, f, f, m, f, m, m, m, m, f, m, m, f f f f f f f f f f f f f f

Diseases.	No. of Cases.	Age of Patient.	Sex of Patient.
Scarlet Fever	27	7, 12, 10, 5, 2, 4, 8, 3, 12, 4, 1, 5, 9, 10, 7, 5, 12, 6, 8, 10, 15, 8, 7, 14, 3	f, m, f, m, m, f, m, m, m f, f, m, f, m. m, m, m, m, m, f, f, m, m. f, f, m
Scurlet Fever and Diphtheria	$\begin{array}{c}1\\1\\24\end{array}$	6 14 4, 5, 4, 4, 4, 6, 12, 11, 21, 4, 6, 20, 8, 3, 6, 13, 12, 11,	m f m, m, f,, m, f. m, m, m, f, f, f, m,, f, m, m,
Diphtheritic Scarlet Fever Smallpox	$\frac{3}{7}$	8, 8, 6, 8, 12 4, 2½, 6 m. 25, 33, 20, 23, 30, 20, 25	

STATEMENT OF CONTAGIOUS DISEASES.

Note.—The first letter, indicating sex, in each case belongs to the age first stated after each separate disease, the second letter to the age secondly stated, and so on.

Statement of Contagious Diseases. In addition to the above, in response to a request made by the Medical Health Officer for a report of the typhoid fever cases occurring since August 1st of this year, twenty-six cases of that disease were reported.

Report of Medical Health Officer.

Windsor, December 15th, 1902.

To the Board of Health, Windsor :

Gentlemen,—I have the honor to report to you as regards the general health of the people of Windsor, as follows :

During the present year there have been recorded 27 cases of diphtheria, with 4 deaths; 29 cases of scarlet fever, with 1 death; 7 cases of smallpox, with no deaths; 26 cases of typhoid fever, with 2 deaths. The mortality for each class has been very low, the number of deaths from all causes being a mortality of 14.61 per thousand, which compares favorably with any other city in the Province.

In regard to the cases of smallpox, each was directly traced to Detroit. and considering the large amount of money expended in caring for the patients, and keeping in quarantine those exposed (a sum amounting to about \$700), I would again urge you to use every effort to procure assistance from the Dominion authorities. We are certainly protecting the people back of us, and when other places receive support in the way of quarantine stations and officers, there is no good reason why an important port like Windsor should not receive the same.

The arrangements for the removal of garbage have been well and faithfully carried out by the contractor, but there remains the fact that there is room for improvement by having a more systematic arrangement in carrying out the work. I think that this could be obtained by having the work placed under the control of the Board of Works. This is a suggestion I would like you to discuss carefully, and I hope that it will meet with your approval. Although it does not come under the duties of your Board, I would suggest that convenient boxes be placed about the centre of the city for the reception of waste paper, etc. They would help materially in keeping the streets in a better condition, and the expense would amount to very little. I wish to bring another matter before you, and that is the fact that Windsor has no hospital for contagious diseases, such as diphtheria and scarlet fever. The Hotel Dieu is unable to care for them, and the result is that such cases have to be treated at private residences, where in many cases facilities are entirely wanting, and other persons are necessarily exposed. I would ask that you take up the matter with the city council, and urge upon them the necessity of such an institution. I know that it would meet with the approval of the public, and particularly with the medical profession.

I thank you, gentlemen, for the hearty manner in which you have helped me during the year, and desire to compliment your Inspector, Mr. Greive, for his faithful and prompt attention in all cases when his services were required.

All of which is respectfully submitted.

Yours truly. (Signed) J. A. ASHBAUGH, Medical Health Officer.

HAMILTON

Report of Medical Health Officer.

Hamilton, December 1st, 1902.

To the Clairman and Members of the Local Board of Health :

Gentlemen,—I have the honor to herewith submit to you a report of the sanitary condition of the city, and the work of the Health Department, for the year ending October 31st, 1902:

There were 691 cases of infectious disease of all classes reported during the year. Of these 106 were diphtheria, with 24 deaths, a mortality of 22 per cent., and 44 per thousand of population. Compared with other cities, this is not a high death rate, but it is a great annual loss of life from a preventable disease. Last year there were 25 deaths. Quarantine is carried on as far as possible by this department. The difficulties met in dealing with this disease will be appreciated if you consider the following conclusions by the most eminent bacteriologists: (a) Diphtheria bacilli are found in the throats of 3 to 7 per cent. of healthy persons who have been exposed to diphtheria, directly or indirectly; (b) such healthy individuals do not develop diphtheria as a rule, because of their actual immunity, or what is known as "antitoxic 'condition of their systems"; (c) in the throats of about 90 per cent. of such healthy individuals the bacilli found are virulent, or the means by which the disease is carried from place to place. When the bacilli are transferred to the throats of susceptible persons, they readily produce the disease. (d) The diphtheria bacillus usually remains in the throat of persons having had the disease for several weeks following complete recovery from illness. There is the greatest danger of transmission and infection just as long as any germs remain present. Treatment of the threat should continue until the organism has disappeared. (e) There is no clinical difference by which differential diagnosis may be made; in the pictures of throat lesions produced by (1) streptococcus progenes, an organism found in erysipelas and some cases of pneumonia and several other diseases; (2) the oidium albicans (the fungus which produces thrush); (3) true diphtheria caused by Klebs-Loeffler bacillus. The only positive means differentiating is by a bacteriological examination. As regards treatment, antitoxin is curative, if properly used in the early stages of Klebs Loeffler (true diphtheria). The statistics indicate that the death rate from diphtheria decreases proportionate to the early administration of antitoxin. Did public opinion give us the same support in the control of diphtheria as smallpox, it would be no more prevalent. This would mean isolation in hospital of even the mildest cases ; quarantining suspects and those who have been exposed, and keeping both at the public expense, until they could go about with safety. Leaving out of account all the suffering and pain, which is beyond any estimate, it would pay any municipality to do so from a commercial standpoint. Economists estimate a life to be worth one thousand dollars to the State. If this basis be accepted, this city lost last year one hundred and forty-nine thousand dollars from death by infectious disease (including tuberculosis). The expense in treatment, nursing, and loss of wages, etc., would amount to as much more, making about three hundred thou-and dollars in all. Surely it is necessary to take some effectual means of controlling these diseases.

There were 64 cases of typhoid fever reported, with seven deaths, a mortality of 13 per 100,000 population. This is low, and places the water, ice and mink supply of the city in a good position in comparison with other cities as regards freedom from typhoid. Of the 64 cases reported, 16 were found on investigation to have been infected outside of the city, most while in the country, doubtless from using impure well water. Nine in one neighborhood were traced to a common milk supply. Upon investigation this dairy was condemned, and the license cancelled.

During the year five cases of smallpox were reported. Owing to the prompt measures taken by the Board and its officials, in no instance did the disease spread beyond the first case, each of which was imported. These cases were handled at the cost of \$905, less than \$200 a case. For smallpox, this comparatively shows a very economic treatment. The cases, with the exception of one, were quarantined in the house where they took sick; this happened to be effectual, but it is a poor makeshift, and will not always be successful; moreover, it cannot adways be adopted. The Board assumes a heavy responsibility in so doing. The year closed without a proper isolation hospital, or even a site. Four of these cases had never been successfully vaccinated, and one not since childhood, and in this case the attack was mild. With the exception of about 50 persons, who were exposed to infection from these cases, I have not done any vaccinating during the year, no one having applied, and I believe there has been very little done in the city. Judging by the past experience, unless smallpox keeps recurring every year, it is probable that some years will elapse without vaccination to any extent, until abother outbreak, when there will be a rush. Under such circumstances this delicate little operation is hurriedly and imperfectly done, with the result of either imperfect inoculation or an infected arm. Years ago, when the ravages of smallpox were more evident than they are now, vaccination was almost always done in infancy. Children were taken to the vaccinator as religiously as to be baptized. Every child should be vaccinated before reaching school age. The operation not only gives less aunovance then, but it will be better done, and, moreover, there will be no loss of time from school or occupation. A systematic method of accomplishing this is required.

The other infectious diseases reported are: Scarlet fever, 97 cases, with three deaths: chickenpox, 74 cases: mumps, 11 cases, and no deaths; measles, 222 cases, with 2 deaths: whooping cough, 112 cases, and 13 deaths, all in infants. This disease was very prevalent last winter, and many cases were never reported, but the mortality shows it is not a triffing disease. It is a

difficult disease to keep from spreading, as the attack often lasts three months or mor, du ing which time the patient is infectious. Again, patients are advised by physicians to keep in the open air, as it is better for their convalescence, but it is not for their playmates. Three months is a long time to be kept from school, and to avoid this, parents, when they do not have a physician, conceal the trouble, and allow children to go to school before free from infection. All pupils absent from school a week should be required to produce a certificate from a physician that they are free from infection. This measure would not only aid in preventing the spread of these milder infectious diseases, but would indirectly secure a more regular attendance.

Seventy-six cases of diphtheria, 18 of scarlet fever, and 32 of typhoid fever were treated at the City Hospital during the year. For diphtheria this was 72 per cent. of all reported cases. The hospital is being taken advantage of more every year for the treatment of this disease, and that is as it should be. In houses of one story, of which there are so many in the city, it is impossible to satisfactorily isolate cases of diphtheria and scarlet fever. To remove them to the hospital, not only removes the source of infection from the house, but patients can be better treated there.

Mortuary Statistics. Excluding 47 still births, which are not counted in mortuary statistics as deaths or births, 744 deaths have been recorded at the Registrar's office during the past twelve months. The Assessor's enumerations gives us a population of 54,030, thus showing a death rate of 13.7 per thousand. This is a low rate, and indicates good sanitary conditions. The death rate of last year was 14.5 per thousand, showing a decrease of nearly one per thousand. There was also less sickness of a general non-fatal character than usual.

Of 744 deaths, 366 were males and 378 were females, nearly an even number.

There were 137 deaths under one year of age, 18½ per cent. of the total mortality; premature births, of which there were 25, unsanitary surroundings. and improper food are the chief factors in the causation of infant mortality. There were 20 deaths from cholera infantum and other diarrhoeal diseases. One hundred and sixty-five persons reached three score years and ten, over 22 per cent. Sixty-six lived to be 80 years of age, and nine over 90, the oldest being 109 at the time of death. Fourteen deaths were recorded of invates of the House of Refuge, 10 at the Infants' Home. 3 at St. Mary's Orphanage Asylum, 3 at Aged Women's Home, 1 at City Jail (a nonresident, from tuberculosis). Twenty-five deaths occurred from accident, influding three from gas poisoning. Among the general causes of death were 45 from cancer, 85 from diseases of the heart, mostly in the aged : S4 from phthisis, and 21 from other forms of tuberculosis, making 105 from this disease.

An important measure to lessen the ravages of tuberculosis was taken when the City Council, on the recommendation of the Board of Health, passed the following by-law: "Every medical practitioner, practising within the municipality, shall report to the Medical Health Officer upon one of the forms supplied by him for the purpose, every case of pulmonary tuberculosis which he attends, or is called upon to visit in the City of Hamilton : such report to be made within one week after he knows that his patient has such disease ; and shall also, if the patient dies from such disease, report the death to the Medical Health Officer within twenty-four hours after it takes place.

When cases are notified, what sanitary measures are proposed for the prevention of the disease, I would recommend, (1) Inspection of the pre-

mises, preferably by a medical officer, giving personal instruction to patients as to proper disposal of sputum, at home, when at work, and when travelling, and as to the cleansing and disinfection of the house at frequent intervals, and leaving printed information of a non-alarmist character in regard to the disease, and the method of its extension. He should attend to any indirect cause of the disease, and which would be conducive to its spread; for

example, the lighting, ventilation, and dampness of houses, milk supply, etc. Information should be gained for investigation purposes, which, though not useful to a sufferer, enables lines of new action to be worked out. A schedule should be prepared to tabulate inquiry as to duration of illness, the period of stay in the house, the amount of isolation (if any) carried out, the sanitary condition of the house, including overcrowding, if it exists; the family history, in regard to tuberculosis; the place of work, the previous medical history of the patient. Effort should be made to discover the source of infection, by questioning the patient as to the existence of consumption in relatives, companions, or work-fellows. This investigation should take place at the patient's home; the office, workshop, or factory should also be visited, but in a general way, without any reference to the special case, care being taken to remove any sanitary defects, uncleanliness, or dust, nuisance.

2. Monthly visits by inspectors, to see that preventive measures are being carried out.

3. The disinfection and renovation of all premises vacated by death of consumptives. When required and practical, the employment of the same measures during life. Attending physicians should be required to notify the health department when a patient changes his abode, nuless they can certify there had been no recent infectious discharges, rendering disinfection and cleansing necessary, before the vacated rooms are occupied by a new tenant. I believe more in renovation, such as kalsomining, lime washing of ceilings, repapering, and washing floors and furniture with plenty of soap and water, rather than depending wholly on any means of disinfection.

4. Literature having no official heading should be distributed to physicians, who would give it to patients where advisable.

5. The removal of the patient.

(a) Incipient Cases: Among the poor encouragement should be given them to take advantage of the arrangements made by the City Council for dreatment at the Gravenhurst Sanitarium. Every case cured diminishes the amount of infection, and will be a valuable educational factor in the community. Those who are not cured will have learned, in a way that can be best taught in institutions, how to take proper care of their sputum.

(b)) For Advanced Cases: Unable to work, and willing to go, a hospital or home should be provided, either in a separate word of the general hospital, or, better, in a properly equipped building, in the country, adjacent to the city. It is advocated that temporary treatment should be offered to a rapid succession of phthisical patients in municipal hospitals, suitable for patients who are living under unfavorable conditions at home, or who are a source of risk to bis family, and to those with whom he works. The cure of these patients is not anticipated, but in the interest of the public health, it is intended to care for them, for a short period of time, a month or two, with the following objects in view : (1) The patient himself will be improved, and enabled to start afresh, with better prospects of recovery. (2) While in the municipal sanatorium, his house will be cleansed and disinfected, and his relatives will be freed from uninterrupted exposure. (3) The patient, when sent home, will have been taught to so manage his expectoration that he will be no longer a source of visk to his family, and to those with whom he works.

I would recommend that special forms, which can be sealed, differing in color and shape from those used in the case of contagious diseases, be supplied physicians, for reporting tuberculosis, and these are not to be opened by any one in the health office, except the Medica'l Health Officer, and the register kept for future reference must be kept under his own personal supervision. It is also my opinion that no action should be taken, except registration, where physicians instruct the patient and the family in the proper method of disposal of sputum, in other means, to prevent infection and will distribute literature to the family, which will be supplied him. I would also require him to notify the Health Officer of a change of address, so that the apartments can be renovated and disinfected. In the report required from physicians, I would have this question: Do you wish an unspector to visit the premises, and instruct the family regarding prophylaxis? Answer, Yes or No. Cases would not be visited by an inspector from the health office except on the request of the family physician, the understanding being, if he do not request it, he will adopt and supervise the necessary measures himself. There is a certain class of people over whom a physician could have no control: the sanitary authority should here be called to assist. Among the poor, the class in which tuberculosis is most frequent, often the necessary means of preventing the spread of infection are absent, and the municipality should be called upon to supply them. In some cities of England, the consumptive poor are gratuitously supplied with sputum bottles and Japanese handkerchiefs, and it has been the experience there that they readily avail themselves of these means of prevention. Sanitary measures are mostly needed among the poor, where bad ventilation and over-crowding exists. Judicious discrimination should be used in carrying out regulations adopted for prevention of tuberculosis. No reasonable sanitary officer would expect to put into force regulations requiring the notification of tuberculosis with the same conditions and in the same way that a similar one in regard to smallpox or diphtheria would be enforced. The process of the enforcement of such a law must be developmental, and it must be distinctly understood, and strongly and constantly emphasized, that tuberculosis is a different kind of disease from smallpox and scarlet fever, or any of the highly contagious diseases.

The water and ice supplied the city have been several times analyzed, during the year, at the laboratory of the Provincial Board of Health, and found to be of good quality.

Four hundred and five samples of milk were tested during the year. The average percentage of butter fat of all samples collected was 4.05, showing that there is no ground for complaint, as to the richness of the milk, generally. In the early part of the year tests were made for coloring matter put in milk, for the purpose of giving it an artificial appearance of richness. Three milkmen were prosecuted and fined; since which time, every sample collected has been tested for "annatto," but none found.

The scavenger system continues to give fair satisfaction, judging by the searcity of complaints. These have been investigated promptly by the inspectors, and usually the trouble has arisen through a misunderstanding as to the proper time and day of call by the scavengers. In some cases, receptacles have been too dilapidated for handling, and in others too large and heavy. One hundred pounds should be a limit for a scavenger to be asked to lift; that must get very heavy toward the end of a long day. The biweekly collection during the summer months was taken more advantage of by the citizens than last year. The streets, lanes, and alleys have been kept

cleaner this year than usual. Street dust is an important factor in the causation of diseases of the respiratory tract.

I append a report of work done by the Sanitary Inspectors, and tables and maps, showing the distribution of infectious diseases. You will see that they have occurred in an isolated way throughout the city. I would also call our attention to the small number of instances in which there has occurred more than one case in the same house.

All nuisances complained of during the year have been promptly investigated and attended to by the inspectors. I wish to commend them for good work in discharge of their several duties.

Respectfully submitted.

WALTER F. LANGRILL, Medical Health Officer.

Report of Sanitary Inspector.

Hamilton, 8th November, 1902.

To Dr. W. F. Langrill, Medical Health Officer :

Sir,—Below please find synopsis of work done by your three Inspectors from the 1st day of November, 1901, to the 31st day of October, 1902, inclusive. Yours respectfully,

(Signed) L. A. MacDONALD,

	Inspector.
Number of inspections made	5,747
Number of privy vaults notified to be cleaned	438
Number of privy vaults, permits for new ones	1
Number of privy vaults, issued to contractors to clean	1,020
Number of privy vaults abolished	91
Number of cesspools notified and cleaned by contractors	s 25
Number of cesspools abolished	
Number of dry earth closets to clean	. 36
Number of sewer connections to make	. 114
Number of sewer connections made	. 71
Number of sewer connections found defective	
Number of stagnant water, to abolish	., 13
Number of dirty premises to clean	. 42
Number of other nuisances to abate	. 475
Number of old we'lls to fill in	
Number of houses placarded	. 142
Number of houses fumigated	. 246
Number of milk samples collected and tested	. 405
Number of licenses issued	
Number of complaints unfounded	
Work Done by Your Scavengers.	
Number of team loads of garbage and refuse collected.	10,662
Burnt at Crematory.	
Number of dogs	451
Number of cats	
Number of fowl	
Number of fish, barrels and boxes	27
Number of goats	
Number of loads of used rags, etc., from City Hospital	
Number of loads of bedding from infected houses	
Number of rabbits	

Summary of Infectious Diseases from Nov. 1, 1901 to Nov. 1, 1902.

Disease.	Nov.	Dec.	Jap.	Feb.	Mar.	Apr.	May.	June.	July,	Aug.	Sept.	Oct.	Total.
Scarlet Fever.	14	14	16	19	10	5	4	6	0	1	2	6	97
Diphtheria .	11	21	13	9	16	5	4	3	5	1	8	10	106
Typhoid Fever	3	2	1	1	2	1	0	3	2	17	29	3	64
Chickenpox	8	17	0	11	16	8	7	3	2	0	0	2	74
Smallpox			2		1	1	1						6
Measles	1	- 3	7	8	28	85	52	35	1	1	1	0	222
Whooping													
Cough	0	7	- 36	-41	12	9	3	0	3	1	0	0	112
Mumps			1		1	2	2	1			3	1	11
										1			

Table showing Deaths from Infectious Diseases by Months.

Diseases.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Total.
Diphtheria	4	3	3	3	3	1	2	1	1	1 *	1	1	24
Scarlet Fever.				1	2	1					[3
Typhoid Pulmonary			•••••	· • • • • · ·						2		1	- Y
Tuberculosis	3	9	-4	10	8	8	8	8	2	9	9	6	84
Whooping	1		1		9					4			10
Cough Measles		••••			3			5	1	, 1 ,			13
									Î				-

Summary of work done by Inspectors in Quarantine and Disinfection.

	Diph- theria.	Scarlet Fever.	Smallpox.	Tuber- culosis.	Chicken- pox.	Typhoid Fever.	Whoop ng Cough.	Total.
Houses placarded Pracards rear oved Houses disinfected Inspections made	75 75 103	67 67 84	2 2 13	0 0 20	0 0 7	0 0 0	0 0 1	$144 \\ 144 \\ 228$
while under quarantine	120	147	16	0	4	30	1.	318
Defects in sanitation found	8	0	1	1	0	8	0	18

TABLES COMPILED FROM THE ANNUAL REPORTS OF LOCAL BOARDS OF HEALTH.

Cases and Deaths from Contagious Diseases by Municipalities for year 1902.

		all-	Sc		Dip		Ty				al].		ar-		ph-	T	
	p)X.	lati	na.	ther	1a.	pho	01d.		p)X.	lati	na.	the	18.	ph	ord
Cities.	m	118.	r.	hs.		hs.		ha.	Towns and Village ^o .		hs.		h5.		e i		hs.
	Cases.	Deaths.	Cases.	Deaths	Cases.	Deaths.	Саяев.	Deaths		Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Савев.	Deaths
	Ű	<u> </u>	Ŭ	9	Ö		Ö	9		Ö	Â	Ŭ	Â	Ö	Â	Ö	Â
Belleville					2		õ		Copper Cliff	12				9			
Brantford	2		37	· · ·	72	12	43	- 4	Clifford							3	
Chatham	43		42	1 2	7 106	$\frac{3}{24}$	55 64	5 7	Delhi Dresden				· · ;			••••	• • •
Kingston			31		00		17	4	Durham						i	2	
London						20	3	3	Dunnville							1	1
Ottawa Stratford			$689 \\ 11$		$230 \\ 9$		29	22 1	Dundalk Deseronto					· 1	•••;	•••	
St. Thomas					4	1			Drayton	L							
St. Catharines	1		12		6	1	32	Б	Dutton	2							
Toronto Windsor			701		893 17	115	$\frac{130}{26}$	$\frac{25}{2}$	Eganville				<i>.</i>	•••	•••		• • •
Woodstock	2		l	2				3	Erin								
Guelph	5		24		14	2	16		East Torouto					1			
									Elmira Embro	• • •		3		•••	•••	2	•••
Towns and Villages.									Exeter					2	ĩ		
	-	1	10						Forest				1				
Acton Alvinston		···	12				• • •		Fort Erie Fort William		•••	70	12	• • •	•••	50	••••
Arkona			2						Fergus	1		1					
Aylmer				I					Galt	1		5	· · · ·	45			
Aurora Athens.	ł		ł				• • •	• • •	Garden Island Gore Bay					•••		• • •	• • •
Alliston Arnprior Arthur						2			Grand Valley Gananoque					1			
Amprior			3		4		3	2	Gananoque					1	1	• • •	1
Ashburnham			6		15	6	1		Georgetown	1	••••	1i	111	• • •	•••	* * *	
Ashburnham Alexandria	3		3		-30	5	3		Hagersville					6	1		
Ailsa Craig Bracebridge Beamaville	1	• • •	1.10		3	1		···i	Hastings						• • •	•••	···: 1
Beamsville.					1 <u>4</u>	1			Hawkesbury Hespeler	140			İ			••••	
Barrie	1		5		$\frac{2}{12}$	1		4	Hensall				· · · <u>·</u>	5			
Berlin	2		21		12	$\frac{2}{1}$	-4	4	Hintonburgh Holland Landing	30		87 	7	1 5	1	•••	• • •
Bayfield									Huntsville								
Beaverton									Harriston							2	
Beeton					20				Havelock							• • •	
Bolton		!		1		()			Kincardine				1	1		1	
Brampton.	1		11		7	2			Kingsville	1						••	• • •
Brighton. Brockville	25		30) • • •	49	3	29	3	Kemptville Lancaster						•••	•••	
Bowmanville			2	- 1	20	2			Leamington	1				3		9	
Bothwell. Brussels			• • • •		7	3		· 1	Little Current	10				3	•••	4	1
Burk's Falls							30		L'Orignal	1.4				35	2	``i	
Burlington	1	!	1						Lakefield Lindsay			7	1				
Bridgeburg Blyth							•••		Lindsay.	•••	• • •	31	10	8	•••	10	• • •
Bobcaygeon	1			1	1		6		Lucknow Mattawa. Millbrook	2		10				8	1
Campbellford		1	1 1		2	1 			Millbrook		• • •	6	• • •		• • •	7	1
Cobden Creemore		1	1	1	1	· ·			Milton. Mitchell			8				•••	
Cobourg		ļ	4		1 1	1	-4		Milverton.								
Uayuga	1		1 1	1	1 1		1		Mount Forest Madoc			4	1	5	1	6	
Caledonia Cannington	1	1	1	1	1 2	1	2	1 1	Madoc				1	1	1		
Chesterville	1			1	1				Meaford							•••	
Clinton Cornwall	110		10	1	·	••••	1 20		Merrickville			l		4		1	•••
Colborne	1	1				1	20	1	Merritton. Morrisburg			1	1		1		
Colborne Carleton Place	7	1	2					1	Markdale	1	1		1	1	1		
Chesley Chapleau	1		. 1 24	11 2		1	1	1	Newcast'e					1 4	• • •	3	
Chippawa.							1	1	Niagara Falls North Toronto		1	1	1	2	1	2	
Collingwood			,i 1	1	4	1 4	2	2	Norwood	1	l	1]	10			

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Cases and Deaths from Contagious Diseases by Municipalities.-Continued.

	Sm pc	all- ox.	Scilatin		Dip theri		Ty- phoio			Sm po		Sca lati		Dipl theri		Ty phoi	
Towns and Villages.—Con.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Towns and Villages.—Con.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Norwich			1				- 13	1	Tilbury	1				2	1		
New Hamburg.		• • •		· · · · ·			····i	1	Tweed Thamesville	1	•••	2				· · · ·	
Newmarket		- • •	3	1			1		Thornbury				· • • •	 9		• • • •	
Napanee Niagara.						1.			Tottenham Uxbridge							6	6
North Bay	1		1	. 7					Vankleek Hill	1					•••	• •	
Oakville									Vienna Walkerton	••••					•	8	
Oshawa			12		12	2		3	Walkerville					5	1		1
Ottawa, East Oweu Sound	2		3		50 64	1	46	3	Waterdown Wellington						••	2	
Omemee						1			Whitby			2		2			
Parry Sound		 	12		90	5	3		Winchester Woodbridge	1	• • •	$\frac{2}{1}$					1
Peterborough Preston			100					1	Woodville								1.
Point Edward	2	2 1				1			Wroxeter			1			•	1	
Parkhill Paisley		3							Welland Wiarton			8		2			
Palmerston									Waterford								
Portsmouth Petrolia.		1	10					1	Weston Wingham					15			
Prescott			38	3 - 2					Wingham Wyoming			1					
Pt. Colborne					1				Waterloo	4		15		1		4	
Pt. Dalhousie Pt. Dover							3	• •	Wardsville	• • •		* • • • • 1					
Pt. Elgin			1	ŧ . L . 			. 3		Townships.	1						Č.	
Pt. Perry Pt. Rowan							. 1		Adelaide	1		2	 			1	
Pt. Stanley			27	(L		• •			Admaston				1		1		
Pt. Arthur		1	30	2	9		5 209	$\frac{11}{12}$	Alfred	35		75		3 22			6]]
Pt. Hope Perth		0						ī	Ameliasburgh								
Paris.									Amberst Island.								
Pt. Carling Pembroke		0	1	2			5	i	Ancaster		• • •						
Renfrew					.		· · · · ·		Arthur		1	1	3	. 2	2 1		
Ridgetown Richmond Hill .		• • • •						i	Ashfield Assiginack	1 19)				1		1
Rockland	2	ð				• .			Athol				1				
Sandwich		i		4		1			Augusta Anderdon		3,		2	• • • • •	2 1		. ·
Seaforth								3	Albion					•			
Simcoe		1				1.			Anson & Hindon					. 1	8]		
Smith's Falls		0				3		$\frac{3}{3}$	Albermarle								: ·
Stouffville				2				1.	Aldbor ugh Atwood						: .		
Strathroy Streetsville			• • • •		• • • •	:			Alice & Fraser .	3	2	• • • •	• • • •	• 3		3 	• •
Sturgeon Point.				1	.				Barton	1							2 .
Sundridge		1	• • • •					• • •	Bastard & B	· · · ·	· · · ·		• • • • •		• •	• • • •	•
Southampton		4	. 1	2	2	3.			Bathurst Bangor, etc		9 3 3		i	i	• • •		
Sarnia		8		1		$1_{ \cdot }$. 13	Bagot & B					4	1	L[[.
Stirling		1.		l.	1			1 9	Bedford Bentinck		8		$\frac{1}{2}$		2 3	2	
Suiton							. i	1	Bexley						· [
St. Mary's Sudbury	1	9	• `	6 9	·]*·	6	12	2	Biddulph			• ••	$\frac{1}{2}$		• •		•
Tiverton								• • • •	Beverly							4	3
Loronto JCt			•	0	2 2	1	J	. 0	Binbrook	1	9						•••
Tara Teeswater		1		1				2.	Blandford Blanshard				5	• • • •	1.		2
Thedford Thessalon					•	1	1		Blenheim			•	4	1	4	. 1	12
Thessalon Thorold			• • • •	i	• • • • •	$\dot{7}$	i $\frac{1}{2}$	3	Beckwith Blind River		•		• • • •	• • •			1
Tilsonburg					-	i	1 1		Bondfield		3						

Cases and Deaths from Contagious Diseases by Municipalities for 1902. Continued.

			_							-							-+
	Sma	all- x.	Sca tin		Dip theri		Ty phoi				all- x.	Scar tin		Dip theri		T3 phoi	
Townships.		- <u>-</u>							Townships.	-		1					m
	ai -	Deaths.	ač.	I)eaths.	x.	Deaths.	s.	Peaths		æ	the	20	Deaths.	Савев.	Deaths	Савев.	Deaths
	a l	at	Савев.	38.	186	3.84	st	at		Саяев.	P.B.	Саяев	ea	3,86	P.a.	386	58
	Cases.	ล้	õ	<u> </u>	Саяс в.	1	Cast S.	2		Ő	Deathe.	Ũ	Q	Ű	9	0	12
			-					-		_			-		-		
							1		Delaware			6				1	
Bosanquet			4	11		1	12	1	Denhigh A & A		• • •	0	2	* * * *	2		
Brock Brant			7		3	-	1.0	1	Denbigh A.& A. Derby		·						1.1
Brantford			2			1	2	2						1		0	
Brighton			20		· · · -		15	с <u>. </u>	Douro						ļ.,		1
Burleigh & A.				* * * *					Draper	8	4.4	• • • •				• • • •	
Brooke Burgess, N	1						• • • •		Dorchester, N. Douro Draper Drummond Dover	200		*** i A	• • • •				ii
Burgess, N Burford		• • • •		• • • •	1		••••	••.	Dover	080	2	9	• • • •	6		2	2
Buck	1	• • • •	4				2		Dunn								
Daudanall & L	9								Dun fries, S					0	L.,	1	1
Bruce	8			1			12	1	Dymond			13	1				
Brunel			2		1				Dungannon							••••	
Bruce Brunel Bayham				• • • •	1	•		· • • .				3	•••	21	4	-	
Belmont & M Billings							****	•••	Dorchester, S 'Downie							5	2
Billings Brougham	* * * *					•••		• •	Easthope, S								1
Caldwell			6												2		
Caldwell Caledon			12		8	3		÷ .	Egremont	2	• • • •] 6	i 1		
Caledonia						1	1	1	Elma	1	•			1	1	30	0, 1
Cambridge Camden, W		• • • •							Elderelee		•••				1.	1	
Cameron									Elms'ey, S	3		 9 8			1.		
Canborough		• • • • • • • • •	2		1		7	1	Etobicoke	1		9	1	1		(6 2
Caistor	8						12		Emily			8	•••	8	3 2		
Clarence	1 1					1	1 1	1	Enniskillen		• • • •		• • • •	···· ,		,	
Caradoc	23			• • • •	2	4	2	 	Ernesttown	1	•••	1	••			6	2
Cardiff	1	• • • •	1		1				Esa								
Carrick		• • • •							Esquesing	3		3		1			1,
Carlow			2						Euphrasia	1							
Calvin					[····				Eramosa			1		1			• • •
Cavan		• • •	U			· · ·	1	1	Elmalon N	9			• • •				
Cayuga, N							1	1	Elzevir Elzevir Eug hemia Ekfid Emo			1					
Chaffey Chapman			21				2	21.1	Eurhemia								
Chapple .	·	1							Ekfrid	11		3	•••		3 1		
Charlottville				• • • •					Emo	2		12	•••	1	5 1		• •
Chandos		1						2	Ennismore Elizabethtown.						i		2
Charlottenburg . Christie	0					$\hat{2}$			Fredericksburg,	1							
Clarke						۱.,		1	N						2 .		
Colchester, S			1 16	1	2	0 2		ŏ.,	Fredericksburg,								
0 11		1							S Ful'erton								2
Colborne Crowland				3		i			Finch	43							
Culress									Fenelon								• •
Cumberland	1	3	. 10)		4		31.	Fitzroy		j	4			·	1	• • •
Camden, E		3	1	;	1	3.		4 .	Flamboro, E	1						1	11
Cartwright		. l 			1			• •	Flamboro, W Flose	1	3				3	1.1	1
Carden Cayuga, S									Flose Faraday							1	· · ·
Chingacousy						.1			Ferris	20	J				1.		• •
Clarendon & M.						2			Foley		21				• •		• • •
Colchester, N			•			Ζ.			Gainsboro Galway & C			20					
Cockburn 1s'd.	•••																
Carnarvon Cresby, N											1.4.4						
Dereham		1				2	1		Glanford								
Dummer	- 6 4			1	1	3	3		Gloucester	. 59	····	25		4	0 8		1
Dalhousie & N.S									Gosfield, S						. [1
Dalton												1		1		1	
Darling Darlington								5 4	Custion		i i				U –	1	
Dawn								1.	Grey Gostield, N				• • •		9 .	1	3
Day. Gladstone	,								Gostield, N Gower, N	····	3	1.	3	1	1.		1
etc							• • • •		Gower, 11								

Cases and Deaths from Contagious Diseases by Municipalities for 1902. - Continued.

	Sm. po	all- ox.	Sca tin		Dip ther		Ty pho				nall ox.	Sca tir		Dip ther		Ty pho	
Townships.	Cases.	Deaths	Cases.	Deaths.	Cases	I beaths.	Cater.	Deaths.	Townships.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Goulbourne	19		6	1				1	Lancaster	9		1					
Grimsby, N Grimsby, S				• • • •					Laurier				• •			••	
Guelph			3						Lobo Lount					• • • •	••		• •
Goderich Gwillimbury, W				••••			• • • •		Laird	190							
Gwillimbury, E.									Macaulay	190	1	5	5	3	•	• • •	
Gower, S									Laird Lochiel Macaulay Machar Maidatone	1							
Gwillimbury, N. Gordon		•••					••••		Maidstone Matchedash					1	1 1	• • • •	1
Greenock	3		5	2	4			1	Malahide			1	1	9	1	•••	
Garafraxa, E Griffith & M	1		• • • •		10												
Glamorgan									Maiden Mara Mauvers	• • • •	• • • •	13			• •	1	
Haldimand			13) D	2	5	. 1	TITOOD	0							
Hagerman Hay		****	1						March	• • • •	••	10	1	••• ==		2	• •
Harvey					9	1			Marmora & L.				••••	э 1	1	6	2
Harwich Hawkesbury, E.	$10 \\ 97$	••••	14	· · · ·				• •	Mattawan					- 8.4			
Head, Clara & M									Mayo Melancthon Mersea		••	3	••••	• • •	1	• • • •	
Hilton						1.			Mersea			- 7		5	1	10	
Hillier Himsworth, S	2		i		1	12	2		Metcalfe Middleton	••• 1					•		
Horton	1				-				Minto.								
Howland Humberston				••••					Monagh: n. N.								
Hullett									Mono Moore	···· ₁	• • •	$\frac{2}{2}$	2			•••	•••
Huntingdon								• •	Monck								
Huron Hamilton		· • • ·				2	4		Murry	• • • •	• • • •	1	1	1	1	1	1
Hawkesbury, W	1								Matilda			•••	· • •		i		i
Howick Hallam				1		[···			Moulton								1
Himsworth, N					1				Mornington Muskoka			· · · ·	•••	••••	· · ·		• •
Hungerford		• • • •			0	1 *	3		Mulmur			3	- 3	2			
Hinchinbrook Hin sworth, S	1					1:		1	Medora & W Mountain	• • • •	••				. 1	3	
Норе			10			1	4	1	Marlborough	1							••
Houghton Humphrey	· · · ·	••••	2	2				1	Madoc	1							
Hibbard			1						Morris McMurrich			••••	••••			•••	• •
Innisfil									McDonald & M.	15					t		
Joly Jocelyn							•••		McIrwin McDougal	1		4	1	6] • •]	2	
Johnson & T	2								McKillop.								
Keewatin Kaladar, etc			12						McLean & R		• • • •	4 1 2	2				
Keppel			••••						McGillivray	••••		5		••••			•••
King	3								McNab	13				5	2	1	i
Kingston Kincardine	32	••		•			·	et i	Marysburgh, S., Marysburgh, N	••			• • • •	1	• •		
Kinloss	10				1	11.		1111 1111	Monaghan S					1			
Kenyon Kennebec		• • • •	12	1	28	5			Mindeu Medonte			4		1			
Kitley									Montague	2		25	* * * -	1			
Lavant			[- + + +						Nairn & Lorne".								
Laxton, D. & L. Leeds & Lans. F									Neebing Niagara	• • • •	• • • •		• • • •		1		
Logan	2								Nichol							1	
Lindsay, & St. Ed Limerick									INISSCUPI, E					8			1
Louth)			3	Nissonri, W Nottawasaga	· · · ·		10	••••	3	1		1
Luther, E				1				1.1	Nepean	78	2	69	3	37	3		2
Luther, W London			•••			1			Nassagwaya Norwich, N							i 1	1
Lanark				1				1	Normandy								· ·

Cases and Deaths from Contagious Diseases by Municipalities for 1902.-Continued.

	;						1		1			,				1	-
		all- x.	Sca tin		Dip theri		Ty pho		1	Sm po	all- x,	Sca tin		Dip ther		Ty phoi	
Towaships		anî		nî.				l ač	Townships.		œ,		*				1 m
	98.	Deaths.	s. E	th	es.	ath	68.	th		e8.	ath	es.	th	es.	ath	68.	ath
	Cases.	Deg	Cases.	Deaths.	Савев.	Deaths.	Cares.	Deaths.		Саяев.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
			—					-							-		-
				• •				• •	Shefield		• • • •			2	• •	3	
Oakiey Oliver					••••		1		Sherborne &c Sherbrooke, S					1		• • • •	
									Sherbrooke						1		
Ops		••••		1	• • • •	• •			Smith				• • •			• • • •	• •
Oxford Orillia	••••	•••		• • • •			2		St. Vincent Sophiasburg		····				4		
Or o			8	2		1			Southwold]			j	3	
Osprey	76			• • • •	6	1			Stamford			1					• •
Otonabee		••	5 8	1		$\frac{2}{}$		• •	Stanley Stanhope						$ \cdot\cdot $	• • • •	•••
Oxford, E Oxford, N				1					Stafford					••••			
Oxford							1	1	Stephen	50							
Olden.						• •	• • • •	• •	Stisted Sullivan	•••	• • • •	1		1		••••	2
Oakland Osnabruck	9		· · · ·				· · · ·		Sunnidale		• • • •	• • • •	••••	2		4	4
Oneida	-							1.									
Oso	1								Seymour							• • • •	
Peel	1			2	2	r		1	Snowden Strong	····i				••••		• • • •	• •
Palmerston Percy				• • • •	5	$\frac{1}{2}$		i	Sarnia					· · · · ·		2	2
Pilkington									Sault Ste Marie	3		18				- 30	
Perry	7		···· :		9			۱	Balluwich W					• • • •			• •
Plantaganet, N. Plympton	55		1	1		2	2	(* ·	Somerville Sidney							10	i
Plummer		• • • •														1	
Puslinch	18			4		2	••	2	Tecumseth	1		1			[]		• •
Portland				• • • •			• • • •		Tehkummah						• •	• • • •	• •
Pelbam Petewawa			4			•••	• • • •	•••	Thesealon Thorold					• • • •			
Pittsburgh							1	1	Thorah								
Papineau					1	1		į	Tilbury, N	3		1		10		15	
Pembroke	1		5	••••	9	1	· · · · 9		Tilbury, E Townsend	-40]			••••		·;	15	
Pickering Proton				1		الآل ا			Trafalgar	3							
Pelee			!		6	1	4	i	Tilbury, W								• •
Pakenham						•••	• • • •	• ·	Toronto Gore Tuckersmith	••••				···	•••	••••	•••
Raglan Rainbam	7	· · · · ·	4	····i	• • •	•••	• • • •		Turnbury					- 11		3	
Raleigh						1			Tyendinaga			1	1			1	• •
			!				1	•	Tossorontio					••••;			• •
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					••••	· 1	• • • •		Uxbridge Vespra						•••	10	1
Ross	····i		$\frac{2}{4}$	1	1									2		2	
Rolph, B. & W.	10								Van Horne				••••	2 	1		• •
Roxborough	31		1	• • • •		• •	• • • •	• •	Wilberforce			3	••••				••
Ratter&Dunnett Ryde				• • • • •	•••••	•••	•••		Wilhamsburg Wabigoon				···i			1	
Ryerson									Williams, E	!				!			• •
Rawdon								$ \cdot $	Wainfleet	····¦			••••	20		7.	• •
Romney Russell		••••			12^{1}	1	1	1	Wallace Woodbouse				••••		•••	2	$\frac{1}{2}$
Sarawack				•••	14	•••	ĩ		Walsingham, S.								
Sandfield									Wawanosh, E.	16		}			• •		
Sandwich, S			••••		4	$ \frac{2}{1} $	••••	1	Wawanosh, W. Waterloo	···· 1		10				15	•••
Saltfleet Saugeen				••••	1	1								1		17	1
Scarborough]	6		- 14	1	1		Westmeath	5				2	1	2	•••
Schrieber	1]	24	3	1				Westminster						1		2
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				••••				1	Willoughby								
Sebastopol Seneca	3				1	1			Willoughby Walsingham, N.				!	6			• •

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Cases and Deaths from Contagious Diseases by Municipalities for 1902. - Continued.

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Townships.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	I leaths.	Townships.	Савев.	Deaths.	Савев.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Wilmot Wolford					4	1			Whitby	<u>2</u>		16				• • • •	•••
ST71 1 1 .1		••••	• • • • •	•••	l'''i		• • • •		Yarmouth Yonge &E.Front .	1		2					
Walpole Widdefield	$ 12 \\ 2 $	1	5			[]	• • • • • • • • • •	[]	Zorra, E	•••		$\frac{7}{27}$	•••	1		4 1	2
Whitby, E	••••	•••	• • • •	• • • •	••••				Zorra, W .	••••	••••	••••	• • • •	•••	•••	••••	••

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SECRETARY AND REGISTRAR

OF THE

PROVINCE OF ONTARIO,

FOR THE YEAR ENDING 31st DAY OF DECEMBER

1902.

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. 1903.



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WARWICK BRO'S & RUTTER, PRINTBRS. TORONTO. To the Honourable Sir Oliver Mowat, Knight Grand Cross of the Most Destinguished Order of St. Michael and St. George, Member of the King's Privy Council for Canada, and 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 December, 1902.

J. R. STRATTON,

Secretary and Registrar of the Province of Ontario.

PROVINCIAL SECRETARY'S OFFICE,

TORONTO, 8th January, 1903.

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PROVINCIAL SECRETARY'S OFFICE. TORONTO, January 8th, 1903.

To the Honourable

JAMES ROBERT STRATTON, M.P.P.,

Secretary of the Province of Ontario,

Etc., Etc., Etc.

SIR,—In submitting his Annual Report with regard to the details of the various services rendered by the Office of the Provincial Secretary during the year 1902, the undersigned begs leave to invite attention to the fact that in every item of work there was evidence of increase over any previous year, while in respect of several items, but more particularly in respect of one to be referred to hereafter, the increase was so marked as to deserve especial notice.

It should be borne in mind that this Report deals, not with the Department as a whole as now constituted or even with the Department proper, being that of the Secretary and Registrar, but, with one of the offices of which it is composed. The Department now includes the Branches of the Registrar-General, the Inspectors of Prisons and Public Charities, the administration of the Liquor License Law, the supervision of the health of the Province and the auditing of Criminal Justice Accounts, by each of which Branches Annual Reports are published.

As has been already been mentioned, the volume of work in the Secretary's Office during the past year maintained the steady growth that has been reported for nearly twenty years. But in one regard such growth has been phenomenal. Allusion is made to the incorporation by Letters Patent of industrial and other Companies under The Ontario Companies Act.

On the occasion of the last revision of the Statutes in 1897, advantage was taken to consolidate, amend and improve The Ontario Joint Stock Companies Letters Patent Act which, in its main features, remained in much the same form as when first passed in 1874. The chief object was to remove or modify certain provisions which experience in the formation and working of joint stock Companies had been shown not to be in the interest of such Companies, and,—a more important matter—no longer in the interest of the general public. While the scope of the Act was enlarged, the Statute itself was adapted so as to secure the better working of Companies in general and to insure the better protection of shareholders. Almost immediately, the new Ontario Companies Act, as it is styled, became popular, and applications for the issue thereunder of Letters Patent doubled and trebled. Of late, it has been found that Ontario Companies can carry on business abroad as well as at home under their Charters, Ontario Companies, like all others, no matter where incorporated, having only to satisfy the local conditions by which they are met. Within the last year or two, Charters

THE REPORT OF THE

have been taken out for Companies intending to carry on their operations elsewhere than in the Province. As a consequence, Companies, some of them working on a very large scale, have been incorporated and are carrying on business in other parts of His Majesty's Dominions, in the United States of America and Cuba, in Central and South America, and even in England and Spain, local conditions having, of course, been complied with. But this is not the only noticable feature as regards Companies. If the reports of earlier years be examined, it will be observed that twenty, fifteen, and even ten years ago, the capitals of Companies being incorporated were so seldom in excess of \$50,000 that a Company having a capital of \$100,000 was spoken of as a " big Company." Such is no longer the case. A capital of \$100,000 now quite frequently appears in a Charter and numerous Companies have been capitalized at amounts far in excess of that sum. Of the Companies ereated last year, very many had capitals exceeding \$100,000, while no less than thirty-eight had capitals fixed at sums between \$500,000 and \$1,000,000 and forty others at sums in excess of \$1,000,000.

As a consequence of the creation of large and important enterprises having wide business interests and relationships, it has been thought that The Ontario Companies Act of 1897, though a marked advance over its predecessor, may still be improved in various respects, and the undersigned would, therefore, recommend for your consideration, either at the next revision of the Statutes of the Province, or at an earlier Session of the Legislature, the propriety of amending the Act so as give effect to various suggestions which have been made by yourself or have occurred to the undersigned in dealing with applications for the incorporation of Companies, or to solicitors who, in advising their clients either before or after incorporation, have had their attention called to details of company management, or working, for which it was doubtful that the Act had made provision.

During the year, many Extra Provincial Corporations received Licenses. It is not surprising that the total number of Licenses issued was less than the total number issued in 1901. The reason for this is that last year, as a rule, they were granted to Companies which had newly come into Ontario, while in 1900 and 1901 most of the Licenses went to Companies which had been carrying on business in the Province when The Act respecting the Licensing of Extra Provincial Corporations was passed. This Act has been found to have a salutary effect, for in addition to affording to anyone interested an official means by which can be obtained information as to the incorporation, existence and powers of foreign Companies operating in Ontario, it has simplified legal procedure by obliging each licensed Company to be represented in the Province by some one acting as its duly appointed Attorney, upon whom, if necessary, process can be served. It has, also, removed the complaint, often made prior to the year 1900, that outside Companies were being allowed to carry on business in Ontario and to compete unfairly with Companies incorporated under

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our laws which were subject to certain Statutory provisions and conditions which foreign Companies escaped.

For the first time, it has been found to be difficult, if not impossible, to compile accurate statistics as to the correspondence carried on in the Secretary's Office during any given year. The communications of every kind which have been received and which have been sent out have been, in volume, largely in excess of that of any previous year. As time passes, and as different means have to be adopted for acknowledging receipt of applications for various kinds of forms and the transmission of returns, fees, etc., etc., in addition to the more formal correspondence by letter, there are no longer the facilities for keeping record that at one time existed. However, it may be stated that this service has been one of the most exacting in this office.

Possibly, the best means of testing the work done is afforded by the fees paid into the Secretary's Office.

The fees derived from the services rendered by the Department during the year amounted in the aggregate to \$108,758.91, and, the sum of \$1,189 having been for various reasons refunded, to the net amount of \$107,-569.91. an increase over the previous year of \$20,035. The appended table shows the fees as they were received month by month.

Statement of Office Fees by Months.

	January.	\$ 5,597	45	
	February	17,993	79	
	March.	7,426	00	
	April	10,845	40	
	May	8,610	41	
	June	7,959	20	
	July	8,023	90	
	August	6,669	10	
	September	7,558	80	
	October	9,041	16	
	November	8,844	13	
	December	10,192	35	
	-			\$108,758 91
				\$108,758 91
102				\$108,758 91
0.9			00	\$108,758 91
0.9	s following Refunds :		00	\$108,758 <mark>91</mark>
0.0	s following Refunds : Echo Lake Mining Company	5 100	00	\$108,758 91
102	s following Refunds : Echo Lake Mining Company University Company	5 100	00 00 00	\$108,758 91
0	s following Refunds : Echo Lake Mining Company University Company York Riding and Driving Club	5 100 2	00 00 00 00	\$108,758 91
02	s following Refunds : Echo Lake Mining Company University Company York Riding and Driving Club King Edward Scientific Institute	5 100 2 10 160	00 00 00 00	\$108,758 91
0	Image: State of the state	5 100 2 10 160	00 00 00 00 00	\$108,758 91
102	s following Refunds : Echo Lake Mining Company University Company York Riding and Driving Club King Edward Scientific Institute Prince Edward Independent Telephone Company Woodstock, Thames Valley and I. Electric Railway	$5 \\ 100 \\ 2 \\ 10 \\ 160 \\ 5 \\ 1$	00 00 00 00 00 00	\$108,758 91
102	s following Refunds : Echo Lake Mining Company University Company York Riding and Driving Club King Edward Scientific Institute Prince Edward Independent Telephone Company Woodstock, Thames Valley and I. Electric Railway Veterans Locating and Colonization Association	$5 \\ 100 \\ 2 \\ 10 \\ 160 \\ 5 \\ 100 $	 100 000 000 000 000 000 000 000 000 	\$108,758 91

Bowmanville Foundry Company	\$ 10 00	
H. W. Nelson and Company	$50 \ 00$	
John Abell Engine and Machine Company	$385 \ 00$	
Sun Oil Refining Company	50 00	
Less transferred to Registrar Loan Corporations:		
Toronto Savings and Loan	100 00	
Land Security Company	$2 \ 00$	
	\$	1,189 00

\$107,569 91

Statement of General Fees received during 1902.

Letters Patent, Licenses, etc	\$95,330	60
Returns from Companies	8,038	05
Marriage Act Forms	3,218	50
Notarial Commissions	440	15
Commissions under Great Seal	1,158	35
Certificates	123	50
Searches	449	76
	\$108,758	91
Less refunds and transfers	1,189	00
Total	\$107,569	91

Number of Charters and Licenses issued.

Year.	No. of Instruments.	Fees
1891	152	\$ 5,030
1892	158	6,780
1893	138	8,465
1894	139	7,720
1895	174	10,060
1896	154	14,335
1897	358	34,650
1898	295	23,820
1899	416	60,817
1900	438	71,179
1901	450	75,782
1902	591	95,330

The following Proclamations were issued during the year 1902 :

1. Summoning the Legislative Assembly for the despatch of business.

2. Re Royal Style and Titles in recognition of His Majesty's Dominions beyond the Seas, together with those issued by the Dominion and Imperial Governments to the same effect.

3. Additions to the limits of the Town of Wallaceburg.

4. Addition to the limits of the Town of Wiarton.

5. Amending proclamation re the Town of Wallaceburg.

6. Dissolving the Legislative Assembly.

- 7. Respecting Imperial Statutes relating to Property and Civil Rights.
 - 8. Addition to the limits of the Town of Paris.
 - 9. Addition to the limits of the City of Hamilton.
 - 10. Additions to the limits of the Village of East Toronto.
 - 11. Village of East Toronto (Supplementary.)
 - 12 Offering reward for the apprehension of the murderer of one Frank Hale.

I3. Fixing the 25th day of May, 1903, as the day for the celebration of His Majesty's Birthday.

14. Erecting the Village of Alexandria into a Town to be known as the "Town of Alexandria."

15. Erecting the Village of East Toronto into a Town by the name of "The Town of East Toronto."

16. Withdrawing the Town of Smiths Falls from the jurisdiction of the Council of the County of Lanark.

17. Erecting Bruce Mines into a Corporation by the name of "The Corporation of the Town of Bruce Mines."

The usual Tables and Appendices accompany this Report.

All of which is respectfully submitted,

G. E. LUMSDEN,

Assistant Secretary.

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	1902.	6,766	÷		•		530	13	•	436	126	2,500	106,955		* * * * * * * * *	234	\$\$8,643,\$107,269-91	17	272	290
	1901.	7,003	23,000	25,000	3,500	2,300	516	31	2,000	329	147	2,000	64,948		4,500	420	\$58,643,	10	451	650
-	1900	6,010	17,118	19 650	2,840	2,282	438	29	1,000	285	118	· · · · · · · · · · · · · · · · · · ·	67,520	5,500	3,000	281	\$76,997	6	465	472
	1899.	6, 190	15,038	16,740	3,255	$2_{7}077$	416	10	800	1994	162	5,500	31,467	5,500	1,000	284	\$67,851	6	575	165
	1898.	6,301	13,317	14,394	3, 153	3,490	255	1%	0 10 10 10 10 10 10 10 10 10 10 10 10 10	348	119	5,500	28,697	5,500	1,000	169	\$28 520	6	430	282
	1897.	6,478	11,816	15,264	2,298	2,679	358	18	300	440	128	5,000	34,045	5,500	400	225	\$39,286	6	401	400
	1896.	6,279	13,472	17,385	2,877	3,467	151	10	500	365	113	4, 700	30,945	5,000	350	185	\$18,847	6	430	177
	1895.	5,391	13,754	13,595	4,044	4,394	174	1.4	350	592	131	4,000	27,098	5,500	350	308	\$14,384	2	495	196
	1894.	6, 29.2	14,330	17,812	2,660	2,616	139	11	1,300	364	50	3,500	37,459	5,000	300	338	282 \$5, 688 \$7, 021 \$6, 947 \$9, 190, \$9, 193 \$13, 204 \$12, 400 \$14, 384	9	191	163
	1893.	5,330	13,928	14,761	2,636	2,621	138	21	150	396	108	3,000	28,965	5,000	500	305	\$13.204	9	482	189
	1691	4,379	12,618	13,573	3,013	$2,6 \le 5$	152	16	500	544	105	2,800	28,300	5,000	300	297	\$9,193	10	465	621
	1888	4,275	6 097 10, 626 12, 648	5,734 13,458 13,573	2,9.18	2,760	117	19	009	430	110	1,500	28,422 27,882 26,254 29,911 28,300	3,500	2,700	534	\$9,190	13	541	150
	1886.	3,570			899	2,689	90	14	200	394	93	1,000	26,254	2,000	2,350	227	\$6,947	13	535	119
	1881.	2,408	4,162	3,756	1,790	1,395	119		954	359	26	2,500	27,882	1,800	3,500	275	\$7,021	17	525	127
	1875.	1,862	3,2 +9	3,326	1,642	996	57		1,429	160	37	135	28,422	•	• • •	139	\$5,688	21	94	80
I J	1871.	1,264	1,690	1,280	912	470	24		60	195	72	58	•		*	190	\$2,282	16	149	58
	1863.	1,172	2,107	1,667	481	256	. 19		240	34	48	52	• • • • •	•	•	135	\$1,938 \$2,	*	110	17
•	Work done.	No. of Fyles vide the Office Registur	Latters, etc., received (est.).	1 etters, etc., sent (est.)	References to other dep'ts (est.)	Reports from other dep'ts (est.)	Letters Patent and Licenses	Supplementary Letters Patent.	Circulars (est.)	Warrants re lunatics	[Notarial] Certificates	Sta tutory returns, etc. (est.)	Marriage Act Forms, etc., issued	Forms distributed to Sheriffs .	Other printed forms	Commissisna: Great and Privy Seals	Fees received	Ontario Gazette : Proclamations published	Appointments gazetted.	Public notices

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APPENDIX II.

LIST OF CHARTERS ISSUED DURING THE YEAR 1902.

APPENDIX II. List of Charters issued during the year 1902.

Name of Company.	Capital.	Head Office.
А.	8	
A. I. McCall and Company, Limited The Alwington Springs Hotel Company. Limited Alexander Fleck, Limited The Algoma Tube Works, Limited Atlantic Pulp and Paper Company, Limited American Tent and Awning Company, Limited The Automobile Garage, Limited The Automobile Garage, Limited The Alpha, Delta, Phi House of Toronto, Limited The Archer Development Company, Limited The Agate Poultry Company, Limited The Algoma Navigation Company, Limited The Algoma Navigation Company, Limited The Algoma Navigation Company, Limited The Alexander Brown Milling and Elevator Company, Limited American-Abell Engine and Thresher Company, Limited Alpha Paving Company, Limited The Allen and Hanburys Company, Limited The Ault and Wihorg Company of Canada, Limited Allen Manufacturing Company, Limited. The Algoma Consolidated Silver Mines, Limited. The Alexandra Palaee Company, Limited	$\begin{array}{c} 150,000\\ 50,000\\ 30,000,000\\ 40,000\\ 40,000\\ 15,000\\ 300,000\\ 10,000\\ 250,000\\ 300,000\\ 1,000,000\\ 50,000\\ 50,000\\ 500,000\\ 1,000,000\\ 10,000,000\\ 10,000\\ 000\\ $	Toronto, Toronto, Toronto, Davisville, Toronto, Toronto, Toronto, Toronto, Toronto, Toronto, Toronto, Toronto, Toronto, Toronto, Toronto,
The Alexandra Palace Company, Limited	100,000	loronto.
В,		
The Big Four Cap Company, Limited The Boake Manufacturing Company, Limited The Broadbent Wood Turning Company, Limited Beaverton Brick and Tile Company, Limited Beaverton Brick and Tile Company, Limited The Blonde Lumber and Manufacturing Company, Limited The Ball Furniture Company, Limited Bell and Son, Limited Bearrie Curling and Athletie Club, Limited The Bartie Curling and Athletie Club, Limited The Bartie Curling and Athletie Club, Limited The Bird Woollen Mill Company, Limited The Burton and Baldwin Manufacturing Company, Limited The Burton and Baldwin Manufacturing Company, Limited The Burton and Baldwin Manufacturing Company, Limited Britannia Athletic Association, Limited Britannia Athletic Association, Limited The Burritt and Deacon Company, Limited Britania Athletic Association, Limited The Bear Creek Centery Company, Limited The Bear Paper Company, Limited The Brodhagen Lumber Company, Limited The Baden Manufacturing Company, Limited The Baden Manufacturing Company, Limited The Baden Manufacturing Company, Limited The Brothagen Lumber Company, Limited The British-Canadian Croekery Company, Limited	$\begin{array}{c} 60,000\\ 20,000\\ 17,000\\ 80,000\\ 40,000\\ 200,000\\ 10,000\\ 50,000\\ 40,000\\ 40,000\\ 40,000\\ 10,000\\ 10,000\\ 10,000\\ 10,000\\ 10,000\\ 10,000\\ 40,000\\ 150,000\\ 40,000\\ 10,000\\ 40,000\\ 10,00$	Toronto. Toronto. Broadhent. Beaverton. Chatham. Hanover. St. George. Barrie. Bracehridge. London. Hamilton. Bruce Mines. Hamilton. Stratford. Brigden. Bracebridge. Toronto. Owen Sound. Brodhagen. Baden. Lanark. Brantford. Toronto. Toronto. Toronto. Toronto. Toronto. Brantford. Brantford. Brantford. Bruce Mines. Toronto.
The Chipman-Holton Knitting Company, Limited	500,000	Hamilton. Cargill. Wiarton.

APPENDIX II.-List of Charters issued during the year 1902.

	0.2.1	TT 1 ()(1)
Name of Company.	Capital.	Head Office.
	5	
	7 000	0.11
The Canadian Cream Cheese Company, Limited		Ottawa.
Canadian Policy-Holders' Union, Limited		Toronto.
The Canadian Investment and Brokerage Company, Limited		Toronto.
The Consolidated Copper Company of Parry Sound, Limited	-5,000,000	Parry Sound.
Crown Whitewear Company, Limited	100.000	Toronto.
Cowan and Company of Galt, Limited	100,000	Galt.
The Cook, Lummis Lumber Company, Limited		Spragge.
Canada Pine Lumber Company, Limited		Hamilton.
The C. C. Pay Company, Limited		
The C. C. Ray Company, Limited		Ottawa.
The Uanadian Ultimator Company, Limited	50,000	Peterborough.
The Computing Scale Company of Canada, Limited		Toronto.
The Christie Brothers Company, Limited		Owen Sound.
Canada Carbon Light Company, Limited	150,600	Toronto.
The Canadian Seoria Block Company, Limited	150,000	Toronto.
C. Stephens Company, Limited	100,000	Collingwood.
Consolidated Electric Company, Limited		Toronto.
Cornwall Street Railway, Light and Power Company, Limited.		Cornwall.
The Canada Last Company, Limited		Toronto.
The Canadian Dolling Stock Commons Limited		
The Canadian Rolling Stock Company, Limited	2,000,000	Toronto
Chippewa Consolidated Gold Mining and Milling Company,		-
Limited	2,000,000	Toronto.
Crawford Brothers, Limited	40,000	Toronto.
Canada Crude Oil Producers, Limited	100,000	Toronto.
The Copper Queen Mining Company, Limited	3,000,000	Sault Ste. Marie.
Canadian-American Linotype Corporation, Limited		Toronto.
The Canadian Conservatory of Music, Limited		Ottawa.
The Canadian-Buffalo Forge Company, Limited		Toronto.
The Canadian Coral Marble Company, Limited		
The Canadian Colar Mariole Co upany, Limited		Toronto,
The Canadian Correspondence College, Limited		Toronto.
The Colonial Typewriter Company, Limited		Peterborough.
Colonial Weaving Company, Limited	60,000	Toronto.
The Citizen's Water, Gas and Electric Company of Strathroy.		
Limited	50,000	Strathroy.
The Canadian Household Supply Manufacturing Company, Limited.		Windsor.
Clover Leaf Mining Company, Limited	1,000,000	
Canadian Machine Telephone Company, Limited		Ottawa.
The Chris. Moore Company, Limited		Orillia.
The Chaney Burglar Proof Sash Lock Company, Limited		Toronto.
The Caesdian Northam Pailman Floreton Company, Limited		
The Canadian Northern Railway Elevator Company, Limited		Toronto.
The Cerberite Company of Canada, Limited.		Toronto.
U. Wilson and Son, Limited		Toronto.
The Canadian Wood Manufacturing Company, Limited		Toronto.
Canada Metal Milling Company, Limited	50,000	Toronto
The Canada Metal Company, Limited	20,000	Toronto.
The Cornwall Furniture Company, Limited	50,000	Cornwall.
The Contractors Supply Company, Limited		Ottawa.
The Canadian Gum and Contectionery Company Limited		Toronto.
The Crown Furniture Company of Preston, Limited		Preston.
The Canadian Store Advertising Association. Limited	, , ,	
City Steam Laundry Company of Collingwood, Limited		Toronto. Collingwood,
The Chaplin Wheel Company Jimited		
The Chaplin Wheel Company, Limited		St. Catharines.
The Consolidated Petroleum Company, Limited		London.
The Claffin Chemical Company, Limited		Windsor.
The Canadian Export Company, Limited	50,000	Toronto.
The Canadian Cash Register Company of Toronto, Limited	50,000	Toronto.
The Canadian Automatic Hay Press Company, Limited		Brantford.
The Cassiar Coal Development Company, Limited		Toronto.
The Chinese-Ontario Gensing Company, Limited		Dutton.
The Crocker-Parks Oil Company, Limited.		Oil Springs.
and official section of the one party, in minor and the section of	30,000	on oprings.

APPENDIX II.-List of Charters issued during the year 1902.

Name of Company.	Capital.	Head Office.
	8	
Canada Fish Company Limited	1,000,000	Toronto.
Canada Steel Shafting Company, Limited		Toronto.
The Canadian Shipbuilding Company, Limited.		Toronto.
The Canada Lanneh Works, Limited		Toronto.
The Clifton Hotel Company, Limited		Niagara Falls. London.
The Canadian Trinidad Association, Limited	300,000	Walkerville.
The Curtis Serew Making Machine Company, Limited		Toronto. Hamilton.
The Crossin Piano Manufacturing Company, Limited	50,000	Toronto.
The Chatham Oil Company, Limited		Chatham. Owen Sound.
The Culverhouse Optical Company, Limited		Toronto.
D.		
The Dufferin Casket Company, Limited	50,000	Orangeville.
D. S. Perrin and Company, Limited	250,000	London.
The Dominion Harness Company, Limited The Dominion Cereal Company, Limited		Port Elgin. Peterborough.
The Dunwich Farmer's Building Company, Limited		Dutton.
The Dominion Motor and Machine Company, Limited	40,000 100,000	Toronto.
The Delhi Fruit and Vegetable Canning Company, Limited		Peterborough.
Dominion Peat Products Limited	100,000	Brantford.
The Dominion Supply Company, Limited The Doctor Gordon Medicine Company, Limited		Ottawa. Toronto.
The Dunwich Gas and Oil Company, Limited	100,000	St. Thomas.
The Dominion Bakeries, Limited The Dominion Oil Filter and Metal Company, Limited		Toronto. Guelph.
The de Kleist Musical Machine Company, Limited	500,000	Toronto.
The Downie Milling Company, Limited		South River. Toronto.
The Dominion Library Company, Limited	14,000	Ottawa.
Domestic Supplies Company, Limited		Toronto.
The Dymond-Sommerville Company of Strathroy, Limited The Dominion Canister Company of Toronto, Limited		Strathroy. Toronto.
Dominion Phelps, Limited	250,000	Toronto.
The Delta Kappa Epsilon Chapter House Company of Toronto, Limited		Toronto.
Limited Dominion Oil Company, Limited		Chatham.
The Daisy Petroleum Company, Limited		London. Hamilton.
E.		
The Eastman Machine Company, Limited.	30,000	Toronto,
Ennis and Company, Limited	100,000	Hamilton.
The Enterprise Specialty Company, Limited		Toronto. St. Catharines.
The Empire Electric and Manufacturing Company of Ottawa, Limited	40,000	Ottawa.
The E. D. Tillson Estate, Limited Excelsior Shoe Company, Limited		Tillsonburg. Toronto.
Eureka Specialty Company, Limited	40,000	Toronto.
The E. H. Jackson Company, Limited		Simcoe.
The Eagle Knitting Company, Limited E. & S. Currie, Limited		Hamilton. Toronto.
E. & S. Currie, Limited The Ellis Manufacturing Company, Limited	100,000	Port Dover.

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APPENDIX H.-List of Charters issued during the year 1902.

F. The Fowke Singer Company, Limited The Fort Frances Hematite Company, Limited The Foster Pottery Company, Limited The Fort Frances Hematite Company, Limited The Foster Pottery Company, Limited The Fornenac Cereal Company, Limited Faramel, Limited Faramel, Limited The Frontier Lighting Company, Limited The Fort Eric Jockey Club, Limited The Forged Steel Car Wheel Company, Limited G. R G. The Galt Carpet Company, Limited Grip, Limited The Guelph Cigar Company, Limited The Globe Refining Company, Limited The Globe Wernicke Company, Limited The Globe Wernicke Company, Limited The Guelph Biscuit and Confectionery Company, Limited The Goulais Bay Mining Company, Limited The Goulais Bay Mining Company, Limited Granns', Limited The General Distilling Company, Limited The Grant Acetylene Generator Company, Limited	40,000 40,000 40,000 600,000	Toronto, Goderich.
F. The Fowke Singer Company, Limited The Fowke Singer Company, Limited The Fort Frances Hematite Company, Limited The Foster Pottery Company, Limited The Forter e Lighting Company, Limited The Forged Steel Car Wheel Company, Limited G. G. The Galt Carpet Company, Limited The Gelph Cigar Company, Limited The Galt Carpet Company, Limited The Galt Carpet Company, Limited The Galt Carpet Company, Limited The Galph Cigar Company, Limited The Golobe Refining Company, Limited The Golobe Refining Company, Limited The Golobe Wernieke Company, Limited The Golakis Bay Mining Company, Limited The Golakis Bay Mining Company, Limited Geraat Lakes Dredging Company, Limited The Grant Acetylene Generator Company, Limited The Grant Acetylene Generator Company, Limited The Grant Acetylene Generator Company, Limited The Grant Acetylene Generator Company, Limited The Griffiths-Dixon Company, L	50,000 40,000 40,000 40,000 600,000	
The Fowke Singer Company, Limited The Fort Frances Hematite Company, Limited The Forter Pottery Company, Limited The Frontiena Cereal Company, Limited The Frontier Lighting Company, Limited The Fort Eric Jockey Club, Limited The Forged Steel Car Wheel Company, Limited The Galt Carpet Company, Limited The Galt Carpet Company, Limited The Galt Carpet Company, Limited The Galt Carpet Company, Limited The Galeph Cigar Company, Limited The Galeph Cigar Company, Limited The Gobe Refining Company, Limited Giant Cold Company, Limited The Gobe Refining Company, Limited Gorman, Eckert and Company, Limited The Goulais Bay Mining Company, Limited Gorman, Eckert and Company, Limited The General Distilling Company, Limited The Grant Acetylene Generator Company, Limited The Grant Acetylene Generator Company, Limited The Grant Sciented Hamilton. Berkinshaw Company, Limited Ha Hamilton. Berkinshaw Company, Limited H. W. Nelson and Company, Limited Hamilton Liberal Club, Limited	40,000 40,000 600,000	•
The Fort Frances Hematite Company, Limited	40,000 40,000 600,000	
The Galt Carpet Company, Limited Grip, Limited The Guelph Cigar Company, Limited The Globe Refining Company, Limited The Globe Refining Company, Limited The Globe Refining Company, Limited Giant Gold Company, Limited The Globe Wernieke Company, Limited The Globe Wernieke Company, Limited The Guelph Biscuit and Confectionery Company, Limited The Guelais Bay Mining Company, Limited Gorman, Eckert and Company, Limited Great Lakes Dredging Company, Limited Great Lakes Dredging Company, Limited The Great North-West Mining Company, Limited The Griffiths-Dixon Company, Limited H Hamilton, Berkinshaw Company, Limited. H. Hamilton, Liberal Chub, Limited	-40,000	Toronto, Fort Frances, Hamilton, Kingston, Toronto, Bridgeburg, Fort Erie, Perth.
Grip, Limited		
Hamilton, Berkinshaw Company, Limited. The Hawkins Construction Company, Limited H. W. Nelson and Company, Limited The Hamilton Liberal Club, Limited	$\begin{array}{c} 5,000\\ 300,000\\ 90,000\\ 700,000\\ 100,000\\ 100,000\\ 40,000\\ 3,000,000\\ 100,000\\ 750,000\\ 600,000\\ 250,000\\ 100,000\\ 100,000\\ 40,000\\ \end{array}$	Toronto. Guelph. Ottawa. St. Mary's. Gold Rock. Stratford. Guelph. Toronto. Sault Ste. Marie. London. Toronto. Toronto. Toronto. St. Thomas.
 The Hagersville Contracting Company, Limited The Hagersville Contracting Company, Limited The Hobbs Manufacturing Company, Limited The Hobbs Mardware Company, Limited The Huntsville and Bracebridge Tanning Company. Limited The Huntsville and Bracebridge Tanning Company. Limited The Huntsville, Lake of Bays and Lake Simcoe Navigation Company. Limited H. S. Falls Company of Simcoe, Limited H. S. Howland Sons and Company, Limited The Hamburg-American Wagon Company, Limited The Hanover Specialty Company, Limited Hass Furniture Company of Bracebridge, Canada, Limited Hog and Lytle, Limited The H. R. Lamb Fence Company, Limited The Hallamore Pharmacy Company, Limited The Hatch Electric Smelting and Refining Company of Ontario. Limited 	$\begin{array}{c} 20,000\\ 50,000\\ 30,000\\ 40,000\\ 30,000\\ 50,000\\ 75,000\\ 105,000\\ 105,000\\ 100,000\\ 50,600\\ 100,000\\ 100,000\\ 100,000\\ 40,000\\ \end{array}$	Toronto, Toronto, Hamilton, New Hamburg, Hagersville London, Kleinburg, Huntsville, Simcoe, Huntsville, Toronto, New Hamburg, Hanover, Braecbridge, Oakwood, London, Toronto,

APPENDIX II. List of Charters issued during the year 1902.

Name of Company. Head Office. Capital. S 10,000 St. Joseph. 3,000,000 Toronto. 1,000,000 Toronto. -100,000 Hamilton. 20,000 Toronto. The Huron Mineral Water Company, Limited..... The Home Gold and Copper Company, Limited The Henderson Roller Bearing Manufacturing Company, Limited The Henry Kuntz Brewing Company of Hamilton, Limited 50,000 Owen Sound. 50,000 Toronto. 50,000 London. 40,000 Toronto. The Haggas Gas Engine Company, Limited Ĩ. The Iron-Ox Remedy Company, Limited 100,000 Walkerville. 100,000 Walkerville. 100,000 Sanlt Ste. Marie. 75,000 Toronto. 40,000 Toronto. 75,000 Westport. 100,000 Toronto. 100,000 Toronto. 1,500,000 Sault Ste. Marie. International Lumber Company, Limited The Imperial Plaster Company, Limited The Imperial Rolling Stock Company, Limited The Imperial Veneer Company, Limited The International Buckle Company, Limited The International Bickle Company, Limited The International Mercantile Agency, Limited The International Mining Company, Limited Imperial Paper Company, Limited Imperial Natural Gas, Limited Industrial Scap and Oil Company, Limited Industrial Bord Low Gemany Limited 100,000 Toronto. 100,000 Brantford. 200,000 Toronto. 1,000,000 Toronto. International Portland Company, Limited International Portland Cement Company, Limited Inland Lakes Transportation Company, Limited Indian Joe Gold Mining Company, Limited 1,000,000 Collingwood. 500,000 Teronto. J. 1,000,000 50,000 40,000 Pembroke. The John Abell Engine and Machine Company, Limited The Journal Publishing Company of St. Thomas, Limited The Jocko River Improvement Company Limited The Journal of Saint Catharines, Limited..... 20,000 St. Catharines. 75,000 Ottawa. J. L Rochester, Limited J. M. Green and Sons, Limited... 50,000 St. Thomas. 100,000 Toronto. 40,000 Toronto. J. M. Green and Sons, Limited.... J. F. McLaughlin Company, Limited.... J. A. Carveth and Company, Limited.... The Jubilee Mining Company, Limited The J. Hoodless Furniture Company, Limited. 40.000 Toronto. 500,000 Toronto. 40,000 Hamilton. К. King, Darrell, Walker Company, Limited The H. Krug Furniture Company, Limited The King Edward Hotel Company, Limited 40,000 Toronto. 100,000 Berlin. 500,000 Toronto. 1,000,000 Toronto. The Keenora Mining Company, Limited The Kemp Manure Spreader Company, Limited. 60,000 Stratford. L. 1,000,000 Toronto. 50,000 Windsor. 40,000 London. The Lake Superior Terminals Company. Limited..... Lake Superior Timber Company, Limited. . The London Builders' Supply and Manufacturing Company, Limited The Lake of Bays Wool Manufacturing Company, Limited.... 25,000 Birkendale. 50,000 Toronto. 200,000 London. 40.000 Toronto. The Lambton Golf and Country Club, Limited

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Name of Company.	Capital.	Head Office.
The Laurentian Mining Company, Limited	\$	Taranta.
The L. McBrine Company, Limited. Lake Rosseau Lumber Company, Limited. The Lake Erie Coal Company, Limited.	$50,000 \\ 40,000$	Berlin. Toronto. Walkerville
Little Rock Consolidated Mining and Development Company, Limited The London-Elgin Oil Company, Limited	1,000,000	
Littlejohn and Vaughan. Limited	40,000	Toronto. London.
M. '	40,000	Midland.

APPENDIX II.-List of Charters issued during the year 1902

The Midland Mercantile and Trading Company, Limited
The McQuay Tanning Company, Limited
The Meaford Manufacturing Company, Limited
The McLachlan-Joy Electric Company, Limited
Mackenzie, Mann and Company, Limited
The McGregor, Banwell Fence Company, Limited
The Milner-Petrolia Waggon Company, Limited
The Mnskoka Wood Manufacturing Company, Limited
McFarlane Company, Limited
McFarlane Company, Limited Mulholland, Buchanan Company, Limited
The Mineral Range Iron Mining Company, Limited
The Merchants' Union Company, Limited
The Metzger, Wilcox, Eldridge Company, Limited
The MacKenzie Power and Development Company, Limited
McGregor and McIntyre, Limited
The Modern Telephone Company of Hamilton, Limited
Malaga Suburban Railways, Limited
The Mariposa Mining Company, Limited
The Modern Transit Company, Limited
The Manitoulin Reformer Printing and Publishing Company,
Limited
The Morgan Company, Limited
The McMurtry Company, Limited
The Mount Forest Mannfacturing Company, Limited
The Mill Properties Company of Dundas, Limited
The Montrose Paper Company. Limited
The Manes Tailoring Company, Limited
McAlpin Consumers' Tobacco Company, Limited
The Mntual Natural Gas Company

N.

New Ontario Builders and Contractors Supply Company, Limit	ed
The New York and Ontario Gold Mining Company, Limited	
The National Box Company, Limited	
The National Mica Grinding Company, Limited	
The New Ontario Dock and Coal Company, Limited	
The Newmarket Sugar Company, Limited	
National Lumber Company, Limited	
The Norfolk County Barn Company, Limited	
National Cross-Ply Veneer Company, Limited	
The National Electric Company, Limited	
The Niagara Falls Machine and Foundry Company, Limited	
The New Ontario Steamship Company, Limited	
The New Davis Dental Manufacturing Company, Limited	
The Nipissing Telephone Company, Limited	
The North West Ranching and Packing Company, Limited	
The New York and Canadian Copper Company, Limited	
2 S.R.	

100,000 Port Colhorne. 20,000 Sault Ste. Marie. 1,000,000: Kingston. 20,000 Toronto. 50,000 Gananoque 100,000 Sault Ste. Marie. 40,000 Newmarket. 100,000 Toronto. 10,000 Simcoe. 100,000 Toronto. 40,000 Toronto. 10,000 Niagara Falls. 100,000 Hamilton. 100,000 Toronto. 5,000 Sturgeon Falls. 500,000 Toronto. 1,000,000, Kingston.

50,000 Owen Sound. 50,000 Meaford. 37,000 Mearoru, 37,000 Toronto. 5,000,000 Toronto. 60,000 Windsor. 100,000 Petrolia.

40,000 Huntsville.

100,000 Toronto. 100,000 Toronto. 500,000 Windsor. 500,000 Toronto. 15,000 Sault Ste. Marie.

100,000 Parry Sound. 100,000 Toronto. 300,000 Hamilton. 2,500,000 Toronto. 3,000,000 Sault Ste. Marie. 40,000 Midland.

> 5,000 Gore Bay. 40,000 Toronto.

40.000 Toronto. 500,000 Toronto.

25,000 Midland. 40,000 Mount Forest. 25,000 Dundas. 100,000 Thorold.

Name of Company.	Capital.	Head Office,	
The National Petroleum Company of Petrolea, Limited		Gnelph.	
The National Publishing Company of Toronto, Limited The North Bay Gas Company, Limited North Shore Reduction Company O.	$40,000 \\ 45,000 \\ 1,500,000$	North Bay.	
The Ontario Fruit Package Company, Limited	50,000	Ingersoll.	
The Oshawa Canning Company, Limited The O. R. Medicine Company, Limited	$100,000 \\ 50,000$	Toronto.	
O. B. Stanton and Company, Limited Ontario Can Company, Limited The Ottawa and Rideau Lakes Rapid Transit Company, Limited	250,000	Toronto. Toronto.	
The Oshawa Steam and Gas Fittings Company, Limited	50,000	Ottawa. Oshawa. Oshawa.	
The Ontario Poultry Produce Company, Limited	6,000 200,000	Toronto. Walkerville. Orillia.	
The Ottawa Machinery Company, Limited The Ontario Works Building Company, Limited The Owen Sound Fruit Packing Company, Limited The Ontario Compressed Air Dustless House-Cleaning Company	$100,000 \\ 40,000$	Ottawa. Niagara Falls. Owen Sound.	
Limited Oxley-Enos Company, Limited The Ontario Asphalt Block Company, Limițed	10,000 150,000	Toronto. Toronto. Windsor.	
The Ottawa Steel Casting Company, Limited	10,000	Ottawa. Orillia. Dundas.	
Р.			
The Personal Athletic and Amusement Club of Toronto, Limited The Pontiae Power Company, Limited		Toronto. Ottawa.	
Peterborough Peat Company, Limited P. W. Ellis and Company, Limited The President Gold Mining Company, Limited	750,000	Peterborough. Toronto. Toronto.	
The Parisian Laundry Company of Hamilton, Limited The Port Hope Skating and Curling Company, Limited The Puritan Laundry Company, Limited	50,000 10,000	Hamilton. Port Hope. Toronto.	
The Phelps Light, Limited Penberthy Injector Company, Limited	500,000 40,000	Toronto. Windsor.	
The Pin Cushion Black Board Company, Limited The Powassan Lumber Company, Limited Protogene Gold Mines Company, Limited	20,000	Toronto. Powassan. Windsor.	
Prime and Rankin, Limited The Phoenix Gold Mining Company, Limited Pan Empire Manufacturing Company, Limited	1,000,000	Toronto. Fort Erie. Toronto.	
The Paris Plow Company, Limited Photo Mounts, Limited The Pearl Laundry Company, Limited	250,000 25,000		
The Power Equipment Company of Ontario, Limited The Peterborough Hoekey Club, Limited Pure Milk Supply Company, Limited	10,000	London. Peterborough. Sault Ste. Marie	
Port Dover Natural Gas and Oil Company The Peterborough Sugar Company, Limited Page-Hersey Iron and Tube Company, Limited	350,000	Port Dove r. Peterborongh. Guelph.	
Q.			

APPENDIX II.-List of Charters issued during the year 1902.

Appendix III	ist of Charters	issued during	the year 1902.
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A-0 2		
Name of Company.	Capital.	Head Office.
· · · · · · · · · · · · · · · · · · ·	8	
The Qneen City Vinegar Company, Limited		Toronto.
The Queen City Agency Company, Limited	50,000	Toronto.
R.		
The Richmondt Conduit and Manufacturing Company, Limited	40,000	Toronto.
The Rideau Curling Club of Ottawa, Limited		Ottawa.
Robert Elder Carriage Works, Limited.	20,000	
The Ramage Process Company, Limited		Toronte.
Roeko Manufacturing Company, Limited		Toronto.
The Rideau Graphite Company, Limited	30,000	
The Reofrew Milling Company, Limited		Renfrew.
Raven Lake Portland Čement Company, Limited		Toronto. Toronto.
The Rolston Electric Lanndry Company, Limited		Renfrew.
The Renfrew Roller Mills Company, Limited The Roman Stone Company, Limited		Toronto.
The Rogers Furniture Company, Limited		Toronto.
Rota Filters, Limited		Windsor.
The Raleigh Oil Company, Limited		Petrolea.
	,	
S.		
The Simister Company, Limited	20,000	Ingersoll.
The Sault Gray Copper Company, Limited		Sault Ste Marie.
The Santa Clara Cigar Company, Limited		Oakville.
Sand and Dredging, Limited		Toronto.
The Sarnia Log-Towing Company, Limited		Saroia.
The Stephenson Carriage Works Company, Limited		Cannington.
The Stratford Herald Printing Company, Limited		Stratford.
Stratford Peat Company, Limited		Toronto.
The Sault Boating Company, Limited		Sault Ste Marie. Meaford.
The Seaman-Kent Company, Limited		Ottawa.
The Supply Company of Ottawa, Limited The Saint Lawrence Terminal Company, Limited		Hamilton.
The Saint Lawrence Terminal Company, Edinted		Saint Thomas.
The Saint Lawrence River Electric Company, Limited		Iroquois.
The S. Knetchel Wood Turning and Furniture Company, Limited		Southampton.
Sovereign Manufacturing Company, Limited		Toronto.
The Sunrise Mining Company, Limited	1,500,000	Sault Ste Marie.
The Sturgeon Falls Advertiser, Limited	5,000	Sturgeon Falls.
The Sylvester Manufacturing Company, Limited		Lindsay.
Superior Portland Cement Company, Limited		Toronto.
The Skeleton Lake Lumber Company, Limited		Toronto.
The Saugeen Mineral Water Company, Limited		Southampton.
The Springbank Mineral Springs, Limited		St. Catharines.
The Standard Printing Company Huntsville, Limited		Huntsville. Torouto
The Surprise Manufacturing Company, Limited		Toronto. Paris.
The Sanderson-Harold Company, Limited.		Toronto.
The Sandard Jareer Company, Limited		Sarnia.
The Standard Ideal Sanitary Company, Limited		Port Hope.
The St. Joe Island Lumber Company, Limited.		Sault Ste Marie.
Saint Thomas Athletie Club, Limited	10,000	Saint Thomas.
The Saugeen Oil Company, Limited	10,000	Walkerton.
The Saugeen Oil Company, Limited The Silicate Brick Company of Ottawa, Limited	50,000	Ottawa.
T		

Τ.

T. W. Hand Fireworks Company, Limited

85,000 Hamilton.

APPENDIX 11.-List of Charters issued during the year 1902.

Name of Company.

Capital. Head Office.

	8	
The Toiler Publishing Company, Limited		Toronto
Taylor and Pringle Company, Limited		Owen Sound.
Thomas Todd and Son, Limited	25,000;	
Treble's, Limited.		Hamilton.
The Toronto Pharmacal Company, Limited		Toronto,
Thomas Brothers, Limited.		St. Thomas. Trout Creek.
Trussler Brothers, Limited The Toronto Junction Lumber Company, Limited		Toronto Junction
The Thomson Drug Company, Limited		Sault Ste Marie.
Toronto Contracting and Paving Company, Limited.		Toronto.
Thornton and Douglas, Limited		Stratford.
The Talbot Oil and Gas Company, Limited		Dutton.
Toronto Fire Brick Company, Limited		Toronto.
T. J. Fair and Company, Limited	90,000	Brantford.
Tower Canadian Oiled Clothing Company, Limited		Toronto.
U.		
Union Detrolours Commune of Consela Limited	25.000	Toronto
Union Petroleum Company of Canada, Limited The Union Baking Company, Limited		Toronto. Toronto.
The Union Daking Company, Lanneed, Limited		Petrolea.
The Union Oil Company of Canada, Limited United Typewriter Company, Limited		Toronto.
United Typewriter Company, Emitted		1010110.
V.		
Voleanic Reef Company, Limited.	1.000.000	Toronto.
Vulean Reduction and Refining Company		Toronto.
I mean reduction and roumpady	,	
W.		
The Wiarton Beet Sugar Manufacturing Company, Limited (Re-		
incorporation)	500.000	Wiarton.
Wickett and Craig, Limited.		Toronto.
W. B. Johnston and Company, Limited.	750,000	Toronto.
The William Wyndham Company, Limited	70,000	Hamilton.
The Wingham Trading Company, Limited		Wingham.
The Wilkinson Plough Company, Limited		Toronto Junction
W. G. Dunn and Company, Limited		Hamilton.
The Western Real Estate Exchange, Limited		London.
The Western Foundry Company, Limited		Wingham.
The Wellington Packing Company, Limited		Wellington.
Williams, Limited	40,000	
W. H. Dwyer Company, Limited		Ottawa. Campbellford.
The Weston Shoe Company, Limited The Warren Bituminous Paving Company of Ontario, Limited		Toronto.
W. S. Bryers-Barkwell Company, Limited		London.
Woodworkers, Limited		Wiarton.
The Western Dairy and Provision Company of Saint Thomas, Lim-	=0,000	
ited	50,000	Saint Thomas.
The Walkerville Water Company, Limited	100,000	Walkerville.
The Williams Piano Company, Limited	250,000	Oshawa.
Z.		
	100.000	Toronto
The Zanzibar Paint Company, Limited	100,000	Toronto.

APPENDIX HI.	List of Supplementary	Letters Patent increasing the Capital Stock of
	Incorporated (Companies during 1902.

Name of Company.	Date.		From	To
anne or company.	Dates		x tom	R O
Bailey Cutlery Company of Brantford, Limited			40,000 74	
Chandler and Massey, Limited	4th April.	1902	100,000 /3	
Collingwood Ship Building Company, Limited The Cloverdale Butter and Cheese Manufacturing	18th April.	1902.	200,000,8	~2,000,000
Company of Hillier, Limited	30th April,	1902	2,000	3 5,000
The Canada Radiator Company, Limited		1902.	150,000	\$ 250,000
The Canadian Oil Refining Company, Limited	12th November,		100,000	200,000
The Canadian Electro-Chemical Company, Limited	19th November,	1902.	100,000	- 300,000
The Frost and Wood Company, Limited	21st March,	1902 .	, ,	2,000,000
The Gee Electrical Engineer Company, Limited	14th February,		10,000	50,000
The George N. Morang and Company, Limited	15th October,	1902	95,000	< 125,000
The Grey and Bruce Portland Cement Company of	1041 Manualian	1003	100.000	500 000
Shallow Lake, Limited The Hamilton Electric Light and Cataract Power	19th November,	1902 1	199,000	500,000
Company, Limited	22nd February,	1969	3,750,000	4,000,000
The Hepworth Manufacturi g Company, Limited.	30th September,		24,000	50,000
The Laurentian Mining Company, Limited	19th December.		1,000,0001	2,000,000
The Lakefield Portland Cement Company, Limited	10th July,	1902.	500,000	1,000,000
The Midland Navigation Company, Limited	13th March,	1902.	200,000	400,000
The Maple Leaf Woollen Mills Company	30th April.	1902	40,000	100,000
McDonald Manufacturing Company, Limited.	4th June,	1902	125,000 /	250,000
The Madawaska Club, Limited	25th June,	1902	2,000	20,000
The McKinnon Dash and Metal Works, Limited.	26th November,		400,000	$700,000 \\ 40,000$
The Ottawa Printing Company, Limited The Ontario Slocan Lumber Company, Limited	17th October, 22nd October,	1902 1902	$10,000 \\ 40,000$	100,000
The Ottawa Milling Company, Limited	17th December,		40,000	99,000
P. R. Cumming Manufacturing Company, Lim-	Trou December,	100	10,000	00,000
ited	25th June,	1902	20,000	5- 100,000
The Sun Printing Company of Toronto, Limited	21st March.	1902.	30,000	, 50,000
The Smart Eby Machine Company, Limited	30th April,	1902.	5,000	50,000
The Sao Paulo Tramway Light and Power Com-				
pany, Limited	15th May,	1902	6,000,0001	7,000,000
The Sultana-Ophir Mining Company, Limited	17th December,		10,000 7	150,000
The Toronto Roller Bearing Company	24th April.	1902.	40,000	100,000
The Tavistock Milling Company, Limited	24th April,	1902.	$20,000 \\ 10,000$	
The J. Coulter Company of Toronto, Limited The Tnckett Cigar Company, Limited	26th March, 25th June,	1902. 1902.	75,000	150,000
The Wallaceburg Sugar Company, Limited.	16th January.	1902.	300,000	350,000
The Woodstock Waggon and Manufacturing Com-	Tom wannary.	100-	0001000	
pany, Limited	5th July,	1902.	25,000	100,000
	0			-
				1

APPENDIX IV.-List of Companies whose powers were extended by Supplementary Letters during 1902.

Name of Company.	Date.
The Anglo-American Copper Mining Company of Parry Sound, Limited The Burgess Gas Process Company, Limited The Galt, Preston and Hespeler Street Railway Company, Limited Gunns' Limited International Transit Company, Limited. The Marsh Medicine Company, Limited The Massmith Company of Toronto, Limited. The St, Lawrence Terminal Company, Limited. The Toronto Steel Clad Bath and Metal Company, Limited	13th June, 1902 26th November, 1902 12th August. 1902 26th February, 1902 12th February, 1902 21st October, 1902

THE REPORT OF THE

APPENDIX V.—List of Orders of His Honour the Lieutenant-Governor in Council Changing the Names of Incorporated Companies in 1902.

From	То	Date.
The Equitable Mining and Develop-	Anglo-Canadian Steel and Iron	18th March, 1992
ment Company, Limited. The Bailey Cutlery Company of Brant- ford, Limited.	Company, Limited. Bailey Cutlery Company, Limited	30th December, 1991
	The Brantford CordageCompany, Lim- ited.	24th November, 1902
The Morden Manufacturing Company, Limited.		15th October, 1902
	The Dyas Publishing Company, Lim- ited.	29th July. 1902
	The Economical Gas Apparatus Con- struction Company, Limited.	31st May, 1902
The Homewood Retreat Association of Guelph, Ontario.	The Homewood Sanitarium of Guelph, Ontario, Limited.	14th March, 1902
The Jubilee Grate Bar Company, Lim-		26th March, 1902
The Hahn Brass Company of New Ham- burgh, Limited.	The Hahn Brass Company, Limited	4th April, 1902
The McLachlan Electric and Gasoline Motor Company, Limited.	The McLachlan Gasoline Engine Com- pany, Limited.	26th February, 1902
The Marsh Medicine Company, Lim- ited.		28th February, 1902
The Nasmith Company of Toronto, Limited.	The Nasmith Company, Limited	31st May, 1902
The Ontario Works Building Company, Limited.	The Niagara Construction Company, Limited.	24th September 1902
The Queen City Agency Company, Lim- ited.	Provincial Agency Company, Lim- ited.	26th December, 1902
The Robert McCausland Stained Glass Company of Toronto, Limited.	Robert McCausland, Limited	22nd February, 1902
The Toronto Mining Exchange, Lim- ited.	change, Limited.	31st December, 1901
The Aurora Mining and Development Company of Ontario, Limited.	pany, Limited.	31st December, 1901
	The S. Hadley Lumber Company, Lim- ited.	15th May. 1902
Smart-Eby Machine Company, Limited.	Smart-Turner Machine Company, Limited.	24th September, 1902

APPENDIX VI.—List of Orders of His Honour the Lieutenant-Governor in Council accepting the Surrender of the Charters of Companies in 1902.

Name of Company.	Date.	
The Gonld Lake Mining Company, Limited The Grip Printing and Publishing Company of Toronto, Limited The John Abell Engine and Machine Company. Limited The Nott Cycle and Motor Company of St. Catharines, Limited The Otto Higel Company, Limited The Plattsville Milling Company, Limited The Provincial Tract Company of Ontario, Limited The Robson Elevator Company of Ayr, Limited	23rd January, 20th October, 27th August, 3rd October, 24th January, 16th July,	1902 1902 1902 1902 1902 1902 1902 1902

APPENDIX VII.-List of Companies whose Capital Stock was decreased during the year 1902.

Name of Company.	Date.	From	J.o
Canada Woollen Mills, Limited	30th April	2,000,000	1,954,000

APPENDIX VIII.--List of Extra Provincial Companies to which were issued during 1902 Licenses under 63 Vic., Cap. 24, and of the fees paid therefor.

Name of Company.	How Incorporated.	Attorney.	Fce.
А.			
The American Tobacco Company of Canada.			Ş с.
Limited The American Tire Company, Limited The American Thread Company	Dominion Dominion New Jersey	William H. Orchards Harry P. Davies George Somerville	$\begin{array}{ccc} 50 & 00 \\ 25 & 00 \\ 100 & 00 \end{array}$
American Bridge Company of New York American Cereal Company The Apple and Produce Cold Storage Com- pony United	New York Ohio	F. C. McMath Alexander P. McDonald Evan Jones	$ \begin{array}{r} 160 & 00 \\ 260 & 00 \\ 25 & 00 \end{array} $
pany, Limited B.	Dominion	Evan Jones	20 00
Battle Creek Pure Food Company, Limited	Michigan Dominion Arizona New Jersey Michigan	Wesley B. Phillips Edward J. Boyd F. R. Moriss John B. Jackson A. H. Clarke	$\begin{array}{ccc} 100 & 00 \\ 25 & 00 \\ 385 & 00 \\ 160 & 00 \\ 100 & 00 \end{array}$
С.			
The Cowichan Lumber Company, Limited	Dominion	Mossom M. Boyd, Bob-	
The Centre Star Mining Company, Limited The Canadian Spool Cotton Company Crucible Steel Company of America,	British Columbia Quebec	caygeon T. G. Blackstock George Somerville	$\begin{array}{ccc} 50 & 00 \\ 100 & 00 \\ 185 & 00 \end{array}$
Limited Consumers' Electric Company, Limited Chicago Fire Proof Covering Com-	New Jersey Dominion	Edgar B. Walker Russell Blackburn	$\begin{array}{ccc} 100 & 00 \\ 50 & 00 \end{array}$
pany . Canadian Oil Fields, Limited . Chicago Pneumatic Tool Company The Commercial Acetylene Company The Canadian Woollen Manufacturing Com-	Illinois Great Britain New Jersey New Jersey	B. H. Montgomery A. F. Hood John B. Wilson John R. Arnoldi	$\begin{array}{ccc} 50 & 00 \\ 260 & 00 \\ 100 & 00 \\ 100 & 00 \end{array}$
pany, Limited The Corporation of Colonial and General	Dominion	Alexander Alexander	50 00
Agencies, Limited C. W. Lindsay, Limited	Imperial Dominion		$\begin{array}{ccc} 50 & 00 \\ 50 & 00 \end{array}$
D.			
The Dominion Paving and Contracting Com- pany, Limited	Dominion	Toronto-Darwin L. Van	
Dr. Shoop Family Medicine Company The Dominion Lands Colonization Com-	Wisconsin	Vlack	$\begin{array}{ccc} 25 & 00 \\ 100 & 00 \end{array}$
pany The Dominion Compressed Air Dustless House Cleaning Company, Limited		D. R. Wilkie John Bryce Kay	50 00 $25 00$
E.			
Edwin S. Hartwell Lumber Company.	Illinois.	Charles R. Shaw	160 00
F.			
The Flint Lake Gold Company, Limited	Arizona	G. H. Draper	160 00

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Name of Company.	How Incorporated.	Attorney.	Fee.
G,			\$ c.
Galena-Signal Oil Company Gordon, Ironside and Fares Company Gold Reef Mining Company, Limited,	Pennsylvania Dominion	Louis L. Miller Charles A. Anderson	$ 185 00 \\ 50 00 $
(Licensed) The Governor and Company of Adventurers of England Trading into Hudson's Bay	Michigan By Royal Charter	Allan McLennan	310-00
I.	granted by King Charles II, 2nd		100.00
The International Registry Company International Harvester Company of	May, 1670 New York	LeightonGoldieMcCarthy William U. Stacey	100 00 100 00
AmericaJ.	Wisconsin	J. A. Publow	100-00
The J. M. Lavoie Company, Limited	Dominion	Joseph U. Vincent	25-00
L.			
Lamson Consolidated Store Service Company Londen Machinery Company The Lake Erie Excursion Company London-Aylmer and North Shore Elec-	New Jersey Iowa New York	Herbert L. Dunn Hugh B. Callendar John E. Rebstock	$\begin{array}{ccc} 100 & 00 \\ 100 & 00 \\ 100 & 00 \end{array}$
tric Railway Company	New York	W. E. Stevens	260-00
М.			
Moneyweight Scale Company McAlpin Tobacco Company Michigan Ammonia Works McKeliar Island Silver Mining Company Malta Vita Pure Food Company	Illinois New York , Michigan Michigan New Jersey	Leslie Alex. Davidson . William A. McAlpin George Ritchie Noble A. Bartlet W. B. Phillips	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
N.			
The Natural Food Company	New York Arizona Quebec New York	John Hewitt G. H. Draper Henry C. Boulter A. M. Colquhoun	$\begin{array}{ccc} 100 & 00 \\ 110 & 00 \\ 135 & 00 \\ 100 & 00 \end{array}$
0.			
Osborne Company The Ontario Corundum Company, Limited. The Ogilvie Flour Mills Company, Limited.	New Jersey Dominion Dominion	David Henderson Robert George Code John F. McLaren	$\begin{array}{ccc} 100 & 00 \\ 25 & 00 \\ 50 & 00 \end{array}$
Р.			
Pittsburgh Coal Company The Philip Carey Manufacturing Company. Pickand's Iron Company The Poulin Lumber Company. Limited	New Jersey Ohio Michigan Dominion	John G. Mullen Orill Allen Cole Walter Gow J. U. Vincent	$\begin{array}{ccc} 100 & 00 \\ 185 & 00 \\ 100 & 00 \\ 25 & 25 \end{array}$
R.			
Rainy River Navigation Company The Read Lumber Company, Limited Rat. Portage Mining and Development	Canada Dominion	G. A. Graham G. H. Perley	50 00 50 00
Company	Arizona	C. G. Pennock	160-00

APPENDIX VIII.—List of Extra Provincial Companies.—Continued.

APPENDIX VIII.—List of Ex	tra-Provincial Con	npames.—Continuea.	
Name of Company.	How incorporated.	Attorney.	Fee.
S. ·			\$ c.
The Sault Ste. Marie Bridge Company The St. Eugene Consolidated Mining Com-	Dominion	Ernest G. Henderson	50 - 00
pany, Limited	British Columbia. New York	T. G. Blackstock Jeremiah Shea	$\frac{100}{100} \frac{00}{00}$
The Syndicate No. 1, Limited St. Jacob's Oil, Limited The Summit Lake Gold Mining Company of Ontario, Limited	Michigan Great Britain Great Britain Arizona	John McKay Arthur C. Boyce E. H. Woolly	100 00 100 00 100 00
Т.			1000 000
Taylor-Forbes Company, Limited	Dominion	John McPherson Taylor.	50-00
U.			
United States Gold Mining Company.	Maine	William McBrady	385-00
V.			
Vienna Pressed Yeast Company	New York	William Martin	50 00
W.			
The War Eagle Consolidated Mining and Development Company, Limited The Welding Compound Company	British Columbia . New Jersey	T. G. Blackstock Isaac Henry Culp	$ \begin{array}{ccc} 100 & 00 \\ 50 & 00 \end{array} $

APPENDIX VIII.—List of Extra-Provincial Companies.—Continued.

APPENDIX 1X.

Synopsis of Returns to Addresses and Orders of the House presented to the Legislative Assembly during the Session of 1902.

No.	Sessional Papers No.	Subject.	Mover.
1	53	Shewing in what Municipalities and Unorganized Districts Smallpox appeared since January 1, 1900	Mr. Smith.
3	55	Respecting the amount received from private parties re support of lunatics during 1901	Mr. Hoyle.
3	57	Number of fruit trees infected by San José scale, etc	Mr. Jessop.
4	58	Bonnses voted to Railways during the years 1898, '99, 1900, '01	Mr. Joynt.
δ	59	Number of persons confined in County Gaols as Indigents, also number as Insane	Dr. Barr.
6	60	Appointees under Fishery Department over Rideau waters, names of overseers, number of Licenses, etc	Mr. Joynt.
7	61	Names of Inspectors of Licenses, Districts and Salaries paid up to 30th April, 1901	Dr. Barr.
8	65	Copies of Orders in Council, correspondence and telegrams between the Government and the MacNab Lumbering Co	Mr. Fox.
9	66	Copies of all correspondence relating to the export of Gas	Mr. Whitney.
10	70	Number of visiting Committees appointed re Neglected and Dependent Children	Mr. Smith.
11	78	Number of Cold Storage Associations and the amount paid to each under the Act of 1900, etc	Mr. McLaughlin.
12	74	Report re Temiskaming Railway (proposed)	Mr. Beatty (Leeds).
13	75	Correspondence re the overflow of the Mad and Nottawasaga Rivers	Mr. Thompson.

8

APPENDIX X.

PROVINCIAL REGISTRAR'S OFFICE, TORONTO, 21st January, 1903.

To the Honourable

JAMES ROBERT STRATTON, M.P.P.,

Registrar of the Province of Ontario, etc., etc., etc.,

SIR,—The undersigned begs leave to submit the following table as showing in a condensed form the services rendered by the Provincial Registrar's Office during the year 1902.

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Commissions under Privy Seal	66
Commissions to License Commissioners	101
Commissions to License Inspectors	3
Warrants removing Lunatics	352
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Crown Land Patents	 . 1,084
Mining Leases	 282
Mining Leases	 11
Copies and Certificates of Patents	. 44
Bonds and Covenants	 . 28
Election Writs, Legislative Assembly	
" Referendum	

In addition to the foregoing an annual return of all bonds and securities recorded in this Office is prepared for the Legislative A-sembly, and a quarterly return of all the lands is also sent to the Registrars of each County in which patents have issued, giving description of land patented, name of patentee, and also notice of all cancellations and surrenders of patents. A large amount of work is also done in searching old records of land patents and charters, commissions and other documents, and examining and reporting as to fitness of names of charters applied for, and certifying to and passing notaries' certificates.

> JOHN F. C. USSHER, Deputy Registrar.

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THIRTY-FIFTH ANNUAL REPORT

OF THE

INSPECTOR OF PRISONS AND PUBLIC CHARITIES

UPON THE

LUNATIC AND IDIOT ASYLUMS

OF THE

PROVINCE OF ONTARIO

BEING FOR THE YEAR ENDING 30TH SEPTEMBER,

1902.

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. 1903.



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WARWICK BRO'S & RUTTER, Printers, TORONTO.

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OFFICE OF THE

INSPECTOR OF PRISONS AND PUBLIC CHARITIES, ONTARIO.

PARLIAMENT BUILDINGS, TORONTO, November, 1902.

SIR,—I have the honor to transmit herewith, to be presented to His Honor the Lieutenant-Governor, the Thirty-fifth Annual Report upon the Lunatic and Idiot Asylums for Ontario, being for the official year ending 30th September, 1902.

I have the honor to be, Sir,

Your obedient servant,

R. CHRISTIE,

Inspector.

THE HONORABLE J. R. STRATTON, M.P.P.,

Provincial Secretary of the Province of Ontario,

Toronto.

PARLIAMENT BUILDINGS,

TORONTO, November, 1902.

To the Honorable SIR OLIVER MOWAT, Knight Commander of the Order of St. Michael and St. George, Member of the King's Privy Council for Canada, and Lieutenant-Governor.of the Province of Ontario.

MAY IT PLEASE YOUR HONOR:

I beg to submit herewith the Thirty-fifth Annual Report upon the Lunatic and Idiot Asylums of Ontario, being for the official year ending on the 30th September, 1902.

I have the honor to be,

Your Honor's most obedient servant,

R. CHRISTIE, Inspector.

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THIRTY-FIFTH ANNUAL REPORT UPON THE ASYLUMS FOR THE INSANE AND IDIOTIC.

In submitting the annual report of the Asylums of the Province for the past year, it is gratifying to note that the general service has not been interrupted by any adverse occurrence interfering with the usual work necessary in caring for the insane in charge.

The sanitary condition of the several asylums has proved to be good, and the health prevailing has been undisturbed by the prevalence of any epidemic or infectious ailment.

ACCOMMODATION.

On account, however, of the constantly increasing number of the insane requiring asylum treatment or care, the problem of available accommodation and the prompt admission of patients, have been difficult matters to deal with during the year under report. While it has been quite obvious that in many cases admission has been awarded to patients whose mental ailments could not be relieved by asylum treatment, it is, nevertheless, true that admissions in all cases have been awarded upon evidence alone of mental defect so pronounced in character as to indicate the necessity for their care and oversight. It is equally, apparent, however, that owing to the admission and retention of all classes of dements in the institutions, the asylum populations are largely increased, and that many persons now in charge could be equally well cared for in well-ordered Houses of Industry, or wards of such institutions specially set apart for their accommodation.

That a large number of such classes of the chronic and mentally infirm will always be dependent on the State for shelter and protection, on account of the inability of their relatives or friends to provide for them is beyond doubt, and it is certain that the only policy is to assume that their care is a public trust, to be arranged for to the best advantage of the community at large.

Owing to the largely augmented number of the insane population to be provided for in all communities where supervision is held to be either wholly, or in part only, a duty devolving on the State, the question of what system to adopt has of late years been freely discussed and two plans have been tried in American States. The advocates for the enlire control and administration of all matters connected with the care of the insane solely by the Government, maintain that the work is more systematically arranged, that more thorough, and in all respects better, supervision can be had, and that consequently the treatment of the patients in all cases is superior to what could be effected by a sectional and divided authority. It is urged that the establishment of large asylums, which must necessarily be provided, if under Government supervision, is a benefit to all classes of the insane, irrespective of their condition mentally: that a better classification can be arranged and adjusted from time to time, as may be found necessary; that a great saving is effected by retaining the quiet and able-bodied patients in large institutions, for domestic and other necessary work, which, in event of their being removed, would have to be performed by paid service; that the entire service can be maintained and administered more economically than under any separate system of jurisdiction, and that the maintenance outlay is more evenly distributed over the country at large.

On the other hand, the opinion of a large number of persons well qualified to judge in such matters is that such a classification should be arranged as would compet counties to provide for harmless and chronic patients, who require only such ordinary care and attention as shall ensure their safekeeping and comfort. It is alleged that by such an arrangement greater economy would be effected, especially in the saving of fares, and necessary expenditure in transportation of patients to large institutions at a distance, in many cases remote from their homes; also that such imbeciles wentd be benefited by being domiciled in quiet homes, where their surroundings would be more favorable than can be had among the excited classes: that quiet, able-bodied persons could be employed to better advantage, and, if at such industrial occupations as they are titted for, might be made largely self-sustaining, at a considerably reduced expenditure for structural accommodation, and also for administration for carrying on the Institution work. And that by the adoption of such a plan the most objectionable feature of the present system of commitment to the Common Goals of the Province could be abandoned.

There are, no doubt, many other substantial reasons which might be advanced for the limitation of the present system, by which all classes of the mentally infirm have been admitted to the Provincial Asylums, but none greater or of more innortance than the necessity for such a re-arrangement as which satisfactorily provide for the merely infirm, and thus relieve the over-crowded asylums, and afford room for the care of excited and negent cases requiring treatment.

With a view of indicating what may be necessary in the future, the following summary of the average annual admissions, the daily average population in residence, and the average increase in the daily residence of the insane and idiotic, is given:

	Average annual admissions.	Daily average population lunatics and idiots.	Average increase in daily residence each decade.
Decade from 1872 to 1881	449	1,921	260 from Confed. to 1872.
do 1882 to 1891	637	3,168	124 from 1872 to 1881.
do 1892 to 1901	804	4,730	156 from 1882 to 1891.
Compared with 1902	1,016	5,366	139 from 1892 to 1901

Irrespective of the system adopted, it is important to estimate as accurately as possible the number of all classes of the insane and idiotic to be maintained in the Province; and from the census returns of 1901, which are no doubt most reliable, the total number enumerated in the classes referred to is 7.511. At the close of the official year ending the 30th of September, 1901, the number of the insane and idiotic officially known to this department was 5.880, or a difference of 1631, who were unreported or unprovided for in the institutions. That this number of outlying persons of the classes referred to is, as nearly as possible, correct, is beyond doubt, as the instructions given to the enumerators in making their records were clear and well defined, as follows:—"That it was not necessary in making their record, that the degree of infirmity should be absolute or total, but

No. 38

subcently marked in any one of the classes as to have reached the stage of incapacity."

it would be a difficult matter to estimate the number of those not domicated in the institutions, who might, or who would have been cared for as wards of the public in event of provision having been available for them, but it is evident that a large proportion may be classed as quiet, or harmless dements, whose imbecility does not prevent their being retained with relatives or friends in their private homes. At the close of the past year, ending 30th of September, 1902, the total number of the insune known to the department was 6,053, or an increase of 173 over the former year. This number represents about the average annual increase, and is fairly in ratio with the annual increase of the population of the Institutions.

From the foregoing it is evident that there is no prospect of a reduced number of applicants, or a lessened number in residence in the near future, and the following table will show how fully occupied all the room has been in each asylum during the year.

October, 1901, to September 30, 1902.	Asylums in which there were no vacancies for the month.	Total applicati'us.	Vacancies during the month.	Patients on probation during the month.
October	Toronto, London, Mimico.	78	19	85
	do do do Kingston, Brock- ville	82	9	84
	Toronto, London, Mimico, Kingston, Brock- ville.	95	3	102
January	Kingston, Cobourg	52	70 73	81
March.	Toronto, Kingston do London, Cobourg	52	41	73
April	do do	46	65 59	69 84
May	do do	46 54	55	85
July		58	47	82
August	do do Hamilton	60	26	85
September	do do	58	48	68
	Average .	61	43	80

It will be noted that the average number of applicants was 61, to which must be added the average number of patients returned from probation; which was 65 in the year, or an average of 5 a month. This makes the applicants, 66, for whom there were only 43 vacancies, or an average of 23 at all times during the year for whom there was no accommodation.

By reference to the tables following, beginning with page ' which shows the entire movements of the asylum population during the past year, it may be noted that the increase in admissions, compared with the previous year, ending 30th of September, 1901, was 219. The number admitted by cer'ificate was 680, and by warrant 336, the one being 67 per cent, of the total, and the other 33 per cent. Up to the close of 1901 the admissions relatively had been 60 per cent, by certificate and 40 per cent, by warrant. The ratio for the current year is practically 2 by certificate to 1 by warrant.

The increased number of those admitted by certificate, when compared with those under the warrant system, is evidence of the growing aversion to resort to this system for the removal of the insane, and if ample room had been available in the institutions when the care of patients became a necessity, fewer patients would have been committed to the County Goals as places of detention, pending removal to the Asylums.

COBOURG ASYLUM OPENING.

The increased number of patients in daily residence during 1902 was 157, and the accommodation for them was found largely in the new Asylum at Cobourg, opened on the 4th of January, 1902, when 31 patients were transfe rel from London, and a like number from Mimico Asylum. This population was added to by transfers up to the 31st of March, when this institution had in residence its full quota—144 female patients. It may be added that the opening of this Asylum did much to relieve the congested condition of the older institutions, by the removal of such patients from them as were mentally and physically fitted for asylum residence in the Cobourg Institution.

For the coming year the available room for an increase in the asylum population will be supplied by the London and Kingston Institutions, when the structural additions, now in progress, are completed; and in event of an average increase of admissions this accommodation will not be more than sufficient.

As the increasing number of the insane in the institutions may be considered as evidence of an increase of insanity, in greater proportion than the relative increase of population, it is well to observe that the number of admissions within any given period greatly outnumbers the discharges. For example, during the past ten years the admissions to the asylums have been 7,969, while the total discharges have been:

As recovered As improved or unimproved Number died	938	7,969 5,806	Total admissions.
		2,163	-

Showing that at the close of the decade, notwithstanding deaths and discharges, the population had increased by 2,163 persons, or more than 27 per cent. of the admissions.

In referring to the recoveries of the past ten years, it is interesting to observe in the following statement the average number of discharges from the Institutions during the past three decades, and the slight difference there is in the percentage of recoveries when compared with the past year:

	Average number of lunatics ad- mitted.	Average number of recoveries.	Percentage of recoveries.
From 1872 to 1881	452	132	30%
From 1882 to 1891	523	146	28%
From 1892 to 1901	780 ·	235	30%
Compared with 1902	959	· 260	2710/

The uniform number of recoveries, as shown in the above table to have been recorded, for so long a period, is satisfactory, and is an evidence of the good care and underviating efforts employed for the relief and restoration of the insane under treatment; and suggests also the following statement, covering a like number of years, showing the death-rate, which also

	Average daily population of lunatics.	Average annual number of deaths.	Percentage of deaths to daily population in residence.		
From 1872 to 1881	1,921	123	6.4% or in ratio 1[to 15].		
From 1882 to 1891	2,965	163	5.5% do $1 \text{ to } 17\frac{3}{6}$.		
From 1892 to 1901	4,138	240	5.8% and do 1 to 17g.		
Compared with 1902	4,712	287	$6.1_{10}^{9/3}$ and $1 \text{ to } 16\frac{1}{2}$.		

indicates the general good health prevailing in the Institution communities collectively:

MAINTENANCE.

During the past year the average cost of maintenance of patients, estimated upon a per capita basis, has been advanced from \$120.80 in 1901 to \$125.59 for the year ending 30th of September last, which is an average increase of \$4.79 per annum.

It would be misleading, however, to rely upon a comparison of the expenditure, as between these years, or indeed for any single year, with a view of reaching a correct conclusion in regard to the amount required for the service, but especially in the present instance, as the expenditure during 1901 was exceptionally low, less than the average of all preceding years since the inception of the present system in 1867. The following statement is therefore submitted showing the average cost of maintenance during each decade, as compared with the past year:—

From 1867 to 1870	\$140.70
From 1871 to 1880	136.09
From 1881 to 1890	132.30
From 1891 to 1901	128.71
Average during 33-1-2 years	\$134.43
Compared with 1902	125.99

Owing to the increased cost of nearly every staple commodity required for Institution maintenance. it would be vain to expect that the cost per capita would not be increased, and a comparison of the contract prices of some of the leading supplies will show how the maintenance outlay is affected in this way.

The average contract price for anthracite coal for the years 1899 to 1901 was \$4.53 per ton, and for the past year \$5.76, an increase of 27 per two years the e nt.-for the past increase was 24 3.4 per cont.; the price of flour has also advanced (from 1899-1901) at the rate of 3 per cent., butter 5 per cent., and butchers' meat 10 1-3 per cent. To these quotations might be added many others, indicating the increased cost of supplies, but the single item of the increase in coal, which amounts to \$26,570.73, largely exceeds the total maintenance increase for the past year, and unless the expedient of a lower and inferior care and supervision in the Institutions was resorted to to meet the exigencies of expenditure from year to year, it follows that no absolutely fixed rules can be adopted to secure a uniform outlay.

Through constant efforts to economize in every way, without lowering the standard of the service, the extent to which the cost of maintenance for the past year has increased here is comparatively small. As evidence of this, the report of the Commissioner of Lunacy for England and Wales, issued in June last, refers to the general rise in contract prices as having increased the average weekly cost over the previous year, in the County and Borough Asylums, by no less than 11d, per head per week, or, in currency, here, \$11.60 per annum; and this is by no means an isolated case; many others might be cited showing the difference in cost in consequence of the increased price of supplies.

The conclusion to be drawn, therefore, from the foregoing regarding expenditure, if present prices prevail, clearly points to the necessity for an increased appropriation on maintenance account to meet the requirements of the service, if it is to be maintained in an efficient state.

EXPENDITURE.

The total sum expended for the maintenance of the insane and idi tic in the asylums of the Province, during the past year, amounted to \$659.-335.37, being an increase of \$35.659.37 over the previous year; of this amount \$21,148.32 was expended in providing for, and maintenance of, the new institution at Cobourg, and the balance, of \$14.511.28, as already shown, was due to the purchase of supplies at increased prices.

REVENUE.

The total amount received from paying patients during the past year was \$101,076.20, or an increase of \$10,398.74 over the sum collected during the previons year: and the number of patients contributing has also increased from 902 to 959, or 57 more than formerly. This is 15 1 3 per cent, of the total expenditure for the insane and idiotic under charge as wards of the Province. These are gratifying results showing that the work of the year has developed financially in proportion to the increased population in charge, and also in ratio with the annually increasing expenditure or total amount of appropriation for the care of the insane.

CHANGES IN THE MEDICAL STAFF.

Dr. R. M. Bucke, who for so many years held the position of Superintendent of the London Asylum, died suddenly on the 19th February, 1902, and Dr. Thomas Reynolds, who was Assistant Superintendent of the Hamilton Asylum, died on the 9th of June, 1902. Both these gentlemen, by, their long-continued and faithful attention to duty, combined with a keen sense of the responsibility resting upon them, had won the entire confidence of those associated with them, and were highly appreciated for their uprightness and candor in all their official relations. Further reference is made in the reports of the Superintendents of London and Hamilton, respectively, expressing the esteem in which both gentlemen were held during their long periods in the service.

To fill the vacancy caused by the death of Dr. Bucke, Dr. G. A. Mac-Callum was appointed to the superintendency of London Asylum on March

1902

3rd, 1902, and Dr. Frank Beemer, of the London Asylum staff, was transferred to the Hamilton Institution to fill the vacancy caused by the death of Dr. Reynolds. Dr. Wilson was also transferred from London to Hamilton Asylum. This left two vacancies on the London Asylum medical staff, which were filled by the transfer of Dr. R. W. Bell of the Toronto Asylum to the position formerly held by Dr. Beemer, and by the transfer of Dr P. McNaughton, of Mimico Asylum, to the position held by Dr. Wilson. Dr. McNaughton's position at Mimico Asylum was filled by the transfer of Dr. St. Charles, of Hamilton Asylum, and the position vacated by Dr. Bell, in Toronto Asylum, was tilled by the appointment of Dr. J. C. Mitchell, At the beginning of the year there was a vacancy at the Brockville Asylum, which was filled by the promotion of Dr. H. Clare, of the Orillia Asylum, and subsequently Dr. T. J. Moher was appointed in the place of as Assistant Superintendent of the Orillia Asylum. Dr. Chure There was also a change in the medical staffs at Kingston and Mimico Asylums, by the transfer of Dr. Bacher, Assistant Superintendent of Mimico, to a similar position at Kingston, his place being taken by Dr. Forster, formerly Assistant Superintendent of Kingston' Asylum.

An annual review of matters connected with the asylum service is necessarily limited to some of the more important subjects relative to the history and working of the institutions. But in view of the largely increasing numbers of the afflicted classes in charge, the large amount of the revenues of the large of the institutions, and likely to radiate, therefrom, it is desirable that a widely extended public knowledge of such interests should be enlitivated, and no better means can be adopted to this end than by carefully perusing the reports of the several Superintendents, which are from year to year appended and which furnish an amount of practical and scientific information that cannot be obtained from any other source. These are, therefore, confidently commended to the attention of all interested in the insane and the system of providing for them.

TABLE

Showing the movements of the entire population of the

		oron sylur			Lond Asylu			ingst sylur			amil Asylu	
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Number of patients in Asylum Oct. 1, 1901	362	362	724	490	544	1,034	312	287	599	468	561	1,029
Admitted during year ended Sept. 30, 1902	64	90	154	69	84	153	45	55	100	65	81	146
Total number on Asylum registers and actually under treatment in each Asy- lum during the year		482	878	559	628	1,187	357	342	699	533	642	1,175
Discharged cured	17	- 30	47	29	25	54	12	17	29	21	23	44
•• improved	12	11	23	7	6	13	5	9	14	6	14	20
" unimproved	10	4	14	4	1	5	1	4	5	1	6	7
" as not insane												• • • • •
Total number discharged during year	39	45	84	40	32	72	18	30	48	28	43	71
Escaped	1		1	5	2	7	3		3	1		1
Died	33	11	44	2 8	-34	62	17	- 30	47	27	17	44
Transferred from one asylum to another		32	32		- 33	33		12	12		42	42
Total number escaped, died, discharged and transferred during the year	73	88	161	73	101	174	38	72	110	56	102	158
Number of patients remaining in Asylum on Sept. 30, 1902	353	364	717	486	527	1,013	319	270	589	477	540	1,017

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No. 1.

Asylums during the year ending September 30th, 1902.

	limic sylnn			ockv: sylur			obou sylur			l numb unatics		1	Orillia Asylum			l numb cs and i	
Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male,	Female.	Total.	Male.	Female.	Total.	Male.	Female,	Total.
303	302	605	301	312	613				2,236	2,368	4,604	350	302	652	2,586	2,670	5, 2 56
64	67	131	74	56	130		145	145	381	578	959	29	28	57	410	606	1,016
		_					_										
367	369	735	375	368	743		145	145	2,617	2,946	5,563	379	330	709	2,996	3,276	6,272
22	21	43	20	22	42		1	1	121	139	260	••••		••••	121	139	260
3	3	6	1	2	3	• • • •			34	45	79		÷		34	45	79
1		1		1	1				17	16	33	9	1	10	26	17	43
	- • • •		• • • •			• • • •		••••							•••••		• • • • • •
26	24	50	21	25	46	••••	1	1	172	200	372	9	1	10	181	201	382
1		1	3	1	4	••••			14	3	17	1		1	15	3	18
18	15	33	35	19	54		3	3	158	129	287	22	16	38	180	145	3 2 5
25	31	56	••••		••••			· • • •	25	150	175				25	150	175
70	70	140	59	45	104	<u></u>	4	4	369	482	851	32	17	49	401	499	900
297	299	596	316	323	639	• • • •	141	141	2,24 8	2,464	4,712	346	313	659	2,595	2,777	5,372

TABLE

Showing the general movement and result of treatment of lunatics in the the Ist October, 1876, to

Year ending		daily nur ts in resid			er of lu litted e year.		Numbe recove	r of Pa ered in year.	a stall	dis imp r ov	er of pa scharge ed and d each	d, unim-
30th September.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
1877	916	903	1,819	243	184	437	82	70	152	26	29	55
1878	954	971	1,925	252	227	479	92	65	157	28	31	59
1879	1,010	1,044	2,054	2 31	230	461	71	64	135	42	27	69
1880	1,086	1,129	2,215	257	250	597	53	61	114	32	54	86
1881	1,164	1,160	2,354	270	232	502	84	82	166	33	38	71
Average of five years	1,026	1.047.1	2,073.4	250.6	236.6	77	76.4	68.4	44	32.2	35	68
1882	1,219	1,238	2,457		242	493	73	86	159	20	46	66
•1883	1,280	1,300	2,580	253	266	519	94	80	174	36	54	90
1884	1,303	1,331	2,634	262	231	49 3	79	99	178	27	37	74
1885	1,384	1,360	2,708	259	198	457	88	101	189	51	39	80
1886	1,409	1,421	2,830	281	232	519	75	. 69	144	33	26	59
Average of five years	1,311.8	1.330	2,641.8	262.4	233.8	496.2	81.8	87	118.8	33.4	40.4	73.8
1887	1,461	1,454	2,915	219	206	42 5	88	89	177	31	31	62
1888	1,491	1,494	2,985	309	257	566	76	60	136	42	43	85
1889	1,582	1,585	3,167	269	245	514	85	97	182	42	47	89
1890	1,633	1,633	3,266	310	356	666	84	88	172	32	53	85
1891	1,786	1,742	3,006	465	463	928	108	- 91	199	42	57	99
Average of five years	1,586.2	1,581.6	3,167.8	314.4	305.4	619.8	88.2	85	173.2	37.8	46.2	84
1892	1,768	1,769	3,532	403	389	792	114	94	212	53	50	103
1893	1,818	1,856	3,674	369	384	753	98	101	199	46	60	106
1894	1,876	1,933	3,809	348	341	689	101	121	222	41	57	98
1895	1,978	2,017	3,995	487	481	968	101	106	207	32	52	84
1896	2,029	2,087	4,116	390	373	763	115	127	242	49	58	107
Average of five years	1,893.4	1.932.2	3.826	354.2	393.3	793	3 105.4	111.3	216.3	3 44.1	55.2	99.3
1897	2,097	2,157	4,254	507	398	905	5 107	116	223	3 42	52	94
1898	2,153	2,215	4,368	349	411	759	122	129	251	54	59	113
1899	2,183	2,258	4,441	368	343	711	116	145	261	48	47	95
1900	2,197	2,288	4,485	352	370	722	2 121	133	3 25-	4 28	3 44	72
1901	2,236	2,368	4,604	372	370	740) 145	130	278	5 26	31	57
Average of five years	2,193.1	2,257.1	4,450.4	389.3	379	76	7 122	131	25	3 40	9 46	5 86
1902	2,248	2,464	4,712	381	578	959	9 121	139	260	51	61	112

No. 2.

asylums of the province during each of the twenty-six years from the 30th September, 1902.

	er of patie l in each			age of re n admiss			ge of dea ber reside	ths upon ents.	remaining	per of lun g in asylu of each y	m at the
Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
67	48	115	33.74	36.08	34.78	7.31	5.31	6.32	926	933	1,859
64	50	114	36.82	28.63	32.77	6.70	5.14	5,92	989	1,014	2,003
62	49	111	30.73	27.82	29.28	6.13	4.69	5.40	1,039	1,104	2,143
69	73	142	20.62	24.40	$22 \ 48$	6.35	6.46	6.41	1,133	1,165	2,298
86	58	144	31.11	35.34	3 3 0 6	7.38	4.87	6.11	1,199	1,217	2,416
69.6	55.6	125.2	30-60	30.45	30.47	6.77	5.29	6.03	1,057.2	1,086.6	2,143.8
99	67	166	29,08	35.38	32 2 5	8.12	5.41	6.75	1,249	1,259	2,508
92	71	163	37.15	30 07	33.5 2	7.18	5.46	6.31	1,274	1,820	2,594.
90	64	154	30 15	40.85	36 10	6.90	4.40	5.85	1,320	1,351	2,671
86	60	146	33.97	51 01	41.35	6.38	4.41	5.39	1,356	1,349	2,705
86	55	141	26.18	29.74	27.66	6.10	3 87	4.98	1,449	1,450	2 ,899
90.6	63.4	15.4	31.29	37.81	44.17	6.93	47.9	5.85	1,329.6	1,345.8	2,675.4
77	66	143	40.16	43.20	41.64	5.27	4.53	4.79	1,459	1,468	2,927
90	66	156	24.59	23.34	24.02	6.04	4.42	5.22	1,554	1,556	2,110
93	65	158	31.60	39.55	35.41	5.87	4.10	4.99	1,590	1,591	3,181
91	118	209	27.50	24.61	25.56	5.57	7.22	6.46	1,652	1,666	3,318
91	99	190	23.21	19.61	21.44	5.16	5.68	5.42	1,746	1,722	3,468
83.4	82.8	171.2	29.40	39.40	29.61	5.58	5.19	5.38	1,600	1,601	3,201
125	73	198	28,36	28.19	26.76	7.07	4.12	5.44	1,776	1,811	3,587
102	108	210	25.56	26.30	26.44	5.61	5.82	5.71	1,839	1,888	3,727
106	82	189	29.02	35.45	32.22	5.65	4.29	4.96	1,913	1,947	2,860
147	118	265	10.74	22 04	21.38	7.44	5.85	6.63	1,996	2,040	4,036
139	86	225	19.22	17.90	18 53	6.85	4.02	5.47	2,027	2,091	4,118
12.4	93.3	217.3	27.78	29.57	28.06	6.52	4.82	5.64	1,910	1,955	3,865
145	117	2 62	21.10	29.15	24.97	6.91	5.42	6.13	2,116	2,163	4,279
130	108	238	32.0 9	31.46	33,04	6.04	4.87	5.45	2,152	2,236	4,388
160	132	292	31.72	23.65	27.24	7.33	5.75	6.57	2,176	2,251	4,427
136	133	2 69	29.09	27.82	28.42	6.2 3	5.81	6.02	2,198	2,300	4,498
150	107	257	25.65	28.44	27.00	6.26	4.52	5.58	2,236	2,368	4,604
13.4	12.0	26.3	27.93	28.10	28.13	6.55	5.22	5.95	2,175	2.264	4.439
158	129	287	27.41	43.09	35.25	6.95	4.97	6. 0 0	2,248	2,464	4.712

2* A.

THE REPORT OF THE INSPECTOR OF

No. 38

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TABLE No. 3.

Shewing the counties and places from which patients were admitted to the Asylums, and the Asylums they were assigned to.

County.or place.	Number received from gaols under warrant of Lieutenant-Governor.	Number received from private houses by medical certificate.	Totol number received from respac- tive counites during the year.	Assigned to Toronto Asylum.	Assigned to Loudon Asylum.	Assigned to Kingston Asylum.	Assigned to Hamilton Asylum,	Assigned to Mimico Asylum.	Assigned to Brockville Asylum.	A'signed to Cobourg Asylum.	Assigned to Orillia Asylum.	Total.
Algoma Brant Bruce Carleton Dufferin Elgin Essex	$ \begin{array}{c} 2 \\ 3 \\ 10 \\ 20 \\ 2 \\ 4 \\ 5 \end{array} $	4 12 13 24 5 13 9	$6\\15\\23\\44\\7\\17\\14$	1	20 	1	10 5	5 1 1 2 1	34	1 2 1	22 24 4	6 15 23 44 7 17 14
Frontenac Grey Haldimand. Haliburton Halton. Hastings Huron Kent.	$5 \\ 13 \\ 2 \\ \\ 4 \\ 9 \\ 9 \\ 4 \\ 4$	9	24 23 9 12 32 29 13	1 2 1 4	 16 9	22 25	16 7 8 1		1 1 2	6 2 3 6 1	1 2 2	24 23 9 12 32 29 13
Lambton Lanark Leeds and Grenville Lennox and Addington Lincoln Middlesex Muskoka Nipissing	6 4 3 1 8 21 3 1	$10 \\ 11 \\ 24 \\ 14 \\ 5 \\ 42 \\ 5 \\ 2$	$ \begin{array}{r} 16 \\ 15 \\ 27 \\ 15 \\ 13 \\ 63 \\ 8 \\ 3 \end{array} $	1	11 48	1	9 1		14 25 1	3 1 4 9 	1 1 2 2	16 15 27 15 13 63 8 3
Norfolk Northumberland and Durham Ontario Oxford Parry Sound Peel. Peerth	2 8 11 5 3 3 10	2 26 14 8 - 4 10 12	4 25 13 7 13 22	3 3 2	8	13	4	1 8 5 7 1	····· 3 ····· 2	 17 8 4 1 3	$\begin{array}{c} & 3 \\ 1 \\ 2 \\ 1 \\ 2 \end{array}$	4 34 25 13 7 13 22 22
Peterborough Prescott and Russell Prince Edward Rainy River Renfrew Simcoe Stormont, Dundas and	95 42 8	13 4 4 11 17 15 16	22 9 4 5 19 33	1 1 1		4	· · · · · · · · · · · · · · · · · · ·	10 5 20	3 9 20	8 1 9	 1 3	9 4 5 19 33
Glengarry. Thunder Bay Victoria Waterloo Welland Wellington Wentworth York	7 1 7 1 6 5 13 87	2 12 10 10 20 43 136	23 3 19 11 16 25 56 223	2 3 1 117	····· 2 1	 1 1 2	$ \begin{array}{c} $	2 11 41	1 1 12	5 8 33	1] 3 4 11	$23 \\ 3 \\ 19 \\ 11 \\ 16 \\ 25 \\ 56 \\ 223 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\$
Not classed Total	1 \$36	680	2	154	 153	100		131		2 	57	1,016

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TABLE No. 4.

Shewing the counties and districts from which the entire number of patients admitted to the asylums have been received, including the admissions of the present year; also the counties and districts from which the patients remaining in residence the 30th September, 1902, were originally admitted.

	Patients in residence 30th September, 1902.												
Counties and places.	Admissions of the year.	Total admissions.	Toronto Asylum,	London Asylum,	Kingston Asylum.	Hamilton Asylum,	Mimico Asylum.	Brockville Asylum.	Cobourg Asylum.	Orillia Asylum.	Total.		
Algoma Brant Bruce Carleton Dufferin Elgin Essex Frontenac Grey Haldimand Haliburton	6 15 23 44 7 17 14 24 23 9	83 757 463 865 431 538 477 958 525 400 21	$ \begin{array}{c} 4 \\ 4 \\ 10 \\ 1 \\ 2 \\ 13 \\ \dots \end{array} $	$1 \\ 4 \\ 90 \\ 1 \\ 79 \\ 72 \\ \\ 2 \\ 1$	64 1 127 1	$ \begin{array}{r} 4 \\ 74 \\ 4 \\ 2 \\ 21 \\ 21 \\ 21 \\ 6 \\ 87 \\ 45 \\ \end{array} $	13 4 3 4 2 2 2 15 3	4 133 4 4 12 3 1	1 2 1 6	6 11 17 18 4 5 18 24 18 24 18 7	$\begin{array}{r} 28\\ 98\\ 122\\ 228\\ 30\\ 96\\ 100\\ 173\\ 145\\ 57\\ \end{array}$		
Halton Hastings Huron Kent. Lambton Lanark Leeds and Grenville Leeds and Addington Lincoln Middlesex. Muskoka Nipissing Norfolk	$\begin{array}{c} 12\\ 32\\ 29\\ 13\\ 16\\ 15\\ 27\\ 15\\ 13\\ 63\\ 8\\ 3\\ 4\end{array}$	$\begin{array}{c} 21\\ 325\\ 620\\ 677\\ 470\\ 603\\ 485\\ 752\\ 350\\ 465\\ 1,497\\ 100\\ 44\\ 308 \end{array}$	9 8 7 1 2 2 5 1 6 2 5 2	1 112 85 104 268 	69 34 23 50 1 1 1	40 3 3 1 1 1 1 52 4 2 2 52	1 8 2 3 1 5 9 16 3	$\begin{array}{c} & & 1 \\ & & 1 \\ & & 24 \\ & & 2 \\ & 5 \\ & 5 \\ & 5 \\ & 41 \\ & 80 \\ & & 7 \\ & 3 \\ & 17 \\ & & \\ & & 1 \\ & 2 \end{array}$		7 17 16 14 15 4 16 15 2 37 11 1 8	60 130 148 111 133 81 125 75 68 342 28 28 22 67		
Northumberland and Dur- ham. Ontario Oxford. Parry Sound. Peel. Perth. Peterborough. Prescott and Russell. Prince Edward. Rainy River. Rainy River. Sincoe.	$34 \\ 25 \\ 13 \\ 7 \\ 13 \\ 22 \\ 22 \\ 9 \\ 4 \\ 5 \\ 19 \\ 33 \\ 3$	995 618 673 56 393 528 393 219 211 17 273 993	36 21 4 16 2 14 2 15	1 82 	53 1 1 3 8 26 53 1	2 5 9 4 8 6 2 1 86	$12 \\ 55 \\ 5 \\ 14 \\ 28 \\ 4 \\ 44 \\ \dots \\ 1 \\ 12 \\ 65$	15 8 5 1 3 5 6 45 1 9 8	15 8 4 8 8 8	12 15 16 5 9 9 9 9 2 5 5 6 49	$155 \\ 114 \\ 126 \\ 65 \\ 115 \\ 87 \\ 55 \\ 33 \\ 22 \\ 62 \\ 234$		
Stormont, Dundas and Glen- garry Victoria Wat rloo. Welland Wellington Wentworth. York Not classed.	23 3 19 11 16 25 56 223 2	666 34 374 432 356 754 1,395 4,780 503	2 3 15 6 5 11 9 460 4			1 3 66 70 110 188 47			3 4 5 8 33 2	14 8 16 5 14 29 142 3	152 13 91 101 82 150 245 956 30		
Total	1,016	26 ,859	717	1,013	589	1,017	596	639	141	659	5,372		

TABLE No. 5.

Shewing the length of time Lunatics received into the Asylum during the year had been insane prior to admission.

_			_										
	Du	rati	on a s	of insa idmiss	nity prior to ion.	Toronto Asylum.	Londo n Asylum.	Kingston Asylum.	Hamilton Asylum.	Mimico Asylum.	Brockville Asylum.	Cobourg Asylum.	Total.
Unde	r 1	mon	th.			32	27	26	15	21	13		134
From		to		mont		22	18	8	19	16	16		99
66	2	5.6	3	6.6	*	12	16	5	9	12	17		71
8.6	3	6.6	4	6 6		18	13	4	7	9	10		61
6.6	4	66	5	6.6		7	4	1	8	7	4		31
66	5	66	6	4.4		1	5		5	7	5		23
4.6	6	66	7	£ 5		.] 7	5	5	- 5	6	5	1	34
6 4	7	6.6	8	6.6		1	3	3	1	3	3		14
6.6	8	٤.,	9	6.6		1	1	1	4	3	1		11
6 6	9	61	10	& 6		3		1	6	2	1		13
6.4	10	6.6	11	6.6			1		1		1	1	4
6.6	11	6.6	12	5.6			1	4	1	9	4		19
6.6	12	6.6	18	6.4		8	10	7	8	9	1	5	48
6.6	18	moi	ath	s to 2	years	2	3		3	8	2	1	19
£ 6	2	to	3	ysars		10	10	6	16	6	3	3	54
6.6	3	6.6	4	6.6		1 7	6	2	7	5	5		32
6.6	4	6.6	5	6.5		5	4	1	3	1	1	5	20
6.6	5	6.6	6	6.6		7	5	2	9		3	5	31
6.6	6	6 6	7	6.6		2	2	1	1		2	2	10
6.6	ĩ	6.6	8	6.6		1	2	1	1		2	6	13
6 6	8	66	9	6.6			2				4	7	13
5.6	9	6 6	10	6.6				3		1	12	3	19
6 6	10	6.6	15	6.6		2	6	3	4	2	10	35	62
6.6	15	6.6	20	5.5		1	2	`3	2	1	2	18	29
6.5	20	yea	rs a	nd up	wards	5	1	13	3	3	3	53	81
Unki	aowi	a	• • • •				6		8	• • • • • •	•••••		14
	Tot	tals				154	153	100	146	131	130	145	959

TABLE No. 6.

Shewing the length of residence of patients remaining in the Asylums on the 30th September, 1902.

Length of Residence.	Toronto Asylum.	London Asylum.	Kingston Asylum.	Hamilton Asylum.	Mimico Asylum.	Brockville Asylum.	Cobourg Asylum.	Orillia Åsylum.	Total.
Under 1 month	17	10	8	14	11	11		3	74
From 1 to 2 months	6	9	8	6	14	7		5	55
" 2 " 3 "	12	8	9	15	9	9		2	64
" 3 " 4 "	15	9	7	7	10	6		7	61
" 4 " 5 "	1 5	9	5	9	10			4	53
··· 5 ·· 6 ··	3	16	5	6	13	31	1	4	79
" 6 " 7 "	9	10	7	15	11	5	12	6	75
" 7 " 8 "	16	9	10	6	4	3	40	2	90
· · 8 · · 9 · · · · · · · · · · · · · ·	4	21	3	6	16	3	88	7	148
" 9"10"	6	5	3	8	5	5		6	38
·· 10 ·· 11 ··	3	5	4	4	5	11		10	42
" 11 " 12 "	6	7	2	12	3	3		1	34
" 12 " 18 <i>"</i>	27	33	30	37	27	25		23	202
" 18 months to 2 years	13	31	17	25	39	46		26	197
" 2 to 3 years	52	59	23	46	46	65		34	319
" 3 " 4 "	35	55	39	63	36	25		53	306
^{ст} 4 ^{ст} 5 ^{сс}	46	41	31	51	27	67		36	299
" 5 " 6 "	43	52	19	57	25	121		46	363
⁴⁴ 6 ⁴⁴ 7 ⁴⁴	26	45	17	45	24	80		43	280
" 7 " 8 "	38	36	47	33	53	105		28	340
" 8 " 9 "	27	3 3	19	47	22			8	156
··· 9 ··· 10 ···	40	57	30	35	19			42	22 3
" 10 " 15 "	118	151	96	243	167			145	920
" 15 " 20 "	49	113	75	142	•• •••			52	431
• 20 years and upwards	101	189	75	85	•••••			66	516
Totals	717	1013	589	1017	596	639	141	659	537 2

No. 38

TABLE No. 7.

Shewing the periods that patients were under treatment who were discharged during the year as cured.

.

]	Peri	od	under	treatment.	Toronto Asylum.	London Asylum.	Kingston Asylum.	Hamilton Asylum.	Mimiço Asylum.	Brockville Asylum.	Cobourg Asylum.	Total,	
Unde	r on	e m	ont	h		4	1	{					5	
From	1	to	2	mont	hs	5	2	1	3		2		13	
6.9	2	4.6	3	* *		7	3	5	3	1			19	
44	3	64	4	4.6		5	3	6	2	3			19	
6.6	4	4.4	5	6.6	••••	3	1	4	2	5	2		17	
+6	5	44	6	6.6		4	2	1	3		2	1	1 3	
6.6	6	4.4	7	64	•••••	4	2	5	3	2	1		[17	
4.4	7	4.4	8	6.6		3	6	1	5	4	8		27	
4.6	8	• 4	9	6.6	• • • • • • • • • • • • • • • • •	1	2	1	2	6	6		18	
64	9	4.6	10	4.4		2	4		1	1	6		14	
6.6	10	68	11	6.6	•••••	 	2	1	1	4	1	••••	9	
6.6	11	4.6	12	64		2	2	1	1	Б	3		14	
4.6	12	6.6	18	6.4										
4.4	18	mon	ths	to 2 3	76ars	1	9	1	6	6	3	• • • • • • •	26	
6.4	2	to	3	years		3	6	2	3	4	2		20	
6.6	3	6.4	4	6 E	••••	1	1		3	1	1		7	
4.6	4	6.6	5	66		• • • • • • • • •	2		2	1	2	• • • • • • •	7	
4.4	5	66	6	+ 6		1	1		1		1	• • • • • • •	4	
6.6	6	6.6	7	6.1			1		••••••		1		2	
61	7	+ 6	8	6.6	·····		1		1		1		3	
6.4	8	64	9	66	••••••		2	••••					2	
5.6	9	64	10	41			1		1	• • • • • •			2	
6.8	10	64	15	4.4					1	•••••			1	
4.6	15	66	20	4.6		1			• • • • •	••••			1	
20 yea	ars a	nd	upv	vards						•••••		• • • • • •	• • • • • • • •	
	Т	otal	ls ,			47	54	29	44	43	42	1	260	

TABLE No. 8.

Shewing the periods that patients were under treatment who were discharged during the . year as improved.

Period under treatment.	Toronto Asylum.	London Asylum.	Kingston Asylum,	Hamilton Asylum.	Mimico Asylum.	Brockville Asylum.	Cobourg Asylum.	Total.
Under one month	3		1					4
From 1 to 2 months	4	2		3				9
" 2 " 3 "	2			2				4
" 3 " 4 "					2			2
" 4 " 5 "	2		1			2		5
4 5 ¹¹ 6 ¹¹	1	1	1	1	2			6
44 6 44 7 44 ·····			1	1				2
46 7 68 8 66		1						1
** 8 ** 9 **				1		1		2
** 9 ** 10 **		2		1				3
4 ⁴ 10 ⁴ 11 ⁴⁴	2			1				3
" 11 " 12 "		1	2	1				4
··· 12 ··· 18 ···	1	3		1				5
" 18 months to 2 years	1	1		1	2			5
4' 2 to 3 years	4		2	3				9
** 3 ** 4 **	2	1	2					5
14 4 14 5 14			1					1
** 5 ** 6 **								• • • • • • • •
⁴⁴ 6 ⁴⁴ 7 ⁴⁴								
44 7 44 8 44								
zt 8 ^{tt} 9 ^{tt}								
·· 10 ·· 15 ··	1	1		3				5
" 15 " 20 " [']			2	1				3
20 years and upwards			1					1
Totals	23	13	14	20	6	3		79
]]		

TABLE No. 9.

Shewing the periods that patients were under treatment who were discharged during the year, unimproved.

					•			-			
	Period	s under	treatment.	Toronto Asylum.	London Asylum.	Kiogston Asylum.	Hamilton Asylum.	Mimico Asylum.	Brockville Asylum.	Cobourg Asylum.	Total.
Und	er 1 mont	h		2	1	1		 			5
Fron	n 1 to 2	month	s	1							1
54	2 " 3	6.6		2	1		1	1	1		6
6.6	3 '' 4	4.6		1		1					2
6.6	4 '' 5	6.0		1							1
6.6	5 " 0	6 h		4		2					6
6.6	6 " 7	6.6									
64	7 ** 8	6 6	** * * * * * * * * * * * * * * * * * * *		1						1
64	8"9	6.6									
6.6	9"10	4.6		1							1
1.6	10 '' 11	66	•••••				1			- • • •	1
64	11 '' 12	5.E	••••••								
66	12 '' 18	6.6	•••	· 1	•••	1	3		••••		5
44	18 mo nt]	hs to 2	years	1		• • • • • • • • •					1
64	2 to 3	years			1		•••••				ι
4.6	3 ** 4	6.6			1	•••••	•••••				1
6.6	4 ** 5	6.6			•••••		1				1
4.6	5"6	4 6									
5.6	6 " 7	8. Ű									
6.6	8 ** 9	6 6						•••••		• • • • • • • •	• • • • • • • • •
+ 6	10 '' 15	•4									*** ••••
6 6	15 " 20	66					••••		•••••		
	Totals.			14	5	5	7	1	1		33

TABLE No. 10.

Shewing the length of residence of patients who died during the year.

	Len	gth of r	residence.	Toronto Asylum	London Asylum.	Kingston Asylum,	Hamilton Asylum.	Mimico Asylum.	Brockville Asylum.	Orillia Asylum.	Cobourg Asylum.	Total.
TT . 4	1	. ,					~					
	er 1 mon			4	4	3) Ő	2	3	1	•••••	22
From		month	9	1	2		4	1	2	1	1	11
	2 3	44	• • • • • • • • • • • • • • • • • • •	2	1	1	1	4		••••	1	10
	3 " 4		•••••	2	2			1				7
6.6	4 * 5	64	••••		2	1	1	2	3			10
4.6	5 " 6	6.6	•••••	2	2	2			1	••••	1	7
6.6	6 " 7	6.6	• • • • • • • • • • • • • • • • • • • •		2	2	1	2	••••			7
64	7 " 8	4.6		• • • • • •	1	1			• • • • •	1		3
4.6	8 " 9	14	****	2	2	1	1	1	1	• • • • • •	• • • • • • •	8
÷.6	9 ''10	6.6	••••••	1	1	3	2	2	• • • • •	3	••••	12
4.6	10 '' 11	6.6	•••••	••••	1	1	2	••••	1			5
4.6	11 " 12	6 6	•••••	• • • • • •	1		1		• • • • • •	1		3
6.6	12 "18	6.6	•••••	6	-1	5	2	1	3	3		24
6.5	18 month	ns to 2 y	ears	1	1	1	3	2	5	1		14
6.6	2 to 3	years	•••••	2	2		4	2	7	5		22
44	3 " 4	6.6		3	5	3	1	2	2	2	•••••	18
6.6	4 " 5	6.6	•••••	1	1	1	3	1	8	3		18
4.6	5 " 6	6.6		3	1	3	2	1	6	3		19
	6 " 7	14			3	2	1	• 1	9	1		17
5.6	7 " 8	6.6		1	2	1	1	1	3	2		11
• 6	8 ** 9	4.6		1	1		1			1	· · · · ·	4
6.6	9 10	4.6		1	3	1	1	3		4		13
44	10 " 15	4.6		13	8	6	4	4		2		37
66	15 ** 20	66		1	3	3	1			1		9
46	20 years a	and up	wards	5	7	6	2			4		24
	Totals			44	62	47	44	33	54	38	3	325

TABLE No. 11.

Shewing the causes of death of those who died.

Causes of Death.	Toronto Asylum.	London Asylum.	Kingston Asylum.	Hamilton Asylum.	Mimico Asylum.	Brockville Asylum.	Cobourg Asylum.	Orillia Asylum.	Totals.
Acute Mania Abscess of Bowel Apoplexy Abscess of Scalp Angina Pectoris Asthma Anomia Bright Disease Cystitis Cerebral Softening Carcinoma of Liver Carcinoma of Liver Carcinoma of Liver Cancer of Uterus Cancer of Throat. "Liver Carciooma of Bladder Diarrhea, Chronic Dysentery. Exhaustion of Mania "Melancholia. Epilepsy Erysipelas Endocarditis Exhauston of Dementis Fracture Fever, Enteric. "Typhoid Gastritis Gangrene General Debility. Heart Disease. Hernia Hemorrhage, Cerebral Inanition. Marasmus Nutral disease Maphritis Pyelo. Obstruction of Bowels. Phthisis Parisis, General Purpura Hæmoplyses Parisis, eneral Purpura Hæmoplyses Paralysis Paneumonia Rheumatism Strangulation Senile Dementia Strangulation Senile Dementia Sucicde Tuberculosis Voloulus	1 		1 1 1 1 1 1 1 1 1 1 1 1 1 1			6 4 3 6 1 1 1 4 4 	22	8 8 1 1 1 1 1 1 1 1 1 1 10 1 1 4	$1 \\ 1 \\ 7 \\ 1 \\ 3 \\ 2 \\ 1 \\ 4 \\ 2 \\ 5 \\ 2 \\ 6 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2$
Totals	44	62	47	44	33	54	3	38	32 5

TABLE No. 12.

Shewing trades, callings and occupations of patients admitted into the asylums during the the year, and also the total number admitted.

Trade, callings and occupations.	Toronto Asylum.	London Asylum,	Kingston Asylum.	Hamilton Asylum.	Mimico Asylum.	Brockville Asylum.	Cobourg Asylum.	Admissions of the year.	Total admis- sions.
ctors	1	 1			1			3	3 1
agents Architects	2	1	•••••			1		$\frac{2}{2}$	5 1
asket-makers									
ankers	1	4	· · · · · · ·		i		1	7	7
BakersBricklayersButchers					• • • • • • • • • • • • • • • • • • •	• • • • • • •		* * * * * *	5 2 3
Blacksmiths						1		1	15
Brewers			1			• • • • • •	•••••	$\begin{array}{c} 1 \\ \cdots \\ 2 \end{array}$	1 1 2
Broom-makersBarristers	2	1	· · · · · · · ·					1 2	1
ookbinders rickmakers ridge-tenders		· · · · · · · · · · · · · · · · · · ·			1	• • • • • • • • •		1	1
rush-makers utton-makers		•••••				•••••			
aggagemasters rakemen ailiffe		· · · · · · · ·	• • • • • • • •	· · · · · · · ·	· · · · · · · ·	• • • • • • •	• • • • •	· • • • • • •	
ommercial travellers	1	1	. .		1			3	53
onsuls		•••••	· • • • • • •			1		1	
oopers	36	2 1	· · · · · · 2	$\begin{array}{c} 1\\ 1\\ 1\end{array}$	2	1	•••••	$\begin{array}{c} 2\\7\\10\end{array}$	4 42 40
lergymenarriage-makers		1	••••	1		1	•••••	$\begin{bmatrix} 2\\1 \end{bmatrix}$	72
arders		2	••••	•••	· · · · · · ·	2	••••	4	3
garmakers		1						1	1 1
oppersmiths heesemakers vil servants			••••	••••		••••	• • • • • • •	ŏ	2
lock-cleaners		• • • • • •		•••••					1
ontractors loth dressers hisel-makers		••••	••••	••••		• • • • • • •			1
oschmen				• • • • • •					
yers omestic servants, all kinds ressmakers	14	$\frac{8}{2}$	 3 4	2 2	10 3	6 1	46 1	86 13	3,58 15
etectives ruggists entists	1			1		1	• • • • • • •	$\frac{1}{2}$	4
octors				• • • • • • •			• • • • •		7
bgineers ditors ngravers	1	1	1	1		1		5	7

xxviii.

TABLE No. 12.-Continued.

Shewing trades, callings and conditions of patients admitted into the asylums during the year, etc.

Trades, callings and occupations.	Toronto Asylum.	London Asylum.	Kingston Asylum	Hamilton Asylum.	Mimico Asylum.	Brockville Asylum,	Cobourg Asylum,	Admissions of the year.	Total admin- sions.
Farmara	10	35	10	22	16	12		105	3,973
Farmers Fishərmen	10					12			
Founders	1								7 4
Ferrymen			1					· ·· 1	$\frac{2}{8}$
Fruit canners									2
Florists									1
Gardeners]				2			2	54
Grocers		1				1		$\overline{2}$	27
Glass-blowers Gentlemen					··· ·· 1				4 60
Glovemakers				•••				1	11
Gunsmiths									$\frac{2}{2}$
Governors		• • • • • •		•••••		• • • • • • •	• • • • • • •	• • • • • •	2 1
Grooms			* * * • • •	* * * * * .	•••••				1
Hucksters									2
Hatters			• • • • • •		· · · · · · ·	••••			5 11
Hunters			1					1	6
Harness-makers									33
Honsekeepers Haek drivers	55	42	39	61	45	47	57	346	4,505 28
lnn-keepers				•••••	•• •••			• • • • • •	10
Jewelers	1					1		1	29
Janitors	2						• • • • •	2	$\frac{5}{2}$
Journalists			••••		• • • • •	• • • • •	• • • • • •		2
Lock-keepers									1
Laborers	10	19	.17	19	21	31		117	4,285 33
Ladies				• • • • •					264
Lawyers									35
Lnmbermen			· • · • • · ·	· · · · ·	4	· • • • • •		4	$\frac{24}{1}$
Loom fixer]								î
Liverymen									1
Milliners						1	1	2	58
Masons	{								72
Machinists	2				1	* * * * * * /		3	92 8
Matchmakers				• • • • • •		• • • • • • •] • • • • • • •		57
Moulders		1			1			2	60
Merchants	3			1	2	$\frac{3}{1}$	•••••	8	75 80
Mechanics							1	1	32
Marble cutters				· 1				1	7
Milkmen			• • • •					•••••	3 2
Millwrights		• • • • • •	****						~
No occupation	10	16	11	7	3	11	31	89	$1,321 \\ 3$
Nightwatchmen Nusses			2	1	1	• • • • •		4	39
		1							
Organ builders			·· · · · ·	•• ••	• • • • • •	• • • • • •			3
Piano case-makers									2
Professors of music								•••••	14 4
Plasterers	• • • • • •	· · · · · ·		* * * * * * .] • • • • • •		1	• • • • •	4

.

TABLE No. 12.-Concluded.

Shewing trades, callings and conditions of patients admitted into the asylums during the year, etc.

		1							
Trades, callings and occupations.	Toronto Asylum.	London Asylum.	Kingston Åsylum.	Hamilton Asylum.	Mimico Asylum.	Brockville Asylum,	Cobourg Asylum.	Admissions of the year.	Total admis- sions.
Pensioners	1							1	6
Photographers	1	1						2	16
Prostitutes	i · · · · · ·		1						13
Painters	$2 \\ 1$		1		2	1		$\frac{6}{2}$	154 82
Printers	-	****						- 1	93
Pedlars		1						2	58
Pumpmakers									4
Plumbers									3
Patternmakers									1
Policemen	1								1
Private Secretary					• • • • •				1
Porters					• • • • • •	• • • • •		• • • • • •	1
D 1 h h		3						3	35
Railway employees		0			*****			0	0.7
Spinsters		3				3		3	208
Sailors	1		2	1				3	86
Students	1	1		1				3	173
Spinners									34
Sisters of charity									6
Soda water manufacturers									1
Stonecutters			••• ••				• • • • • •	- · ·	24
Showmen			1					1	3 17
Saddle s	···· .							5	215
Shoemakers	<u>ث</u>							9	53
Slaters					-				1
Soldiers					1			1	28
Salesmen	2							2	18
Surveyors									6
Sail and tent makers			1					1	4
Shop-keepers		·					• • • • • •		10
Ship-builders		· · · · ·						•••••	11 6
Stenographers						••••			1
Station-masters			• • • • • •						1
Teachers			1	1	1	1		4	300
Tinsmiths				ī		ī		2	44
Tavern-keepers			1					1	139
Tailors	2	1		4	3	1		11	71
Tanners				1					17
Teamsters				1		1	•••••	$\begin{vmatrix} 2 \\ 1 \end{vmatrix}$	12
Telegraph operators			• • • • • •	1				1	8
TTphalatorera									1
Upholsterers									-
Veterinary surgeons									2
Vinegar maker						1			1
Watchmakers			(· · · · · ·						15
Woodworkers							* * * * * *	• • • • •	12 43
Weavers								• • • • •	43
Wheelwrights Wagonmakers						• • • • • • •			
Wagonmasers	1								27
Wives									650
						1			
Unknown or other employment	11			10	4		1	26	2.871
		1			1				

13.	
No.	
BLE	
TAJ	

Showing in detail the expenditure of the various Asylums during the years ending 30th September, 1902.

	THE REPORT OF THE INSPECTOR OF	No. 38
Orillia asylum,		75 00 358 55 231 93 75 16 861 59
Cobourg asylum.	 S. c. 2.87 68 2.87 68 2.87 91 158 50 158 50 158 50 158 50 158 50 158 50 236 51 233 191 233 191 233 191 238 51 192 92 92 202 92 202 92 202 92 202 92 203 15 14 	
 Brockville asylum.	$\begin{array}{c} & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ &$	
Mimico asylum.		328 83 297 11 254 20 379 05 1,782 74
Hamilton asylum.	$\begin{array}{c} \$ & c. \\ & 793 & 44 \\ & 793 & 44 \\ & 793 & 44 \\ & 793 & 44 \\ & 793 & 50 \\ & 765 & 39 \\ & 767 & 39 \\ & 767 & 39 \\ & 767 & 300 \\ & 1,043 & 00 \\ & 773 & 200 & 77 \\ & 937 & 56 \\ & 1,777 & 72 \\ & 1,777 & 72 \\ & 1,777 & 72 \\ & 1,777 & 72 \\ & 1,777 & 72 \\ & 1,777 & 72 \\ & 1,777 & 72 \\ & 1,777 & 72 \\ & 75 & 26 \\ & 73 & 56 \\ & 74 & 56 \\ & 74 $	593 67 531 55 531 55 378 93 3,389 28
Kingston asylum.	$\begin{array}{c} \$ & c. \\ 607 & 42 \\ 1153 & 86 \\ 11, 864 & 35 \\ 3,771 & 27 \\ 3,771 & 27 \\ 3,771 & 27 \\ 3753 & 56 \\ 765 & 56 \\ 775 & 369 \\ 775 & 399 \\ 377 & 379 \\ 377 & 45 \\ 775 & 399 \\ 775 & 45 \\ 775 & 75 \\ 7$	$\begin{array}{c} 225 \\ 316 \\ 316 \\ 416 \\ 1,329 \\ 30 \end{array}$
London asylum.	$\begin{array}{c} & & & & \\ & & & & \\ & & & & \\ & & & & $	$\begin{array}{c} 338 50 \\ 547 67 \\ 762 27 \\ 762 27 \\ 2,100 59 \end{array}$
Toronto asylum,	$\begin{array}{c} *& \circ\\ & & & & \\ & & & \\ & & & & \\ & & & \\ & & & & \\ & & & \\ & & & & & \\$	355 41 450 77 116 00 2948 26 948 26
	Medicines Medicial comforts and appliances Butcher's m eat Poultry, fielt, etc. Flour, bread, etc. Protes Coffee Coffee Coffee Coffee Coffee Salt, pepper, mustard, vinegar, pickles Sugar and aprup Un-numerated groceries Fruit and vegetables Bed fing Straw for bedding Cotal Wood Cotal Wrote and mops Straw for bedding Cotal Wrote and mops Cotal Wrote and cher laundry expenses Rath brick, black-lead, blacking Strap and other laundry expenses	te Advertising and printing Advertising and printing Po-tage, telegraph and express charges Prationery and library Furniture, renewals and repairs

No. 38

LUNATIC AND IDIOT ASYLUMS.

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121 70 118 88 1,606 66 1,606 64 940 67 940 67 940 67 940 67 940 67 940 67 940 67 940 67 940 67 940 67 940 67 96 10 66 48 66 41 86 64 36 64 261 34 20 454 93 93	60,788 33
212 87 102 60 3 65 77 87 309 15 9 15 9 15 9 15 04 11 60 11 60 11 60 11 60 11 60 13 63 8,131 23 8,131 23	21,148 32
$\begin{array}{c} 44 & 95\\ 322 & 96\\ 1,511 & 44\\ 1531 & 44\\ 1531 & 153\\ 127 & 21\\ 1232 & 15\\ 142 & 72\\ 142 & 72\\ 142 & 72\\ 153 & 30\\ 142 & 72\\ 153 & 30\\ 142 & 72\\ 153 & 30\\ 142 & 72\\ 153 & 30\\ 142 & 72\\ 153 & 30\\ 153 $	73,140 52
233 64 294 99 709 82 1,061 29 826 57 723 59 712 59 826 57 723 59 820 50 80 90 80 90 80 90 81 41	67,748 69
$\begin{array}{c} 179 & 75 \\ 466 & 52 \\ 1, 140 & 42 \\ 1, 140 & 42 \\ 1, 140 & 42 \\ 1, 143 & 96 \\ 1, 138 & 11 \\ 1, 138 & 11 \\ 151 & 151 \\ 151 & 151 \\ 15$	131,069 77
$\begin{array}{c} 64 & 98 \\ 383 & 53 \\ 1, 113 & 53 \\ 1, 210 & 43 \\ 1, 210 & 43 \\ 220 & 35 \\ 629 & 83 \\ 629 & 83 \\ 629 & 83 \\ 73 & 84 \\ 108 & 92 \\ 73 & 84 \\ 108 & 92 \\ 73 & 84 \\ 108 & 92 \\ 73 & 84 \\ 108 & 92 \\ 73 & 84 \\ 73 & 84 \\ 73 & 84 \\ 73 & 84 \\ 73 & 84 \\ 73 & 84 \\ 73 & 84 \\ 73 & 84 \\ 73 & 84 \\ 73 & 84 \\ 73 & 84 \\ 73 & 84 \\ 73 & 84 \\ 73 & 75 \\ 73 & 84 \\ 73 & 75 \\ 73 & 84 \\ 73 & 75 \\ 73 & 84 \\ 73 & 75 \\ 73 & 84 \\ 73 & 75 $	75,360 51
$\begin{array}{c} 453 & 57 \\ 750 & 78 \\ 750 & 78 \\ 914 & 33 \\ 1216 & 638 \\ 538 & 59 \\ 638 & 59 \\ 742 & 73 \\ 1742 & 73 \\ 749 & 40 \\ 37 & 22 \\ 737 & 23 \\ 749 & 40 \\ 37 & 23 \\ 749 & 54 \\ 740 & 54 \\ 740$	132,382 34
$\begin{array}{c} 330 \ 52 \\ 276 \ 04 \\ 3,210 \ 59 \\ 3,211 \ 57 \\ 372 \ 09 \\ 372 \ 09 \\ 372 \ 09 \\ 372 \ 09 \\ 17 \ 61 \\ 126 \ 28 \\ 161 \ 07 \\ 161 \ 101 \ 07 \\ 161 \ 010 \ 010 \\ 161 \ 010 \ 010 \\ 161 \ 010 \ 010 \\ 161 \ 010 \ 010 \\ 161 \ 010 \ 010 \\ 161 \ 010 \ 010 \ 010 \\ 161 \ 010 \ 010 \ 010 \\ 161 \ 010 \ 01$	97,696-89
Iron and tinware Crockery and glassware Feed and folder Farm stock and implements and repairs thereat Farms fordinary) to buildings Repars (ordinary) to buildings Hardware, etc. Hardware, etc. Preight and duties Blopres, cost of recovering Freight and duties Religious tervices and school instruction Religious tervices and school instruction Religious tervices and school instruction Religious tervices and school instruction Religious tervices and school instruction Salaries and wages.	Totals

TABLE No. 14.

Shewing the expenditure in each Asylum under the various headings of the estimates and the annual cost per patient under such heading.

um.	Yearly cost per patient.	с сс	52	10 76 5 96		5 86		10 09		2 12	1 68	$\begin{array}{c} 2 & 7.3 \\ 1 & 67 \end{array}$	1 01	31 18		92 66	
Orillia asylum.	Expended under headings of Estimates,	0 %	340 45			3,813 44 811 93		6,615 99		1 303 47	1,101 67	$\begin{array}{c} 1,789 & 50 \\ 1,097 & 25 \end{array}$	665 64	20.454 93		60,788 33	+
aylum.	Yearly cost per patient.	0 60	3 81	8 23 4 30			Γl	15 48	67	3 97	1 34	49 3 68		61 59 61 91		161 03	-
Cobourg asylum.	Expended under headings of Estimates.	ల రం	500 92	1,081 $14564 93$		1,335 50 274 43		2,033 41		520-96	989 92	63 65 483 59	613	208 68 8,131 23	alu'r	21,148 32	
lle	Yearly cost per patient.	ບ ແ	16	$15 \ 05 \ 6 \ 22$				2 69		1 86	1 36	$\begin{array}{c} 2 & 75 \\ 3 & 92 \\ \end{array}$		35 77	-	115 18	-
Brockville asylum.	Expended under headings of Estimates.	ບ %	571 11	9,553 38 3,949 84				4,878 67		1,165 37	870.93	$\begin{array}{c} 1,744 \ 61 \\ 2,499 \ 08 \end{array}$	94	22,720 00 22,720 27	EC C	73,140 52 115	
ylum.	Yearly cost per patient.	ਹ *#	1 87	13 39 6 32				1 13	19	2 78	3 92	2 92 5 27	1 58	45 47		114 80	_
Mimico asylum.	Expended under beadings of Estimates.	о Уг	1,106 20	7,900 23				667 02		1,642.95	2,311 37	1,722 80 3,111 45	930 36	26,831 41	101	67,748 69	
g .	Vearly cost per patient.	ಲೆ ್ಲೇ	26	14 39 5 31				23 27		1 79	3 93	2 20 3 20		34 17		127 62	-
Hamilton asylum.	Expended under beadings of Estimates.	ů F.	1,005 76	14,776 24 5,450 39	303	177	394	23,897 89	610	1,826 57	4,035 85	2,261 $643,290$ 63		3,584 66 35,096 29		46 131,069 77	
aylum.	Yearly cost per patient.	о У.	1 28	21 73 6 07	9	ರಾಣ	S.	0 32		2 05	3 00	2 87 2 43	1 67	44 22	÷	127	
Kingston asylum	Expended under headings of Estimates,	ບ ເຂ	761 28	12,842 573.589 65			9.63	5,513 13		1,213 01	1,777-81	1,696 50 1,437 01	989-18	26,137 86	eec	75,360 51	
	Yearly cost per patient.	ن 20	66	15 59 54	ŀ~ ;	10	19	20 39	3	1 97	3 24	2 09 4 18	1 61	38 58 38		129 78	
London asylum.	Expended under headings of Estimates	ਹ %	1,015 34	15,905 29 5,957 32	265	820		20,793 42		2,007 92	3,304 94	2,131 06 4,262 49	1,648 44	39,349,84	000	132,382 34	
ylum.	Yearly cost per parient.	ບ ແ	26		r	20	9	5 71		2 01	2 17	4 91 4 01	1 20	47 37	a	136 25	
Toronto asylum.	Expended under headings of Estimates.	ວ %	695 64	15,471 72 3,392 60	5,671 36	5,800 71 2,273 31	01 96F F	4,096 72	3,626-21	1,441 90	1,554 82	3,521 $822,878$ 96	859 17	33,963 03	15. / 5.0 ⁴ T	97,696 87,136	
	Headings of estimates.	Madioine and medical	comforts Butcher's meat fish and	poultry Flour, bread, etc	Butter	Fruit and vegetables.	Bedding, clothing and	Fuel	Gas, oil, etc Laundry soan and clean-	ing	ings	fodder Repairs and alterations.	Frinting, postage and stationery	Water supply	ALISCENSION ****	Totals	

No. 38

TABLE No. 15.

Shewing the supplies for which tenders were invited and the prices paid for same.

Supplies.	Toronto Asylum.	London Asylum.	Kingston Asylum.	Hamilton Asylum	Mimico Asylum.	Brockville Asylum.	Cobourg Asylum.	Orillia Asylum.
	8 c.	8 c.	\$ c.	\$ c.	8 c.	\$ c.	8 c.	\$ c.
Butchers' meat, per cwt						6 75	7 50	6 55
Flour, per bbl	$3 \ 32\frac{1}{2}$	3 44	3 48	3 55	$3 47\frac{1}{2}$	3 49	3 60	3 63
Oatmeal, per bbl	5 75	4 75	5 85	5 70	5 75	5 80	5 85	5 75
Split peas, per bbl	4 50	 , • • • • • • • • •	3 95		 • • • • • • • • •	4 80	 • • • • • • • •	
Butter, creamery, per lb	$20\frac{7}{8}$	21	$21\frac{3}{8}$	$21\frac{1}{2}$	21	22	22	
" dairy, per lb	$16\frac{3}{4}$		18		$16\frac{3}{4}$	16		174
Potatoes, per bush	65		65		**	65	- • • • • • • • •	• • • • • • • •
Fuel.								
Hard coal, large egg, per ton	$5 \ 48$		5 85	5 85	5 63	5 86	5 90	••• ••••
** stove **	573	5 65	5 85	5 85	5 91	5 86	5 90	$6\ 25$
" chestnut ""	5 73	5 65	5 85	5 85	5 91	5 86	5 90	
" small egg '	• · · • • • • • •	5 90	5 85	5 85		5 86		•••• •• ••
" screenings " {hard	•••••		$2^{-}80$	2 25				
screenings (soft	$2_{-}93$	••• •••	3 60	3 00	3 28			3 89
Soft coal	4 85	4 25		5 00		• • • • • • • • •		••••
Hard wood, green, per cord	5 60					••••		
" dry, "	••••		•••••			••••••		····

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TABLE

Shewing the nature of employment, the number of patients employed, the number of

-

	Tore	oronto Asylum London Asylum Kingston Asylum Ham							Ham	ilton Asy	lum	
Nature of employment.	No. of patients who worked.	No. of days worked.	Average per patient.	No. of patients who worked.	No. of days worked.	Average per patient.	No. of patients who worked.	No. of days worked.	Average per patient.	No. of patients who worked.	No. of days worked.	Average per patient.
Carpenter shop Tailor shop Shoemaker's shop Engineer's shop Blacksmith's shop Mason work Repairing roads Wood yard and coal shed Bakery Laundry Dairy Butcher shop and slaughter house Piggery Panting Farm Garden and grounds Stable Kitchen Dining-rooms Officers' quarters	3 4 3 6 1 3 40 6 1 3 40 6 1 3 5 7 5	936 868 864 2,160 	312 216 288 360 312 360 360 360 312 312 312 360 360 360 360 360 360 360 360	30 2 5 67 11 26 52	$\begin{array}{c} 2,853\\ 1,234\\ 606\\ 2,339\\ 1,245\\\\ 608\\ 1,421\\ 9,516\\ 151\\ 1,561\\\\ 897\\ 11,554\\ 16,900\\ 3,599\\ 9,295\\ 16,767\\ \end{array}$	2855 309 303 292 249 304 284 317 75 312 2999 246 252 327 356 322	8 2 14 3 4 28 12 6 3 8 17 16 8 16	3,060 1,080 1,248 2,039 630 3,600 840 920 7,504 3,060 1,640 7,504 3,060 1,850 4,289 2,946 1,860 4,669 12,103 2,545 2,545 2,545 3,659 3,595 3,659 3,659 3,659 3,659 3,659 3,659 3,595	200	8 10 4 33 7 4 5 36 90 7 21 65	$1,011 \\ 939, \\ 1,047 \\ 2,624 \\ \dots \\ 1,529 \\ \dots \\ 1,216 \\ 9,205 \\ 2,466 \\ 469 \\ \dots \\ 1,386 \\ 7,880 \\ 1,386 \\ 7,880 \\ 1,386 \\ 2,251 \\ 6,895 \\ 22,674 \\ 2,270 \\ \dots \\ 2,261 \\ 6,895 \\ 22,674 \\ 2,270 \\ \dots \\ 2,261 \\ \dots \\ 2,261 \\ \dots \\ 2,261 \\ \dots \\ 2,261 \\ \dots \\ 2,261 \\ \dots \\ 2,261 \\ \dots \\ 2,261 \\ \dots \\ 2,261 \\ \dots \\ 2,261 \\ \dots \\ 2,261 \\ \dots \\ 2,261 \\ \dots \\ 2,261 \\ \dots \\ 1,26 \\ \dots \\ $	253 313 262 328 153 304 280 352 117 219 229 320 320 329 349 324
Sewing Knitting Spinning Mending		9,216 10,944	312 290 288	24 10	13,866 6,048 1,354	224 250 135	34	9,377 5,194	284 275 288	48	13,044 3,723	280 272 170
Wards and halls Storeroom Not otherwise specified	125 1 120 1 120 1	35,000 312 39,966	312 338	3 156	38,189	$154 \\ 244$	2 50		301 270 193	40	389 13,375	342 97 335
Totals	509	158,825	312	892	258,250	288	525	140,656	268	925	281,629	305

1902

No. 16.

days' work done by patients, and the average work in days per patient during the year.

Min	.ico Asyl	um	Broc	kville As	yľm	Cob	ourg Asy	lum	Ori	llia Asylı	ım		Totale.	
No. of patients who worked.	No. of days worked.	Average per patient.	No. of patients who worked.	No. of days worked.	Average per patient.	No. of patients who worked.	No. of days worked.	Average per patient.	No. of patients who worked.	No. of days worked.	Average per patient.	No. of patients who worked.	No. of days worked.	Average per patient.
5 5 2 9 3 20 	1,415 1,206 582 2,740 881 	283 241 291 304 294 324 310	$ \begin{array}{c} 2 \\ 3 \\ 5 \\ 10 \\ 2 \\ 3 \end{array} $	$1,240 \\ 427 \\ 962 \\ 992 \\ 1,450 \\ 610 \\ 1,041 \\ 7,024 \\ 2,140 \\ \end{cases}$	248 213 320 194 145 305 347 305 373		435	109	2 6 8 3 22 7	312 1,252 1,240 939 6,328 2,510	156 209 155 313 287 358	$\begin{array}{c} 44\\ 29\\ 17\\ 42\\ 2\\ 38\\ 13\\ 24\\ 25\\ 0\\ 40 \end{array}$	$\begin{array}{c} 10,827\\7,006\\4,347\\12,864\\530\\8,559\\2,290\\6,378\\7,590\\47,436\\12,487\end{array}$	246 242 255 306 265 225 176 266 303 237 312
 4 10 36 4 15 15 12 8 35	$1,043 \\ 3,153 \\ 11,400 \\ 1,362 \\ 4,049 \\ 5,421 \\ 3,439 \\ 2,594 \\ 10,875 \\$	261 315 316 340 269 361 287 329 309	36 69 2 14 58 2 26	$\begin{array}{c} 730\\720\\883\\9,085\\14,624\\720\\4,386\\20,320\\690\\5,212\\3,108\end{array}$	365 360 221 252 212 360 313 351 345 200 77	 5 9	989	132 108	34 4 7	$\begin{array}{c} 156\\ 730\\ 260\\ 1,872\\ 3,277\\ 1,277\\ 2,228\\ 11,620\\ 1,425\\ 1,904\\ 7,214\end{array}$	$\begin{array}{c} 78\\ 365\\ 260\\ 156\\ 144\\ 319\\ 131\\ 342\\ 356\\ 272\\ 195\\ \end{array}$	$\begin{array}{c} 20 \\ 7 \\ 28 \\ 158 \\ 318 \\ 42 \\ 123 \\ 346 \\ 40 \\ 213 \\ 256 \end{array}$	$\begin{array}{c} 4,568\\ 2,210\\ 7,255\\ 37,833\\ 74,643\\ 13,229\\ 35,286\\ 114,850\\ 11,969\\ 52,935\\ 59,509\end{array}$	228 316 259 239 235 315 287 332 299 249 233
21 22 1 310	6,533 6,628 361 109,442	311 301 361 353		3,972 22,936 39,615	209 255 317	61	,-	†		1,040 71,337 313 7,834	50 360 313 290	150 1,456 12 837	32,871 464,373 2,378 259,019	212 305 198 309
540	180,297	334	548	142,881	260	105	17,142	163	436	125,068	2 86	4,480	1,293,233	289

TABLE No. 17.

Shewing the number of officers and employees in each and all of the asylums classified according to the duties performed.

Occupation.	Toronto Asylum.	London Asylum.	Kingston Asylum.	Hamilton Asylum.	Mimico Asylum.	Orillia Asylum.	Brockville Asylum.	Cobourg Asylum.	Total
Medical superintendents Assistant medical officers Bursars and clerks Storekeepers and assistants Stewards Matrons. Assistant matrons Engineer's assistants and stokers Masons and bricklayers Carpenters Painters Bakers and assistants Gardeners and assistants Gardeners and assistants Gardeners and assistants Farmers and farm laborers Tailors and seamstresses Stable and stock-keepers Butchers and jobbers Messengers, porters and portresses Cooks and kitchen maids Laundresses and assistants Hon-emaids Dairymaids Laundryman	$ \begin{array}{c} 1\\1\\1\\2\\1\\1\\1\\2\\2\\1\\2\\2\\1\\2\\5\\6\\4\\1\\\end{array} $	$ \begin{array}{c} 1\\ 2\\ 2\\ 2\\ 1\\ 1\\ 1\\ 2\\ 2\\ 2\\ 4\\ 3\\ 1\\ 2\\ 2\\ 6\\ 4\\ 8\\ 1\\ \dots\\ \end{array} $		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	$ \begin{array}{c} 1\\ 1\\ 2\\ 1\\ 1\\ 2\\ 1\\ 2\\ 2\\ 1\\ 2\\ 1\\ 2\\ 4\\ 3\\ 4\\ 1\\ 1 \end{array} $	1 1 1 1 1 6 1 1 2 4 2 2 3 8 1 	1 1 1 1 1 5 1 1 2 1 3 3 2 1	1 1 1 1 1 2 2	$\begin{array}{c} 8 \\ 7 \\ 9 \\ 13 \\ 9 \\ 3 \\ 8 \\ 8 \\ 4 \\ 3 \\ 12 \\ 10 \\ 125 \\ 10 \\ 125 \\ 132 \\ 27 \\ 31 \\ 5 \\ 132 \\ 27 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ $
Attendant. Chief male att+ndants and supervisors Chief female attendants and supervisors Traioed infirmary nurses Teachers of feeble-minded children Ordinary male attendants Ordinary female attendants Male night-watchers Female night-watchers	$ \begin{array}{c} 10 \\ \\ 19 \\ 21 \\ 4 \\ 4 \\ - \\ 4 \end{array} $	$ \begin{array}{c c} 12 \\ 7 \\ 1 \\ 32 \\ 27 \\ 3 \\ \end{array} $	8 7 1 15 15 2	$ \begin{array}{c} 8 \\ 11 \\ 1 \\ 33 \\ 27 \\ 3 \\ 7 \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ - \\ -$	6 5 18 18 2 2	$ \begin{array}{c} 1 \\ \\ 4 \\ 13 \\ 11 \\ 2 \\ 2 \\ - \\ - \\ 10 \\ - \\$	7 6 17 15 1 1 1	2 	52 38 4 147 143 14 19
Totals.	103	143	79	140	93	70	75	27	730

TABLE No. 18.

Shewing in quinquennial periods the ages of those persons admitted to the Asylums (including transfers during the year ending 30th September, 1902.

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		.latoT	18	42	96	91	108	126	107	107	28	81	22	34	24	18	9	67		õ	1,016
	Totals.	elaməH	1	22	19	46	69	74	66	68	58	45	50	20	17	11	-44			JQ.	909
		Male.	11	50	36	45	49	20	#	39	29	36	51	14	1-	2	2	10	:		410
		Total	18	10	6	ũ	ŝ	-11	Û	01	-			•			:		:		57
	Orillia Arylum.	Femsle.	1	9	5	61	1	07	-	1	1	:	:	:					:	•	28
	A, O	Male.	11	Q		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	2	01	-	.1					:	:	:	:		:	20
	<u>ن</u> عد	.latoT		:	4	0	11	19	13	20	18	19	19	1	-0	-	-	:		0	145
	Cobourg Aeylum.	Female.		*	-	01	11	19	13	20	18	19	19	1.4	10	[1	:		00	146
	ŠĞ	Male.		:	:	:	:		:	:	:	•		:	•	:		:			
	a,	. ІвзоТ		- 20	12	6	15	18	16	11	30	10	13	00	53	°0`	1	:			130
	Brockville Asylum,	Female.	:	00	ŋ	ų	00	9	-0	4	-11	-1-	-1	54	1	1	:		:	•	99
	Bre	.ક્રાકાય		ŝ	2	4	7	12	11	9	-	9	9	1	62	01	1	•		;	74
-	0. 1	.IstoT		4	6	17	-57 -57	16	61	00	E-4	8	80	67	1	55	-		:	-	131
	Mimico Asylum.	Female.	:	67	9	6	6	6	90	-	-11	-14	5	1		33	1	-		4	67
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	Hamilton Asylum,	Female.		r0	00	-	00	9	-T	12	6	9	Q	61	2	1	:	4		1	81
	A	.ef.s M		5	60	-41	11	11	4	6	£.	4	2	9	:	*	:		:	÷	65
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	Kingston Asylum.	Female	<u>.</u>	:	10	ţ	7	2	5	6	2	1	2	:	, 	1		4 9		;	55
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1902

LUNATIC AND IDIOT ASYLUMS

TABLE No. 19.

Shewing in quinquennial periods the ages of those persons discharged from the Asylums as cured during the year ending

_	7	1	.latoT		x	34	39	30	33	24	19	19	23	21	9	1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	:	260
	Totals.		Pemale		9	15	19	20	20	13	6	10	11	13	2	:	1	:	139
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5			.lstoT				:	:	1	:		•	:	:	:	:	:		1
	Cobourg Asylum.		Female						-	:	:	:	:		:	:			1-
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	Brockville Asylum.		elameA	1 :	_	9	3	61		60		-	άŋ		:		:	:	22
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	Mimico Asylum.		Female		61	4	63	0	4	1	1	-	:	Į		:			12
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	London Asylum.		_		:	1	9	\$	1-	1	62		61	1	1	:	:		22
	don 2		Female				0	5	50		1		60	5	1				
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	Toronto Asylum.		lam9A	:	Ţ	1	491	2	441	~	1	3	474	60	•		1	:	30
	oronte				ī	Ŧ	4 0°	:	1	1	1	:			-			:	
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	Ages			Under 15 years	From 15 to 20 years	4.6	11	9.9	¢.6	\$ \$	11	3	3	3	1	,,	13	•	
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THE REPORT OF THE INSPECTOR OF

No. 38

TABLE No. 20.

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		ar 15	115	20	25	30	35	40	45	50	55	60	65	70	75	80	85	06	95	IWOD	Totals
		Under 15 years	From	39	11	3.9	55	3	**	317	44	**	9.9	9 9	* *	23	9.9	9.9	99	Unknown	C ⁻¹

1902

LUNATIC AND IDIOT ASYLUMS.

•	30th S	Septen ber	, 1 901.	30tb September, 1902.			
Place of confinement,	Male.	Female.	Total.	Male.	Female.	Total.	
Asylum for Insane, Toronto	362	362	724	353	364	717	
" London	490	544	1,034	486	527	1,013	
" " Kingston	312	287	599	319	270	589	
" " Hamilton	468	561	1,029	477	540	1,017	
" " Mimico	303	302	605	297	299	596	
" Brockville	301	312	613	316	323	639	
" " Cobourg					141	141	
Total insane in asylums	2,236	2,368	4,604	2,248	2,464	4,712	
Asylum for Idiots, Orillia	350	302	652	346	313	659	
Total number in Provincial Asylums	2,586	2,670	5,256	2,594	2,777	5,371	
Homewood Retreat, Guelph	5	12	17	7	18	25	
Insane convicts in Kingston Penitentiary	36		36	37	 	37	
Insane and idiotic persons in the common gaols	59	36	95	47	18	65	
Total number of insane aud idiotic persons under public accommodation	2,686	2,718	5,404	2,685	2,813	5,498	
Number of applications on hand for admission to the Toronto Asylum	5	7	12	14	5	19	
Number of applications on hand for admission to the London Asylum	7	23	30	10	10	20	
Number of applications on hand for admission to the Kingston Asylum	2	5	7	5	5	· 10	
Number of applications on hand for admission to the Hamilton Asylum	11	9	20	6	16	22	
Number of applications on hand for admission to the Mimico Asylum			8	1	10	11	
Number of applications on hand for admission to the Brockville Asylum	3	3	6	3	δ	8	
Number of applications on hand for admission to the Orillia Asylum	231	162	393	278	187	465	
Total number of insane and idiotic per- sons known to the Department on 30th September, 1901 and 1902	2,945	2.935	5,880	3,002	3,051	6,053	

The details of the distribution of all these persons will be found in the following table, which also affords a means of compatison with the previous year.

Assigned Causes of Insanity.

The table showing the assigned causes of insanity is annexed.

	Number of instances in which each was assigned.									
Assigned causes.	As pre	disposing	cause.	As e	xciting ca	use.				
	Male.	Female.	Total.	Male.	Female.	Total.				
Domestic troubles, including loss of relatives or friends Adverse circumstances, including business troubles Love affairs, including seduction Mental anxiety—"worry" Fright and nervous shocks	4 4 4	3 4 2 4 1	3 8 2 8 2 8 2	5 15 29 8 20 11	25 15 11 28 17 13	$30 \\ 30 \\ 40 \\ 36 \\ 37 \\ 24$				
Physical.										
Intemperance in drink Intemperance, sexual Venereal diseases Self-abuse, sexual Over work Sunstroke Accident or injury Pregnancy Puerperal Lactation Morphia habit Puberity and change of life Uterine disorders Brain disease, with general paralysis Brain disease, with general paralysis Brain disease, with general paralysis Brain disease, with general paralysis Other forms of brain disease Other bodily diseases or disorders, including old age Fevers	$ \begin{array}{c} 13\\ 4\\ 3\\ 5\\ 6\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$ \begin{array}{c} 1\\ 1\\ 5\\ 2\\ 3\\$	$ \begin{array}{c} 14\\ 4\\ 4\\ 15\\ 5\\ 6\\ 6\\ 4\\ 2\\ 6\\ 13\\ 19\\ 20\\ 5\\ 43\\ 12\\ \end{array} $	$\begin{array}{c} 24\\ 5\\ 5\\ 36\\ 11\\ 8\\ 10\\ \\ \\ \\ \\ 2\\ 17\\ 20\\ 36\\ 22\\ 9\\ \end{array}$	$\begin{array}{c} 12\\ 5\\ 3\\ 4\\ 8\\ 4\\ 6\\ 100\\ 100\\ 8\\ 15\\ 5\\ 19\\ 100\\ 19\\ 38\\ 17\\ \end{array}$	36 10 8 40 19 12 16 10 30 10 10 10 15 7 36 80 55 60 26				
Hereditary.										
With other ascertained cause in combination With other combined cause not ascertained	58 100	40 69	98 169		4					
Congenital.										
With other ascertained causes in combination With other combined causes not ascertained Unknown	26 4 71	$\begin{vmatrix} 32\\1\\352 \end{vmatrix}$	58 6 423	$2 \\ 3 \\ 181$	142	2 3 3 2 3				
Total	381	578	959	381	578	959				

The following table shows the admissions, discharges, etc., for each year since 1877, inclusive :

Year.	Lunatics admitted.	Discharged, died and escaped.	Remained.	Percentage.
1877 1878 1879	$437 \\ 479 \\ 461$	$331 \\ 335 \\ 321$	$106 \\ 144 \\ 140$	$ \begin{array}{r} 24 & 25 \\ 30 & 06 \\ 30 & 36 \end{array} $
1879 1880 1881	507 502	353 386	140 154 116	30.30 30.37 23.10
1882 1883	493 518	401 433	92 86	$18.66 \\ 16.57$
1884 1885 1886	$493 \\ 457 \\ 519$	$ \begin{array}{c c} 416 \\ 423 \\ 355 \end{array} $	$77 \\ 34 \\ 164$	15.61 7.44 31.60
1887 1888	$\frac{425}{566}$	395 386	30 180	7.06 31,80
1889 1890 1891	$514 \\ 669 \\ 928$	$ 441 \\ 492 \\ 495 $	73 117 438	$14 20 \\ 26.46 \\ 46.66$
1892 1893	792 753	531 533	$\frac{261}{220}$	$\begin{vmatrix} 32.95\\29.21 \end{vmatrix}$
1894 1895	789 968	522 569 582	167 399	24.24 41.22
1896	753 905 759	594 650	181 311 109	$ \begin{array}{r} 23.72 \\ 34.36 \\ 14.36 \end{array} $
1899 1900	$711 \\ 722$	672 651	39 71	5.48 9.83
1901 1902	742 959	636 851	106 108	14.28 11.26

EMPLOYMENT OF PATIENTS.

The following two tables show, 1st, the percentage of patients employed in the year just closed, and 2nd, the increase in that percentage which has taken place since 1892, the first year in which we have regular statistics on the subject :

Asylums.	Actual population.	Number of patients who worked.	Collective stay, in days of patients.	Number of days' work done.	Percentage of days worked to collective stay.
Toronto	878	509	261,705	158,8 25	60.68
London	1,187	892	372,211	258,250	69.38
Kingston	699	525	215,491	140,656	65.21
Hamilton	1,175	925	374,717	281,629	75.16
Mimico	736	540 _a	215,393	180,297	83.70
Brockville	743	548	231,767	142,881	61.65
Cobourg	145	105	34,148	17,142	50 22
Orillia	709	436	239,585	125,068	52 20
Total	6,272	4,480	1,945,017	1,293,233	66 49

Asylums.	No. of cures.	No. of admissions.	Percentage of cures to admissione.
Toronto	47	154	30.52
London	54	153	35 29
Kingston	29	100	29.00
Hamilton	44	146	30.14
Mimico	43	131	32,83
Brockville	42	130	32,31
Cobourg	1	145	. 69
Totals	260	959	27.11

DISCHARCES.

PROBATIONAL DISCHARGES.

	Male.	Female.	Total.	Male.	Female.	Total.
Number to whom probational leave was granted				151	168	319
Discharged, cured	78	80	158			
" improved	6	17	23			
" unimproved	2	4	6			
Died before expiration of leave						
Returned to Asylum	34	31	65			
Out on probation 30th September, 1902	31	36	67			
Totals	151	168	319	151	168	319

DEATHS IN ASYLUMS.

.

Asylums.	Nø. of deaths.	Total population.	Percentage of deaths on total population.
Toronto	-44	878	5. 01
London	62	1,187	5.22
Kingston	47	699	6.72
Hamilton	44	1,175	3.75
Mimico	33	736	4.48
Brockville	54	743	7.27
Cobourg	3	145	. 20
Orillia Idiot	38	709	5 36
Totals	325	6,272	4.75

asylum in each year since 1062 :												
Year.	Toronto.	London.	Kingeton.	Hamilton.	Mimico.	Brockville,	Orillia.	Cobourg.				
1882	32 15	54.00	45.11	37 61								
1883	30.44	69.89	50 33	62.38								
1884	53.90	86 56	76.59	56.40								
1885	38.40	79.58	61 13	48.82				•••••				
1886	41.10	77.84	68.26	62.32	•••••							
1887	56 37	77.84	68.26	61.49								
1888	52 09	77 54	65.71	73.95				•• •••				
1889	51.39	77.30	70.56	57.32								
1890	62.01	75.43	70.27	68.43								
1891	67 04	73.40	87.24	77.27	******		••••••					
1892	75 05	77.20	65,89	76-90	36 11							
1893	73.44	78.71	73.22	77.20	$43 \ 26$	• • • • • • • • • •						
1894	77.13	77.41	74.47	76.43	72.12							
1895	91 64	76.11	68.60	76 74	53 08	52.84	38.50					
1896	72.04	75.69	70.00	73.64	71 36	73.42	41.85	•••••				
1897	64.99	78.01	69.39	78.24	74.18	$52 \ 30$	40.67					
1898	66 70	71 16	60.00	76.14	74.23	46.25	38.17					
1899	77.63	74.08	69.46	67.62	74.14	46.50	43.55					
1900	67.05	72.67	67 58	76-38	78 76	61.12	41.80					
1901	59.73	79.31	67.60	77.16	86.18	58.68	43.72	•••••				
1902	60.68	69.38	65.21	75.16	83.70	61.65	52.20	50.22				

The following table shews the percentage of days worked to the collective stay in the asylum in each year since 1882:

ASYLUM EXPENDITURE.

The following table shews the expenditure incurred for the maintenance of the asylums during the past year, as well as for the year which preceded it :

Asylums.	Expended, 1901.	Bxpended, 1902.	Increase.	Decrease.
Toronto London Kingston Hamilton Mimico	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	\$ c. 97,696 89 132,382 34 75,360 51 131,069 77 67,748 69	8 c. 16,373 34 1,282 18 15,738 74	\$ c. 2,358 86
Brockville Cobourg Orillia Totals	75,253 91 67,418 97	73,140 52 21,148 32 60,788 33 659,335 37	21,148 32	$\begin{array}{r} 2,113 & 39 \\ \hline 6,630 & 64 \\ \hline 18,882 & 98 \end{array}$
Increase, 1902			35,659 60	

	Number of beds.				r in resid eptembei		Number of vacancies.		
Asylums.	Male.	Female.	Total,	Male.	Fema'e.	Total.	Male,	Female.	Total.
Toronto	354	354	708	353	364	717	1		1
London	482	522	1,004	486	527	1,013			
Kingston	312	279	591	319	270	589	1	9	9
Hamilton	488	555	1,043	477	540	1,017	11	15	26
Mimico	300	300	600	297	299	593	3	1	4
Brockville	333	333	666	316	323	639	17	10	27
Cobourg		144	144	••••	141	141		3	3
Orillia	345	307	652	346	313	659			
Total	2,614	2,794	5,408	2,595	2,777	5,372	32	38	70

The following table shows the number of beds in each of the asylums, and how they were occupied at the close of the official year:

SOCIAL STATE.

The following information in respect to the nationalities, religious denominations and social state of the patients admitted, including transfers, as well as the aggregate admissions of all preceding years since 1841 is compiled from the records of the various institutions :

Social State.

	Admissions of year.	Total admissions.
Married	$\frac{487}{529}$	$12,475 \\ 13,618$
Unmarried	029	19,019

Nationalities.

Canadian	724	14,373
English	118	$3,322 \\ 4,596$
Irish	79	4,596
Scotch	50	1,973
United States	24	720
Other countries and unknown	21	1,201

Religious Denominations.

Church of England	207	5,816
Roman Catholic	197	6,532
Presbyterian	209	5,205
Methodist	259	- 5,767
Other denominations and unknown	144	3.771

,	8			5 1							
	Year ending 30th September, 1901.					Year ending 30th September, 1902.					
Asylums.	Daily average population.	Annual cost per patient.	Weekly cost per patient.	Annual cost per patient after deducting revenue.	Weekly cost per patient after deducting revenue.	Daily average population.	Annual cost per patient.	Weekly cost per patient.	Annual cost per patient after deducting revenue.	Weekly cost per patient after deducting reveoue.	
		\$ c.	\$ c.	8 c.	\$ c.		\$ c.	\$ c.	8 c.	\$ c.	
Toronto	717	139 54	2 68	82 65	1 59	717	136 25	2 62	79 04	1 52	
London	1,023	113 40	2 18	97 79	1 88	1,019	129 78	2 49	111 16	2 14	
Kingston	588	126 03	2 45	119 20	2 29	591	127 46	2 45	116 46	2 24	
Hamilton	1,027	112 29	2 16	99-28	1 91	1,027	127 62	2 46	112 74	2 13	
Mimico	591	$127 \ 73$	2 46	115 87	2 23	590	114 80	2 21	101 42	1 95	
Brockville	610	123-36	$2 \ 37$	114 07	2 19	635	115 18	2 22	103 29	1 98	
Cobourg						131	161 03	3 09	158 43	3 05	
Orillia	653	103 24	1 99	97 08	1 88	656	92 66	1 78	84 44	1 65	
Totals	5,209	120 80	2 33	103 91	2 00	5,366	125 59	2 42	108 37	2 08	

The next table shows the annual and weekly cost per patient of each of the asylums during 1899 and 1900, together with the average daily population :

REVENUE FROM PAYING PATIENTS.

.

		No. of patients.	Revenue.
Toronto As	ylum	295	\$41,023 81
London		173	18,002 40
Kingston	·······	86	6,527 89
Hamilton		185	14,277 42
Mimico		60	7,910 10
Brockville		89	7,546 34
Cobourg	••	7	392 96
Orillia			5,395-28
Tota	ls	959	\$101,076 20

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COMPARATIVE STATEMENT OF REVENUE.

The following statement shews the revenue received from the asylums for each year since 1871, together with the number of paying patients in the asylums from year to year :

			No. of - patients.		It ir alle.	Decrease.	
				S c.	\$ c.	\$ c.	
For the year endin	g September :	30, 1871	• 118	14,045 30			
6.6	4.6	1872	139	19,255 80	5,219 50		
6.6	6.6	1873	171	16,660-61	 ••••••	2,595 19	
6.6	6 .	1874	182	20,035 77	3,373 15		
63	6 .	1875	231	21,875 92	1,840 15	 	
£ 5	<u> </u>	1876	256	21,175 93		699-99	
6.6	* 6	1877	323	28,093 58	6,917 65		
*4	61	1878	334	30,103 75	2,010 17		
**	6.6	1879	343	32,398-26	2,794 51		
÷	6.6	1880	387	37,653-81	4,755 55		
6.6	4.6	1881	414	41,066 54	3,412 73		
6.6	6.6	1882	475 _	43,937 64	2,871 10		
6.6	6.6	1883	538	59,922 59	15,984 95		
6.6		1884	496	48,135-18	 	11,787 41	
64	6.6	1885	509	49,620 93	1,485 73	 ! • • • • • • • • • • • • • •	
6.	6.6	1886	516	53,030 05	4,309 12		
۰.	4.6	1887	514	48,742 53		5,187 52	
4.6	6 1	1888	538	59,638-16	 10,895-03		
6.6	6.6	1889	708	66,670 64	7,032 48		
6 s	6.6	1890	562	62,754 16		3,916 48	
6.	6.6	1891	577	48,507 42		4,246 74	
6.6	**	1892	632	73,240 61	14,733 19		
6.6	6.6	1893	661	73,415 54	174 93		
6.	4.6	1894	697	72,722 04		693 50	
6.6	6.6	1895	743	68,290 31		4,431 73	
6.6	**	1896	904	97,898-19	29,607 88		
6.6	4.6	1897	844	100,581 25	2,683 06		
6 4	6.6	1898	770	72,042 44	2,000 00	38,538 81	
4.6	6.4	1899	778	74,364 54	2,322 10	00,000 01	
6.6	6.6	1900	846	81,650 87	7,286 33		
6.6	6.6	1901	902	90,677 46	9,026 59		
	65	1902	959	101,076 20	10,398 74		

APPENDIX

TO THE THIRTY-FIFTH ANNUAL REPORT UPON THE ASYLUMS FOR THE INSANE AND IDIOTIC, CONTAINING THE ANNUAL REPORTS OF THE MEDICAL SUPERINTENDENTS OF THE ASYLUMS IN TORONTO, LONDON, KINGSTON, HAMILTON, MIMICO, BROCKVILLE, COBOURG, ORILLIA, TOGETHER WITH THE HOMEWOOD RETREAT, GUELPH. .

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ANNUAL REPORT OF THE MEDICAL SUPERINTENDENT OF THE ASYLUM FOR INSANE, TORONTO, ONTARIO, ENDING SEPTEMBER 30TH, 1902.

To Robert Christie, Esq., Inspector of Asylums, Ontario :

Sir,—I have the honor to herewith submit to you, as required by Statute, the sixty-second report of the operations of this Institution for the Insane for the official year ending the 30th day of September, 1902.

The tables asked for are herewith appended.

It will be seen that our recoveries were 47, and our admissions for the year were 154. This means that our recoveries were 30.5 per cent., based upon our admissions. This method is liable to error, as every year a number recover who have been longer in residence than a year, but it makes an average when adopted from year to year.

Quite a number of those discharged as improved, go on improving after they have left us, and fairly should be classed among our recoveries, because the convalescence commenced while such were under asylum treatment. A number are sent out on probation, and, although such, in a majority of cases, recover entirely, we are not notified of their condition, and cannot, therefore, say in what class to enter them in our books. We should receive credit because of our treatment before they leave. Were we to add those improved to those recovered, our percentage would be 40.2.

Our list of cured is not as large as in former years. This is accounted for largely because of the great number of chronics that were admitted. We are constantly importuned to admit old people, who are really not insane, but are demented because of that decay which is natural to all humanity in greatly advanced years. Of course, we often find insanity implanted upon senile decay. This latter condition does not exempt in all cases from mental disease. Home conditions are the best for this class, but unfortunately some relatives desire to shift the trouble of responsibility upon asylum authorities. It sometimes means faith in us, but often selfish motives rule.

The population under treatment for the official year was eight hundred and seventy-eight (878). Our deaths were forty-four (44). A large number of these were aged persons.

This means a mortality of 4.5 per cent. This is somewhat below the average, which is usually 7 per cent.

Inflammatory conditions are not very prevalent among our insane, and contagious diseases have had no existence for many years.

The various glandular diseases prevail to a large extent, as can be seen by examining our death tables.

During the year we have had no suicidal deaths to record.

Seeing so many have irresistible impulses to encompass their death by violence of one kind and another, it indicates faithful oversight by our attendants.

A repetition of our wants is herewith appended. This has been done annually, in the hopes that they may be granted, not only because of their need, but because of our persistency in urging action.

Wants.

Our airing ground is very much circumscribed for the men. The few acres of Government land south of us are badly needed for recreation purposes. At present we can have no games, such as baseball, cricket and curling, for want of room. We do not need to purchase the land, and an enclosure could be erected by our own labor. For many years this extension has been urged, but so far of no avail. Possibly the many and persistent petitions may in the end succeed. It would be a merciful provision, and would remove to a great extent the prison-like appearance, which is not creditable to a charitable institution.

The verandahs of cottages A and C need reconstructing, as they are in a rotten and dilapidated condition.

The verandah at the residence is rotten throughout and needs to be rebuilt.

The old greenhouse, built by ourselves of wood over twenty years ago, is tumbling down, and will no longer keep the frost out. All we need is the material, as our labor would erect it.

As was written last year, it would contribute very much to the efficacy of our Sunday services were two organs provided, viz., one for the Protestant service and one for the Catholic service. Second-hand instruments could be bought at a low price and in good condition. The one we have in use is not a pipe instrument, and is well worn, having done service for many years.

Four new ceilings of galvanized iron are needed for the wing wards. The old ones are falling down, and if detached parts of heavy plaster were to fall upon any patients serious injury would be the result, and we would be censured.

A thousand feet of hose for our own fire reel is needed. What we have is almost useless from old age. Heavy pressure of water bursts them, so they could not be trusted in case of fire.

Now that three of the other asylums of the Province are provided with, or about to be equipped, with hospitals for the proper treatment of the sick, it is possible that a plea for the erection of one in connection with this Institution may be successful. We utilize for this purpose four rooms erected by ourselves several years ago, but of necessity they are defective in many ways. Surely the parent institution of the Province should not b overlooked.

We have again to thank our many city friends for their consideration and kindness in furnishing us excellent entertainments. Many of these were of a very high order, and a number of performers were professionals. The military bands contributed their fair share, as did also the Salvation Army Band.

The evenings which were spent in these ways were very enjoyable, and did much to enliven time which, of necessity, would be spent in the wards, and which must be more or less monotonous.

List of Concerts Given During Season of 1901 and 1902.

Prof. A. H. French
Jamee Baylis and FriendsNov. 5, 1901.
Miss E. J. Sans (Trinity Mission Band)Dec. 3, 1901.
Cadet Band Dec. 4, 1901.
Staff Officers, Salvation Army BandDec. 10, 1901.
James Baylis and FriendsDec. 16, 1901.
James Baylis and FriendsJan 27, 1902.
Mr. Thos. Yellowlees and Friends
St. Margaret's Church Choir
Sons of Scotland, Robert De Bruce Camp
Geo. Parker and FriendsMar. 6, 1902.
James Baylis and FriendsNov. 10, 1902.

4

Staff Officers, Salvation Army Band	Nov.	26, 1902.
St. John's Presbyterian Choir		
Mrs. Langstone and Pupils	Apr.	3, 1902.
Broadway Avenue Congregation! Church Choir.	Apr.	15, 1902.
James Baylis and Friends	Apr.	21, 1902.
Queen's Own Band	May	6, 1902.
West End Y.M.C.A.		
Mr. R. E. Port. entertainment with phonograph	May	15, 1902.

Religious Services.

We are favored every Sunday with three services. The Episcopal Church at 9.30 a.m.; the other Protestant service at 3 p.m.

The Ministerial Association makes out a list of ministers who promise to officiate in the afternoon.

The Roman Catholic service is at 4 o'clock p.m.

All of these clergy come cheerfully, and have done so for over a quarter of a century without remuneration or fee. We feel grateful to them, and their labor of love is much appreciated by a large proportion of our inmates who attend.

Structures.

No permanent structures have been erected, except a bowling alley and gymnasium, which is being completed, and which will be a good exercise building, especially during the winter. It is ninety feet by thirty feet. The work was done by our own workmen and patients. We had excellent masons and carpenters, who were well enough to give us good help in the erection.

We were in hopes that the projected and sanctioned additon to our bakery could be erected. So far nothing has been done. Possibly the building may be erected before winter sets in. We are in need of the room.

There have been few changes among the Staff during the year. Dr. R. W. Bell was transferred to London Asylum on June the 20th. We found him to be a useful officer. His work was performed satisfactorily during his residence of several years.

Dr. J. C. Mitchell was appointed to fill the vacancy, and entered upon his duties on July 1st. He is proving himself a good Medical Officer. In a large organization like this, and where so many are living to-

In a large organization like this, and where so many are living together, as might be expected, every now and then petty friction arises. I am pleased to say that there has been little disagreement, and nearly all seemed anxious to do conscientions work, for which I am thankful.

I have the honor to be, sir,

Your obedient servant,

DANIEL CLARK. Medical Superintendent.

ANNUAL STATISTICAL REPORT

Of the operations of the Asylum for Insane, Toronto, for the year ending 30th September, 1902.

TABLE No. 1.

Shewing movements of patients in the Asylum for the official year ending September, 1902.

	1					
	Male.	Female.	Total.	Male.	Female.	Total.
Remaining, October 1st, 1901				36 2	362	724
Admitted during year :						
By Lieutenant-Governor's Warrant	11	17	28			
" Medical Certificate	53	73	126	64	90	154
The local sector of the instance				426	452	878
Total number under treatment during year	*****	••••		420	402	010
Discharges during year :	17	30	47 1			
As recovered	17					
" improved	12	11	23			
" unimproved	10	4	14			
Total number of discharges during year	39	45	84			
Died	33	11	44			
Eloped	1	0				
Transferred	0	32	32	73	88	161
Remaining in Asylum, 30th September, 1902.				353	364	717
Total No. admitted since opening of Asylum.	2,366	2,333	4,699			
" discharged	1,230	1,006	2,236			
" died	88	13	101			
" eloped	1	· 0	1			
" transferred	583	612	1,195			0.001
				4,267	3,964	8,231
" remaining, 30th September, 1902				353	364	717
Number of applications on fyle				5	14	19

TABLE No. 2

Shewing the maximum and minimum number of patients resident in the Asylum, the total number of days' stay of patients, and the daily average number of patients in the Asylum, from the 1st October, 1901, to 30th September, 1902.

-			Male.	Fem	ale.	Total.
Maximum No. of patients in residence (on the	18th Dec	. 1901)	364		367	731
Minimum " " " (on the 28	360		338	698		
Collective days' stay of all patients in residenc	e during	year	130,670	131	,035	261,705
Daily average population	••••	••••••	358		359	717
	Adn	aissions o	f Year.	Total	Admissions since Opening.	
	Male.	Female.	Total.	Male.	Female.	Total.
Social State. Married	32	60	92	2,104	2,654	4,758
Single	32	30	62	2,516	1,674	4,190
Not reported				 ••••		
Total	64	90	154	4,620	4,328	8,948
Religion. Presbyterians	19	12	31	1,031	945	1,976
Episcopalians	14	27	41	1,314	1,225	2,539
Methodists	13	32	45	878	890	1,768
Baptists	4	2	б	116	97	213
Congregationalists		3	3	41	64	105
Roman Catholics	8	8	16	881	817	1,698
Mennonites				2		2
Quakers				6	1	7
Infidels				1		1
Other denominations	4	3	7	256	236	492
Not reported	2	3	Б	94	53	147
Total	64	90	154	4,620	4,328	8,948
Nationalities.	12	18	30	807	721	1,528
rish	4	7	11	1,078	1,070	2,148
Scotch	5	4	9	504	43 6	940
Canadian	· 40	59	99	1,908	1,793	3,701
Jnited States	2	2	4	151	175	326
Other countries	1	• • • • • • • • •	1	137	111 .	248
Jnknown				35	22	57
Total	64	90	154	4,620	4,328	8,948

TABLE No. 3.

Shewing the Counties from which patients have been admitted up to 30th September, 1902.

	Admit	ted during	g year.	Total Admittance.		
Counties.	Male.	Female.	Total.	Male.	Female.	Total.
Algoma District Brant Bruce Carleton Dufferir Elgin Essex Frontenac Grey Haldimand Hastings Huron Kent Lamark Leeds and Grenville	4	1 1 1 2 2 	1 5 1 2 1 4 1 	$10 \\ 48 \\ 24 \\ 799 \\ 6 \\ 322 \\ 177 \\ 101 \\ 100 \\ 26 \\ 81 \\ 111 \\ 63 \\ 26 \\ 29 \\ 50 \\ 60 \\ 60 \\ 100 \\$	$ \begin{array}{c} 10\\ 59\\ 13\\ 62\\ 7\\ 24\\ 13\\ 70\\ 88\\ 25\\ 65\\ 87\\ 23\\ 24\\ 43\\ 50\\ \end{array} $	$\begin{array}{c} 20\\ 107\\ 37\\ 141\\ 13\\ 56\\ 20\\ 171\\ 198\\ 51\\ 146\\ 198\\ 51\\ 120\\ 49\\ 53\\ 93\\ 110\\ \end{array}$
Lennox and Addington Lincoln Middlesex. Muskoka District. Norfolk Northumberland and Durham. Ontario Oxford Peel Perth Peth Pethorough.			2 3 3 2 1	$\begin{array}{c} 25\\ 97\\ 82\\ 14\\ 18\\ 297\\ 180\\ 36\\ 126\\ 47\\ 94\\ 12\end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 41 \\ 180 \\ 159 \\ 27 \\ 38 \\ 587 \\ 349 \\ 76 \\ 249 \\ 90 \\ 183 \\ 30 \end{array}$
Prescott and Russell Prince Edward Renfrew Simcoe Stormont, Dundas and Glengarry Victoria. Waterloo Welland Wellington. Wentworth York Not classed.	$\begin{array}{c} 1\\ 1\\ 2\\ 1\\ 1\end{array}$	1 1 1 1 71	1 1 .1 2 3 	$13 \\ 26 \\ 4 \\ 134 \\ 61 \\ 93 \\ 50 \\ 50 \\ 144 \\ 227 \\ 1,754 \\ 175$	$\begin{array}{c} 17\\ 26\\ 10\\ 138\\ 60\\ 67\\ 53\\ 46\\ 144\\ 210\\ 1,810\\ 64\end{array}$	$\begin{array}{c c} 30\\ 52\\ 14\\ 272\\ 121\\ 160\\ 103\\ 96\\ 288\\ 437\\ 3,564\\ 239\end{array}$
Total admissions	64	. 90	154	4,620	4,328	8,948

TABLE No. 4.

Shewing the Counties from which warranted cases have been admitted up to 30th September, 1902.

	Admitt	ed duriv	g year.	Total admissions.		
Counties.	Male.	Female.	Total.	Male.	Female.	Total.
Elgin Essex Frontenac Grey Haldimand Halton Hastings Huron Kent Lambton Lamark Leeds and Grenville Leenox and Addington Lincola Middlesex Middlesex Muskoka District Norfolk Northumberland and Durham Ontario Oxford Peel Perth Peeterborough Prescott and Ruesell Prince Edward Renfrew Simcoe Stormont, Dundas and Glengarry Victoria Welland Wellington Wethworth York Not Classed Vot Classed			1	$\begin{array}{c} 5\\ 2\\ 5\\ 2\\ 5\\ 1\\ 2\\ 3\\ 1\\ 1\\ 2\\ 3\\ 6\\ 5\\ 3\\ 6\\ 6\\ 3\\ 9\\ 1\\ 1\\ 1\\ 1\\ 3\\ 1\\ 1\\ 1\\ 1\\ 3\\ 1\\ 1\\ 1\\ 3\\ 1\\ 1\\ 1\\ 3\\ 1\\ 1\\ 1\\ 3\\ 1\\ 1\\ 1\\ 3\\ 1\\ 1\\ 1\\ 3\\ 1\\ 1\\ 1\\ 3\\ 1\\ 1\\ 1\\ 3\\ 1\\ 1\\ 1\\ 3\\ 1\\ 1\\ 1\\ 3\\ 1\\ 1\\ 1\\ 3\\ 1\\ 1\\ 1\\ 3\\ 1\\ 1\\ 1\\ 3\\ 1\\ 1\\ 1\\ 3\\ 1\\ 1\\ 1\\ 3\\ 1\\ 1\\ 1\\ 3\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	$ \begin{array}{c} 1 \\ 3 \\ \cdots \\ 2 \\ 13 \\ 17 \\ 1 \\ 226 \\ 0 \\ 9 \\ 1 \\ 27 \\ 29 \\ 5 \\ 8 \\ \cdots \\ 9 \\ 1 \\ 1 \\ 27 \\ 29 \\ 5 \\ 8 \\ \cdots \\ 9 \\ 1 \\ 1 \\ 27 \\ 29 \\ 5 \\ 8 \\ \cdots \\ 9 \\ 33 \\ 1 \\ 1 \\ 4 \\ 24 \\ 4 \\ 3 \\ 9 \\ 331 \\ 1 \\ 4 \\ 3 \\ 9 \\ 331 \\ 1 \\ 4 \\ 24 \\ 4 \\ 3 \\ 9 \\ 331 \\ 1 \\ 4 \\ 24 \\ 4 \\ 3 \\ 9 \\ 331 \\ 1 \\ 4 \\ 24 \\ 4 \\ 3 \\ 9 \\ 331 \\ 1 \\ 4 \\ 24 \\ 4 \\ 3 \\ 9 \\ 331 \\ 1 \\ 4 \\ 24 \\ 4 \\ 3 \\ 9 \\ 331 \\ 1 \\ 4 \\ 24 \\ 4 \\ 3 \\ 9 \\ 331 \\ 1 \\ 4 \\ 24 \\ 4 \\ 3 \\ 9 \\ 331 \\ 1 \\ 4 \\ 24 \\ 4 \\ 3 \\ 9 \\ 331 \\ 1 \\ 4 \\ 24 \\ 4 \\ 3 \\ 9 \\ 331 \\ 1 \\ 4 \\ 24 \\ 4 \\ 3 \\ 9 \\ 331 \\ 1 \\ 4 \\ 24 \\ 4 \\ 3 \\ 9 \\ 331 \\ 1 \\ 4 \\ 24 \\ 4 \\ 3 \\ 9 \\ 331 \\ 1 \\ 4 \\ 24 \\ 4 \\ 3 \\ 9 \\ 331 \\ 1 \\ 4 \\ 24 \\ 4 \\ 3 \\ 3 \\ 9 \\ 3 \\ 3 \\ 1 \\ 4 \\ 24 \\ 4 \\ 3 \\ 3 \\ 9 \\ 3 \\ 3 \\ 1 \\ 4 \\ 2 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 4 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 4 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 4 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 4 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 4 \\ 3 \\ 3 \\ 4 \\ 3 \\ 3 \\ 3 \\ 4 \\ 3 \\ 4 \\ 3 \\ 4 \\ 3 \\ 3 \\ 4 \\ 3 \\ 3 \\ 4 \\ 3 \\ 4 \\ 3 \\ 4 \\ 3 \\ 4 \\ 3 \\ 4 \\ 3 \\ 3 \\ 4 \\ 3 \\ 3 \\ 3 \\ 4 \\ 3 \\ 4 \\ 3 \\ 4 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 4 \\ 3 \\ 3 \\ 4 \\ 3 \\ 3 \\ 4 \\ 3 \\ 3 \\ 4 \\ 3 \\ 4 \\ 4 \\ 3 \\ 4 \\ 4 \\ 3 \\ 3 \\ 4 \\ 3 \\ 3 \\ 4 \\ 4 \\ 4 \\ 3 \\ 3 \\ 3 \\ 3 \\ 4 \\ 3 \\ 4 \\ 3 \\ 4 \\ 3 \\ 3 \\ 4 \\ 4 \\ 3 \\ 4 \\ 3 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4$	$\begin{array}{c} 6\\ 5\\ 5\\ 5\\ 3\\ 1\\ 3\\ 3\\ 75\\ 6\\ 6\\ 79\\ 3\\ 8\\ 5\\ 16\\ 1\\ 1\\ 22\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\$
Total admissions	11	17	28	1,237	632	1,869

TABLE No. 5.

Shewing the length of Residence in the Asylum of those discharged during the year.

No.	Initials,	Sex.	When admitted.	w	hen di	scharged.	Remarks.
1.0.		NGA.	When admitted.		uon u	schargen.	Lecinat Ko,
		-					_
1	L.S	F	Nov. 21, 1898				Recovered.
2	W.H	M	Aug 19, 1901	11 E	5, 11		6.6
3	A.K	F	May 22, "	** 7	ri ««		6.5
4	C.N	F	July 17, "	" 14	1 K.		66
5	C. L	F	May 9, "	" 17			Improved.
6	M.C						
7	T NE T	F	0 41 9 10,	43	L		Recovered.
	J.M.L	M .	Oct. 27. 1898	Nov. 1			Improved.
8	P.F	M	Dec. 22, **	" 1			Recovered.
9	A.S	М	Aug. 13, 1896	" 14	64		6.6
10	W.J.M	M	Sept. 9, 1901	" 28	64		Unimproved.
11	J R	М.,	Aug. 18, 1899	Dec. 8			Recovered.
$\overline{12}$	R.S	Μ	Sept. 28, 1901	" 18			Unimproved.
13	H.T		Ture 10 (1				
		F	June 18, ''	10 10	· •		Recovered.
14	J.R.P	M .	Dec. 14, 1900	41	l,	· · · · · · · · · · · · · · · · · · ·	Unimproved.
15	A T.B	M	June 19, 1901				Recovered.
16	J.F	M	Aug. 26, 1899	** 2	1 8.6 9		Improved
17	M.O'D	F	Aug. 16, 1901	· · · 11	66		Recovered.
18	A.B	M	Aug. 22, 1901	. 23			Unimproved.
19	P.O	M	Nov 7 1901	. 27			Recovered.
20	M.B		Nov. 7, 1901				
		F	Dec 26, 1898		·•		Improved.
21	M.S	F	Nov. 30, 1901	Feb. 11	3		Recovered.
22	M.C.T	F	Aug. 11, 1897	<i>≝</i> 0	· ·		••
23	F.W.N	M	June 1, 1901	Mar. 1			46
24	Т.Н	M	Oct. 7. "	" 8	66		6.6
25	A.H.L	F	Dec. 18, "	** 8			6.6
26	L.F	F	Aug. 6, "	" 14			86
27	A.W.W		Jan. 28, 1902				Improved.
28	TED	M		10	3	• • • • • • • • • • • • • • • •	
	J.F.D	M	Dec. 14, 1901	10	·,		Unimproved.
29	M.A.B	F., .	NOV. 0,	40	'n		Improved.
30	E.H.S	F	July 20, "	** 29	j er		Recovered.
31	C.F.W	M	₩eb. 26, ''	· · 29	j		Unimproved.
32	A.F.H	Μ	July 8, 1900	·* 30	j 44		Recovered.
33	C.R	F	Oct. 16, 1901	April			Unimproved.
34	H.B.E	M	Man 15 1009		3, "		Improved.
35	T.D.L.		Mar. 15, 1902		ο,		
	F.F	M	May 30, 1901		±,		Improved.
36	C.S.L	М	Feb. 10, 1902	, ·	ł,		Recovered.
37	A.M.H	F	Feb. 4, "	66 7	7, **		Improved.
38	J.C	М	Mar. 2, **	i " 10			**
39	E.R.W	F	Jan. 11, "	" 1.			Recovered.
40	A.M	Μ	April 9, "	· · 10			Improved.
41	R.G.McB.	M	April 11, "	" 1			Unimproved.
42			APPENDAR AND INCOMPANY	6 1	7 4		
	M.F.	Μ.	Oct. 28, 1900	1 1	6 9		Recovered.
43	J.F.G	M	Jan. 24, 1901	1 70	в,		64
44	A McL	F	Mar. 22, 1902	1 1	J		
45	СН	F	Feb. 3, "	" <u>1</u> 9			
46	C.C	F	Mar. 3, 1888	May.	2		Improved.
47	P.U	M	Sept. 21, 1901		9, 11		Recovered.
48	W.H.B	M	Mar. 18, 1902	" 1	ñ		Improved.
49	M E.H						Recovered.
50	TS	F	Sept. 23, 1901.	[T.	1,		
	J.S	M	Jan. 13, 1900	1 21	U.,	•• ••••	Improved.
51	E J.F	<u>F</u>	Feb. 2, 1902		0,		Recovered.
52	M.A.D	F	Nov. 3, 1901	** 30			
53	E.C	F	April 7, 1902		1, ''		¢.
54	A.H	F	April 1. "	Jnne 3	3. "		* 6
55	S.G	F	Feb. 20, "	51	5. "		66
56		F	Sopt 21 1000				Unimproved.
27		31	Sept. 21, 1900		0 g	****	
	R.T.R	M	June 2, 1902				Recovered.
58	M.A.H	M	May 8, "		6		Improved.
59	I.S	F	June 9, "	July	1, "		Recovered.
60	J.D	F	Feb. 26, ''		7, 11		C 6
61	K.L	Μ.,	Sept. 8, 1901	66 8	8, 14		Improved.
62	K.L J.A.F	F	April 8, 1900		9		* 44
63	J.B	M	Jan. 28, 1902	. 1			Recovered.
64	H.M	F			1,		14
	A.A. + 34 + + + + + + + + + + + + + + + + +		July 12, "	0	<i>y</i> ,		6.6
65							
65	A.E.H	F	July 5, "	Aug. 1	21		

TABLE No. 5.—Concluded.

Shewing the length of Residence in the Asylum of those discharged during the year.

No.	Initials.	Sex.	When admitted.	When discharged.	Remarks.
66 67 68 69 70 71 72 73 74 75 76 77 77 78 79 80 81 82 83 84	L.C F.McA J.K G.McK A.B L.H M.D A.I.H S.S R.C E.M A.F E.M M.W J.T.H S.R E.J.R H.L E.J.T	M F F F M	July 2, 1901. April 15, 1902. July 28, " Sept. 28, " Sept. 18, 1898. June 24, " April 26, " April 26, " April 17, 1902. Feb. 5, 1900. Jan. 17, 1902. July 12, "	Aug. 14, " " 16, " " 19, " " 29, " " 30, " Sept. 3, " " 6, " " 8, " " 13, " " 13, " " 13, " " 25, " " 25, " " 26, " " 27, " " 26, " " 27, " " 29, " " 20, "	Improved. Recovered. Unimproved. Recovered. Unimproved. Recovered. " Improved Recovered. " Unimproved. Improved. Improved. Improved. Recovered. " Unimproved. Recovered. "

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TABLE No. 6.

Shewing age, length of residence, and proximate cause of death of those who died during the year ending 30th September, 1902.

No.	Initials.	Sex.	Age.	Date of death.		Months	1	Approximate cause of death.
$\begin{array}{c}1\\1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\1\\2\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\1\\2\\2\\3\\2\\4\\5\\3\\3\\3\\4\\4\\4\\4\\4\\4\\4\\4\\4\\4\\4\\4\\4\\4\\4$	W.H B.O A S J.F. J.C.J N.G J.R.B H.N E.H R.G.O T.S J. McK. D.McM P. H J.P. E.A.O J.V M.J.D K.G.K J.V M.J.D K.G.K J.V K.G.K J.V K.G.K J.V K.G.K J.V K.G.K J.V K.G.K J.V K.G.K J.V K.G.K J.V K.G.K J.K K.K K.K K.K K.K J.K K.K K.K K.K J.K K.K K	M F M M M M F M	$\begin{array}{c} 24\\ 79\\ 49\\ 59\\ 68\\ 66\\ 62\\ 65\\ 62\\ 65\\ 44\\ 38\\ 9\\ 46\\ 4\\ 55\\ 52\\ 57\\ 70\\ 7\\ 60\\ 43\\ 8\\ 8\\ 9\\ 30\\ 20\\ 32\\ 65\\ 44\\ 48\\ 60\\ 56\\ 8\\ 29\\ 30\\ 26\\ 64\\ 48\\ 60\\ 65\\ 8\\ 29\\ 30\\ 26\\ 64\\ 48\\ 60\\ 65\\ 8\\ 29\\ 30\\ 26\\ 64\\ 48\\ 60\\ 65\\ 8\\ 29\\ 30\\ 26\\ 64\\ 48\\ 60\\ 65\\ 8\\ 29\\ 30\\ 26\\ 64\\ 48\\ 60\\ 65\\ 8\\ 29\\ 30\\ 26\\ 64\\ 48\\ 60\\ 65\\ 8\\ 29\\ 30\\ 26\\ 64\\ 48\\ 60\\ 65\\ 8\\ 29\\ 30\\ 26\\ 64\\ 48\\ 60\\ 65\\ 8\\ 29\\ 30\\ 20\\ 20\\ 20\\ 20\\ 20\\ 20\\ 20\\ 20\\ 20\\ 2$		3 40 5 37 2 3 1	$\begin{array}{c} & & & & & \\$	$\begin{array}{c} 5\\ & \\ 20\\ 19\\ 28\\ 23\\ 15\\ 2\\ 3\\ 11\\ 20\\ 15\\ 3\\ 23\\ 11\\ 20\\ 15\\ 3\\ 23\\ 11\\ 14\\ 14\\ 19\\ 15\\ 5\\ 6\\ 2\\ 28\\ 10\\ 27\\ 17\\ 8\\ 6\\ 25\\ 2\\ 5\\ 15\\ 21\\ 10\\ 19\\ 29\\ 2\\ 3\\ 8\\ 7\\ 4\\ 20\\ \end{array}$	Acute Mania. Heart Disease. Heart Disease. Senile Decay. Heart Disease. Senile Decay. Heart Disease. Chronic Diarrhoea. Phthisis. Exhaustion of Mania. Heart Disease. Senile Decay. Phthisis. Phthisis. Exhaustion Melancholia. Exhaustion Melancholia. Exhaustion Melancholia. Exhaustion of Mania. Epilepsy. General Paresis. Epilepsy. Epilepsy. Epilepsy. Epilepsy. Marasmus. General Paresis. Chronic Diarrhoea. Septicæmia. Exhaustion of Mania. Cirrhosis of Liver. General Paresis. Cirrhosis of Liver. General Paresis. Senile Decay. Cancer of Uterus. General Paresis. Senile Deceay. Cancer of Uterus. General Paresis. Senile Dementia. General Paresis. Cardiac Exhanstion. Abcess of Bowel. Ulcerative Gastritis. Exhaustion of Mania. General Paresis.

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TABLE No. 7.

Shewing trades, callings and occupations of patients admitted into the Asylum.

	Dur	ing the y	ear.	During	years.		
Trades, callings and occupations.	Males.	Females	Total.	Males.	Females	Total.	Total.
Agents			2	19 2		19 2	21 2
Actuaries Actors Artists	···· 1	· · · · · · · · · ·	1	1 4	$\frac{1}{4}$	2 8	2 9
Book-keepers Bakers Bricklayers. Butchers Blacksmiths Brass-finishers Brewers Builders Barbers. Broom-makers			· · · · · · · · · · · · · · · · · · ·	$42 \\ 32 \\ 14 \\ 29 \\ 55 \\ 2 \\ 11 \\ 8 \\ 2$	1	$ \begin{array}{r} 43 \\ 32 \\ 14 \\ 29 \\ 55 \\ 2 \\ 11 \\ 8 \\ 2 \end{array} $	$ \begin{array}{r} 44 \\ 32 \\ 14 \\ 29 \\ 55 \\ 2 \\ 11 \\ 8 \\ 2 \end{array} $
Barristers. Bookbinders Brickmakers Bridge tenders Brakesmen		•••••	2	8 1 7 1 2	3	8 4 7 1 2	$10 \\ 4 \\ 7 \\ 1 \\ 2$
Commercial travellers	1	• • • • • • • •		$\begin{array}{c} 27\\ 10 \end{array}$	••••	$\frac{27}{10}$	$\frac{28}{10}$
Confectioners Coopers Carpenters Clerks Clerkymen Carriage-makers Cooks	34	2		$2 \\ 19 \\ 162 \\ 203 \\ 38 \\ 5 \\ 2$	9 10	$2 \\ 19 \\ 162 \\ 212 \\ 38 \\ 5 \\ 12$	2 19 165 218 38 5 12
Carders Captains of steamboats Cigarmakers Custom bouse Officers Coppersmiths Coachmen Civil Servants Clock Cleaners Carters	3	2	Б	$ \begin{array}{c} 2 \\ 9 \\ 3 \\ 1 \\ 3 \\ 12 \\ 1 \\ 1 \\ 1 \end{array} $		$2 \\ 9 \\ 3 \\ 1 \\ 3 \\ 12 \\ 1 \\ 1 \\ 1$	$2 \\ 9 \\ 3 \\ 1 \\ 3 \\ 17 \\ 1 \\ 1$
Dyers Domestic servants, all kinds Dressmakers		14		1 5	1,091 34	$\begin{array}{c}1\\1,096\\-34\end{array}$	$\begin{smallmatrix}&1\\1,110\\&34\end{smallmatrix}$
Detectives Druggists Dentists Doctors	1	• • • • • • • • • • • • • • • • • • •	1	2 21	• • • • • • • • •	2 21	3 21
Engineers Editors . Engravers	1		1	27 - 3 - 3		27 3 3	28 3 3
Farmers Fishermen Founders Ferrymen	10 		10	$\substack{1,162\\1\\2}$	33	$1,195 \\ 1 \\ 2$	$\substack{1,205\\1\\2}$
Furriers Firemen Farmers daughters		• • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	1 1	26	$\begin{array}{c} 1\\ 1\\ 26\end{array}$	$\begin{array}{c}1\\1\\26\end{array}$
Gardeners Grocers Glass-blowers				17 12	1	17 13	17 13

TABLE No. 7.—Continued.

Shewing trades, callings and occupations of patients admitted into the Asylum.

	Dui	ring the y	ear.	Durin			
Trades, callings and occupations.	Males.	Females	Total.	Males.	Females	Total.	Total.
Gentlemen Glove-makers Grooms Gun-smiths				42 1 2	1	$\begin{array}{c} 42\\1\\1\\2\end{array}$	42 1 1 2
Hucksters Hatters Hostlers Hunters Harness-makers Housekeepers Hack-grivers			55		1,562	$1\\1\\2\\1\\14\\1,562\\3$	$ \begin{array}{c} 1 \\ 1 \\ 2 \\ 1 \\ 14 \\ 1,617 \\ 3 \end{array} $
Inn-keepers Ironmongers		• • • • • • • • • • • • • • • • • • •	• • •	11 1	•••••	11 1	11 1
Jewellers Janitors	···· 2 :	•••••	2	$\frac{14}{2}$	1	15 2	15 4
Labourere Laundresses Ladies Lawyers Lumbermen	10 1		10 1	994 26 4	6 129	994 6 129 26 4	1,004 6 129 26 5
Milliners Masons Machinists Matchmakers	2	· · · · · · · · · · ·	2	44 28	30	30 44 28	30 44 30
Millere. Moulders Merchante Mechanics Music-teachers Marble-cuttere	3 1		3 1	33 2 127 31 9 1	2 15	$33 \\ 2 \\ 129 \\ 31 \\ 24 \\ 1$	33 2 132 32 24 1
No occupation Night-watchmen Nurses Not stated	3 1	7 7	10 	165 1 205	432 15 334	$597 \\ 1 \\ 15 \\ 539$	607 1 15 547
Organ-builders Other occupations	1	2	3	1 170	40	$\begin{smallmatrix}&1\\210\end{smallmatrix}$	$\begin{smallmatrix}&1\\213\end{smallmatrix}$
Professors of Music Plasterers Pensioners Photographers Prostitutes. Printers Printers Peddlers Physicians Pump-makers				2 3 1 6 51 41 25 38 3 3	2	$ \begin{array}{c} 2 \\ 3 \\ 1 \\ 6 \\ 2 \\ 51 \\ 41 \\ 25 \\ 39 \\ 3 \end{array} $	2 4 1 7 53 42 25 39 3 3
Railway Foremen Railway Conductors				4 3		4 3	$\frac{4}{3}$
Spinsters Sailors Students	1		1	34 49	219 18	219 34 67	$\begin{array}{c} 219 \\ 34 \\ 68 \end{array}$
Spinners					3	3	3

.

TABLE No. 7.-Concluded.

Shewing trades, callings and occupations of patients in the Asylum.

	Du	ing the	year.	Durin			
Trades, callings and occupations.	Males.	Females	Total.	Males.	Females	Total.	Total.
Stone-cutters				4		4	4
Saddlers Shoemakers Seamstressee	2		2	2 88	100	2 88 100	2 90 100
Soap-makers Slaters Station-masters			• • • • • • • • • •	1	• • • • • • • • •	· ·····	1
Soldiers . Salesmen Surveyors	2	· · · · · · · · · · · · · · · · · · ·	2	10 7 2	4	$\begin{array}{c}10\\11\\2\end{array}$	10 13 2
Sail and tent makers				1 5 1 4	2	1 7 1	1 7 1 5
Teachers Tinsmiths				63 23	86	149 23	149 23
Tavern-keepers Tailors Tanners	1	1	2	6 87	5	6 92	6 94
Teamsters	• • • • • • • • •	· · · · · · · · · ·		10		10	10
Watchmakers . Wood-workers . Weavers . Wheelwrights	•••••		• • • • • • • • • •	$\begin{smallmatrix}&4\\&2\\12\\&12\\&1\end{smallmatrix}$	5	$\begin{array}{c} 4\\ 2\\ 17\\ 1\end{array}$	4 2 17 1
Waggon-makers Unknown or other employments				29			41
Total	64	90	154	4.556	4,238	8,794	8,948

TABLE No. 8.

Shewing causes of Insanity.

CAUSES OF INSANITY.	Number of instances in which each cause was assigned.							
In respect of the admissions for the year ending 30th September, 1902.	As pre	disposing	cause.	As e	exciting ca	ause.		
Moral. Domestic troubles, including loss of relatives or friends. Religious excitement. Adverse circumstances, including business troubles Love affairs, including seduction. Mental anxiety, "worry". Fright and nervous shocks.	$\frac{1}{3}$	Female. 1 1 5	Total. 1 4 7	Male.		Total. 2 5 12 1		
Physical.								
Intemperance in drink Intemperance, sexual. Veneral disease Self-abuse, sexual. Over-work. Sunstroke Accident or injury. Pregnancy. Puerperal Lactation Puberty and change of life. Uterine disorders Brain disease, with general paralysis Brain disease, with epilepsy. Other forms of brain disease Other bodily diseases or disorders, including old age Fevers Hereditary. With other ascertained cause in combination With other combined cause not ascertained	1	1 1 2 4 7 7 4 4 4 4	$ \begin{array}{c} 6 \\ 1 \\ 2 \\ 4 \\ 7 \\ 6 \\ 9 \\ 8 \\ 1 \\ 21 \\ \end{array} $	6 1 4 1 	1 2 3 4 6 4	6 2 6 1 2 3 4 6 9 8 2		
Congenital.								
With other ascertained cause in combination With other combined cause not ascertained	-	2	2					
Unknown	23	43	66	27	50	77		
Total	64	90	154	64	90	154		

TABLE No. 9.

Shewing the Probational Discharges and the result thereof.

Reg. No.	Sex.	Initials.	Date of Probational Discharge.	Term of Probation.	Result. '
\$014 \$530 \$759 \$7554 \$709 \$781 \$196 \$813 \$6264 \$797 \$623 \$847 \$6264 \$797 \$623 \$847 \$6264 \$797 \$623 \$847 \$6264 \$533 \$8595 \$8595 \$8500 \$8595	M F F M F F M F M F M F M F M F M F F F M F	J. R. M. O H. T A. T. B. C. B. A. B. M. C. T. M. S. A. F. H. F. W. N. C. C T. H. J. A. F. C. S. L. M. F. E. R. W E. J. F. J. S. P. D. J. B. S. D. F. McF. L. H. S. S. A. S. B. E. M. S. R. B. F. M. W. E. P. W. M. T. G. W. K. E. J. S.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Discharged recovered. (* * * * * * * * * * * * * * * * * * *

SUMMARY OF PROBATIONAL DISCHARGES.

	Males.	Females	Total.	Males.	Females	Total.
Number to whom probational leave was granted Discharged, recovered			19 5 2	17	19	36
Died before expiration of leave Returned to Asylum. Absent on probation on 30th September, 1902		0 1 6	0 3 7	17	19	36

TABLE No. 10.

Shewing in quinquennial period the ages of those admitted, recovered and died during the year.

				A	dmitte	ed.	R	ecovere	ed.		Died.	
Ages.			Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	
From	10 to 15	years	š									
66	15 to 20	61		1	4	5	1	1	2			
6.6	20 to 25	66	•••••	8	8	16	4	1	5	1		1
6.6	25 to 30	66	••••	9	10	19	4	4	8	2		2
66	30 to 35	66	•••••	6	14	20		5	5	2		2
*6	35 to 40	6.6		6	10	16	1	-4	5	3		3
6.6	40 to 45	66		-4	7	11	1	3	4	4		4
" "	45 to 5 0	6.6	••••	-4	10	14	1	1	2	5	2	7
6.6	50 to 55	6.6		3	9	12		3	3	1		1
**	55 to 60	66	•••••	11	6	17	4	-4	8	4	1	5
66	60 to 65	6.6		6	7	13		3	3	4	2	6
66	65 to 70	64	• • • • • • • • • • • • • • • • • • • •	2	4	6	1		.1	3	3	6
66	70 to 75	6.6		2		2		 ••••••		1		1
6.6	75 to 80	6.6		1	1	2		1	1	1	1	2
66	80 to 85	46						• • • • •		1	2	3
6.6	85 to 90	66		1		1				1		1
66	90 to 95	66										• • • • • •
Unkn	10 wn				• • • • • •		· · · · · · ·	• • • • •		• • • • •		• • • • • •
	Totals.		•••••	64	90	154	17	30	47	33	11	44

TABLE No. 11.

				_	
Periods.	Duration of insanity prior to admission.	Length of residence of those remaining in Asylum on 30th Sep- tember.	Periods of treatment of those who were dis- charged cured during the year.	Periods of treatment of those who were dis- charged improved dur- ing the year.	Periods of breatment of those who were dis- charged unimproved during the year.
Under 1 month	32	17	4	3	2
From 1 to 2 months	22	6	5	4	1
" 2 to 3 "	12	12	7	2	2
" 3 to 4 "	18	15	5		1
" 4 to 5 "	7	5	3	2	1
" 5 to 6 "	1	3	4	1	4
" 6 to 7 "	7	9	4		••• •
" 7 to 8 "	1	16	3		
" 8 to 9 "	1	4	1		
⁶⁴ 9 to 10 ¹¹	3	6	2		1
" 10 to 11 "		3		2	
" 11 to 12 "		6			
" 12 to 18 "	8	27	2	1	1
" 18 months to 2 years	2	13	1	1	1
" 2 to 3 years	10	52	3	4	
" 3 to 4 "	7	35	1	2	
" 4 to 5 "	5	46			
" 5 to 6 "	ĩ	43	1		
" 6 to 7 "	2	26			
" 7 to 8 "	1	38			* • • • • •
" 8 to 9 "		27			
" 9 to 10 "		40			
" 10 to 15 "	2	118	1	1	
" 15 to 20 "	1	49			
" 20 years and upwards	5	101			
Totals	154	717	47	23	14

TABLE No. 12.

Shewing the nature of employment and the number of days work performed by patients during the year.

·	Number of	Days worked.				
Nature of employment.	patients who worked.	Male.	Female.	Total.		
Carpenter's shop	3	936		936		
Tailor's shop	4	868		868		
Shoe shop	3	864		864		
Engineer's shop	6	2,160		2,160		
Mason work.	1	312		312		
Wood yard and coal shed	8	2,880		2,880		
Bakery	3	1,080		1,080		
Laundry	40	2,016	10,224	12,240		
Dairy	6	2,160		2,160		
Butcher's shop	1	312		312		
Painting	3	936		936		
Garden	8	2,496		2,496		
Grounds	10	3,120		3,120		
Stable	6	2,160		2,160		
Kitchen	9	3,245		3,245		
Dining rooms	73	8,820	15,760	24,580		
Officers' quarters	5	0,000	1,800	1,800		
Sewing rooms	4		1,248	1,248		
Knittirg	32		9,216	9,216		
Mending	38		10,944	10,944		
Wards	125	14,400	20,600	35,000		
Store	120	312	20,000	312		
General	74	11,520	15,120	26,640		
Tin shop	1	312	10,120	312		
	1	312		312		
Upholstering	44	512	12,692	12,692		
Sewing in wards	44		19,054			
Total	509	61,221	97,604	158,825		

TABLE No. 13.

Shewing the Counties and Districts from which the patients remaining in residence on the 30th September, 1902, were originally received.

Counties and Districts.	Males.	Females.	Total.
Algoma District Brant Bruce Carleton Dufferin Dundas Durbam Elgin Essex Frontenac Glengarry Grenville	$ \begin{array}{c} 2 \\ 1 \\ 1 \\ 8 \\ 1 \\ $	2 3 3 2 10 1 2	4 4 4 10 1 1 1 2 1 1
Grey Ha)dimaud Halton Hastings Huron Kent. Lambton. Lamark Leeds Leenox and Addington Lincoln Middlesex. Muskoka District. Nipissing District	8 4 7 1 1 1 1 1 3 1 1 2 3 1	5 1 6 1 1 1 1 5 2 1	13 9 8 7 1 2 2 4 1 6 2 5 2
Norfolk Northumberland Ontario Oxford Parry Sound District Peel Perth Peterborough Prescott Prince Edward Rainy River District Benfrew	14 8 2 1 7 1 1 11	8 13 2 9 1 3 	22 21 4 1 16 2 14
Russell. Simcoe. Stormont Thunder Bay District Victoria Waterloo Welland Wellington Wellington Wentworth. York Not classed, unknown, etc	7 1 2 9 3 3 3 3 4 217 4	8 1 6 3 2 8 5 243	15 1 3 15 6 5 11 9 46 0 4
Total	353	364	717

		Asylum transferred to.	Hamilton. Cobourg.
		Occupation.	Housewife None Mullihaer Servant Servant Glaukewife Clark Music Teacher None Not stated None Bookbinder Housewife None None Servant Housewife None Servant Housewife None Servant Housewife None Servant Housewife None Servant
	Admitted by.	Certificate.	
	Adm	Warrant.	
	Duration of insanity prior to	Months.	33 00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Durations	Х сыгз.	3 3 1 1 1 5 5 5 5 5 5 2 5 2 5 2 5 2 5 2 5 5 5 5
ums.	Social state.	Unmarried.	
sylu		Married or Widowed.	
er A		Other Denominations.	
Patients transferred to other Asylums.	ation	Methodist.	
	Religious Denomination.	Presbyterian.	
rrec		Roman Catholic.	
ansfe		Church of	
s tra		Uther countries or unknown.	
ient	•	United States.	
Pat	Nationality.	Scotch.	
	ation	Irish.	
	Z	English.	
		.asibeaeO	
	County originally admitted from.		Lincoln York . Simcoe Durhameriand Northumberiand Ontario Peterborough Peterborough Grey Victoria Durham Vork . Vork . Peterborough Peterborough Peterborough Vork . Durham Vork . Nork . Durham Vork . Durham Vork . Durham Vork . Durham Vork . Durham Vork . Durham Vork . Durham
	, , ,	Female.	
	Sex,	.əleM	
		.9gA	7288588688888888888888888888888888888888
	-enant ancersons trans- ferred.		HAORAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

THE REPORT OF THE INSPECTOR OF

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TABLE No. 14.

No. 38

Shewing work done in women's wards.

Articles.	Made.	Repaired.
Aprons	466 40 12	1,586
Blouxes Blinds Blankets	61	65 86 128
Curtains Cushions, sofa " (embroidered)	115 38 4	62 27
Cushion covers (drawn work) Chemuses		1,1 43 98
Clothes bags	67 40	196
Dresses.	$\begin{array}{r}165\\25\\246\end{array}$	1,530 1,132
Drapes, mantle	8 38 30	
(lace)	9 6	480
Handkerchiefs (lace) (fancy) Hats, trimmed	15 45	
Mats, table	$50 \\ 22 \\ 251$	856
Piñowcases Petiicoats Pillow shams	1,017 108 4	321 904
Quilts	124 3 3	227
Rugs, " Sideboard covers	8 20	5
Stockings, '' footed	$214 \\ 18 \\ 230$	3,463 196
Shawla, wool	10 496 416	384 208
Skirts of dresses Fray covers (drawn work)	42 4 296	79
Fowels, diaper dish roller	$\begin{array}{c} 102\\98\end{array}$	65 71
Table cloths	96 8 2 6	76 11
Tea coseys, knitted Ticks, mattress	$\frac{2}{4}$	6 15
Waists	15 10	28 16
Lace yards	. 56	
	5,675	13,464

TABLE No. 17.

Showing work done in Sewing Room.

Articles.	Cut.	Made.	Repaired.	Articles.	Cut.	Made.	Repaired.
Aprons . Blinds . Blouse waists . Bibs . Counterpanes . Clothes bags . Collars . Caps . Caps . Carpets . Chemises . Curtains . Cushion covers . Crumb cloth . Corset covers . Dress skirts . Dresses . Drawers . Davers . Davers . Davers . Jackets . Guernseys . Handkerchiefs . Lambrequins . Mantel Drapes	63 3324 385 152 7 60 337 338 12 190 16 	$\begin{array}{c} 27\\ 22\\ 13\\ \end{array}$	109 20 2 4 2 5 27 4 4 9	Mattress ticks Night-gowns Pillow-ticks Pillow-ticks Pillow-ticks Pudding cloths Quilts. Shirts Skirts Screens Screens Screens Screens Screens Stockings (pairs). Stockings (pairs). Stockings (pairs). Stockings (pairs). Tablecloths. Tablecloths. Table covers Table covers	$\begin{array}{c} 179\\ 2\\ 11\\ 34\\ 134\\ 905\\ 403\\ 117\\ 15\\ 4\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$\begin{array}{c} 7\\12\\4\\\\1\\2\end{array}$	$ \begin{array}{c} 28\\8\\115\\\\ \\ \\ \\ 20\\360\\16\\44\\\\ \\ 6\\\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$

TABLE No. 18.

Laundry list for year ending September 30th, 1902.

Aprons	22,199	Pillow-cases	45,160
Blankets	7,712	Pillow-shame	865
Bed-ticks	132	Pants	1,701
Blinds.	966	Quilts	9,133
Ribe (linen)	218	Spreads	2,107
Bibs (linen).	- III - U		44,951
Bags (laundry)	6,059		
Blouses.	2,381	Shirts (cotton)	17,889
Chemises (cotton)	9,288	Shirts (flannel)	10,014
do (flannel)	1,597	Socks	14,189
Cushion covers	271	Stockings	10,011
Collars .	10.203	Skirts (flannel)	4,963
Cuffs	2,340	do (cotton)	1,989
Caps	43	do (colored)	5,279
Coats	881	Shawls .	39
Curtaina	1,820	Tablecloths	10.325
Curtains	1,820		10,691
Combination suits		Table napkins	1,145
Dresses.	8,247	Tray cloths	
Dress skirts	880	Toilet covers	2,993
Drawers (cotton).	9,805	Tie	259
do (flannel)	9,496	Towels (dish)	6,548
Dusters	1.147	do (diaper)	16,506
Fancy pieces	2 622	do (roller)	9,447
Guernseys	7,586	Vests	650
Hanåkerchiefs	16.887	Waists	2,420
	11	VV 0110 US	
Lambrequins		Total	364,546
Nightgowns	9,980	1.0481	003,030
Nightshirts	1,128	1	

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TABLE No. 19.

Work done in the Tailor Shop.

Articles.	Made.	Repaired.	Articles.	Made.	Repaired.
Tweed coats " vests	187 2 4 3 5	98 87 200 12 6 19	White duck pants Firemeu's coats " pants Attendants' uniform coats " " pants " " pants " " re-made Buffalo robes	15 27 28 12	6 25 68 7

TABLE No. 20.

Work done in the Shoe Shop.

Articles.	Pairs.	Rate.	Value.
Men's long hoots "shoes Women's shoes" slippers	40 189 46 117	\$ 3 2 2 1	\$ c. 120 00 378 00 92 00 117 00
771 pairs repaired at 50c			707 00 385 50 1,092 50

HARNESS.

19	pieces repaired	\$ 2 95	
	TINWABE.		
54 685	new pieces pieces repaired	$\frac{39}{78} \frac{00}{35}$	
	UPHOLSTERING.		
$120 \\ 19 \\ 19 \\ 7 \\ 2$	mattresses re-made pillows " sofas re-uphostered chairs " carpets made and laid	$\begin{array}{r} 240 \ 00 \\ 4 \ 75 \\ 76 \ 00 \\ 14 \ 00 \\ 4 \ 00 \end{array}$	
		\$459 05	

TABLE No. 21.

Garden Produce for the year.

		1	1
		S c.	\$ c.
Asparagus	375 bunches a	t 2	7 50
Artichokes	16 bushels '	40	6 40
Beans	57 "	40	22 80
Beets	475 '' '	40	190 00
Carrots	425 "	40	180 00
Cucumbers	2,670 each '	1 1	26 70
Celery	7,425 heads "	• 3	222 75
Cabbage	13,790 "	· 2	275 80
Currants	114 quarts	6 5	5 70
Cauliflower	2,125 beads "	- 5	106 25
Cress	1,295 bunches	· 1	12 95
Citrons	465	- 5	23 25
Corn	1,535 dozens "	5	76 75
Gooseherries	35 quarts **	5	1 75
Lettuce	16,275 heads	· Î 1	162 75
Onions, green	10,615 bunches	1 1	106 15
" ripe	170 bushels "	1 00	170 00
Peas in pod	40 ''	40	16 00
Potatoes, early	44 "	1 00	46 00
Parsley	2,150 bunches "	1 1	21 50
Rarsnip	645 bushels	40	258 00
Rhubarb	8,235 bunches "	2	164 70
Radish, summer	5,275 ''		52 75
" winter	50 bushels "	50	25 00
Spinach	245 "	20	49 00
Strawberries	335 quarts	6 .	20 10
Savoy and sage	1,395 bunches "	2	27 90
Tomatoes	385 bushels		192 50
Turnips	75 "	20	15 00
Vegetable marrows	1,735		34 70
Mangel-wurzels	55 tons "		275 00
Western corn	110 loads "		110 00
Milk	27,473 gallons		3,296 76
			6,202 41

		C	1
	ల %		0 49
1901. Oct. 9To cash paid Can. Laundry Mchy. Co, l contrifugal extractor Nov. 1 \$ 54 00 I " 2 springers 200 I " 4 milch cow 200 I " 4 milch cow 200 I " 4 milch cows 200 I " • 300 I " • • I " • 350	140 00	from Cau. Lat Rom Cau. Lat R. Hunt Jacob Si	529 91 30 000 294 000 12 000 60
 Less for calves. S300 50 S300 50 Nov. 21To cash paid A. Montgomery, repairs to wagon and cart W. B. Living, repairs to buggy. Dec. 12 B. Hunter, 1 milch cow 	357 50 15 50 72 00 49 00	Dec. 12 ". 6 boxes at 20c. 19(2. 12 ". <td< td=""><td>$\begin{array}{c}1 & 20\\ 2 & 50\\ 2 & 40\\ 42 & 00\\ 984 & 61\\ 984 & 61\end{array}$</td></td<>	$\begin{array}{c}1 & 20\\ 2 & 50\\ 2 & 40\\ 42 & 00\\ 984 & 61\\ 984 & 61\end{array}$
31To balance	288 61 984 61	Jan. 1By balanceJ. Faylor & Co., 3,663 lbs. grease at 23 2By caali from J. Faylor & Co., 3,663 lbs. grease at 23 2	$\begin{array}{c} 288 & 61 \\ 100 & 73 \\ 172 & 20 \\ 3 & 15 \\ 257 & 00 \end{array}$
	313 25 508 44	April 1By balance May 17By cash from R. Hunter, 7 dry cows	821 69 821 69 508 44 300 00 324 00
A pril 11To cash paid R. 11unter, 1 milch cow	821 69 55 50 341 25 842 50 393 19 393 19	1By balance 7By cash fr.m. 11	$\begin{array}{c c} 1,132 & 44 \\ 1,132 & 44 \\ 3 & 3 & 19 \\ 274 & 00 \\ 54 & 00 \\ 54 & 00 \\ 00 \\ 00 \\ 00 \\ 00 \\ 00 \\ 00 \\ 0$
July 7To cash paid R. Hunter, 6 milch cows	1,122 74 762 74 1,043 24	oct. 1By balance.	762 74

TABLE No. 22-Farm Exchange Account.

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ANNUAL REPORT OF THE MEDICAL SUPERINTENDENT OF THE ASYLUM FOR THE INSANE, LONDON, ONTARIO.

To R. Christie, Esq.,

Inspector of Asylums, Ontario ;

Sir,—1 have the honor to transmit to you herewith the thirty-first annual report of this Asylum.

There were in residence at this Asylum, on October 1, 1902, 1,034 patients, of whom 490 were males and 544 females. In the course of the twelve months that have since elapsed, there have been admitted into the Asylum 153 patients, of whom 69 were males, and 84 females, making the total number of patients under treatment during the year 1,187—559 men and 628 women. Of these patients 72 have been discharged—4 males and 32 females; 62 have died—28 males and 34 females; 7 have eloped—5 males and 2 females; 33 females have been transferred to another asylum, leaving in residence at present 1,013 patients, of whom 486 are males and 527 females. Of the 54 discharged as recovered, 29 were males and 25 females: 13 were discharged improved—7 males and 5 females ; 5 were discharged at the request of their friends.

The number of patients discharged recovered and improved was, therefore, 67, or 43.14 per cent, of the admissions. The recovery rate from the opening of the Asylum down to date, including patients discharged improved, has been 39.42.

The total number of patients under treatment during the year was 1,187, and the number of deaths 62, so that the death rate for the year was 5.23 per cent. We had no deaths during the year from other than natural causes.

The average death race from the opening of the Asylum down to the present time has been 3.4 per cent.

The total number of patients admitted into this Asylum since it was opened, 20th November, 1870, is 4,852, of whom 2,575 were males, and 2,277 females. Of these, there have been discharged 1,913—982 males and 931 females. There have died 1,418, of whom 809 were males and 609 females. There have been written off, eloped, 102—91 males and 11 females. There have been transferred to other asylums 406, of whom 207 were males and 199 females. Remaining in residence, 30th September, 1902, 1,013, of whom 486 are men and 527 women.

The Infirmary.

We are very glad to say that this building is rapidly nearing completion, and we expect to be able to take possession some time during the winter. This will give us plenty of room for our sick, and perhaps a few others, and thus relieve to some extent the crowded state of the Asylum, from which we at present suffer. It will not, however, provide for the proper care of a certain class of our sick, which ought to be provided for,—I refer to those suffering from tuberculosis, who should, according to modern and intelligent ideas, be isolated from the general crowd; and consequently we should have a building in some sunny part of the grounds, built in the most approved modern plan, for the treatment of these cases. Each Asylum onght to have a cottage capable of providing accommodation for at least twenty males, and a like number of females, with balconies and other provisions for being most of their time in the fresh air. As a makeshift until permanent buildings can be afforded, ordinary tents for the summer, and double-walled tents for the winter, would be a step in the right direction, and would enable the management to isolate patients who are a constant menace to the other inmates; for it is a well-known fact that all insane patients, confined as they necessarily are in asylums, have their powers of resisting disease very much lowered; hence, are easy victims to infection from this scourge of humanity—tuberculosis. This is a question which the Government will have to provide for in the near future.

The Training School for Nurses.

In connection with our new Infirmary, and, in fact, for the welface of the whole institution, we have come to the conclusion that the efficiency of our attendants would be greatly increased if they were properly trained, as modern nurses are. 'The training of nurses for the sick is rather a modern idea, for we find on enquiry that the first training school for nurses in the United States was started twenty-nine years ago, and the first training school in a hospital for the insane on this continent was started at Wayerly, Mass., in 1882. We decide that two years' experience must be had in the institution before the diploma will be granted, although an attendant may be credited with service of a suitable character, acquired in some other institution than the one where he or she graduates. But it should be stipulated that such graduate shall have at least one year's experience in the institution where he or she graduate must be in the employ of the institution at the time of graduation.

The main reason for the establishment of a training school in connection with the London Asylum is to secure the best and most intelligent care and treatment for our inmates. We feel, too, that it will produce a better fellowship among the attendants, as well as give them something to look forward to when they shall have acquired their profession. It is also hoped that it will cause them to take a greater interest in the duties which they have to perform. We propose that after a time all who are engaged here as attendants or nurses shall be graduates, or undergraduates, of this or some other accredited training school. Graduates will, of course, have the preference. Of course, this can not be enforced until at least two or more years have elapsed, or until we have graduating classes.

We will start with a class of about fifty-five pupils, in the proportions of about one-third men and two-thirds women. This will give us the advan tage of having trained male nurses for the sick male insane, which we think is generally very necessary. I am confident that we shall have better results as a consequence of this innovation, in the management of this Asylum. We shall, of course, try to keep our trained nurses for all time, after their graduation, but fear that the demand for such experienced nurses will be so great as to enable them to command wages which our Government will not be able or willing to pay. The course of lectures we propose to give to the class will be the same, or nearly so, as is adopted at such schools; and. in addition, they will be taught the management of the mentally derauged. The Government has been good enough to furnish the text-book on nursing which is adopted by the Medico Psychological Association of Great Britain, and which it is proposed to loan to the pupils during their course; so that they not only will be furnished the use, without expense, of the book necessary for their studies, but they will also be allowed their full wages while getting their profession.

Work Done.

The past year has been a very busy one, and much work has been accomplished which was absolutely necessary to be done; and, as it has

been done by the assistance of the patients, it has been done at a minimum of expense. The fence along the west side of the garden was in a very dilapidated condition, which accounted for the depredations in of a the garden, and the loss good deal of fruit and This. by high wire fence. flowers. was replaced 11 woven supported by good cedar posts, making a very handsome and serviceable fence, which does not obstruct the view of the fine garden, and yet keeps out wanderers, and other evil disposed persons, most effectually. We have long needed a suitable fruit cellar, in which to store apples and other fruit, beside our large stock of celery. We have built, and will have furnished within a few days, a very fine cellar, near the gardener's house. which is about seventy feet long by eighteen feet wide, and sven feet deep. The material for the walls, with the exception of a few new brick used above the ground on the outside of the wall, were gotten from the old disused sewer at the foot of the garden, thus making use of good material which was going to waste. The work was wholly done by our own labor.

The gardener's house was also veneered throughout with brick, making a very handsome and comfortable residence. This was a much-needed im provement, for the comfort of a very worthy officer and his family. The new shed over the apple cellar was newly-shingled also.

We have also this year been engaged in renewing the green houses, which had fallen into such a dilapidated condition that much valuable stock was each winter being lost, and the gardener was so eramped for room that he could not grow much desirable material for ornamental decoration and bedding, which was very much needed. With the appropriation, four large new greenhouses will be constructed, ready for use this autumn, which could not have been built with five times the appropriation had we not done the work entirely by our own labor.

The Laundry.

Our laundry, which for some time has not had the capacity to meet the wants of the institution, and which, consequently, it had become absolutely necessary to enlarge and improve, is now in a fair way of being doubled in size, and modernized, so that our wants in that line should be fully satisfied. An additional building is being built of white brick, which is fifty feet long by thirty feet wide, and two stories in height. This will give us ample room. and will enable the employees to work with comfort, instead of being crowded together, and being overcome by the heat, as has been the case in the old building. The Government proposes also to introduce the Haurahan system of drying, by a process of condensation, with a cold draught, instead of heat, as at present. This is said to be a great improvement on the old style of drying-room, and with these improvements, the introduction of two new washing machines, modern ironing machines, a steam hoist, etc., we hope to carry on this very necessary work, so that the clothes will be sweet and clean, and not as they have been since the institution has out-grown the capacity of the old laundry. The walls of the building are half up, and we trust that before winter sets in we may have full use of the new building and machinery.

The Water Supply.

One of the greatest sources of anxiety has been the water supply. The well was found to be incapable of supplying our wants, as it has done in former years; in fact, it has fallen a good deal short. To meet the difficulty, which is likely to be greater as each year goes by, two ponds were formed in a gully north of the butcher shop, by putting dams across. These soon became filled with water, but it was not fit for drinking purposes, although it was all right for other purposes, and it has been so used, thus eking out the supply of the well. This water is brought through pipes to the laundry, where, by natural gravitation, it rises two feet above the level of the floor. It is also pumped into some of the tauks on the main building, to be used for all purposes other than as drinking water.

To make a permanent reservoir, in which we could have an abundant supply of pure water and ice for our ever-growing population, has this season been one of our greatest anxieties, and we have kept at it persistently, and at last have the satisfaction of knowing that eventually we shall have an abundant supply of good spring water, which also, in the winter, will furnish us with pure ice, which can be used in sickness, etc., for other than merely cooling purposes.

In order to accomplish this, we first ran a four-inch iron pipe from the upper pond, which is merely a pond receiving surface water, down through the reservoir, so that the pond shall not contaminate the water in the reser voir. We then found that there were a series of good springs in the north bank of the reservoir. These we connected by digging a ditch along the face of the bank, and putting in land tile, and allowing the water to make its way into the reservoir, which it soon filled with beautiful water, and, although about 50,000 galons are drawn daily from it, there does not seem to be the least diminution in the supply. We are also putting down on the south side of the reservoir a ten inch overflow pipe, leading from the top of the pond to below the reservoir, to prevent any possible contamination in case of a freshet. We shall also put down a line of land tile on the south side, to lead away any surplus drainage from the reservoir. All this is done by our labor, under the direction of our able engineer; and in order that we may be assured that we may never run short of good water, we propose to enlarge the reservoir, and to cement its bottom, boulevard and gravel its margins, surround it with a suitable fence, and plant evergreen trees about it, thus making it a desirable looking source of water, which, from an aesthetic point of view, goes a long way towards satisfying dainty people. We feel convinced that it is our duty to provide to our people pure water and pure milk, considering them, if impure, perhaps two of the most fruitful sources of conveying disease.

Much other work has been done during the season, of which we shall merely give a list, viz.: A new fence across the sewer field; changing the long, filthy, dangerous water troughs in the cow stable for the latest approved means of watering cows, namely, by Woodward's Basins; improving the cleanliness of the milking by causing the milkers to wash before milk ing each cow, and to don white aprons and sleeves. Repaired the silo and the foundation of the cow stable. Renovated the Superintendent's residence. Painted the fire escape, in front of the main building. Painted the front of the sewage gardener's residence. Renovated the Bursar's house. Put in twelve new enamelled baths, and spray attachments, to nearly all the baths. New metal ceilings to two of the halls in the main building on the women's side, and also one for a storeroom.

There were 50,000,000 gallons of water pumped during the year and 32,000,000 gallons of sewage. We put on a new roof on the kitchen at the north building.

We fitted the dairy with heat and light; put in gas in the men's dormitory; besides a great number of smaller repairs and renewals.

In this department a large turning lathe was bought, and is found to be exceedingly serviceable and useful.

Work to be Done.

To finish the Infirmary, for which all the contracts are let, and which work is being rapidly completed. To finish and furnish the Laundry. This work, too, is going forward as rapidly as possible. To finish the greenhouses and heat them. To put in new cement floors in the kitchen and centre part of the cellar, under the store.

To put up the balconies at the end of the B. and D. halls, in the main building. These are very much needed, and for nearly all of the above work appropriations have been made. Some other work, which should be done at as early a date as the Government sees fit, to modernize the Institution and to save money, would be to instal an electric lighting plant. We have ample power in connection with our pumping engines, which are only used during the day. They might as well be utilized in generating electricity by night. Then our beautiful grounds might be cheaply lighted, instead of being, as now, so dark that it is dangerous to go from one part to another after dark.

We need a new large woodshed, built near the barn, instead of the small one, awkwardly situated, and an eyesore in the sewage garden.

The main entrance to the main building is not at all in keeping with the appearance of the building, being merely an iron fire escape; its shahby appearance being commented upon by almost everyone who visits the institution. It is not at all in keeping with the beautiful grounds, so well kept in front, and should be moved to the rear of the building, where it would be equally useful in case of an emergency. A very suitable entrance would be in the form of a Porte Cochere, with a balcony on top, where the families of the resident doctors or the patients could have plenty of room to get a sun bath and fresh air. This need not be an expensive work, since it could be done chiefly by our own labor. We sincerely trust that the Government may see its way to allowing this much-needed improvement to be done, at a very early date.

Another very necessary work in the near future should be the building of a "Nurses' Home." It is barbarous that the nurses who come on duty in the wards at 5.30 a.m., and work until 9 p.m., have to go to their rooms just off the hall, in order to get their rest, amid all the noise and bad air. Good service cannot be expected under such circumstances. If the Government will allow us the material, we can build it with our own labor. Such a building would much enlarge the capacity of the main building, by allowing the rooms now occupied by the nurses to be available for patients.

Amusements.

As is the custom now in modern asylums, every opportunity, is taken advantage of to furnish entertainment for the patients, and thus to lighten as much as possible the irksome monotony of their unfortunate existence. During the winter months, dances were given twice a week; an "at home" once each week; the other nights of the week being filld in with concerts. lectures, etc. On these occasions the music was furnished by our own orchestra. The very superior band of the Seventh Regiment were good enough to give us during the season no less than three good concerts, which were much appreciated by all present. Our annual sports took place on September 30th, and, although the day was wet, passed off very well. We wish here to thank the many merchants and others of the city who were good enough to donate the prizes for the games, many of which were very valuable. The staff feels very grateful to those kind and generous friends of the institution for thus lending a helping hand to them in their endeavors to throw a ray of sunshine into the lives of the poor people under their care. Our Church has continued to be a source of pleasure and comfort to very many, and we must not pass without thanking with all our hearts the kind clergymen who, in a very self-sacrificing way, have been good enough to come from the city to the 9 a.m. service each Sunday morning to minister to the spiritual needs of those who attend. Our choir, under the able management of Dr. Sippi, the Bursar, continues to be very efficient.

The Sewage.

We are glad to be able to say that our system of disposing of our sewage is yet perfectly satisfactory. The ground used does not seem to be un pleasantly saturated, nor do we think it is likely to be so, since, from the character of the soil and location, filtration takes place so rapidly and perfectly that there is but little danger of saturation.

The Farm and Garden.

The season has been a wet one, and such an one as suits our land perfectly. We have had unusually good crops of almost everything grown, and we feel proud to say that we think there are few farms and gardens in Canada where as fine a yield has been produced.

We are sorry to have to report that our flock of turkeys have been this season afflicted with some sort of infectious disease of the liver. We have lost 44 birds already. As the disease is very unusual, and not understood, we have submitted some of the specimens to Dr. W. G. MacCallum, Patholo gist to Johns Hopkins Hospital, Baltimore, for an opinion.

The Women's Airing Court.

Each day during suitable weather it has been the custom to allow all the females in the main building to have a certain time in the sun and fresh air, but, owing to the fact that the handsome wall which surrounded the court was taken away, it is almost impossible for our staff of twenty female attendants to guard the three hundred women, without herding them to gether, so that their outing is anything but a pleasure to the poor creatures. This mode of guarding and watching them is absolutely necessary on account of the trees and shrubbery on the grounds affording such facilities for patients to escape, and, if suicidally inclined, to readily reach the track of the C. P. R., which was unwisely allowed to cross the grounds, in close proximity to the building. I would suggest that an appropriation be at once made to build a woven wire fence, with iron posts on the outside, around the women's airing court, so that the inmates may have their freedom in walk ing about therein. This sort of a fence would be very cheap, not unsightly so as to spoil the appearance of the grounds, and yet be efficient.

Officers and Employees.

There have been many changes in the staff since the last report. The most important of which was the sad loss by sudden death of the late Superintendent, Dr. Bucke, on February 19th, which came as a stunning blow not only to the staff but to the interests of the whole institution, at the head of which he had been for a quarter of a century. The universal opinion undoubtedly is that the Province has lost an able executive officer from the head of one of its large public institutions, and the country a very able son, who will be long remembered for his literary and social characteristics. On March 1st your humble servant was appointed to the position rendered vacant. Dr. F. Beemer was on June 15th promoted to the position of Depnty Superintendent at the Hamilton Asylum. Dr. R. W. Bell of To ronto Asylum, succeeding him here, June 16th. Dr. W. T. Wilson was sent from here to Hamilton, and Dr. P. MacNaughton transferred from Mimico to this institution, August 2nd. As will be seen, these moves practically changed the whole staff of this Asylum, with the exception of our able Deputy Superintendent, Dr. Buchan, who continues to do good work, as he has for many years. I desire to say here that no one could have received more cordial and loyal support than has been accorded to me by all of the employees of the institution, without exception. I have felt more grateful for this, because, in trying to grasp the working details of the institution. I needed much kindness.

The following lists annexed will show fully the result of the farming, and gardening operations for the year.

I have the honor to be, Sir, Your Obedient Servant,

G. A. MacCALLUM.

R. Christie, Esq., Inspector of Asylums, Toronto, Ont.

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ANNUAL STATISTICAL REPORT

Of the operations of the Asylum for Insane, London, for the year ending 30th September, 1902.

TABLE NO. 1.

Shewing movements of patients in the Asylum for the official year ending September 30, 1902.

					1	
	Male.	Female.	Total.	Male.	Female.	Total.
					_	
Remaining, October 1st, 1901				490	544	1,034
Admitted during year :						
By Lieutenant-Governor's Warrant	35	22	57			
By Medical Certificate	34	62	96	69	84	153
Total number under treatment during year				559	628	1,187
Discharges during year :		1			1	
As recovered	29	25	54			
As improved	7	6	13			ĺ
As unimproved	4	1	5	ĺ		
Total number of discharges during year	40	32	72	ĺ		
Died	28	34	62			9
Eloped	5	2	7			
Transferred		33	33			
				73	101	174
Remaining in Asylum, 30th September, 1902	 . 			486	527	1,013
Total No. admitted since opening of Asylum				2,575	2,277	4,852
" discharged	982	931	1,913			
" died	809	609	1,418			
" eloped	91	11	102			
" transferred	207	199	406	2,089	1,750	3,839
" remaining, 30th September, 1902				486	527	1,013
Number of applications on file				10	10	20

TABLE NO. 2.

Shewing the maximum and minimum number of patients resident in the Asylum, the total number of days' stay of patients, and the daily average number of patients in the Asylum, from the 1st October, 1901, to 30th September, 1902.

	Male.	Female.	Total.
Maximum number of patients in residence (on the 2nd of January)	485	553	1,038
Minimum " " " (on the 16th of January)	484	513	997
Collective days' stay of all patients in residence during year	178,029	194,182	372,211
Daily average population	487.7	532.0	1,019.7

$\begin{array}{c c c c c c c c c c c c c c c c c c c $							
Social State. 33 53 86 1,128 1,413 2,54 Widowed 36 31 67 1,447 864 2,31 Not reported		Adm	issions of	Year.			
Married. Married. <t< td=""><td></td><td>Male.</td><td>Female.</td><td>Total.</td><td>Male.</td><td>Female .</td><td>Total.</td></t<>		Male.	Female.	Total.	Male.	Female .	Total.
Married. Married. <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
Widowed 7 36 30 60 1,146 1,447 864 2,31 Nob reported 36 31 67 1,447 864 2,31 Total 69 84 153 2,575 2,277 4,855 Religion. 12 17 29 476 410 884 Baptists 20 25 45 567 583 1,88 Congregationalists 20 25 45 567 583 1,88 Remon Catholics 7 11 18 409 394 800 Menonites 7 11 18 409 394 800 Quakers 131 8 33 69 200 107 222 Not reported 31 8 33 69 200 11 18 69 200 Total 69 84 153 2,575 2,277 4,857 107 222 107 224 Nationalities. 7 10 17 340	Social State.	{					-
Nob reported	Widowed						2,541
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $							
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Total	69	84	153	2,575	2,277	4,852
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	D W 4						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Keligion.	1					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Episcopalians Methodists Baptists Congregationalists	$\begin{array}{c} 12\\ 20\\ 4\\ \end{array}$	17 25 8 1	29 45 12 1	476 597 187 23	410 583 178 15	1,083 886 1,180 365 38 803
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $							8
Not reported 138 69 207 Total 69 84 153 2,575 2,277 4,857 Nationalities. 7 10 17 340 263 600 Irish 5 5 10 313 370 683 Scotch 50 59 109 1,479 1,279 2,716 United States 2 2 4 96 70 166 Unknown	Infidels	· · · · · · · · · · · · · · · · · · ·		•••••	31	8	39
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Not reported	D	2 2	<i>i</i>			228 207
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Total	69	84	153	2,575	2,277	4,852
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Nationalities.						
Total 69 84 153 2,575 2,277 4,853	Irish	5 5 50	5 7 59 2	10 12 109 4	313 222 1,479 96 58	370 189 1,279 70 65	603 683 411 2,758 166 123 108
	Total	69	84	153	2,575	2,277	4,852

Shewing the Counties from which patients have been admitted up to 30th September, 1902.

	Admit	ted durin	ig year.	Tota	al admittan	ce.
Counties.	Male.	Female.	Total.	Male.	Female.	Total.
Algoma District. Brant. Bruce. Carleton Dufferin Elgir. Essex Frontenac Grey. Haldimand. Haldimand. Haldimand. Hastings Huron Kent. Lambton. Lanark Leeds and Grenville Leennox and Addington Liucoln Middlesex. Muskoka District. Northumberland and Durham. Ontario Oxford Peel Peel Peel Prince Edward. Renfrew Sitornot, Dundas and Glengarry Victoria Waterloo. Welland. Wellington. Wentworth York Not classed.	5 6 4 		20 14 8 16 9 11 48 48 16 2 2 1	$\begin{array}{c} 8\\ 38\\ 38\\ 189\\ 4\\ 160\\ 143\\ 5\\ 10\\ 22\\ 10\\ 5\\ 236\\ 173\\ 275\\ 3\\ 275\\ 3\\ 10\\ 610\\ 14\\ 6\\ 235\\ 4\\ 198\\ 1\\ 2\\ 1\\ 13\\ 5\\ 12\\ 33\\ 8\\ 20\\ 13\\ 46\\ 27\\ 2\end{array}$	$\begin{array}{c} 5\\ 34\\ 143\\ 7\\\\ 158\\ 136\\ 7\\\\ 9\\ 9\\ 227\\ 182\\ 195\\ 3\\ 5\\ 1\\ 6\\ 569\\\\ 35\\ 10\\ 16\\ 164\\ 1\\ 21\\ 5\\ 3\\ 147\\ 6\\ 164\\ 1\\ 21\\ 5\\ 14\\ 21\\ 7\\ 16\\ 21\\ 47\\ 11\\\\ 1$	$\begin{array}{c} 13\\ 72\\ 332\\ 11\\ 11\\ 318\\ 279\\ 12\\ 23\\ 45\\ 17\\ 14\\ 463\\ 355\\ 470\\ 6\\ 5\\ 4\\ 16\\ 5\\ 4\\ 16\\ 1,179\\ 382\\ 10\\ 362\\ 6\\ 5\\ 2\\ 382\\ 10\\ 362\\ 6\\ 5\\ 2\\ 34\\ 10\\ 26\\ 54\\ 15\\ 36\\ 34\\ 93\\ 38\\ 2\end{array}$
Total admissions	69	84	153	2,575	2,277	4,852

TABLE No. 4.

Shewing the Counties from which warranted cases have been admitted up to 30th September, 1902.

Counties.	Admit	ted durin	g year.	Total admittance.		
	Male.	Female.	Total.	Male.	Female.	Total.
Algoma District Brant Bruce Carleton		5	9	8 20 95	$211 \\ 52 \\ 2$	10 31 147 2
Dufferin Elgin Essex	3 2	$\frac{1}{1}$	4 3	49 65	14 43	6 3 108
Frontenac. Grey Haldimand. Halton. Hastings Huron Kent. Lambton Lanark Leeds and Grenville.	3		5 2 5	9 10 7 2 98 59 141	1 8 3 5 59 29 48 1	1 17 13 10 7 157 88 189 1
Lennox and Addington Lincoln Middlesex	13	5	18	$\begin{array}{c}1\\8\\172\end{array}$	1 117	1 9 289
Muskoka District. Norfolk Northumberland and Durham. Ontario Oxford Peel Perth Petrhorough Prescott and Russell. Prince Edward.	3	5		$21 \\ 4 \\ 116 \\ 3 \\ 82 \\ 1 \\ 1$	$ \begin{array}{c} 12\\ 2\\ 5\\ 34\\ 6\\ 47\\ 5\\ 1\\ 1 \end{array} $	33 6 6 150 8 129 6 2 1
Renfrew Simcoe Stormont, Dundas and Glengarry	·····		······ ······ ······	$5 \\ 1 \\ 9 \\ 17 \\ 3 \\ 13 \\ 6 \\ 29 \\ 1$	8 	13 1 18 25 8 24 15 54 1
Total admissions	 35	22	57	1,057	586	1,643

TABLE No. 5.

Shewing the length of residence in the Asylum of those discharged during the year.

No,	Initials.	Sex.	When admitted.	When discharged.	Remarks.
12	F.A G.R	M	May 13, 1898 Aug. 23, 1901	October 5, 1901	Improved. Unimproved.
3	W. L.	M	" ¹⁶ , 1893	November 1, "	Recovered.
4	A. G	M	June 23, 1896	··· 1. ··	
5	M. W	F	Feb. 1, 1901	4 4 4	46 1
6 7	W. H J. U	M	Jan. 2, 1901	10,	
8	J. U G. A. T	M M	July 20,.1901 Sept. 3, 1901	13. $13.$ $22,$ $13.$	Unimproved.
9	W. R	M	Sept. 27, 1901	** 27, **	Recovered.
10	J. McK	M	July 13, 1901	December 4, "	66
11 12	D. McL R.M	M M	July 18, 1894	0	66
13	M.W	M	Feb, 26, 1890 Sept 11, 1899	16, 16, 16, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10	Unimproved.
14	A.W	F	Aug. 9, 1894	January 2, 1902	Recovered.
15	J. McK	F	Feb. 2, 1899	66 <u>4</u> , 66 66 77 66	64 5 +
16 17	M. G J. K	F F	Aug. 11, 1900 Dec. 12 1898	(1 +++ ++++++	
18	A. B	F	Nov. 22, 1900	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Unimproved. Improved.
19	W. H	M	May 30, 1901	" 16, "	Recovered.
20	N. S. G	M	Jan. 31, 1901	⁴⁴ 16. ⁴⁴	66
$\frac{21}{22}$	M. P	M	Jan. 23, 1900.	" 25, "	
23	M. E. B C. B. F	F M	Dec. 31, 1901 Dec. 24, 1901	February 6, "	Recovered.
24	E. M. C	F	July 7, 1900	··· 10, "	
25	J. D	M	Dec. 24, 1901	" 11, "	Recovered.
$\frac{26}{27}$	J. A. P	F	May 11, 1901	··· 15, ··· ··· ···	Improved.
28	J. B C. M	M M	June 21, 1900 Dec. 28, 1900	10,	Recovered.
29	A. McG	M	May 1, 1901	18. $18.$	
30	M. R	M	Dec. 1, 1891	March 8, "	
31	M E.C	F	June 15, 1898	<u> </u>	Recovered.
32 33	M.A H. W	F M	July 31, 1901	10,	66
34	H. McL	M	Jan. 21, 1902 Dec. 7, 1901	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
35	G. H. O	M	Jan. 17, 1901	** 31, **	
36	T. McL	M	April 4, 1901	" 31, "	
37 38	J. D	M	Aug. 3, 1901	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
39	C. H J. P	M M	May 3, 1895 Sept. 4, 1901	April 7, "	
40	M. C	F	Oct. 9, 1900	May 2, "	6.6
41	М. Н.	F	Aug. 8, 1900	8, "	
42 43	A. R	M	Aug. 8, 1900	1 10 9, 14 Tuma 6 14	66
44	G. M	M M	Apr. 19, 1901 July 28, 1897	June 6, " " 6, "	6.6
45	M. E	M	July 19, 1900	" 6, "	66
46	F. R	M	Sept. 4, 1900	··· 6, ··	
47 48	M. G	M	Oct. 10, 1901	· · · · · · · · · · · · · · · · · · ·	
49	L. R G. J	F M	Mar. 22, 1901 Nov. 3, 1901	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Unimproved.
50	S. E. F	F	Jan. 23, 1902	27, ''	Improved.
51	C. C	M	Oct. 3, 1901	July 4, "	
52 53	A. D	M	June 17, 1901	··· 15, ··	
53 54	M. B S. E. L	F F	July 1, 1901 Aug. 1, 1901	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
55	H. R. A.	F	Nov. 19, 1901	" 28, "	66
56	M. A. McD	F	July 13, 1901	August 8, "	
57	A. M	E	Apr. 24, 1901	······································	
58 59	J. P M. J. A	M F	June 16, 1902 Dec. 6, 1901	10,	
60	A. L. McC	F	Dec. 14, 1900	··· 22, ··	61
61	L. P	F	Feb. 1, 1902	September 1, "	6.6
62	M. O. R	F	Mar. 25, 1902	··· 13, ··	
63 64	M. S M. B.	F	Jan. 22, 1902 July 21, 1902	10,	1
65	F. P.	F M	Mar. 21, 1902	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1 20 1
66	<u>Ê</u> . <u>R</u>	F	Dec. 19, 1901	" 18, "	61
67	\mathbf{L} . \mathbf{W}	F	Jan. 22, 1902	· · · 19, · · · · · · · · · · ·	
68 69	R. N	M F	July 19, 1901	40,	66
70	A. H M. Y	F F	Nov. 22, 1901 Aug. 20, 1898	" 30, " February 24, "	44
71	E. M. K	F	July 25, 901	March 22, "	4.6
72	R. E	F	Feb. 27, 1901	·· 22, ··	

THE REPORT OF THE INSPECTOR OF

TABLE No. 6.

Shewing age, length of residence, and approximate cause of death of those who died during the year ending 30th September, 1902.

						sidence i Asylum.	in	
No.	Initials.	Sex.	Age.	Date of Death.	Years.	Months.	Days.	Proximate cause of death.
1	J. F. F	F	31	October 1, 1901	1	5	25	Phthisis.
$\frac{2}{3}$	J. R J. R	M M	49 80	" 8, " $ 11, " $		4 8	25 25	Suicide. Paralysis.
4	J. A	M	79	·· 12. ··			7	Senile decay.
5 6	M. S. R. J. N	F	72	·· 19, ··	18	8	14	Senile decay.
7	A. W	M M	$\frac{26}{64}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	3 11	93	19 11	Phthisis. Dyseotery.
8	E. B	F	61	November 8, "	11	3	16	Senile decay.
9 10	B. J R. L	M M	27 60	4 05 4	25	$\begin{array}{c} 6\\7\end{array}$	3 8	Paresis. Peritonitis
11	J. H	M.	42	Decemb'r 11, "	10	8	n	Exh. of Epilepsy.
12	T. W	M	57	" 15, "		5	12	Exh. of Melaucholia.
$\frac{13}{14}$	S. H. J. E. W	F M	43 36	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	17	10 9	$\frac{20}{17}$	Paresis. Cancer of Throat.
15	M. F	F		· · · 29, · ·	31	1	6	Seaile decay.
16 17	J. S	F	64 43	January 2, 1902 2,	6	10	$\frac{22}{28}$	Exh. of Epilepsy.
18	C. P E. C	M F		" 9 "	5	$\begin{array}{c} 10\\1\end{array}$	$\frac{28}{21}$	Pyaemia. Phthisis.
19	M. B	F	67			4	9	Apoplexy.
$\frac{20}{21}$	L. O	F F.	$\frac{43}{61}$	14,	··· 1	$\frac{2}{8}$	$\frac{14}{25}$	Exh. of Melaocholia. Paralysis.
22	D. R. V. A	M	78	" 16, "	1		24	Exh. of Mania.
$\frac{23}{24}$	E. W	F	69	··· 19, ··	·	2	30	Pleurisy.
24	J. L. M. E. S	M F		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	27^{7}	4	$\frac{5}{12}$	Phthisis. Phthisis.
26	C. C	F	58	February 4, "	10	8	29	Brights Disease.
$\frac{27}{28}$	T. M	M		⁸ , ⁸ , ¹	$\frac{12}{7}$	$\begin{array}{c} 1\\10\end{array}$	$\frac{26}{22}$	Senile d+cay. Marasmus.
$\frac{20}{29}$	E. E A. O			··· 12, ···		8	23	Exh. of Mania.
30	S. G	M	61	" 28, "		5 1	24	Paralysis.
31 32	M. R T. J. L	F M		March D,	0	3	$\frac{28}{22}$	Exh. of Chr. Mania. Gangrene of Leg.
33	A. H	F	48	" 11, "			$\tilde{21}$	Strangulated Hernia.
34	A. R	F	59	······································		9.	10	Exh. of Epilepsy.
$\frac{35}{36}$	I. H E. C		56 77	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		1	$\frac{19}{24}$	Exh. of Melancholia. Dysentery.
37	G. H M. A. L	M	63	" 18, "	4	6	7	Exh. of Epilepsy.
$\frac{38}{39}$	M.A.L	F	67	⁴⁴ 19, ⁴⁴ ⁴⁴ 21, ⁴⁴	0	3	24 6	Senile decay.
40	J. S B. A		57 40	" 25, "	3.77	4		Apoplexy. Phthisis,
41	J. S	M	. 65	April 1, "	9	4	3	Senile decay.
42 43	D. McN	M M		4, 4, 1		5	$\frac{7}{19}$	Phthisis. Senile decay.
44	D. M R. W. W	M	. 56	· · · · · · · · · · · · · · · · · · ·	1		21	Epilepsy.
45 46	G. E	M	. 34	11 27, 11		1	19	Phthies. Phthies.
40	J. C A. G		. 37 37	May 9, " " 11, "	3	36	8	Obstruction of Bowels.
48	E. A	F	. 37	" 15, " .	- O	1	15	Phthisis.
49 50	J. D S. B	F	. 76	19,		$\begin{vmatrix} 3 \\ 2 \end{vmatrix}$	5	Exh. of Mania. Phthisis.
51	H. C	F		" 23, "	0.4		12	Chronic Diarrhoea.
52	M. McD	F	. 48	June 18, "		8	10	66 66
53 54	M. A. R E. McL	F.F.			1 2	8	24 22	Cancer of Liver. Cirrhosis of Liver.
55	M. K	. F	. 70	July 3, "		3	28	Fracture Shock.
56 57	P. B	. F	. 65	66 6, 66 . 66 77 66	. 31	7	18	Cirrhosis of Liver. Exh. of Epilepsy.
57 58	J. T C. G	. M F		" 17, " " 21, " .		3	11	Abscesses of Scalp.
59	C. G		. 38	August 23, '' .		7	21	Angina Pectoris.
60 61	P. McN C. C	. M		Sept. 16, " . 20, " .	1 10	6	29 13	Broncho-Pnenmonia. Cardiac Disease.
01	I U. U. A.	4 474	. 20	··· 20, ··· .	. 10	0	10	

TABLE No. 7.

η.

Shewing trades, callings and occupations of patients admitted into the Asylum.

	Dui	ing the y	ear.	Durin	Total		
Trades, callings and occupations.	Males.	Females	Total.	Males.	Females	Total.	Total.
genta	1		1	14	1	15	1
rchitects				1		1	
rtiste	1		1		1	1	
look-keepera	4		4	9	1	$\frac{9}{12}$	1
akers	• • • • • •		• • • • • • • •	11	1	4	
Bricklayers Butchers				8		8	
Blacksmiths				32		32	3
Brass-finishers				2		2	
rewers				2		2	
Buildere	 · ·····			1		1	
arbers				6		6	
room-makers	1			$\frac{2}{2}$		$\frac{2}{2}$	
Barristers				1		1	
rakesmen			* * * * * * * *			1	
aggagemen				2		2	
ommercial travellers	1		1	10		10	1
abinet-makers				16		16	1
onfectioners				2		2	
oopers				16		16	1
arpentere	2		2	64		64	6
llerks	1		1	49	1	50	5
lergymen	1	1 ** ***	1	4	******	4	
arriage-makers	1	1	9	1	2	3	
aptains of steamboats				1		ű	
agarmakere.		1	1	4	1	5	
ustom-house officers				2		2	
ivil servants				3		3	
Oyers				1		1	
Domestic servants, all kinds		8	8	4	302	306	31
Dressmakers		2	2	·····	. 24	24	2
Druggists			· · · · ·	5		5	1
Ingineera	$1 \\ 1 \\ 22$	13	$\frac{1}{35}$	16 949	84	16	1,06
farmers	ن ک		- 20	5		1,005	1,0
Founders				2		2	
ferrymen				$\overline{2}$		2	
urriers					. 1	1	
ardeners				15		15	
rocers	1		1	1		1	
entlemen				6	1	6	
rooms				1	1	1	
lucketers					. 1	1	
latters							
Iarness-makers				7		7	
Iousekeepers		42	42		1,245	1,245	1,2
lack-drivers				1		1	
nn-keepera				3		3	1
ewellers				4		4	
abourera	19		19	630	1	631	6
aundresses					. 5	5 12	
adiee					$12 \\ 1 \\ 1$		
umbermen.					*I .		
filliners						13	
fasona					[9	
fachinists				1		17	1 1
Aatchmakers				1		1	
Millers		.		12		12	
Moulders	1			14		14	
Merchants						41	
Mechanica							

No. 38

TABLE No. 7.—Concluded.

Shewing trades, callings and occupations of patients admitted into the Asylum.

	Dur	ing the y	sar.	Durin	g former	years.	
Trades, callings and occupations.	Males.	Females	Total.	Males.	Females	Total.	Total.
Marble-cutters			••••	2		2	149
No occupation	1	10	11	37	100	137 3	148
Nurses	••••	• • • • • • • •	• • • • • • • •	14	3 47	61	61
Not stated Organ-builders			••••	2	4/	2	2
Other occupations	5		5	18	6	24	29
Plasterers				4		4	4
Pensioners				4		4	4
Photographers	1		1	4		4	5
Prostitutes					6	- 6	6
Painters				26		26	26
Printers				18		18	18
Peddlers				4	1	5	5
Physiciane	1		1	7		7	8
Pump-makers				1		1	15
Railway foremen	2		2	3		3 1	2
Railway conductors	1		$\frac{1}{3}$	1	14	14	17
Spinsters		0	0	14		14	14
Sailors.	1		1.1.1	30		32	33
Students				1	2	32	3
Spinners				1 1	ĩ	ĭ	i i
Soda-water manufacturers				1	1	i	l î
Stone-cutters				5		5	í 5
Showmen				2		2	2
Saddlers				6		6	6
Shoemakers	}			34	1	34	34
Seamstresses		3	3		23	23	26
Soap-makers				1		1	1
Soldiers				4		4	4
Salesmen				·····	1	1	
Surveyors				2	[• • • • • • • •	2	2
Ship-builders				22	10	2 40	40
Teachers					18	11	11
Tinsmiths					1	9	9
Tavern-keepers		·····	1	29	14	43	44
Tailors		····	1	7	1 13	7	7
Teamsters						4	4
Toll-gate keepers				l î	1	2	2
Telegraph operators)	3	1 ī	4	4
Watchmakers				8		8	8
Wood-workers				2		2	2
Weavers				4	1	5	5
Wheelwrights				1	1	1	1
Waggon-makers				11		11	11
Unknown or other employments				111	251	362	362
Total	69	84	153	2,501	2,198	4,699	4,852

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TABLE No. 8.

Shewing causes of Insanity.

	Number of instances in which each cause was assigned.										
Causes of insanity. In respect of the admissions for the year ending 30th September, 1902.	As predisposing . canse.				s exciti cause.	ng	As predisposing or exciting cause where these could not be distin- guished.				
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.		
Moral.]				
Domestic troubles, including loss of relatives or friends Religious excitement	1		1	3	3	6		$\frac{2}{3}$	2 3		
Adverse circumstances, including business troubles Love affairs, including seduction		1	1	3		3	1		1		
Mental anxiety, "worry". Fright and nervous shocks					3	3	2	3	5		
Physical.					-			1	1		
Intemperance in drink. Intemperance, sexual Venereal disease Self-abuse, sexual Over-work Sunstroke Accident or injury. Pregnancy. Prepreral Lactation Pherty and change of life Uterine disorders. Brain disease, with general paralysis		····· ····· 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 3 3 1 2 	3 3 4 2 2	2 3 6 3 4 1 4 4	3 5 1 1 	2 1 3 4 7 1	5 5 1 1 1 1 1 1 8 1 8 1		
With other ascertained cause in combination											
With other combined canse not ascertained. Unknown	15	12		 28		5.0					
Total	15 	50	27	28 50	28 50	56 100	19	34	53		
	00	00	100		00	100	10	07			

TABLE No. 9.

Shewing the Probational Discharges and the result thereof.

Reg. No.	Sex.	Initials.	Date di	of pro schar		nal	ן 	Cerm of bation		Result.
4634	м	CM	October	23rd,	1901		6	months		Returned here.
4034	M F	G M	44	31st,	1301			6.6		Discharged.
4369	⊢ M I	I.K	November	6th,	1901		6	4.6		Returned here.
+562	F	H.A	66	6th,	6.6	• • • • • •	2	4.6 4.6		Discharged
4536 4624	F	M.H. T.R	6.6	7th, 9th,	64		$\begin{vmatrix} 6\\ 2 \end{vmatrix}$	44	••••	Discharged.
4024	F M	F.W	6.6	13th,	6.6		6	4.4		66
4689	М	F.W J.B.	6.6	16th,	6 6			6.6		66
4634	M	G.M	6 6 6 6	23rd,	8.5 6.6	•••••	6	4.6 6.6	••••	5 G
4678 4579	M	I.D P.C.	December.	29th,		•••••		6.6	• • • • • •	Returned here.
3686	м F	A.W	6.6	17th,	+ 6		1	6.6		Discharged.
4691	M	A. W	6.6	20th,	66		6	4.6 4.6		Returned here.
4660	F	HS I		21st, 23rd,	6.6	• • • • •	$\frac{3}{6}$	4.4		Discharged.
4701 4677	M F	C.C. S.E.L.	6.6	23ru, 24th.	6.6	•••		6.6		Dischargeu.
3997	F	M.D	6.6	24th,	8.5			46		Returned here.
4728	M	J.D	January	10th,	1902			66		Discharged.
4669	F	M.A.McD	66	17th,		• • • • • •	6	64	• • • • •	6.6
4716 4705	F M	H.R.A	February	21-t, 1st,	8.6	• • • • • • • •	<u>۲</u>	66		6.0
4535	F	B.M	44	10th,	6.6			46		Returned here.
4713	F F	S.R	March	4th,	6 6 6 6		6	6.6 6.8		64
4724	M	W. N. A S. E. F	* 6	7th, 27th,		• • • • •	$\begin{vmatrix} 6 \\ 3 \end{vmatrix}$		• • • •	Discharged.
4757 4665	F	M.B	6.4	27th,	64	• • • •	3	6.6		"
4683	Р М	R.C	6.6	28th,	6.6		3	**		Returned here.
4107	M	J K	6.6	-31st,	6.6 6.6		2	64 6.6		Discharged.
4661	M	A.D	April May	12th, 8th,			3	66		6.6
4638 4722	F F	A.M. M.J.A	1412 Y	10th,		•••••	2	6.6		6.6
4762	F	T.P.	64	19th,	6.6		3	6.6		16 66
4589	F	A. McC	() T	23rd,			3	1 L L		
4715	F	E.P	June	2nd, 3rd,	66	• • • • • •	3	¢ 4		Returned here.
$4738 \\ 4784$	M	J.F. T.F.P	6.6	11th,	6.6			56		Discharged.
4447	M	H.J	6.6	14th,	+ 6		6	6 e e		Still out.
4725	F	E R	6.6	18th,	6.6 6.6	• • • • • •	3			Discharged.
4671	М	R N	July	21st, 2nd,		••••	$\begin{vmatrix} 3 \\ 1 \end{vmatrix}$			Returned here.
$\begin{array}{r} 4569 \\ 4758 \end{array}$	M	W H P.J.M	5019	3rd,			-	6.6		Still out.
4751	F	M.S	6.6	12th,	6.6		2	52		Discharged.
3040	M	W.A.L	6.6	16th,		• • • • •				Still out, Discharged
4717	F	A.H	44	18th, 19th,		• • • • • •	3			Discharged.
$\frac{4752}{4398}$	F M	L.W J.McK	6.6	22nd,	6.6		3	6.6		Still out.
4761	M	J.F	4.4	-28th,	**		4			4.6
4279	M	A.B M.O.R	1.6 A	31st,		• • • • • •	1		••••	Discharged.
$\begin{array}{r} 4785 \\ 4746 \end{array}$	F		August	4th, 6th,			$ \frac{1}{2} $			if the second se
4746	г F.	L.D E.M.B	**	9th,	66		1 5	\$ 6	••••	Still out.
4813	F F F F	C.H		13th,	66		2	**	• • • • • • •	Returned here.
4692	M	J.E	66	18th,		• • • • •	3		•••••	Still out. Returned here.
$\frac{3863}{4546}$	F F	M.M	Septembe	30th, r 1st.					• • • • • •	Still out.
4721	<u>F</u>	S.L	1 . "	2nd	44		3	44		46
4715	F	E.P. W.NA	66	5th,	4.6		1 2			**
4724	M	W.NA	64	12th) III	• • • • • •	$\frac{1}{2}$			46
4685 4820	F	L.Z.H M.P	6.6	17th, 20th,				6.6		26
4811	F	E.M.K	66	27th	+4		2	66		66
4838	F	I.W	66	29th	,				••••	66
4836	F	E.R		29th		••••	2			
-	1	1	1							

SUMMARY OF PROBATIONAL DISCHARGES.

					Females	
Number to whom probational leave was granted Discharged, recovered			27	27	36	63
"improved	1	2	3			
Died before expiration of leave	• • • • • • • • •			••••		
Returned to Asylum	8	8	16			
Absent on probation on 30th September, 1902	8	9	17	• • • • • • • • •	***	

TABLE No. 10.

Shewing in quinquennial period the ages of those admitted, recovered and died during the year.

_					Admitted	•	I	Recovered	l.		Died.	
	Agea	r. 		Males.	Females	Total.	Males.	Females	Total.	Males.	Females	Total.
Fro	m 10 to 15	year	8									••••
6.6	15 to 20	£ 6		2	3	5						
6.6	20 to 25	6 4		5	8	13	4	1	5		1	1
**	25 to 30	"	• • • •	9	7	16	5	6	11	2	1	3
4.6	30 to 35	6.6	•••	5	9	14	2	3	5	1	1	2
4 4	35 to 40	4.4	••••	11	12	23	2	7	9	5	2	7
46	40 to 45	6 6		6	10	16	4	1	5	4	6	10
66	45 to 50	6.6	••••	4	7	11	1	3	4	2	2	4
**	E0 to 55	6 4	•••••	4	6	10	4		4		••••	••••
66	55 to 60	66	••••	8	5	13	3	2	5	3	5	8
4 4	60 to 65	6.6	• • • •	5	3	8	2	1	3	4	4	8
4.6	65 to 70	6 6	••••	4	4	8	1	1	2	2	4	6
4.6	70 to 75	46		2	5	7	1		1	1	3	4
4.6	75 to 80	**	••••	4	3	7 •				2	4	6
4.5	80 to 85	6.8		••••	2	2				2	1	3
*4	85 to 90	6.8	••••	••••			••••					
46	90 to 95	66					•••••					
Unl	known			•••••						••••		• • • • • • • • •
	Totals		•••	69	84	153	29	25	54		34	62

Periods.	Duration of insanity prior	ength of residence of those remaining in 30th Sept.	Periods of treatment of those who were discharged during the year.					
	to admission.	Length of dence of remainir A a y l u 1 30th Sep	Cured.	Improved.	Unimproved.			
Under 1 month From 1 to 2 months " 2 to 3 " " 3 to 4 " " 5 to 6 " " 5 to 6 " " 7 to 8 " " 10 to 11 " " 11 to 12 " " 12 to 18 " " 18 months to 2 years " 2 to 3 years " 2 to 3 years " 18 months to 2 years " 2 to 3 years " 5 to 6 " " 5 to 6 " " 10 to 11 " " 11 to 12 " " 12 to 18 " " 18 months to 2 years " 2 to 3 years " 2 to 3 years " 5 to 6 " " 15 to 20 " " 20 years and upwards Not stated	$27 \\ 18 \\ 16 \\ 13 \\ 4 \\ 5 \\ 5 \\ 3 \\ 1 \\ 1 \\ 10 \\ 6 \\ 4 \\ 5 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 6 \\ 1 \\ 1 \\ 1 \\ 1$	$\begin{matrix} 10\\ 9\\ 8\\ 9\\ 9\\ 9\\ 16\\ 10\\ 9\\ 21\\ 5\\ 5\\ 7\\ 33\\ 31\\ 59\\ 55\\ 41\\ 52\\ 45\\ 36\\ 33\\ 57\\ 151\\ 113\\ 189 \end{matrix}$	1 2 3 3 1 2 2 6 2 4 4 2 9 6 1 2 9 6 1 2 2 1 1 1 2 2 		1			
Totals	153	1,013	54	13	5			

TABLE No. 11.

TABLE No. 12.

Shewing the nature of employment and the number of day's work performed by patients during the year.

	No. of	Days worked.				
Nature of employment.	patients who worked.	Male.	Female.	Total.		
Carpenter shop	10 4 2 8	2,853 1,234 606 2,339		2,853 1,234 606 2,339		
Blacksmith's shop Mason work. Repairing roads	5	1,245	· · · · · · · · · · · · · · · · · · ·	1,245		
Wood yard and coal shed Bakery Laundry	· 2 5 30	$ \begin{array}{r} 608 \\ 1,421 \\ 2,965 \end{array} $	6,551	608 1,421 9,516		
Dairy Butcher's shop and slaughter house Piggery	2 ₹	151 1,561		151 1,561		
Painting	3	897		\$97		

	No. of	Days worked.				
Nature of employment.	patients who worked.	Male.	Female.	Total.		
Farm Garden Grounds	47 67	$11,554 \\ 16,900$	· • • • · · • • • • •	11,554 16,900		
Stable Kitchen Dining rooms.	$\begin{array}{c}11\\26\\52\end{array}$	3,599 2,549 7,368	6,726 9,399	3,599 9, 27 5 16,767		
Officers' quarters. Sewiog rooms . Knitting	62 24	• • • • • • • • • • • • • • •	13,866 6,048	13,866 6,048		
Wending	10		1,354	1,354		
Halls. Storeroom General	358 3 156	56, 2 05 463 23,673	61,599 14,516	$117,804 \\ 463 \\ 38,189$		
Total	892	138,191	120,059	258,250		

TABLE No. 12.—Continued.

TABLE No. 13.

Shewing the Counties and Districts from which the patients remaining in residence on the 30th September, 1902, were originally received.

Counties and Districts.	Males.	Females.	Total.
Algoma District. Brant. Brant. Bruce. Carleton Elgin Essex Grey Haldimand Hastings Huron Kent. Lambton Middlesex. Norfolk Ontario Oxford Perth. Simcoe. Victoria Waterloo Wellington Wentworth. York. Not classed, unknown, etc.	$ \begin{array}{c} 1 \\ & 46 \\ & 36 \\ & 31 \\ 1 \\ & 55 \\ & 116 \\ & 46 \\ & 49 \\ & 1 \\ & 2 \\ & 2 \\ & 1 \end{array} $	$\begin{array}{c} & & & & \\ & & & & \\ & & & & \\ & & & & $	$\begin{array}{c} 1\\ 4\\ 90\\ 1\\ 79\\ 72\\ 2\\ 1\\ 112\\ 85\\ 104\\ 268\\ 1\\ 1\\ 82\\ 86\\ 2\\ 1\\ 82\\ 86\\ 2\\ 1\\ 6\\ 4\\ 2\\ 6\\ 2\\ 1\\ 6\\ 4\\ 2\\ 6\\ 2\\ 1\\ 6\\ 4\\ 2\\ 6\\ 2\\ 1\\ 6\\ 2\\ 2\\ 1\\ 6\\ 4\\ 2\\ 6\\ 2\\ 2\\ 1\\ 6\\ 4\\ 2\\ 6\\ 2\\ 2\\ 1\\ 6\\ 2\\ 2\\ 1\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$
Total	486	527	1,013

Asylums.
other
$_{\rm to}$
transferred
Patients

TABLE No. 14.

	Asylum	transferred to.	Oobourg	Hamilton
	Occupation.		Dom. Servant. Housewife Dom. Servant. Housewife Domesvife Home Duties. Domestic Domestic Servant Domestic Servant Pousewife Bore Duties. Roue given Domestic Borvant Pousewife Housewife Housewife Servant Servant Housewife Housewife Housewife Housewife Housewife Housewife Housewife Housewife Housewife Housewife	Servant Housewife Spinster
Admitted by		Certificate.		:
Adı	}	Warrant.		A
ity	o i	.еяке.	10 10 10 10 10 10 10 10 10 10 10 10 10 1	
Duration of ineanity	prior to admission.	Months.	m	12
, D	adn	Years.	ตุ เลือน พ.พ.พ. พ.ศ. พ.ศ. พ.ศ. 1988 (พ.ศ. 1988)	3
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Social state.		to beirteM bewobiw		-
18.	-100	Other deno nations.		-
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Religious Denomina- tions.	•11	Presbyteris		1
igiou	holic.	taO namoA		
Rel		fo dorred of Basisad.		-
		Other conn		
		atS betiaU		
ality		Scotch.		- : :
Nationality.		Irish.		
Z		English.		: : :
ŀ		.naibanaD		
	County originally admit- ted from.			Huron Brace
نر		Female.	Azzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz	: : :
Sex.		.elsM		
		. 6 8 A	22222333333~8533245253235853333333333333333333333333	61 49 26
	Initials of persons	trånsferred.	ААК М. W.	H.A. T. G.S.

THE REPORT OF THE INSPECTOR OF

No. 38

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TABLE No. 15.

Number of articles passing through Laundry during the year ending September 30th, 1902.

Article.	Number.	Article.	Number.
Aprona Dresses. Skirts. Drawers Chemiaes Flannel Chemises Night Dresses Waiats. Handkerchiefs Capa Collars Cuffs, prs. of Necktiea. Sbawls Jackets Fichus Guernseys Mitts, prs. of Stockinga, prs. of Stock	$\begin{array}{c} 27.157\\ 15,441\\ 11,979\\ 23,574\\ 43,275\\ 6,801\\ 15,406\\ 3,175\\ 8,943\\ 437\\ 6,808\\ 5,215\\ 759\\ 1\\ 2\\ 1,370\\ 40,172\\ 5\\ 19,461\\ 21,674\\ 29,436\\ 5,784\\ 1,586\\ 2,355\\ 2,355\\ \end{array}$	Sheets. Blankets Quilts. Canvas Quilts. Pillowshams Pillows. Pillowsips. Bolsterslips. Bolsterslips. Mattresses. Ticks. Towels Bureau Covers Sideboard Covers Tray Covers. Table Cloths. Table Covers Table Covers. Curtains and Blinds. Laundry Wrapa and Bags. Carpet, pieces of Carriage Lap Robes Pudding Cloths.	$\begin{array}{c} 99,719\\ 8,834\\ 7,922\\ 72\\ 1,600\\ 42\\ 319\\ 59,184\\ 157\\ 81\\ 3,239\\ 64,425\\ 1,178\\ 256\\ 17,408\\ 479\\ 4,198\\ 479\\ 476\\ 1,410\\ 18\\ 27\\ 2,425\\ \end{array}$
Vests	633 54	Total	568,081

TABLE No. 16.

Articles made and repaired in the wards during the year ending September 30th, 1902.

	Made.	Repaired.	M	ade.	Repaired.
Dresses	2,671	2,705	Sofa Pillow Covera	71	
Dresses, Uniform		18	Embroidered Covers	6	
Skirts	275	1,335	Blanket Rugs	48	
Aprons		736		10	109
Aprons, Uniform	248	58		208	1,238
Chemisea	1,257	1,929		324	
Flannel Chemises		367	Dismission	4	492
Nightdresses		425		123	
Drawers	436	1,198	Towels	785	• • •
Shirts		1,549		368	• • • •
Flannel Shirta	93	336	Table Covers	19	••••
Caps, Women's	70	000	Table Napkina	12	• • • •
Coats	10	660	Table Napkila	10	****
Pants.		893	Tray Cloths Sideboard Covers	10	
Vesta	• • • •	337		48	
		127	Bureau Covera	10	
Guernaeys	9		Drapes for Windows, etc		• • • •
Waists	384	••••	Curtains	76	
Necktiea	204	9 100	Bags	38	
Socks, prs. of		3,106	Cushion Covers	8	
Stockings, prs. of		1,272		908	
Bibs			Chairs Cane Seated		6
Sheets		207		0.00	
Pillowalipa	1,211	53	Total 16,	838	19,055
Pillowshams	175	• • •			
Pillowticka					
Pillows	180	* * *	Rags prepared for rag carpet	. 469	yards rag
Sofa Pillows	48		carpet made.		

TABLE No. 17.

Articles made and repaired in Tailor's Shop during the year ending Sept. 30th, 1902.

TABLE No. 18.

Amount of work done in Shoemaker's Shop during the year ending Sept. 30th, 1902.

Men's boots made 1 prs. "shoes "1" "" Women's " ""1" "" Men's slippers. ""16" ""	Mitts made 8 prs. Belts " 2 Waterproof aprone " 2 Cushion for cart " 1 2 mail bags repaired. " 1
Total	2 razor strops cut. 6 rubber sheets eyeleted. Some repairs to harness, mitts and suspenders.

TABLE No. 19.

Articles made in Tinsmith's Shop during the year ending Sept. 30th, 1902.

A large amount of tinware repaired.

TABLE No. 20.

Articles made and repaired in Sewing Room during the year ending Sept. 30th 1902.

Dressees. ''Uniform	Made. 33 54 7 4 4 2 66 1 3 3 3 3	Repaired.	Table cloths Table napkins Pillow ticks Pillows Carriage and sleigh covers. Quilts Blankets Outhlon covers Pndding cloths Burean covers Pillowshams	Made. 2 12 176 14 19 4 37 8 2	Repaired.
Skirte				8	
Shirts Flannel shirts	3 	154	Carpets	1	ï
Socke (pre. of) Stockings (pre. of), flannel	ï	11	Footstools covered Tea bags	5 14	••
Drawers " Ticks	2 166	170	Curtains	13	•••
Shronds Towels	63 24	• •	Total	741	1,741

50

TABLE No. 21.

Amount of Knitting done in Wards during the year ending Sept. 30th, 1902.

Stockings		MACHINE KNITTING.
Socks Refocted socks Mitts	381 " 337 "	Stockings 627 pairs Socks 952 Total 1,579 pairs
Total	974 pairs	

TABLE No. 22.

Yield of the asylum farm by acres was as follows :

Hay 35 acres 74 tons.	Ensilage
Straw	Potatoes
Oats 34 acres 1,972 hush.	Mangolds
Corn in cob	

Yield of Trebilcock farm by acres as follows :

Oats 5 acres	210 bush.	Corn	
Straw	6 tons.	Millet for pasture 25 "	
Potatoes	1,350 bush.		

The yield of the main garden at the asylum was for the year just ended as follows :

Asparagus 5,905 bunches	Spinach 332 bushels
	Sea kale beet 132 "
Beets	TOTTATOES 400
" 1,080 busbels	Turnips, swede 300 "
Cabhage 13,963 heads.	"white garden 1,657 bunches
⁴⁴ pickling 470 ⁴⁴	Vegetable marrows 337
" kale 1,085 "	· · · · · · · · · · · · · · · · · · ·
	Fruit.
Caulinower	
Carrots 5,070 bunches	Apples 900 bushels
** 856 bushele	" crab 129 "
Celery 7,800 sticks	Currants, red 2,553 quarts
Corn, sweet 2,976 dozens	** black 320 **
Cucumbers	Cberries 112 "
Oucumhers, pickling	Gooseberries
Undernandish 150 househow	
Horseradish 150 bunches	Plums 24 pecks
Lettace 1,049 dozens	Pears
Onions, green	Peaches 1401 "
" dried 825 bushels	Raspberries 885 quarts
" pickling 1,224 quarts	Strawberries
Parsnips	
Peas, green, in pod 1053	Herbs.
Peppers, large	Sage 350 bunches
cayenne	Savory 600
Potatoes, early 586 bushels	Thyme 200 "
Radish, garden 1,280 bunches	Mint 150 "
Rhubarb 5,435 "	Parsley 150 "
Salsify 1,130 "	

Grown for use in the ornamental grounds and for decorative purposes, 5,552 greenhouse plants, 51,505 bedding plants, 26,435 annuals raised under glass.

The crop grown on the sewage field was as follows :

Asparagus $2,056$ Beans $142\frac{1}{2}$	bushels "	219 bushels
Cabbage	beads Peas	1901 **
Celery 7,092	sticks Rhubarb, forced	2,789 bunches
Oucumbers 1,751		39 **
Lettuce, forced 1,189		1,021 quarts
Lettuce 1,168	" Sea kale	1,268 bunches
Melons, musk 459	Tomatoes	17 bushels
" water 45		-

TABLE No. 23.

Return showing the maintenance of fifteen horses :

Kinds, luantity and value of food consumed: 77,100 lbs hay \$ 328 39	Shoeing for the year \$ 118 81 Stableman's wages for the year 216 00
2,430 bush. oats	Total cost of stable
8,000 lbs, ensilage corn 6 00	Average cost per animal per annum 102 66

TABLE No. 24,

Return showing quantity and cost of milk produced :

Number of cows on farm	41 41	Cov
" " in milk	- <u>94</u>	g
Daily average number quarts per cow Total number of quarts produced	143.901	
Total number of quarts produced	130,001	
Quantity and value of food consumed :		Ľ
Quantity and value of food consumed .		Bot
50,900 lbs. corn chop	330 85	Sol
8,000 " bran	77 80	
	271 45	
255,000 " ensilage corn	190 14	
426,960 " mangold wurzels	498 12	Cos
Pasture	300 00	Ma

Cowman's wages (half charged to pig- gery)\$ 156	00
\$1,824	36
Dr. To exchange of dairy stock, viz.:	
Bought 36 cows for \$1,481 00	
Sold 36 " 1,470 20	
10	80
\$1,835	
Cost per quart to produce milk Maintenance per animal per annum 44	1 1 50

TABLE No. 25.

LONDON ASVLUM.-Farm Exchange Account for the year ended 30th September, 1902.

ບໍ ຫຼ	1, 30,00 20,00 21,0,00 25,3,85 26,00 26,20	1,645 01	337 62 8 00 70 00 55 00 110 47 110 47 110 47
Receipte.	R. Hill	1,6	1. By balance 2. By Cash from S. Butterfield 2 pullets at \$3 each 2. By Cash from S. Butterfield 2 pullets at \$3 each 2. W. Dawn 1 fanworth boar 2. W. Bignall 1 onl 2. W. Bignall 1 cow 3. W. Bignall 1 cow
1901.	October 1By balance 22By each from Nov. 21 Nov. 21 Dec. 7 i. 13 i. 31		January January
ు ఈ	55 60 65 60 65 60 65 60 65 80 65 80 65 80 66 80 85 80 85 80 85 80 86 80 87 80 86 80 87 80 87 80 87 80 87 80 87 80 87 80 87 80 87 80	1,645 01	39 00 120 50 98 00 35 25 25 00 23 10 18 75
Disbursements.	 G. Millson. W. F. Hisoott duty on clarionette W. Needham Hurston A. M. Hamilton A. M. Hamilton A. M. J. Craig. J. A. M. Achthur J. A. Cornish J. A. Mecham J. A. Cornish J. A. Mecham J. D. Sounby J. D. Mchathur J. D. Sounby J. J. Chaire J. J. Sounby J. J. Chaire J. J. D. Sounby J. J. Chaire J. J. M. Jones J. J. Chaire J. J. J. Chaire J. J. J. J. Chaire J. J. J. Chaire J. J. J. Chaire J. J. J. Chaire J. J. J. C	5	d Peter Irnlay1 milch cow T. Dexter & Sonbran and shorts J. D. Saunby bran M. Scarrowfarm harnees Thes. Trebilockmanure A.M.Hamilton & Son, chicken feed Jas. Andersonoutting ice
1901.	October 2. To cash paid C. Millson 19. W. E. Histon. 26. W. E. Histon 26. M. Hamilto 26. H. Belton 26. M. J. Craig W. J. Craig Novber 7. A. McAthh 15. J. A. McAthh 16. J. A. McAthh 19. J. Canish 19. J. Ostonish 19. J. Soundy 19. J. D. Soundy 19. J. D. Soundy 27. W. Stevely & S 27. W. J. Cornish 19. M. J. M. Hartiton 19. J. D. Soundy 27. W. Stevely & S 27. W. J. M. Stevely & S 27. W. Stevely & S 27. W. J. M. Stevely & S 27. W. Stevely & S 27. W. Stevely & S 27. W. J. J. J. Saundy. 28. M. Stevely & S 29. M. J. J. J. Saundy. 20. M. J. J. J. J. Saundy. 20. J. J. J. Saundy. 20. J. J. J. J. J. J. J. Saundy. 20. J.		 Febriy 7 To cash paid Peter Irnlay. Febriy 7 To cash paid Peter Irnlay. 18

LONDON ASYLUM-Farm Exchange Account for the year ended 30th September, 1902.-Concluded.

o Ø	12 00 7 50 8 60 3 60 3 60 5 00 10 00 328 00 328 00 328 00 231 96 231 96 20 328 10 1,140 58 1,140 58	427 68 225 69 26 69 26 64 26 65 26 64 26 65 26 6	1,886 81
Receipta.	 3 By cash from Brockville Asylum. 12 baskets at \$1 7. Oby Gaadusen 16 loads ice at 50 7. Oby Gaadusen 16 loads ice at 50 0 B. Lawson 1 10 do do 1 10 do do 1 10 do do 1 10 do do 3. Butterfield 4 cockrells at \$1. 8 Minenance act pork. 	1. By balance 1. By balance 5. By cash from Jas. Conreey 64 loads of ice at 50c. 5. A. B. Donglas 10 bush seed oats at 60c. 8. R. Hunter. 3 dry cows 9. Maintenance 3 dry cows 4. Thos. Flannagan. 3 fat cattle, 3,000lb at 4c. 7. Toos. Flannagan. 1 fat cattle, 4,556lb at 4c. 7. Toos. Flannagan. 1 fat cattle, 4,556lb at 4c. 7. Maintenance 1 fat cattle, 4,556lb at 4c. 7. Maintenance act. 1 fat cattle, 4,556lb at 4c. 7. Maintenance act. 1 fat cattle, 4,556lb at 4c. 7. Maintenance act. 1 pig. 7. Maintenance act. eggs.	F II
1902.	March 3By cash 7 7 1 7 1 7 1 7 1 1 1 1 1 1 1 1 2 8 2 8 2 8 2 8 2 8 2 8 2 8 2 8 2 8 2 8	April 1By balan 4By cash f 5By cash f 4By cash f 4By cash f 4By cash f 4By cash f 5 May 14 5 14 5 14 5 14 5 14 5 14 5 14 5 14 5 14 5 14 5 14 5 14 5 5 14 5	
ं अन्	$\begin{array}{c} 18 & 30 \\ 10 & 00 \\ 2 & 50 \\ 1 & 10 & 00 \\ 3 & 3 & 00 \\ 3 & 3 & 00 \\ 3 & 3 & 00 \\ 3 & 3 & 00 \\ 1 & 12 & 00 \\ 1 & 140 & 50 \\ 1 & 140 & 58 \\ 1 & 140 & 58 \\ \end{array}$	228 230 20 20 20 20 20 20 20 20 20 20 20 20 20	764 62 1,886 81
Disbursements.	sash paid Geo. Heaman repairing waggons	 ⁵. To cash paid T. Orman ⁵. H. McMeehan ⁷. H. Killies & Son chicken feed ⁷. W. Shevely & Son as welust ⁷. W. Shevely & Son as avoins a strong bipes, etc. ⁷. London Box Mig Co. sawdust ⁷. J. Cowan & Co. ⁸. J. Cowan & Co. ⁸. J. Dekter & Son ⁹. J. Cowan & Co. ⁹. J. Paster & Son ⁹. J. Paster & Son ⁹. J. M. Hamilton & Sons, chicken feed ⁹. J. W. H. and Dones and polish. ⁹. A. M. Hamilton & Sons, chicken feed ⁹. Y. P. Dayan ⁹. A. M. Hamilton & Sons, chicken feed ⁹. Y. H. Dayman ⁹. M. Hinthan & Son, chicken foots. ⁹. W. H. Dayman ⁹. M. Hanglion & Son, chicken foots. ⁹. G. Gammage & Son ⁹. Reden tools, etc. ⁹. Geo. Taylor & Son ⁹. Reden tools, etc. 	10
1902.	Febr'ryl8 To cash paid Geo. 18A. G 18 W. 1 W. 18 W. 1 W. 18 W. 18 March 3 B. A. Geo. 17 17 19 100 100 100	April 5. 70 May 7. 77 May 7. 77 June 16 288 288 288 288 16 16 16 16 16 16	

764 02 33 18 33 18 7 75 7 75 9 20 8 7 75 9 3 9 60 3 9 60 3 9 60	1,480 42	466 76
July 1 Py balance (30) By cash from Maintenance act eggs (30) By cash from Maintenance act eggs (30) By cash from Maintenance act (14) baskets (15) (15) (14) baskets (15) (15) (14) baskets (15) (14) (14) baskets (15) (14) (14) bask (14) (14) (14) bask (14) (14) (14) bask (15) (16) (15) bask (15) (16)		October 1By balance
Angu		Octo
85 8 9 9 8 8 9 8 8 8 8 8 9 8 8 8 8 8 8 8	1,480 42	
Inly 8. To cash paid Thos. Trebilocck manure II M. Scarrow II J. Cowan & Co. II J. Cowan & Co. II J. Cowan & Co. II J. M. Hamilton & Son, chicken feed II J. M. Hamilton & Son, chicken feed July 22 Bamuel Duffin I milch cow July 22 Geo, Heanan I milch cow July 22 J. Johnston I milch cow Zon V. A. Cook I do Pos. Dawson I do Do Zon J. Samby Sabrts Zon M. Hamilton & Son, cicken feed Zon Zon M. Wind Eng Son, cicken feed Zon Dok. Wind Eng Son, cicken feed Zon Dok. Wind Eng Son, cicken feed Zon M. Hamilton & Son, cicken feed Zon		

ANNUAL REPORT OF THE MEDICAL SUPERINTENDENT OF THE ASYLUM FOR THE INSANE, KINGSTON, FOR THE YEAR ENDING SEPTEMBER 30TH, 1902.

Kingston, October 1st, 1902.

To Robert Christie, Esq.,

Inspector of Asylums, Ontario :

Sir,—In accordance with the statutory requirements, I have the honor to submit the forty-seventh annual report of this hospital (the twenty-fifth since it became a Provincial Institution), for the year ending September 30th, 1902.

			1		1	1
—	Male.	Female.	Total.	Male.	Female.	Total.
There were in residence, October 1st, 1901 Admitted during the year : By Lieutenant-Governor's Warrant		5 50	18 82	45	55	100
Total number under treatment during the year Discharges during year: As recovered	12 5 1	17 9 4	29 14 5	357	342	699
Total number of discharges during year Died Eloped Transferred	18 17 3	30 30 	48 47 3 12			
Remaining in residence, September 30th, 1902 Number of applications on fyle	 			38 319	72	1 10 589

The longer one remains in charge of a Hospital for the Insane, the more does he hesitate about sending forth an annual report, knowing that the statistics given convey so little of the real truth to the readers of blue books. Even for the sake of comparison, many of the figures are of little value, as the point of view of those who make them up is not always the same.

Take, for example, the question of recoveries. There seems to be a good deal of difference of opinion in regard to what constitutes a recovery from mental disease, and it is not always the institution furnishing the largest percentage of recoveries that is doing the best work, simply because the term "recovery" is so frequently misapplied. The table supposed to show the causes of insanity is apt to be the most misleading of all, because it is compiled from data furnished largely by the friends of patients, who, naturally, are governed by a desire to hide family skeletons, rather than to furnish scientific facts. In this way we are prone to underestimate the part heredity plays in the evolution of insanity, to overlook the physical basis of disease, and perhaps exaggerate the moral causes, which, after all, are usually only a part of the story in the development of insanity. Then, too, the confusion resulting from the mixing up of predisposing and exciting causes makes this intricate table more hopeless than ever. As it is generally adopted, though, we are forced to accommodate ourselves to the exigencies of custom, and endeavor to make the return conform as nearly to

the truth as is possible. No one pretends for a moment, though, that it is accurate, because we realize that it is not based upon facts, but largely upon supposition and vague theory,—for which we are not responsible.

Admissions, Discharges, Deaths, Etc.

Eighteen of the one hundred patients admitted came from the gaols, a proportion infinitely smaller than it would have been a few years ago, and yet far too large. Possibly the necessity for confinement in gaol did not exist in a single case, but until the counties become directly responsible for the maintenance of their indigent insane, the Warrant system will continue to be misapplied. It is the custom in some quarters to find fault with the Government for the evils which come out of the Warrant system; and yet those to blame are the local authorities. One would think, for example, that it must indeed be a remarkable case necessitating gaol care, in a town or city in which a Hospital for the Insane existed, and yet even acute cases find their way there without the slightest reference to the Hospital authorities for aid. No matter how full the wards, our doors are never closed to a really urgent case, and yet we are helpless when a patient is once incarcerated in the gaol,—the usual round of official procedure must be gone through.

This does not make much difference perhaps to some of the chronic dements, but when patients suffering from acute disease are thus detained, the consequences are apt to be serious. Five women were admitted from the gaols. In not one of these cases was confinement in a prison called for.

The recoveries were almost as numerous as usual, and the percentage, when the character of the admissions, is considered, very gratifying. (

The death rate was unusually large, but when it is remembered that thirteen of those who died had passed the allotted three score years and ten, the reason of the large death rate is plain. General Paresis and Phthisis were prominent, too; in fact the former disease is apparently on the increase in this district. When we learn that the specific disease, which in a great majority of cases of General Paresis, has determined its evolution, is much more prevalent than formerly, the reason why is evident.

One regrettable suicide occurred, the first in many years. The details of this tragedy were fully reported to you at the time of its occurrence. The Coroner and County Attorney, who fully investigated the facts at the time, deemed an inquest unnecessary, as it was plainly apparent that negligence had not been shown by the night nurse in charge. I may say, though, that I am by no means satisfied with the arrangements for night nursing, and hope, with your concurrence, to establish a much more advanced system than that in vogue at present. This question of night nursing is receiving much attention in Great Britain, and I fully concur with the opinion expressed, that just as much care should be given to intelligent night nursing as to day nursing. With our staffs as at present constituted this is impossible, and the few nurses left on duty at night have their hands more than full watching the suicidal, and caring for the troublesome ones, without doing all that should be done for the acute cases.

The plan of having an officer on duty at night, preferably a woman who is a trained nurse, to supervise a staff of nurses large enough to accomplish all that should be done is an excellent one, and when the Home for Nurses is established, 1 trust that we may be permitted to carry this suggestion into effect.

Nursing of the Tuberculosis.

The evils of having tuberculous patients in the general wards are

sufficiently apparent without going into detail. Ordinarily we have isolated as many as possible in Beechgrove Hospital. This summer we went a step further, and had a large tent erected for tuberculous men. The results were most gratifying, because we were able to isolate these patients, and to benefit their physical health in such a marked degree.

Coal Supply.

As we burn hard coal very largely in our furnaces, the coal strike in the United States appeared likely to prove a serious matter.

The contractors were auxious to fulfil their obligations, but were unable to secure the anthracite required. They agreed, however, to furnish as large a quantity of soft coal screenings as possible, and, by being very careful of the hard coal left over from last year, we hope to be able to manage until the opening of navigation. It will be necessary, though ,to provide for a fresh supply of fuel much earlier in the new year than is usually done.

Farm.

Farming operations have been fairly successful, although the corn for ensilage failed almost completely. It is a question if it would not be a paying investment to purchase more land, as we could cultivate a larger tract with advantage and economy.

Boilers.

The two new boilers (100 h.p. each), being installed, will prove of great usefulness, as the old boilers were becoming unsafe. It is to be hoped that a third new boiler will be placed in position at an early date. This is required to make the plant complete, and as efficient as it should be in order to do the work required.

Home for Nurses and Convalescents.

The request made last year for a Home for Nurses and Convalescents was adopted, and before the end of this season we hope to see the roof on a building that should be an ideal one for the purpose designed. It has been placed between Beechgrove Hospital and Rockwood, and, although a late start was made, rapid progress is now being made with the stone work.

Changes on Staff.

Several changes have taken place on the staff. Miss Frances Wilson, trained nurse, resigned in September, 1901. She has been replaced by Miss M. Thompson, a graduate of the Toronto Sick Children's Hospital School for Nurses.

Dr. J. M. Forster, who was Assistant Superintendent for eight years, was transfered to the Assistant Superintendency of Mimico Asylum on July 1st, 1902, and was replaced by Dr. W. C. Barber.

Dr. Forster had been so intimately associated with the workings of Rockwood for so many years, that his departure was regarded with deep sorrow by his numerous friends here. He is certainly a painstaking and devoted officer, and no doubt will be as successful in his new field of work as he was here.

> I have the honor to be, Sir, Your Obedient Servant,

> > C. K. CLARKE, Medical Superintendent.

No. 38

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ANNUAL STATISTICAL REPORT

Of the operations of the Asylum for the Insane, Kingston, for the year ending 30th September, 1902.

TABLE No. 1.

Shewing movements of patients in the Asylum for the official year ending September 30th, 1902.

				[
	Male.	Female.	Total.	Male.	Female.	Total.
Remaining, October 1st, 1901				312	287	599
Admitted during year :						
By Lientenant-Governor's warrant	13	5	18	•		
By medical certificate	32	50	82			
				45	55	100
Total number under treatment during year				357	342	699
Discharges during year :						
As recovered	12	17	29			
As improved	5	9	14		1	
As unimproved	1	4	5			
Total number of discharges during year	18	30	48			
Died	17	30	47			
Eloped	3		3			
Transferred		12	12			
				38	72	110
Remaining in Asylum, 30th September, 1902	* * * * * * * *		* * * * * * * * *	319	270	589
Total number admitted since opening of Asylum .				1.952	1,658	3,610
" discbarged	762	680	1,442			
" died	591	457	1,048			
" eloped	49	1	50			
" transferred	231	250	481			
				1,633	1,388	3 ,021
" remaining, 30th September, 1902				319	270	589
No. of applications on fyle	*****	•••••	•••••	5	5	10

No. 38

TABLE No. 2.

Shewing the maximum and minimum number of patients resident in the Asylum, the total number of days' stay of patients, and the daily average number of patients in the Asylum, from the 1st October, 1901, to 30 September, 1902.

				Male	e. Fer	nale.	Total.
Maximum number of patients in rea Minimum """" Collective days' stay of all patients Daily average population	sidence (or '' (or in residen	n 1st Dec. n 10th Ap ce during	, 1901 ril, 1902. year	. 3 . 114,1 . 312		288 269 11,345 277.6	599 582 215,491 590,3
	Adm	issions of	year.	Total	admission	s since oper	ing.
	Male.	Female.	Total.	Male.	$\operatorname{Female}_{\flat}$	Total.	Total.
Social state.							
Married	19	29	48	768	868	1,636	1,684
Widowed Single Not reported	26	26	52	1,139	735	1,874	1,926
Total	45	55	100	1,907	1,603	3,510	3,610
Religion.							
Presbyterians Episcopalians Methodists Baptists Congregationalists Roman Catholics Mennonites	3 11 17 1 10	8 12 16 15	11 23 33 1 25	286 399 368 34 9 617	260 293 373 35 3 542	$546 \\ 692 \\ 741 \\ 69 \\ 12 \\ 1.159$	557 715 774 70 12 1,184
Quakers. Infidels Other denominations Not reported	3	 3 1	3 4	143 46	78 19	226 65	229 69
Total	45	55	100	1,907	1,603	3,510	3,610
Nationalities.							
English Irish Scotch Canadian United States Other countries. Unknown	4 2 37 2	$ \begin{array}{c} 6 \\ 7 \\ 1 \\ 39 \\ 1 \\ 1 \\ \dots \end{array} $	10 9 1 76 3 1	$164 \\ 305 \\ 81 \\ 1,203 \\ 19 \\ 61 \\ 74$	99 273 83 1,030 19 29 70	263 578 164 2,233 38 90 144	273 587 165 2,309 41 91 144
Total	45	55	100	1,907	1,603	3,510	3,610

TABLE No. 3.

Shewing the Counties from which patients have been admitted up to 30th September, 1902.

	1					<u> </u>	
Counties.	Admit	ted durin	ig year.	Tota	Total.		
	Male.	Female.	Total.	Male.	Female.	Total.	
Algoma District Brant Bruce Carleton Dufferin		1	 1	3 6 3 200	$\begin{array}{r}2\\7\\6\\160\end{array}$	5 13 9 360	5 13 9 361
Daterin Elgin Essex Frontenac Grey Haldimand Halton Halton Halton Haitons Haiton Lambton Lamark Leanox and Addington Lincoln Nipissing Middlesex Muskoka District Northumberland and Durham Ontario Oxford Peel Perth Peterborough Prescott and Russell Prince Edward Rafrew Simcoe Stormont, Dundas and Glengarry Victoria. Waterloo Welland Wentworth York	11 15 5 5 2 5 1 1	11 10 10 1 9 	222 25 25 1 1 14 14 13 13 4 16	$\begin{array}{c} & & & & & & \\ & & & & & & \\ & & & & & $	$\begin{array}{c} & & & & \\ & & & & \\ & & & & \\ & & & & $	$\begin{array}{c} 7\\ 5\\ 613\\ 16\\ 13\\ 5\\ 250\\ 11\\ 2\\ 4\\ 244\\ 259\\ 231\\ 16\\ 1\\ 1\\ 4\\ 2\\ 12\\ 12\\ 12\\ 12\\ 42\\ 18\\ 5\\ 19\\ 22\\ 80\\ 0\\ 116\\ 194\\ 25\\ 275\\ 18\\ 15\\ 7\\ 19\\ 35\\ 275\\ 18\\ 15\\ 7\\ 9\\ 9\\ 35\\ 99\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9\\ 9$	$\begin{array}{c} & 7 \\ & 5 \\ & 635 \\ & 16 \\ & 13 \\ & 5 \\ & 275 \\ & 11 \\ & 2 \\ & 245 \\ & $
Not classed	45	55	100	204 1,907	48	252 3,510	252 3,610
1			i			l	

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TABLE No. 4.

Shewing the Counties from which warranted cases have been admitted up to 30th September, 1902.

Countles.	Admit	ted darın	g year.	Totz	Total.		
	Male.	Female.	Total.	Male.	Female.	Total.	
Algoma District Brant Bruce Carleton Dufferin Elgin				$3 \\ 6 \\ 3 \\ 166 \\ 3$	$\begin{array}{c}2\\7\\5\\125\\\cdots\\4\end{array}$	5 13 8 291 7	5 13 8 291 7
Eigin Essee Frontenac Grey Haldimand. Halton Hastings Huron Kent Lambton Lanark Leeds and Grenville Leenox and Addington Lincoln Middlesex	6	1 	5 	3 145 7 6 2 96 6 2 12 97 78 83 9 6	98 98 96 1 51 5 87 57 41 5 4	5 243 16 12 3 147 11 2 14 184 135 124 14 10	5 248 16 12 3 155 11 2 14 184 184 135 124 14 14
Muskoka District. Norfolk Northumberland and Durham Ontario Oxford Peel Perth Peterborough Prince Edward %. Renfrew Simcoe Stormont, Dundas and Glengarry Victoria. Waterloo. Welland Wellington. Wentworth York Not classed.			3 	7 45 18 14 4 10 8 41 25 48 12 111 5 11 11 5 11 11 6 4 4 33 27	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 12 40 17 5 19 16 65 40 68 23 184 17 15 10 8 25 83 34	$\left \begin{array}{c}1\\12\\98\\40\\17\\5\\19\\16\\65\\40\\69\\24\\18\\40\\17\\15\\11\\18\\8\\26\\83\\34\end{array}\right $
Total admissions	13	5	18	1,175	846	2,021	2,039

.

TABLE No. 5.

Shewing the length of residence in the Asylum of those discharged during the year.

			[
No.	Initials.	Sex.	,	When admitted.	,	When discharged.	Remarks.
—							-
$\frac{1}{2}$	F. C M. C. L	M	April	1, 1901 24, "	Oct.	2, 1901	
3	M. A. L	F	Sept. April	30, "	Nov.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	- D
4 5	T. M. D M. G	M F	June Aug.	18, '' 17, 1900	6 6 6 6	14, " 14, "	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6	C. E. M	F	June	2, 1899	ii Daa	15, ''	68
7 8	M. S J. J	M M	Aug. May	5, 1901 28, ''	Dec.	4, 4	
9 10	M. H. T B. J. K	F	Aug. Oct.	20, "	66 64	5, " 23, "	. Recovered.
11	0. G	F	July	4, 1899	5.5 6.1	26, "	
12 13	C. J J. C. C	F M	Jan. April	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	61	26, ** 28, **	
14 15	M. E. H	F	June	7, 1899	4.6 6.6	28, "	. Improved.
16	A. H. A. T. O	F F	Nov. Sept.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Jan.	3, 1902	Recovered.
17 18	M. K	M F	July Aug.	24, "	6 6 6	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
19	C. E. J	M	Feb.	19, "	6 8 5 8	22, "	. Improved.
20 21	R. G M. L	M F	Oct.	11, "	Feb.	24, ¹¹	Recovered.
$\frac{22}{23}$	B. C	Μ	Nov.	26, 1877 16, 1901	Mar.	15, "	
24	T. O E. F	F	Sept. Oct.	24, 1899	F+	8, 14	73 4
25 26	E. B N. B	F F	April May	29, 1897 8, 1883	4 E 5 E	$12, \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	1 11
27	E. C	F	Oct.	21, 1901	April	10, "	66
28 29	C. M	F F	April Feb.	2 8, 1886 1 3, 1899	6.6	10, '' 26, ''	• .
30 31	L. C R. M	F M	Jan. Feb.	2, 1902 24, ⁴¹	May	28, "	. Recovered.
32	0. S. K	F	Mar.	10, "	66	27, "	
33 34	M. W J. G	F F	May Feb.	13, " 10, "	July	9, " 11, "	
35	P. I	M	Nov.	30, 1901	14	21, "	4
36 37	E. R. W H K	F M	Feb. Feb.	15, 1899 28, 1902		- <u>22</u> , 11 - <u>28</u> , 11	T T T T
38 39	М. L L. C	F F	April May	23, "	"Aug.	31, "	
40	A. C	Μ	Sept.	17, 1901	44 Aug.	19, "	F6
41 42	E. M F. M	F M	Sept. Oct.	10, 1900	Sept.	23, "	Unimproved. Recovered.
. 43	A. M. E	F	April	11, 1902	44	18, "	. Unimproved.
45	M. B E. D. M	F F	June Mar.	12, "	6.6	30, "	11
46 47	W. L M. T	M	Feb. Feb.	17, "	5 B 5 4	30, " 30, "	66
48	E. H. F	F	Jan.	14, 1901	4.6	30, "	

TABLE No. 6.

Shewing age, length	\mathbf{of}	residence,	and	proximate cause of	death of	f those	who died	during the	
0 0 0 0				ng 30th September,				0	

									sidence Asylum		
No.	Initials.	Sex.	Age.	Date	e of d	leath).	Years.	Months.	Days.	Proximate cause of death.
$\begin{array}{c} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 9 \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ 8 \\ 9 \\ 20 \\ 12 \\ 22 \\ 22 \\ 22 \\ 22 \\ 22 \\ 22$	H. E. G E. M J. L F. P M. D J. C M. F W. D. B M. C S. O M. A. W J. S. T. L G. M T. C H. D D. C B. R T. C H. D D. C B. R C. C S. P. C S. P. C S. P. C S. P. C S. M. C. B S. C M. K S. S. M. A. K M. K M. A. K M. A. K M. K M. K M. K M. A. K M. A. K M. K M. A. K M. A. K M. A. K M. F F	$\begin{array}{c} 78\\ 53\\ 81\\ 35\\ 541\\ 91\\ 45\\ 36\\ 57\\ 82\\ 33\\ 67\\ 38\\ 23\\ 37\\ 43\\ 33\\ 67\\ 43\\ 33\\ 67\\ 42\\ 86\\ 29\\ 21\\ 77\\ 66\\ 22\\ 177\\ 66\\ 22\\ 177\\ 66\\ 22\\ 177\\ 63\\ 80\\ 75\\ 38\\ 45\\ 80\\ 52\\ 80\\ 54\\ 44\\ 52\\ 80\\ 54\\ 44\\ 52\\ 80\\ 54\\ 44\\ 52\\ 80\\ 54\\ 44\\ 52\\ 80\\ 54\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50$	Oct. Nov. Dec. Jan. Mar. June June June June 	13, 18, 18, 23, 29, 6, 12, 27, 12, 16, 23, 29,	19011 (1) (1) (1) (1) (1) (1) (1) (20	5 6 4 2 2 8 1 6 5 1 6 5 1 4 3 3 2 6 10 8 2 9 7 6 7 1 6 3 6 5 $ 7 9 4$	$\begin{array}{c} 13\\ 21\\ 16\\ 9\\ 24\\ 29\\ 25\\ 22\\ 4\\ 12\\ 10\\ 7\\ 13\\ 22\\ 7\\ 1\\ 15\\ 18\\ 20\\ 15\\ 18\\ 14\\ 6\\ 18\\ 3\\ 29\\ 29\\ 7\\ 19\\ 17\\ 27\\ 20\\ 8\\ 10\\ 9\\ 6\\ 10\\ 5\\ 24\\ 3\\ 21\\ \end{array}$	Senility. Volvulns. Senility. Gen. paresis. Carcinoma of bladder. Epilepey. Asthma. Gen. paresis. Phuthisis. Pnenmonia. Adeno-sarcoma. Gen. paresis. Cerebral softening. Carcinoma of liver. Mitral disease. Erysipelas. Pernicious ansemia. Cardiac disease. Phthisis. """ Senility. "" Inanition. Diarthœa. Phthisis. Tuberculosis. Cardiac disease. Senility. Strangulation. Senility. Strangulation. Senility. Cerebral hemorrhage. Epilepsy. "" Tuberculosis. Epilepsy. ""	

No. 38

TABLE No. 7.

Shewing Trades, Callings and Occupations of Patients admitted into the Asylum.

	Dur	ing the y	ear.	Durive	former	years.	
Trades, callings and occupations.	Males	Females	Total	Males	Females	Total	Total
Agents				9		9	9
Architects		· · · · · · · · ·		ĩ		ĩ	ĭ
Actuaries							
Actors							
Artists						· · · · · · · ·	
Book keepers				4		4	4
Bakers		· • • • • • • • •	••••	10	•••••	10	10
Bricklayers Butchers			· · · · · · · ·	$\frac{4}{3}$		4.3	4
Butchers Blacksmiths	••••	••••	· · · · · · · · ·	30		30	30
Brass finishers				1		1	1
Brewers	1		1	ī		ī	$\overline{2}$
Builders			-				
Barbers				3		3	3
Broom-makers				2		2	2
Barristers				4		4	4
Bookbinders		· • · • • • • •					••••
Brickmakers							••••
Bridge-tenders		• • • •					* * * * * * * *
Brakesmen				10		10	10
Cabinet-makers				10		10	10
Consuls			*******				
Confectioners							
Coopers				6		6	6
Carpenters				80		80	80
Clerks	2		2	41	• • • • • • • • •	41	43
Clergymen				11		11	11
Carriage-makers				9		9	
Cooks			· ····	2	5	7	• • • • • • • • •
Carders				3		3	
Captains of steamboats Cigarmakers					' 	1	* * * * * * * *
Custom-house officers	* * * * * * *			9		2	
Coppersmiths		*****					
Coachmen				2		2	
Civil servants							
Clock cleaners							
Carters				5		5	
Dyers						410	410
Domestic servants, all kinds		3	3	17	396	413	416
Dressmakers Detectives		4	4	1	41	41	45
Detectives Druggists				15		5	5
Dentists			• • • • • • • • •	i		1 i	1
Doctors							
Engineers	1		1	13		13	14
Editors							
Engravers							
Farmers	10		10	567	4	571	581
Fishermen			• • • • • • • •	2		2	2
Fonnders Ferrymen					• • • • • • • •		
Furriers		1	1				1
Gardeners		-	1	3		3	3
Grocers				2		2	2
Glass-blowers						1	
Gentlemen				3		3	3
Glove-makers							1
Grooms				1		1	1
Gun-smiths				1		1	1
Hucksters							
Hatters				2	•••••	2	2
Hostlers		*******		1		1	1
Hunters. Harness-makers	1	******	1	9		9	10
Housekeepers		39	39	0	653	653	692
Hack-drivers				5		-	5
5 A.							

5 A.

TABLE No. 7.—Continued.

Shewing Trades, Callings and Occupations of Patients admitted into the Asylum.

	Dur	ing the	year.	Durin	g former	years.	1
Trades, callings and occupations.	Males	Females	Total	Males	Females	Total	Total
Inn-keepers				5		5	5
Jewellers Janitors				22		22	$\frac{2}{2}$
Labourers	17		17	532		532	549
Lauudresses				002			
Ladies					17	17	17
Lawyers							
Lumbermen				11		11	11
Milliners				6	4	46	46
Machinists				13	• • • • • • • •	13	13
Matchmakers				1		1	1
Millers				3		3	3
Moulders				3		3	3
Merchants				25 3		25 3	25 3
Mechanics			*******	3	4	4	4
Marhle-cutters				• • • • • •	T	r	т
No occupation	3	4	7	44	118	162	169
Night-watchmen				1			
Nurses		2	2		5	5	2000
Not stated Organ-builders	• • • • • • • •	••••		126	180	306	306
Other occupations	3	1	4	39	28	67	71
Professors of music		· · · · · · · · · · · · · · · · · · ·					
Plasterers				3		3	3
Pensioners				• • • • • • • • •			
Prostitutes				17	1	17	1
Printers	1		1	17	· · · · · · · · ·	$\frac{17}{9}$	9
Peddlers			• • • • • • • •	3		3	3
Physicians	1		1	13		13	14
Pump-makers				2	· · · · · · · · ·	2	2
Railway foremen				1		1	1
" conductors Spinsters		• • • • • • • • •		1		$\frac{1}{39}$	39
Sailors	2	*** ***	2	20		20	22
Students				14	4	18	18
Spinners	• • • • • • • • • •			•••••	2	2	2
Sisters of Charity	******						• • • • • • • • •
Soda-water manufacturers Stone-cutters			•••••	2	• • • • • • • • •	2	2
Showmen							
Saddlers	1		1				1
Shoemakers				48		48	48
Seamstreeses		• • • • • • • • •	• • • • • • • •		58	58	58
Soldiers		*******		2		2	2
Saleamen				11		11	11
Surveyora							
Sail and tent-makers	1		1				1
Shopkeepers Teachers		1	1	15		49	50
Tinsmiths	· • • • • • • • • • •	1		8		8	8
Tavern-keepers	1		1	17		17	18
Tailors	•••••			5	2	7	7
Tanners			• • • • • • • • •	1	******	1	
Teamsters	• • • • • • •			1		1	
Watchmakers				1		1	1
Wood-workers							
Weavers				4	• • • • • • • •	4	4
Wheelwrights	•••••	• • • • • • • • •		1	• • • • • • • •	1	1
Waggon-makers Unknown or other employments	• • • • • • • • •	•••••		14		$22 \cdot$	22
Chamber of other employments							
Total	45	55	100	1,907	1,603	3,510	3,610

TABLE No. 8.

Shewing causes of Insanity.

	No. of i	instances	in which	each cau	86 W&8 88	sigued.	
Causes of Insanity. In respect of the admissions for the year ending	As pre	disposing	cause.	As exciting cause.			
30th September, 1902.	Male.	Female.	Total.	Male.	Female.	Total.	
Moral. Domestic troubles, including loss of relatives or friends	1	1	2	1	7	8	
Religious excitement. Adverse circumstances, including business troubles.	1		1	2	1 3 1	1 5 1	
Love affairs, including seduction Mental anxiety, "worry". Fright and nervous shocks Physical.	· · · · · · · ·	· · · · · · · · · · · ·	· · · · · · · · · · ·	$\frac{1}{3}$	3	4 3	
Intemperance in drink or drugs	3		3	5		5	
Intemperance, sexual.	· · · · · · · · ·	3	3	5	3	8	
Self-abuse, sexual Over-work			· · · · · · · · · ·		3	3	
Accident or injury	1 		1	2	1	3	
Pregnancy Puerperal	•••••	2	2	•••••	1 2	1 2	
Lactation Puberty and change of life		$\frac{2}{2}$	2	•••••	2	2	
Uterine disorders Brain disease, with general paralysis Brain disease, with epilepay	52	1	53	1 2	1 1 1	1 2 3 1	
Other forms of brain disease Other hodily diseases or disorders, including old age. Fevers	2 2	8	2 10	$\frac{1}{2}$	5 1	$\frac{1}{7}$	
Hereditary. With other ascertained cause in combination With other combined cause not ascertained Congenital.	1	75	8 6	2	3	5	
With other ascertained cause in combination With other combined cause not ascertained Unknown		2 6	4 48	4 14	16	4 30	
Total	45	55	100	45	55	100	

TABLE No. 9.

Shewing the probational discharges and the result thereof.

No.	Sex.	Initials.	Date of probational discharge.	Term of probation.	Result.
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\end{array} $	F F F F F F F F F F F F	B. M. F M. A. L A. T. O R. G H. R K. B	"" 5, "" "" 7, " "" 9, " "" 16, " "" 19, " "" 24, " "" 25, " "" 25, " "" 25, " "" 30, " "" 31, " November 2, "	3 monthe 3 " 3 " 4 2 " 2 " 2 " 2 " 2 " 2 " 2 " 2 "	Returned. Discharged, recovered. """"""""""""""""""""""""""""""""""""

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TABLE No. 9. -Continued.

Shewing the probational discharges and the result thereof.

No.	Sex.	Initials.	Date of dis	probat charge.			Term of probation.	Result.
17 18	F	M. W		3, ''		$\frac{2}{2}$	monthe	Returned, improved. Returned.
$\frac{19}{20}$	F F	L. C M. L		1, -4 9, 1902		1	month	6.5 6.6
$\frac{21}{22}$	Ē	M. E. T	" 1	7, 4	••••	2	months	Discharged, improved.
23	F	H. M		7	••••	$\begin{vmatrix} 2\\ 2 \end{vmatrix}$	<u> </u>	Returned. Discharged, recovered.
24 25	F	N. P E. M	March " 1	1, 4	·· ····	43	66 66	Returned.
26	F	S. S	'' 8	1, ''	••••	4	66	Discharged, recovered.
$\frac{27}{28}$	F	M. E. P H. M. G	April 1	5, 4		6	•••	· · · · · · · · · · · · · · · · · · ·
29 30	M	E. F. T J. H	2			1	month	Discharged, recovered.
31	F	A. M. E	· 1	o, 5, ''		2 5	months	
32 33		E. C S. S	January 1 February	7, " 4, "	• • • • • • • • •	$\frac{3}{2}$	66	Discharged, improved. Returned.
34	F	L. C	· " 2	7, "		3	44	Recovered.
35 36	M M	F. M F.G	1	1, '' 3, ''	••••	63		Returned.
37 38	M	R. M. M. T.		1, " 1, "		6	66 65	Recovered.
39	M	W. L	April 1	5, 4		3	44	66
40 41	M	P. I J. G		4, ** 8, **		$\frac{3}{2}$	6.6 6.6	66
42	M	A. C	1 1	5, "	••••	4	66	46 20
$\frac{43}{44}$		J. M. T M. W.	I·	5, 4		4	month	Returned. Recovered.
$\frac{45}{46}$	M F	A. W L.C.	44	6, ··· 7, ···		1	"	Returned.
47	F	M. L	· · 2	5,	· · · · · · · ·	1	months	Recovered. Unimproved.
48 49		M. E. T M. S. W	July 1	2, 4		3 3	months	Still out.
50	F	H. M	" 1	1, ''		2	44 45	Returned.
51 52		N. P E. D. M	··· 1 ··· 1	1,	• • • • • • • •	$\frac{3}{2}$	66 · · · · · · · · · · · · · · · · · ·	Still out. Recovered.
$\frac{53}{54}$	F		··· 1	4, "		3	64	Still out.
55	F	H. M. G	·· 1	7, "	•••••	$\frac{2}{3}$	66	Returned. Still out.
56 57	M M	E. F. T J. H.	" 2 August	0, ·· 7, ··		$\frac{3}{1}$	" month	"Returned.
58	F	A. M. E		9, 4		1	66	Unimproved.
59 60	F	M. B R. G	T.	4, '' 0, ''		1	monthe	Recovered. Still out.
61 62	M	C. H	September	1, "		1	month	Returned.
63	[F	R. C E. H. F	66	9,		2	monthe	Still out. Recovered.
64 65	M	W. C	·· 1 ·· 2	0, ''	•••••	$\frac{2}{2}$	66	Still out.
66	M	J. H	** 2	9, ii	••••	2	**	6.6
67	F	M. C	•• 31	0, "	•••••	2	•• • • • • •	68

SUMMARY OF PROBATIONAL DISCHARGES.

	Males.	Females	Total.	Males.	Females	Total.
Number to whom probational leave was granted Discharged, recovered 'improved Died before expiration of leave Returned to Asylum Absent on probation on 30th September, 1902	15 1	16 6 2	7 2	• • • • • • • • •	39 	

TABLE No. 10.

Shewing in quinquennial period, the ages of those admitted, recovered and died during the year.

	Admitted.			I	ischarge	ł.	Died.			
Ages.	Males.	Femalos	Total.	Males.	Females	Total.	Males.	Females	Total.	
From 10 to 15 years "15 " 20 " 20 " 25 " "25 " 30 " "30 " 35 " "35 " 40 " "45 " 50 " "55 " 60 " "55 " 60 " "55 " 60 " "55 " 70 " 75 " "75 " 80 " "85 " 90 " "90 " 95 " Unknown	3 6 8 3 4 5 6 3 2 1 1 	10 4 4 7 5 9 7 1 2 4 1 1 55	$\begin{array}{c} & 3 \\ 16 \\ 12 \\ 7 \\ 10 \\ 9 \\ 14 \\ 13 \\ 4 \\ 4 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	3 4 1 3 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	2 4 3 4 4 1 4 3 2 2 1 1 	2 7 7 5 3 4 5 4 4 2 2 1 	1 2 3 1 1 2 4 4 1 	2 2 2 4 2 2 4 2 2 2 1 1 2 5 1 1 1 1 1 1 30	2 2 3 4 7 3 8 2 3 5 3 5 3 5 3 1 1 4 7	

TABLE No. 11.

Periods.	Duration of insanity prior to admission.	Length of residence of those remain- ing in Asylum on 30th September.	Periods of treatment of those who were discharged cured during the year.	Periods of treatment of those who were discharged improv- ed during the year.	Periods of treatment of those who were dis- charged unimproved during the year.
Under 1 month. From 1 to 2 months. "2 4" 3 " 4 3 " 4 " 4 4 " 5 " 6 6 " 7 " 4 7 " 8 " 5 " 6 6 " 6 " 7 " 1 0 " 11 " 1 1 " 12 " 1 8 months to 2 years. 1 8 months to 2 years. 1 8 " 9 " 1 8 months to 2 years. 1 9 " 1 0 " 1 8 months to 2 years. 1 9 " 1 0 " 1 8 months to 2 years. 1 9 " 1 0 " 1 8 months to 2 years. 1 9 " 1 0 " 1 8 months to 2 years. 1 9 " 1 0 " 1 8 months to 2 years. 1 9 " 1 1 " 1 8 months to 2 years. 1 9 " 1 0 " 1 8 months to 2 years. 1 9 " 1 1 " 1 9 " 1 0 " 1 9 " 1 0 " 1 9 " 1 0 " 1 9 " 2 1 9 years. 1 9 " 2 1 9 " 2 1 9 years. 1 9 " 2 1 9 " 2 1 9 " 2 1 9 years. 1 9 " 2 1 9	26 8 5 4 1 5 3 1 6 2 1 2 1 1 3 3 13	$\begin{array}{c} 8\\ 8\\ 9\\ 7\\ 5\\ 5\\ 7\\ 10\\ 3\\ 3\\ 4\\ 2\\ 30\\ 17\\ 39\\ 19\\ 17\\ 47\\ 19\\ 96\\ 75\\ 75\\ \end{array}$	$ \begin{array}{c} 1 \\ 5 \\ 6 \\ 4 \\ 1 \\ 5 \\ 1 \\ 1 \\ 2 \\ \dots \\ \dots \\ \dots \\ \dots \\ \dots \\ \dots \\ \dots \\ \dots \\ \dots \\ \dots$		
Totals	100	589	29		5

THE REPORT OF THE INSPECTOR OF

Notice of complement	No. of		Days worked.	
Nature of employment.	patients who worked.	Male.	Female.	Total.
Carpenter's shop	15	3,060		3,060
Tailor's shop	õ	1,080		1,080
Shoe shop.	6	1,248		1,248
Engineer'e shop	8	2,039		2,039
Blacksmith's shop	2	530		530
Mason work	14	3,600		3,600
Repairing roade	3	840		840
Wood yard and coal shed	4	1,040		1,040
Bakery	4	920		920
Laundry	28	1,095	6,409	7,504
Dairy	12	3,060		3,060
Butcher's shop and slaughter house	6	1,640		1,640
Piggery	3	760		760
Painting	8	1,850		1,850
Farm	17	4,289		4,289
Garden	10	1,526		1,526
Grounds	6	1,420		1,420
Stable	8	1,860		1,860
Kitchen	16	1,983	2,686	4,669
Dining rooms	40	5,105	6,998	12,103
Officers' quarters	10		2,545	2,545
Sewing rooms	39		11,061	11,061
Knitting	34		9,377	9,377
Mending	18		5,194	5,194
Wards				
Halls	157	34,773	12,464	47,237
Storeroom	2	540		540
General	50	1,470	8,194	9,664
Total	525	75,728	64,928	140,656

TABLE No. 12. Shewing the nature of the employment and the number of day's work performed by patients during the year.

TABLE No. 13.

Shewing the Counties and Districts from which the patients remaining in residence 30th September, 190?, were originally received.

Counties and Districts.	Males.	Females	Total.
Carleton	42	22	64
Dundas	6 10	75	13 15
Durham	10	U U	° 15
Frontenao	54	73	127
Glengarry	10	- Ĕ	16
Grenville	2	2	4
Grey	1		1
Hastings	49	20	69
Lanark	18	16	34
Leeds	10	9	19
Lennox and Addington	29	21	50
Middlesex	1		1
Muskoka District		1	1
Norfolk	1		38
Northumberland	13	1	30
Oxford .	1	1	1
Peterborough	2	1	3
Prescott	3	3	6
Prince Edward	13	13	26
Renfrew	27	26	53
Russell		2	2
Simcoe	1		1
Stormont	9	6	15
Thunder Bay District	1		1
Victoria	2		2
Waterloo	1		1
Welland		1	1
Wellington	1		13
Wentworth	1 5	$\frac{2}{7}$	12
York	4	2	13
Not classed	1		0
Total	319	270	589

[gr _													-	
		Asylum transferred to		Cobourg.	5.5	11	9.9	6 G	9.9	6.9	13	99	49	9.9	11	
		Occupation.		Home duties.	do	Domestic.	Teacher	None	Servant	do	None	do	Servant	Home duties	Servant	
	Admitted by	Certificate.		-	63	• • •	3	÷	10	9	Ŀ	œ	'n	*		
	Adm b		.JusiisW	:	•	1		:	•	6 0 1		• • •	• • •	5	c7	
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sylu	ial te	ď.	eimanuU	-	•	67	~	4	10	9	5	90	6		10	
r A	Social State	.bewobiw 1	o beirreM	:	1						:			C1	*	
othe	Other denominations.		Other den	-	:	*			- - 		:	*	•		*	
to	is tion.	Methodist.		:	1	•				:	:	24		3	जनुम 	
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unsfe	Religious Denomination.	.oilodta	Roman Ca			í	1	¢1	-		:		adit .			
Tra	П	.basizad.	To dorudo						:	1	:	:	:	:		-
Patients Transferred to other Asylums.	ty.		.dsirI	:			:			-	:		:	:	*	
Pati	Nationality.		.dsilyaJ		*		:	57	:		:		:	;		-
	Nati		.asibsasD		1	63	0	_		:	5	9	2		6	
	Female. Formation		Montreal	Durham	Northumberland	Hastings	ср	Glengarry	Stormont	Northumberland	Peterboro'	Renfrew.	Northumberland	Lennox		
			-	53	**	ক	ŝ	9	7	œ	6	10	11	12		
			.93Å	64	47	ΤF	37	36	42	61	22	60	46	37	24	
	.berrelenst snosred fo slaitinI		1 F.B	2 S.M.C	3 M.C	4 P.M.	5 M.D	6 A.G.	7 M.J.J.	8 F.J.R	9 B.U.R	10 B.S	11 M.E.S	12 M.F		

TABLE No. 14.

LUNATIC AND IDIOT ASYLUM.

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TABLE No. 15.

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Shewing number of Articles made and repaired in the Wards during the year ending 30th September, 1902.

Articles.	Made.	Repaired.	Articles.	Made.	Repaired.
Articles marked. Aprons, uniform	$\begin{array}{c} 3,087\\ 150\\ 150\\ 474\\ \end{array}\\ \begin{array}{c} 96\\ 3\\ 50\\ 12\\ 260\\ 79\\ 205\\ 750\\ 80\\ 80\\ 84\\ 9\\ 14\\ 10\\ 14\\ 18\\ 100\\ 3\\ 230\\ 93\\ 59\\ 52\\ 14\\ 238\\ 16\\ \end{array}$	986 390 181 300 26 134 426 	Drapes, table do bracket Knitted, lace	$\begin{array}{c} 4\\ 6\\ 150\\ 113\\ 6\\ 22\\ 491\\ 67\\ 716\\ 43\\ 75\\ 180\\ 338\\ 573\\ 291\\ 174\\ 26\\ 6\\ 125\\ 3\\ 227\\ 80\\ 63\\ 20\\ 88\end{array}$	96 493 18 493 18 467 19 30 288 989 1,840 1,417 1,648 687 194 150 32

TABLE No. 16.

Showing number of articles made and repaired in the tailor shop and shoe shop during the year ending 30th September, 1902.

Articles.	Made.	Repaired.	Articles.	Made.	Repaired.
Coats, uniform "patients pair Drawers, "pair Overalls, "patients " "patients " Smocks vests	18 197 21 18 310 6 61	524 336 920 174	Boots, long	5	27 116 40 10 27

TABLE No. 17.

Number of articles made and repaired in the blacksmith shop.

Articles.	Made.	Repaired.	Articles.	Made.	Repaired.
Boilers, tin, ironed Bread cutters Bedateads, iron Boils—3 in. to 50 ft Band saws brazed Braces Butts, large Butts, large Carts Closet aeats Coulters Clamps, iron Chisels, masons " cold Drills Field mowers Grate wrenches " hoes Harrows Horse rakes Hinges, large atrap pair resleighs	44 16	$ \begin{array}{c} 15 \\ 4 \\ 22 \\ \dots \\ 16 \\ 30 \\ \dots \\ 34 \\ 4 \\ 3 \\ \dots \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 4 \\ 16 \\ 15 \\ 15 \\ 15 \\ 15 \\ 15 \\ 15 \\ 15 \\ 15$	Monkey wrenches	38 60 16 16 70 3 1 3 40	4 2 4 84 48 34 4 2 2 8 90 148 8 12 4 4 8

TABLE No. 18.

Showing number of articles made and repaired in the carpenter's shop during the year ending 30th September, 1902.

Articles.	Made.	Repaired.	Articles.	Made.	Repaired.
Awning for cottage Band saws braized. Base boards Base boards Beam supporting tank Boathouse. Book cases Brackets Brackets	$\begin{array}{c}1\\15\\$	220 23 1 6 2 4 204	Closet seats "tops Coffins Cover, fountain "butcher's waggon "well Curtain poles "roller for stage Cupboards Cottage, convaletcent Coal boxes Doors "frames Double bases Drawers "knobs Dumb waiters Dust shaft Easel Fanlights Fences Floors Gates "posta Grilles Grilles Grilles	$\begin{array}{c} 200 \\ 6 \\ 32 \\ 1 \\ 1 \\ 1 \\ 9 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	4 1

Articles.	Made.	Repaired.	Articles.	Made.	Repaired.
Handles, cbisel hammer hammer kscrubber Harness rack Le saws sharpened kscrubber Harness rack Le saws sharpened kstep Ladders. Step Lawn markers Laun iry trucks Locks put on Lumber dressed turber dressed feet Mortar board hox Ottoman upholstered Partition taken down Picture frames moulding put up feet Pig pene Peels Ping-pong rachets tables and trestles. Platforms Koofs shingled Refrigerators Steam pipes covered Steel mangers fitted	1 1 1 900 8 4 5 5 2 2 2 2 8	65 22 3 3 2 3 2 3 2 2 2 3 	Settees '' re-caned Sofae '' upholatered Shelves Sink frames Sleigh tongues Snow shovels Staging in greenhousefeet Staging in greenhousefeet Staging in greenhousefeet Stage properties Straight edges Straps Tents '' poles Templates Towel racks Treatles Trunks Treatles Trunks Trap doors Waggone '' tongues Waggone '' stongues Wardrobes Wardrobes Window sills '' stops Wood trays Whiffl-trees Wood trays Whiffl-trees Work benches	$ \begin{array}{c} 1 \\ 59 \\ 6 \\ 32 \\ 1 \\ 150 \\ 6 \\ 3 \\ 2 \\ 62 \\ 2 \\ 1 \\ 2 \\ 2 \\ 1 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2$	13 7 2 2 2 1 27 2 2 7 14 6
Seed drills	1	1	Walks laid down	5	

TABLE No. 18.-Concluded.

Ward floors taken up and re-laid for electric wires.

1

TABLE No. 19.

Showing work performed in the mason's department during the year ending 30th September, 1902.

Main Building :	
Wards 5 and 7	Plastered in sundry places.
" 4, 6 and 8	Drilled holes for electric light wires.
" 2, 4, 6, 8 and 9.	Mortar and cement plastering in sundry places.
" 9	Put down cement floors in bath room and water closet.
•• 4	Cement plastering of bath room walls and twelve bedrooms.
44 2	Cement floor about sink in dining room.
** 3	Broke away brick wall for passage of steam pipe.
·· 9	Broke away stone wall for passage of steam pipe.
Summer cottage	Built stone foundation.
Boiler house	Drilled stone walls changing the course of chain. Rebuilt arch, repaired boiler and other repairs with asbestos mortar. Broke away stone walls for steam pipe.
Root cellar	Pointed with cement mortar window areas.
Greenhouse	Put up extension to furnace chimney. Pointed and repaired stone walls with cement mortar.
Stobles	Pointed stone walls with cement mortar. Broke away brick walls for partitione. Drilled thirty-six holes for irons and manger bolts. Drilled holes for and built in iron rods.
New court	Cleaned furnace and kitchen flues. Replaced fire-brick in kitchen range. Repaired brick work in furnace of cow stables.
Sewerage house	Took down brick walls and rebuilt with stone at drain entrance, plastering with
	cement mortar
Tail r shop	Built brick foundation for heating stove.
South cottage	Took down and rebuilt two flights of stone steps on lawn Repaired brick work of furnace and ash pit with concrete and cement, and repaired plaster of two rooms.
Farm house	Re-plastered with mortar. Repaired brick and stone foundation.
Chi f Attendant's house	Pointed stone foundation with cement. Built in perforated iron plate on mouth
SHI I LEVICE GREET & HOUSE	of cellar drain.
Carpenter's house	Plastered sundry places in rooms, and pointed roof valley with cement.

TABLE No. 20.

Shewing amount of Painting and Glazing performed during the year ending 30th Sept., 1902.

Locality.	Painting done.	Yards.
	 Sitting-room ceiling painted and varbished. Ceiling and walls, kitchen doors and base, pantry and bakery and closets in basement. Woodwork of three bedrooms, octagon, wash-room and water closets. "eight bedrooms, dining-room, wash-room and closets, dormitory floors oiled and shellacked. Woodwork throughout the ward. "sitting-room, hall, dormitories and two floors. "sitting-room, hall, dormitories and two floors. "sitting-room, dining-room, ten bedrooms, long hall, bathroom and closets, walls and ceilings. Woodwork of two dining-room, four stairways, walls and ceilings, four rooms, bathroom and ten baths. Woodwork of and walle, dibing-room, kitchen, small hall, bathroom, six rooms and long hall. Painted outside, four doors and windows and verandsh, inside woodwork of parlor diping-room, hall, bases and walls, board walk and steps. Woodwork of dining-room, kitchen, two floors, front door and steps, four sets Venetian shutters. Two floors, two doors, porch and hoard walk. Woodwork of parlor, dining-room, kitchen, hall, two doors and walk. Roof 	1,200 640 150 320 260 50 250 300 250

TABLE No. 21.

Shewing returns from Farm and Garden for the year ending 30th Sept., 1902.

-							
Quantity.	Articles.	Rate.	\$ c.	Quantity.	Articles.	Rate.	S 0.
430 bunch	nes asparagus@	\$0 05	21 50	200 bush.	speltz@	45	90 00
959 **	green onions@		38 24	88 **	tomatoes@	50	44 00
2,765 **	lettuce @	3	82 95	157 "	turnips@	20	31 40
540 "	radishes@		16 20	1,390 quart	s currants@	5	69 50
12,000 "	rhubarba	1	120 00	50 "	gooseberries @	5	2 50
360 ''	sage and parsley@	4	14 40	350 **	raspberries	5	27 50
200 **	summer savory@	5	10 00	2,400 "	strawberries@	5	120 00
110 pecks	beansa		22 00	250 lbs.	hothouse grapes @	5	12 50
120 ''	peas in pod@) 25	30 00	21 tons		6 70	140 70
1,350 heads	cauliflower@	3	40 50	911 "	grass for cattle@	5 00	457 50
2,500 **	cabbage @	3	75 00	125 **	hay@	6 00	750 00
1,950 ''	celery@		ō8 5 0	$28\frac{1}{2}$ "	mangolds@	7 50	213 75
	cucumbers@	0 10	17 30	30 ''	straw@	4 00	120 00
8 "	citrons@		4 80	75 "	silo corn ensilage@	5 00	375 00
2 "'	pumpkins@	0 1 00	2 00	24,098 gala.	milk@	20	4,819 60
6 "	squash@	60	3 60	2,210 lbs.			132 60
1,878 "	sweet corn@		93 90	110 ''	wool@	6	6 60
320 bush.	apples@	50	160 00		lambs killed@	3 50	45 50
112 "	beets @		$28 \ 00$	158 **	young pigs sold@		414 90
100 "	barley@		$45 \ 00$	Lot old iron			8 80
5 **	cucumbers@		5 00	" hones			9 86
136 "	carrots@		27 20				35 72
200 **	onions@		160 00		ig plants		
834	potatoes@		417 00		ouse plants		
600 **	oats@		180 00	8,000 annual	8		
84 "	parsnips@		33 60				
60 "	spinach@	25	15 00				00.058.11
10 ''	salsify@	75	7 50	Tot	al		\$9,657 11

TABLE No. 22.

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KINGSTON ASYLUM.-Farm Exchange account for the year ending 30th September, 1902.

THE	REPORT	OF	THE	INSPECTOR	OF

් %	668 24 180 00 50 00 50 00 77 50	983 24	725 69 165 00 144 00 144 00 18 12 23 50 157 00 157 00 157 00 560 100	1,222 79	$\begin{array}{c} 339 & 37\\ 35 & 75\\ 75 & 75\\ 11 & 00\\ 1 & 00\\ 132 & 60\\ 103 & 40\\ \end{array}$	614 12
1901.	Oct. 1. By halance	- 1902.	Jan. 1. By balance		April 1. By halance 18. By cash from Dr. Clarke, old hones 18. By cash from Dr. Clarke, old hones 15 15 16 17. Clarke, old hones 18 19 11 11 12 13 14 15 16 17 18 19 19 11 11 12 13 14 14 16 17 17 18 19 11 <td></td>	
ਹ 699	$\begin{array}{c} 20 & 40\\ 122 & 50\\ 35 & 00\\ 21 & 50\\ 13 & 40\\ 34 & 75\\ 34 & 75\\ 725 & 69\\ 725 & 69\end{array}$	983 24	$\begin{array}{c} 60 \ 50 \\ 180 \ 60 \\ 51 \\ 35 \ 190 \\ 210 \ 00 \\ 220 \ 00 \\ 222 \ 20 \\ 10 \ 53 \\ 10 \ 53 \\ 339 \ 37 \\ 339 \ 37 \\ \end{array}$	1,222 79	$\begin{array}{c} 255 \\ 455 \\ 455 \\ 00 \\ 125 \\ 00 \\ 179 \\ 129 \\ 129 \\ 129 \\ 129 \\ 129 \\ 129 \\ 129 \\ 129 \\ 129 \\ 129 \\ 129 \\ 120 \\ 1$	614 12
Disbarsements.	 To Cash paid Elliott Bros., 60 ft. gutten covering	1 1	7. To cash paid ''A " Battery, manure acct. 1901 25. 1. H. C. Oreer, 1 milch cows 7. H. C. Oreer, 1 milch cows 7. M. Walsh, 2 milch cows 7. M. Walsh, 2 milch cows 7. M. Walsh, 2 milch cows 7. M. Walsh, 2 milch cows 7. M. Walsh, 2 milch cows 7. E. Burnside, 5 milch cows 7. K. & P. Plaiway, 74 loads manure at 30c 11. Kingston Pen y, 8 toise macadam, \$20,00; 300 19. Kingston Pen y, 8 toise macadam, \$20,00; 300 29. H. C. Orser, 3 milch cows 21. To balance M. C. Free, 1 milch cows		 To cash paid Dr. Nichols, medicine and tuberculine test. Geo. Amey, exhange of horse for team. F. Greenwood, 1 milch cow. B. " F. Greenwood, 1 milch cow. B. " Jno Gross, 1 mare Do balance. 	
1900.	Oct. 19. 	1902.	Jan. 7. Feb. 1. F. 7. March 4. 11. March 4. 11. 129. 31.		April 7. 17. June 25. 30.	

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No. 38

1902

LUNATIC AND IDIOT ASYLUMS.

179 12 290 00 90 00 180 00 17 50 17 50 16 30	770 42	102 73
50 00 July 1. By balance Hunter, 7 dry cowa Towa 50 44 11. By cash from R. Hunter, 7 dry cowa 300		Oct. 1. By balance
50 60 50 44 39 00 47 50 56 00 56 00 56 00 56 00 56 75 102 73	770 42	
July 11. To cash paid H. J. Powell, 1 mileh cow 16. 15. 17. 21. 18. W. McFarland, 1 milch cow and repairs 21. W. McFarland, 1 milch cow and calf 21. W. Moyle, 1 milch cow 21. W. Moyle, 1 milch cow 21. W. Moyle, 1 milch cow 21. W. Massie, 14,000 shiuzles 22. K. Burnside, 7 milch cow 23. M. Dyte, 1 milch cow 24. Burnside, 7 milch cow 25. W. Allorith, 1 milch cow 26. M. Allorith, 1 milch cow 28. W. Allorith, 1 milch cow 30. To balance		

ANNUAL REPORT OF THE MEDICAL SUPERINTENDENT OF THE ASYLUM FOR INSANE, HAMILTON, FOR THE YEAR ENDING 30TH SEPTEMBER, 1902.

Medical Superintendent's Office, October 1st, 1092.

To Robert Christie, Esq.,

Inspector of Asylums, Ontario :

Sir,—I have the honor to submit the Twenty-seventh Annual Report of the Asylum for the Iusane, at Hamilton, for the year ending September 30th, 1902.

_	Male.	Female.	Total.	Male.	Female.	Total.
Remaining in Asylum, October 1, 1901 Admitted during year : By Lieutenant-Governor's Warrant		14	17	468	561	1,029
Total number under treatment during the year	32	67	99	65 533	81 642	146
Discbarged during year : Recovered . Improved . Unimproved .	21 6		$\begin{array}{c} 44\\ 20\\ 7\end{array}$			
Total discharges Died Eloped	27	43 17				
Transferred to Cobourg Asylum Total		42	42	56	102	157
Remaining in residence, 30th September, 1902				477	540	1,017

Admissions.

The last official year began with 1.029 names on our register, and at its close there are 1.017, a decrease of 12. The number admitted during the year just closed is 146, which is an increase of 23 above the number admitted last year. There were 16 more females than males admitted during the year, and there are to-day 63 more females than males on our register, notwithstanding the fact that 42 females were transferred to Cobourg during the year.

Every proper case for asylum treatment which was applied for during the year, was promptly admitted; in fact, several infirm, senile cases were admitted which should have been cared for at home.

Besides caring for all applications from our own district, we admitted 6 from the Toronto and 2 from the London districts. With our present capacity, we appear to have overtaken the demand for admission from our own district, and begin the new official year with 26 vacancies.

Discharges.

The number discharged as recovered and improved during the year is 64, which is 43.83 per cent. of the admissions. Of the 20 cases discharged as improved, we are assured that many of them have gone on to complete recovery. Of the 7 cases discharged as unimproved, at the solicitation of friends, several have since improved, and continue to remain at home. The total discharges were 71, and one case eloped, which has not been since heard of, and is accordingly written off our books. The deaths were 41, so that the total discharges were 136, which is only 10 less than the total admissions. Forty-two women were transferred to the new asylum at Cobourg. These cases were all of the quiet, chronic class, and require no special treatment.

Death Rate.

The percentage of deaths on the total number under treatment during the year is 3.74, as against 4.36 last year. This is a remarkably low death rate, and speaks well for the healthfulness of our household and the salubrity of our environment.

Rate of Maintenance.

The rate of maintenance this year is \$127.62 per capita, against \$112.29 last year, which is a per capita increase of \$15.33. The rate last year was abnornially low, and several large accounts which were incurred last year are included in this year's accounts. The fuel account is \$6,746.61 in excess of last year, and the lighting account exceeds last year by \$5,195.72. This latter account practically included the lighting for two years, and was the outcome of the change from gas to electric light. The fuel problem is a serious one with us, as with everyone else, on account of the miners' strike We have still a three months' supply on hand, and it is to be hoped the situation will be relieved before our present supply is exhausted.

Farm.

In common with every other part of Cauada, our farm yielded a bountiful return. The following table of products, with estimated valuation, shows that the season has been an unusually fruitful one. This enormous return will go far to lessen the cost of maintenance during the coming year.

Produce.	Price.	Vslue.
Rye, 6 acres, 169 bushels Fall wheat, 10 41 Spring 10 4255 Spring 10 4255 Oats, 40 42,676 Hay, 150 tons Straw, 80 Potatoes, 4,000 bushels. Carrots, 100 Turnins, 1,500 Corn for silo, 22 acres, 275 tons Milk, 173,840 quarts Live bogs, 164.	\$ c. 50 72 68 32 8 00 6 00 50 20 20 20 20 1 20 3	$\begin{array}{c} \$ & c. \\ 84 & 50 \\ 274 & 32 \\ 173 & 40 \\ 173 & 40 \\ 866 & 32 \\ 1, 200 & 00 \\ 480 & 00 \\ 2, 000 & 00 \\ 20 & 00 \\ 1,000 & 00 \\ 20 & 00 \\ 1,000 & 00 \\ 300 & 00 \\ 300 & 00 \\ 300 & 00 \\ 5, 215 & 20 \\ 2,048 & 20 \\ \hline 13,981 & 94 \end{array}$

Garden.

The yield from the garden was very abundant, and has done much to enrich the dietary at the asylum. Fruit and vegetables of great variety and profusion were furnished during the season. A special feature was the enormous yield of peaches, which were greatly appreciated. An enormous quantity of fruit has been canned, and we go into winter's quarters well prepared with a rich supply of fruit for immediate use during the winter. The estimated yield from the garden, which includes 30,000 bedding plants from the Greenhouse, is 6,242.79. In table 23, which is appended to this report, there is a detailed statement of the total products, and an estimated valuation.

The ornamental grounds never looked so well as this year. The abundant rains kept the lawns fresh and beautifully green the whole summer through. The flowers and foliage also grew in rich profusion, and were greatly admired. We were honored by a visit from the British Journalists who were officially touring Canada, and they were greatly delighted, as well as surprised, to find such splendid provision made for the comfort and happiness of the unfortunate insane, which, they said, equalled, if not surpassed, anything they had witnessed in the Old Land.

Repairs and Alterations.

The water-closet system on the halls at Main Building is undergoing a thorough renovation, and will soon be completed. The old insanitary tank system has been superseded by the porcelain self-flusher, with marble slab partitions. The floors are being laid with tile and the ceilings with steel, the wooden wainscotting is torn out, and finished in hard cement plaster, so that there is nothing left to absorb odors or encourage insanitary conditions.

The Gegenstrom hot and cold spray-baths have been introduced into two of the bath-rooms during the year. This makes six bathrooms in which it is in operation. There are still four bathrooms waiting to be furnished in the same way, which we hope to see done during the coming year, and the Main Building will then be complete, with a new system of the most approved methods of bathing. This is a great improvement on the old bath tub system, not only in regard to expedition and cleanliness, but economy in the use of water as well.

The female basement has undergone a thorough renovation—the floor and joists had become decayed from dampness and was no longer inhabitable. Broken stone was filled in from the foundation and covered with a heavy bed of cement to the level of the joists, and a new floor laid throughout. The wooden wainscotting, which had also decayed, was torn out and plastered down to the floor. The place is now more wholesome and comfortable, and is equal to any of the other halls as a place of residence for patients.

Many other repairs and alterations were made during the year, which are too numerous to mention here, but which are duly recorded in the annexed reports of the several heads of departments.

Wants for the Future.

A nurses' home is one of the requirements of the future. Every year we find it more and more difficult to retain our staff of nurses. The work is a trying one under the best possible conditions; the hours are long, in vitiated atmosphere, and under a constant mental strain, which is prejudicial to health. To spend the whole 24 hours of each day in perpetual contact with the insane is, to say the least of it, anything but a desirable occupation, and especially so when excited and noisy patients keep the night as well as the day hideous with noise.

In all large hospitals a nurses' home is now recognized as a necessary and indispensable part of the equipment, and if this be so under general hospital management, how much more so must it be in an asylum, where the labor is more exacting, and all the conditions more prejudicial to both mental and physical health?

We require a new Amusement Hall. The present Hall is too small-it was intended to provide for about one-half the population now on our register. It is inconveniently situated on the third storey of the Main Building, and can only be reached by a circuitous climbing of stairs, from the other buildings. It is dangerons from fire, as its mode of exit is through a single door, which in case of panic would early become obstructed, with consequent loss of life. What we want is an independent building, situated conveniently to all the buildings, and of sufficient size to seat 800 people.

We require a large curling and skating rink. This is about the only outside sport we can provide for our patients in winter. To keep a large army of patients housed up in winter is neither healthful nor curative, and it becomes us to devise some means of outdoor recreation to relieve the monotony and gloom which is necessarily associated with the lives of so many morbid minds congregated together.

The function of an asylum has been too long regarded as a place for the custodial care of the degenerate and dangerous classes a burden or a menace to society. who have become Everyday experience proves that by specialized methods of treatment a large percentage of the insane may be cured. The dictates of humanity, as well as science, require that we shall utilize every reasonable means for the accomplishment of this end. Our patients may be comfortably housed and surrounded by the best sanitary and hygienic conditions—we may exploit the whole pharmacopoeia in the administration of the best drugs, and yet may utterly fail in discharging our whole duty to our patients. In order to maintain mental and physical health at its maximum there must be a diversity of functional exercise in the life. Without fresh air, exercise and recreation we dwindle and die, because such life is contrary to the law of our being. From an economical standpoint, as well as on humanitarian grounds, it is also profitable. Every case we cure relieves the State of the burden of custodial care, and returns to the community a person again endowed with all the rights of citizenship.

Water and Light.

The subject of furnishing a local water supply for the asylum is still unsolved. We are still dependent on the arbitrary water rates charged by the city for our supply, notwithstanding a strong appeal made to them for a reduction. I am glad to know that active steps are to be taken by the Government with a view to finding a supply on the Mountain. I trust the Government will not relinquish its efforts until every known method is exhausted. Abundance of water has been found all around us, and there are several large flowing springs within easy distance of the asylum.

The addition of half a dozen electric arc lights from the main avenue gate leading into the asylum, to the Incline Railway station at the top of the Mountain, would be a great convenience to us. This is the principal thoroughfare between the asylum and the city. At night it is a frequent resort of rough characters from the city, and is a constant menace to the nurses, attendants and other employees, who visit the city when off duty in the evening. I took the liberty of interviewing the Barton Township Conucil on the question, and found them fully alive to the necessities of the situation, but did not commit themselves to any promise of expenditure. I trust the Government will approve of a small appropriation next session for the purpose of relieving this disagreeable and even dangerous situation.

General Remarks.

In reviewing the work of the year, there is nothing very striking in our history to record. We have pursued the even tenor of our way, and have endeavored to discharge the great public trust committed to us faithfully and well. The changes in the staff of nurses, attendants and employees have been more frequent than usual, and the difficulty of filling these positions with the proper class is becoming more and more urgent. The prosperons condition of every branch of industry in the country is attracting the best class of workers into a great variety of lucrative employment, with the prospect of rapid promotion. It is difficult for institutional labor, with a fixed rate of wages, to compete with these conditions, and the result is that we are sometimes compelled to pick up a class that falls to the rear in the struggle of life.

The General Hospital, especially in the United States, is attracting the flower of our young Canadian womanhood into the nursing profesison. The Asylum nursing service has not yet arrived at the dignity of a recognized profession, largely because of the rooted prejudice existing in the public mind against these institutions, and the prevailing opinion that the asylum nurse, however well trained, cannot compete in efficiency with the general hospital nurse. Feeling the handicap under which they labor, many of them drift away from the asylum into the general hospitals for training, and afterwards take up private nursing in the large cities as a profession. We are strongly of opinion that the well trained asylum nurse is better equipped for managing the large class of nervous disorders which people are subject to, than the general hospital nurse. Is it not a fact that the large class of ailments, especially among women, grouped under the head of neurasthenia, are on the borderland of insanity, and require a special tact and skill in nursing which can only be received in an institution where nervous diseases are specially treated?

The most of our asylums have now an hospital proper attached for the treatment of every class of disease, including surgical cases, which has opened a wide field of nursing experience. The medical staff gives a course of lectures on mental diseases, general medicine, and surgery as well, so that the nurse has all the facilities of a general hospital for training in general nursing, with the additional advantage of experience in nursing nervous diseases.

A recent innovation in some of the asylums in both Great Britain and the United States, is the placing of female nurses on the male wards, and wherever it has been tried it is heralded by its advocates as a success. In the Old Land the subject is undergoing a very heated discussion between psychologists of the highest authority in the specialty, and at present there seems nothing for it but to await with interest the outcome of the experiment. Our kinsmen across the sea appear to be far in advance of us on the subject of asylum nursing. The whole question is under the management and control of the British Medico-Psychological Association, which appoints a central examining board, before which all candidates for the nursing certificate, of both sexes, must come for examination. This certificate gives the holder of it a professional status of uniform standard throughout Great Britain and Ireland, and enables the holder of it to preferment of rank. occurs to higher wages and It me we have much to learn in this regard from our brethren on the other side of the Atlantic in matters pertaining to organization and of elevating the nursing profession to a higher status of scientific and public recognition.

We might also copy with advantage from them the scientific spirit evinced by their asylum workers in the wide field of original research into the mysteries of neurological and psychological science. The asylum medical service furnishes a large number of indefatigable workers, who are constantly exploring the mysterious relation of mind to matter, and are persistent by their efforts in forcing nature to yield up her secrets, with a view to establish a correct theory of the laws which govern every mental manifestation in health as well as in disease. In this country we are content to sit at the feet of these tireless workers, and profit by their labors, but we are doing nothing ourselves to further scientific research in our asylums. We haven't sufficiently imbibed the scientific spirit, and are too easily content with the daily mechanical routine of duties. We are simply marking time, and have no aspiration to unlock the door of hidden treasures within, which nature is waiting to bestow.

A pathological institute, centrally situated and supported by State aid, for the training of our young physicians, is one of the urgent requirements of the day, if we are to keep pace with the trend of scientific research in other countries. The asylums are able to furnish an enormous amount of pathological material of the greatest scientific interest, and which is now going to waste.

Death of Dr. Reynolds.

Dr. Reynolds, who was Assistant Superintendent, and had been connected with this asylum for seventeen years, died on the 9th of June last. About the beginning of the year he contracted a cold, accompanied by a cough, with slight hemorrhage in the expectoration. He was advised to go down to Southern Pines, in North Carolina, for the winter, and take advantage of the more salubrious climate of that region. His letters from there to members of the staff were cheerful, and he continued to hope that he would again be able to resume his duties at the asylum.

In the early part of June, accompanied by Mrs. Reynolds and his little daughter, he left Southern Pines for Baltimore in order to consult Dr. Osler, who was an old personal friend. The fatigue of the journey was too much for his already exhausted strength, and he was taken to the Johas Hopkins Hospital, by order of Dr. Osler, where he received the best medical skill and nursing, but he gradually sank, and died the following day.

His untimely death in the midst of his usefulnes was greatly lamented at the asylum, not only by the official staff, but by the patients, to whom he was ever a kind and thoughtful friend. He was a man of lovable disposition and generous impulses, and was never known to lose his temper. He was especially fitted for asylum work, was punctual and methodical in everything he did, and ever at his post. If he erred at all it was in too great devotion to his work. Ever anxious to serve others, he thought least about himself, and in that sense he died a martyr to his profession and the noble charity which was his life's work.

Changes in the Staff.

Dr. Frank Beemer, of the London Asylum, was promoted to the position of Assistant Superintendent vacated by the death of Dr. Revnolds, Dr. St. Charles was transferred to Minico Asylum, and Dr. Wilson, of the London staff, was appointed in his place here. Miss Porter, of the Kingston Asylum, was appointed chief attendant here, and resigned after occupying the position five months, and Mrs. Ferrier was appointed to the vacuat position. Mrs. McMillan, chief nurse at the Hospital, was transferred to the Toronto Asylum, and Miss Gill, an ordinary nurse at this asylum, was promoted to the vacuat position as chief nurse.

I have the honor to be, Sir,

Your Obedient Servant,

JAMES RUSSELL, Medical Superintendent.

ANNUAL STATISTICAL REPORT

Of the operations of the Asylum for Insane, Hamilton, for the year ending 30th September, 1902.

TABLE No. 1.

Shewing movements of patients in the Asylum for the official year ending September 30th, 1902.

<u> </u>	Male.	Female.	Total.	Male.	F emale.	Total.
Remaining October 1st, 1901 Admitted during year :				468	561	1029
By Lieutenant-Governor's Warrant	33 32	$\begin{array}{c} 14 \\ 67 \end{array}$	$\begin{array}{c} 47\\99\end{array}$	65	81	146
Total number under treatment during year Discharges during year :		•••••		533	642	1,175
As recovered	$\begin{array}{c} 21 \\ 6 \\ 1 \end{array}$	$\begin{array}{c} 23\\ 14\\ 6\end{array}$	$\begin{array}{c} 44\\ 20\\ 7\end{array}$			
Total number of discharges during year Died Eloped Transferred	$\begin{array}{r} 28\\27\\1\\0\end{array}$	$ \begin{array}{r} 43 \\ 17 \\ 0 \\ 42 \end{array} $	$71 \\ 44 \\ 1 \\ 42$	56	102	158
Remaining in Asylum, 30th September, 1902				477	540	1,017
Total number admitted since opening of Asylum . discharged died eloped transferred	2,048 755 597 73 146	$2,104 \\ 876 \\ 499 \\ 3 \\ 186$	4,15 2 1,631 1,096 76 332			
" remaining, 20th September, 1902				477	540	1,017
No. of applications on Fyle				6	16	22

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TABLE No. 2.

Shewing the maximum and minimum number of patients resident in the Asylum, the total number of days' stay of patients, and the daily average number of patients in the Asylum, from the 1st October, 1901, to the 30th September, 1902.

Maximum number of patients in residence (on the 2 Maximum number of patients in residence (on the Collective days' stay of all patients in residence du Daily average population	2nd of N ring year	Iarch, 190	2)	Male. 483 481 174,926 479,249	F emale, 563 522 199,791 547,372	Total. 1,046 1,003 374,717 1,026,621
Admissions of year.				Total	ы зірсе	
Social State.	Male.	F emale.	Total.	Male.	Female	Total.
Married Widowed Single	35 30	50 31	85 61	945 1,103	1,211 	2,156 1,996
TotalReligion.	65	81	146	2,048	2,104	4,152
Presbyterians Episcopalians Methodists Baptists Congregationalists Roman Catholics. Mennonites. Quakers Infidels.''. Other denominations Not reported Total Nationalities.	$ \begin{array}{c} 13 \\ 11 \\ 15 \\ 5 \\ \hline 8 \\ 1 \\ \hline 4 \\ 8 \\ \hline 65 \\ \end{array} $	$ \begin{array}{r} 19 \\ 16 \\ 21 \\ 2 \\ 1 \\ 13 \\ \dots \\ 4 \\ 5 \\ \hline 81 \\ \end{array} $	$32 \\ 27 \\ 36 \\ 7 \\ 1 \\ 21 \\ 1 \\ \\ 8 \\ 13 \\ 146 \\ \\ 146 \\$	382 405 481 99 13 369 20 9 1 166 103 2,048	$\begin{array}{c} 381\\ 370\\ 525\\ 132\\ 13\\ 407\\ 12\\ 7\\ 195\\ 62\\ \hline 2,104\\ \hline \end{array}$	$\begin{array}{r} 763\\775\\1,006\\231\\26\\776\\32\\16\\16\\165\\\hline4,152\\\hline\end{array}$
English. Irish Scotch. Canadian. United States. Other Countries. Unknown	$ \begin{array}{r} 7 \\ 2 \\ 1 \\ 52 \\ 1 \\ 1 \\ 1 \end{array} $	$2 \\ 7 \\ 4 \\ 60 \\ 3 \\ 4 \\ 1$	$99 \\ 55 \\ 112 \\ 4 \\ 5 \\ 2$	$\begin{array}{c} 321 \\ 234 \\ 141 \\ 1,178 \\ 56 \\ 70 \\ 48 \end{array}$	$230 \\ 355 \\ 141 \\ 1,210 \\ 51 \\ 76 \\ 41$	$551 \\ 589 \\ 282 \\ 2,388 \\ 107 \\ 146 \\ 89$
Total	65	81	146	2,048	2,104	4,152

TABLE No. 3.

Shewing the counties from which patients have been admitted up to 30th September, 1902.

Counties.	Admit	ted durin	g year.	Total admissions.		
	Male.	Female.	Total.	Male.	Female.	Total.
Algoma District Brant Bruce Carleton Dufferin Elgin Essex Frontenac Grey Haldimand Haiton Hastings Huron Kent Lambton Lamark Leeds and Grenville Lenox and Addington Lincoln Middlesex Muskoka District Northumberland and Durham Ontario Oxford Parry Sound District Peel Perth Pethorough Prince Edward Rainy River District Renfrew Simcoe Stormont, Dundas and Glengarry Thunder Bay District Victoria Waterloo Welland Welland Wentworth York	5 	5 7 3 7 1 6 1 6 1 6 1 6 1 9 4 4 27 3	10 5 5 16 7 8 1 1 1 1 9 1 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 7 7 9 1 7 7 7 7 7 7 7 7 7 	$\begin{array}{c} 9\\ 9\\ 10\frac{4}{7}\\ 7\\ 10\\ 29\\ 5\\ 3\\ 19\\ 118\\ 89\\ 67\\ 6\\ 5\\ 7\\ 8\\ 11\\ 189\\ 67\\ 6\\ 5\\ 7\\ 8\\ 8\\ 11\\ 16\\ 15\\ 22\\ 6\\ 3\\ 35\\ 26\\ 6\\ 16\\ 3\\ 16\\ 16\\ 3\\ 16\\ 16\\ 13\\ 4\\ 4\\ 20\\ 6\\ 13\\ 4\\ 11\\ 109\\ 93\\ 3\\ 89\\ 176\\ 3\end{array}$	$\begin{array}{c} 5\\ 129\\ 17\\ 10\\ 31\\ 7\\ 7\\ 91\\ 7\\ 78\\ 8\\ 12\\ 5\\ 4\\ 2\\ 6\\ 1\\ 117\\ 11\\ 2\\ 30\\ 33\\ 12\\ 3\\ 25\\ 11\\ 17\\ 4\\ 2\\ 160\\ 10\\ 2\\ 21\\ 99\\ 128\\ 195\\ 441\\ 193\\ \end{array}$	$\begin{array}{c} 14\\ 233\\ 24\\ 20\\ 60\\ 12\\ 4\\ 26\\ 209\\ 166\\ 145\\ 14\\ 17\\ 12\\ 12\\ 13\\ 11\\ 231\\ 17\\ 5\\ 59\\ 28\\ 6\\ 41\\ 18\\ 26\\ 7\\ 7\\ 1\\ 6\\ 59\\ 28\\ 6\\ 41\\ 18\\ 26\\ 7\\ 7\\ 1\\ 6\\ 59\\ 28\\ 6\\ 41\\ 18\\ 26\\ 366\\ 23\\ 6\\ 32\\ 208\\ 221\\ 8\\ 366\\ 32\\ 208\\ 221\\ 8\\ 300\\ 369\\ 3\\ 3\\ 3\\ 369\\ 3\\ 3\\ 369\\ 3\\ 3\\ 369\\ 3\\ 3\\ 3\\ 3\\ 369\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\$
Total admissions	65	81	146	2,048	2,104	4,152

Shewing the counties from which warranted cases have been admitted up to 30th September, 1902.

Counties.	Admit	ted durin	g year.	Total admissions.		
	Male.	Female.	Total.	Male.	Female.	Total.
Algoma District. Brant Bruce Carleton Dufferin Elgin Easex Frontenac Grey Haldimand. Hastings. Huron Kent Lanark Leeds and Grenville Leensox and Addington Lincoln Middlesex Muskoka District Nortolumberland and Durham Ontario Oxford Parry Sound District Peeth Peterborough Prescott and Russell			2 2 	$\begin{array}{c} 8\\ 43\\ 6\\ 9\\ 18\\ 2\\ 2\\ 2\\ 18\\ 78\\ 5\\ 30\\ 6\\ 2\\ 6\\ 7\\ 1\\ 7\\ 9\\ 1\\ 8\\ 9\\ 2\\ 2\\ 20\\ 13\\ 3\\ 6\\ 6\\ 9\\ 3\\ 3\\ 1\\ 4\\ 147\\ 1\\ 1\\ 4\\ 9\\ 57\\ 44\\ 726\\ 148\\ 726\\ 148\\ 726\\ 148\\ 726\\ 148\\ 726\\ 148\\ 726\\ 148\\ 726\\ 148\\ 726\\ 148\\ 726\\ 148\\ 726\\ 148\\ 726\\ 148\\ 726\\ 748\\ 726\\ 748\\ 726\\ 748\\ 726\\ 748\\ 726\\ 748\\ 726\\ 748\\ 726\\ 748\\ 748\\ 726\\ 748\\ 748\\ 748\\ 748\\ 748\\ 748\\ 748\\ 748$	$\begin{array}{c} 1\\ 33\\ 8\\ 6\\ 10\\ 2\\ 43\\ 14\\ 22\\ 6\\ 3\\ 14\\ 22\\ 6\\ 3\\ 1\\ 1\\ 5\\ 37\\ 14\\ 20\\ 8\\ 2\\ 2\\ 8\\ 7\\ 11\\ 3\\ 2\\ 8\\ 7\\ 11\\ 3\\ 2\\ 8\\ 19\\ 28\\ 40\\ 60\\ 143 \end{array}$	$\begin{array}{c} 9\\ 76\\ 14\\ 16\\ 28\\ 4\\ 3\\ 20\\ 121\\ 49\\ 52\\ 12\\ 5\\ 6\\ 8\\ 22\\ 9\\ 114\\ 11\\ 4\\ 79\\ 36\\ 40\\ 21\\ 14\\ 13\\ 20\\ 6\\ 5\\ 1\\ 4\\ 229\\ 14\\ 6\\ 76\\ 72\\ 2112\\ 6\\ 229\\ 112\\ 136\\ 229\\ 14\\ 229\\ 291\\ 229\\ 14\\ 229\\ 291\\ 229\\ 14\\ 229\\ 291\\ 229\\ 14\\ 229\\ 291\\ 229\\ 14\\ 229\\ 291\\ 229\\ 14\\ 229\\ 291\\ 229\\ 200\\ 200\\ 200\\ 200\\ 200\\ 200\\ 200$
Not classed	33	14	47	1,077	718	1,795

TABLE No. 5.

Shewing the length of residence in the Asylum of those discharged during the year.

No.	Initiale.	Sex.	When a	dmi	tted.		When d	isch	arged.		Remarka.
1	T. W	м	January	26.	1887		October	5.	1901		Improved.
23	W. H. R W. M	М	August	24,	1899		6.6		1901		Recovered.
	W. M	M		25,	1899		5 E E E E E E E E E E E E E E E E E E E		1901		Improved.
4	M. B S J. McL	F	December		1900 1900		4.4		1901 1901		Unimproved
6	L. A. R .	F	August		1901		4.4		1901		o minproved
7	E. W. S	F	October	27,	1900		November	1,	1901 .		Improved.
8	M. K	F	May	3.	1901		6.6		1901		Recovered.
9 10	D. K	ы. F	August March	3	$\frac{1901}{1894}$		6.6		$1901 \dots 1901 \dots$		6.6
11	L D	[F	May	21.	1901		C i		1901		66
12	A E M	M	February	26,	1897		44 	28,	1901		Unimproved.
13	E. W A. C	\mathbf{F} \mathbf{F}	October	- 3,	1900		December	7,	1902	• • •	furning
14 15			May		1901 1901		January		$1901 \dots 1902 \dots$		Improved. Recovered.
16	A. W	M	December		1901		4.6	10,	1902		4
17	IL B	F			1901			21,	1902 .		Unimproved,
18 19	E. T E. B	F M	June		1892 1901		February March		1902 1902		Recovered.
20	EK	F	April				April	- <u>4</u> 0, 5.	1902	••••	Improved.
21	S. S	F	November	- 3,	1900		6.6	- 7,	1902 .		Unimproved.
22	E. P	M	March		1902		66				Recovered.
23 24	S. J. W M. K	F	July May		1901 1900		+ 6		1902 1902		Improved. Recovered.
25	AH	F	February		1901		6.6		1902		ii ii
26	J.P	M	July		1900		+6	28,	1902 .		4.6
27	M. McE		September				6 . 6 6		1902		65
$\frac{28}{29}$	M. G F. B	F	February March		$1902 \\ 1902$		4.6		1902 . 1902 .		4.6
30	FH	1 M	September				46		1902 .		4.6
31	A McM	1 E	July	- 6,	1901		May		1902.		Improved.
32	M. D	M F			1895		6.6		1902		Recovered.
33 34	MH	INT	March June		1902 1901		4.6		1902 1902		Improved.
35	JP	M	March	31,	1902		66	21,	1902 .		- 66
36	B. G J. O'G	F	64 + 6		1902		ii Tumo		1902		Recovered
37 38	C. L	F	December		$1902 \\ 1901$		June		1902 1902		Recovered.
39	W.W	M	November		1901		6.6	- 6,	1902	• •	
40	G. T	M	May		1901		6 6 6 1		1902		"
41 42	ID B	K	April November		1892 1899		6.6		1902 . 1902 .		Improved.
43			June	- 8,	1901				1902 .		Recovered.
44	M. D	F	April		1898		July		1902 .	• • •	· · · · · · · · · · · · · · · · · · ·
45 46	S. P F. B	1.14.	August	25	$1901 \\ 1899$	•	+ 4		1902 1902 .	1	6.6
47	R Z	M	July		1901		46		1902 .		6.6
48	IE. S. C	ML	January		1899		**	-28,	1902 .	•••	• 6
49	E. J. McK F. H. W	F	A		1902		Auguat	4,	1902 . 1902 .	•••	66
50 51	C. A. C. D	M	April October	23,	$\frac{1902}{1901}$		6.6		1902 .		4.6
52	IC. H	M	September	15,	1900		September	- 3,	1902.		66
53	M. J. G	F	August		1890		- 66		1902		Improved.
54 55	J. M T. B	M	January December		$1902 \\ 1901$		6.6		$1902 \\ 1902 $.		Recovered.
56	IC M	F	August		1902		5.6	- 6,	1902 .		Unimproved.
57	A. P	F	May		1902		4.6		1902 .		Recovered.
$\frac{58}{59}$	N. H. F M. S.	F F	March April		$1902 \\ 1902$				1902 . 1902 .		66
60	A. M. E	F	March		1902		66	- 9,	1902.		Improved
61	A. H	[C	April	- 5,	1902		66		1902 .		Kecovered.
$62 \\ 63$	M. S	F	July	10	1902 1883	••••	66		1902 . 1902 .		Impreved.
64	IN. 8	1	August		1902		6.6		1902 .		- 16
65	IA. C	IF	July	22,	1902		61	18,	1902.		
66 67	W. B. M. B	F	June September		$1901 \\ 1901$			30,	$1902 \\ 1902 $.	• • •	Recovered.
67 68	M. W	F	achremper 11		1891		4.6	30,	1902 .		66
69	B. R. S	•M	August	20,	1901		6.6		1902 .		11 Transaction
70 71	G. S A. D	F	March July						1902 . 1902 .		Improved. Recovered.
11	13. D		o di j	10,	1002						

TABLE No. 6.

Shewing age, length of residence, and proximate cause of death of those who died during the year ending 30th September, 1902.

							idenc sylun		
No.	Initials	Sex.	Age.	Date o	f death.	Years.	Months.	Days	Proximate cause of death.
$\begin{array}{c}1\\1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\3\\14\\15\\6\\17\\18\\9\\0\\21\\22\\3\\24\\25\\6\\27\\28\\29\\0\\31\\2\\3\\3\\3\\4\\5\\6\\3\\7\\8\\8\\3\\9\\0\\41\\2\\4\\3\\4\\4\\4\\4\\4\\4\\4\\4\\4\\4\\4\\4\\4\\4\\4\\4\\4$	D. C. E. R. M. S. V. D. D. M. C. S. W. H. F. J. H. L. P. N. E. D. F. A. C. J. C. J.	M F M M M M M F M F M M M M M M M M F M M M F M M M F M M M F M M M M M F M M M M M M M M M M M M M	$\begin{array}{c} 60\\ 43\\ 71\\ 39\\ 53\\ 44\\ 59\\ 68\\ 18\\ 80\\ 62\\ 39\\ 55\\ 29\\ 60\\ 54\\ 82\\ 45\\ 77\\ 72\\ 26\\ 44\\ 55\\ 77\\ 4\\ 28\\ 50\\ 65\\ 21\\ 53\\ 68\\ 65\\ 21\\ 53\\ 68\\ 65\\ 50\\ 41\\ 67\\ 60\\ 44\\ 41\\ 67\\ 60\\ 44\\ \end{array}$	October " " November " December " Units of the second seco	$\begin{array}{c} 4 \\ 5 \\ 5 \\ 17 \\ 19 \\ 26 \\ 2 \\ 9 \\ 17 \\ 29 \\ 9 \\ 16 \\ 30 \\ 6 \\ 5 \\ 9 \\ 9 \\ 17 \\ 27 \\ 11 \\ 10 \\ 27 \\ 27 \\ 11 \\ 10 \\ 27 \\ 27 \\ 11 \\ 10 \\ 27 \\ 27 \\ 22 \\ 27 \\ 11 \\ 10 \\ 22 \\ 27 \\ 21 \\ 22 \\ 27 \\ 11 \\ 10 \\ 22 \\ 22 \\ 27 \\ 11 \\ 10 \\ 10 \\ 11 \\ 20 \\ 22 \\ 27 \\ 21 \\ 10 \\ 10 \\ 11 \\ 20 \\ 21 \\ 21 \\ 10 \\ 10$		$\begin{array}{c} 2\\ 4\\ 9\\ 9\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	$\begin{array}{c} 29\\ 28\\ 27\\ 20\\ 15\\ 6\\ 2\\ 4\\ 19\\ 18\\ 21\\ 12\\ 18\\ 14\\ 29\\ 9\\ 18\\ 14\\ 29\\ 9\\ 18\\ 14\\ 29\\ 20\\ 3\\ 4\\ 10\\ 22\\ 6\\ 23\\ 25\\ 21\\ 26\\ 7\\ 8\\ 20\\ 16\\ 5\\ 8\\ 17\\ 2\\ 4\\ 4\\ 24\\ 4\\ 24\\ 4\end{array}$	Apoplexy. Epilepsy. Exhaustion of mania. Pneumonia. Exhaustion of mania. Paresis. Exhaustion of melancholia. Typhoid fever. Pulmonary tuberculosis. Senile decay. Epilepsy. Paresis Senile decay. Exhaustion of mania. Pyaemia. Paresis. Phthisis. Tuberculosis. Paresis. Pneumonia. Erysi elas. Pneumonia. Erysi elas. Pneumonia. Evilepsy. Peritonitis. Apoplexy. Phthisis. Strangulation. General paresis. Acute cystitis. Senile decay. Phthisis. General tuberculosis. Valvular disease of heart. Peritonitis. Pyelo-nephritis. Epilepsy. Diarrhea. Cardiac disease. Senile decay. Cardia c disease. Phthisis.

TABLE No. 7.

Shewing Trades, Callings and Occupations of Patients admitted into the Asylum.

	Dur	ing the Y	čear.	During	g Former	Years	Į
Trades, callings and occupations.	Males.	Females	Total.	Males.	Females	Tota ¹ .	Total.
		·					
Agents				9		9 3	93
Architects					· 1	1	1
Book-keepers				9	2	11	11
Bakers				4		4	4
BricklayereButchers				5 12		5 12	5 12
Blacksmiths				25		25	25
Brewers				1		1	1
Builders				3		3	3 7 2 2 3
Barbers		2	2	$\begin{vmatrix} 4\\2 \end{vmatrix}$	1	52	2
Bookbinders .				ĩ	1	2	2
Brickmakers				3		3	
Brakesmen				1		1	1
Basket makers		· · · · · · · ·				1	1
Commercial travellers Cabinet-makers				1 3	•••	3	3
Consuls				i i		ĭ	1 1
Confectioners				1		1	1
Coopers			•••••	6		6	6
Carpenters		• • • • • • •	1	67 45	··· ·· . · · ·	67 54	68 55
Clerks		******	i	12	3	12	13
			· · · · · · ·	3		3	3
Cooks					4	4	4
Carders				3	1	4	4
		• • • • • • •	••••			1 8	$\frac{1}{8}$
			•••••			2	2
Coachmen				í 1		1	$\frac{2}{1}$
				2		2	.2
Cartere.	• • • • • • • • •		··· · · · · ·	4	••••••	42	4
Dyers			2	$\frac{2}{2}$	447	449	451
Domestic servants, all kinds Dressmakers		$\frac{2}{2}$	ž		37	37	39
Detectives				1	1	1	1
Druggists				7		7	7
Dentists	1		1	4 8	• • • • • • • • •	4	5 9
Engineers	1		1	3	· · · · · · · · ·	3	3
Farmers	22		22	611	3	614	636
Fishermen				6		6	6
				1		1	1
Firemen			•••••	1		1	1
G 1	* * * * * * * * *			11		11	11
Grocers	1		1	7	1	8	9
Glase blowers				1		1	$\frac{1}{9}$
Gentlemen	••• ••••		• • • • • • • • •	9 3	•••••	93	3
Hostlers				6		6	6
		61	61	1,072		1,072	1,133
Inn-keepers				12	1	13	13
Jewellers		• • • • • • •		3		3	3
Janitore Labourers	19	• • • •	19	551		551	570
Labourers	15				7	7	7
Ladies					3	3	3
Lawyers						3	3 3 1
				$ 1 \\ 1$	******	1	1
	• • • • • • • • •	· · · · · · · · · ·		1	·····5	5	5
Masons				5		5	5
				30		30	30

	Dur	ing the Y	ear-	During	Former	Years.	
Trades, callings and occupations.	Males,	Females	Total.	Males.	Females	Total.	Total.
Millers Moulders	• • • • • • • •	• • • • • • • • •	• • • • • • • • •	4 11		4	4
Merchants				20	9	29	29
Mechanica	1		1	29	2	31	32
Music-teachers			-		3	3	3
Marble-cutters				3		3	3
Matrons					2	2	2
Midwives					1	1	1
Motormen				1			1
Musicians				1	• • • • • • • •	1]
Mariners	1		1	• • • • • • • • •			1
Manufactneers	$\begin{vmatrix} 1\\ 2 \end{vmatrix}$	5	17	46	115	161	168
No occupation Night-watchmen	_			2	110	2	100
Nurses		1	1		8	8	ģ
Not stated				26	77	103	103
Organ-builders				1		1	1
Other occupations	7	1	8	57	11	68	76
Plasterers		1		1		1	1
Photographers		!		4		4	4
Prostitutes				1		1]
Painters				32		32	32
Printers				9	1	10	10
Peddlers		•••••		82	1	9 2	
Physicians						2	
Porters.		·			• • • • • • • • •	$\frac{2}{2}$	
Paupers		1	1		-	2	j
Potters	1	.	1				j
Railway employees				4		4	4
Spinsters					15	15	15
Sailors				11		11	11
Students		1	1.	13	3	16	17
Spinners				9	7	16	16
Stone-cutters	• • • • • • • • •		• • • • • • • • •	6		6	6
Saddlers	• •••••	• • • • • • • • •	• • • • • • • • •	4		4	4 28
Shoemakers	••••		-	28	27	$\frac{28}{27}$	20
Seamstresses			• • • • • • • • •	1	41	1	1
G 11:				2		$\frac{1}{2}$	
Salesmen				$\overline{2}$		$\tilde{2}$	2
Surveyors				1		1	1
Sail and tent-makers				1		1	1
Shopkeepers				1		1	1
				4	• • • • • • • •	4	4
	• • • • • • • •	• • • • • • • • •		1		1	1
	•••••		•••••	1	•••••	1	1
Telegraph operators	1	• • • • • • • •	1	13	23	36	$\frac{1}{37}$
Teachers	1		1	7		7	8
			1	3	••••	3	3
		4	4	13	15	28	32
Tanners				2		2	2
Teamsters	1		1	5		5	6
Undertakers				1		1	1
				1		1	1
	• • • • • • • • • •			1		1	1
Watchmakers	••••••		• • • • • • • • • •	1	• • • • • • • • •	1	1
Wood-workers		•••••		$\frac{2}{6}$	7	$\begin{array}{c}2\\13\end{array}$	1 2 13
Waggon-makers	• • • • • • • • •	• • • • • • • • •	• • • • • • • • •	6		6	15
\$17 1 1				2	·····i	3	3
Waiters				ĩ		1	ĭ
Unknown or other employments	1	1	2	30	99	129	131
					950		4,152
Total	65 I	81	146	3,056		4,006	

TABLE No. 7.—Continued.

TABLE No. 8.

Shewing causes of Insanity.

	Nun	iber of in		n which e gned.	each cause	Was	
Causes of Insanity. In respect of the admissions for the year ending 30th September, 1902.	As pre	disposing	cause.	As exciting cause.			
	Male.	Female.	Total.	Male.	Female.	Total.	
Moral.							
Domestic troubles, including loss of relatives or friends Religious excitement. Adverse circumstances. including business troubles Love affairs, including seduction. Mental anxiety, "worry"		* * * * * * * *		3 2 3 2 1	$ \begin{array}{c} 11 \\ 2 \\ 1 \\ 3 \\ 1 \end{array} $	14 4 5 2 3	
Fright and nervous shocks	•••••	* * * * • • • • •		1	2	3	
Intemperance in drink Intemperance, sexual Veneral disease Self-abuse, sexual Over-work				• • • • • • • • • • • • • • • • • • •	1 1 5 2 5 1 6 3 1 2 5 	5 2 9 10 2 2 5 5 1 6 3 3 1 1 8	
Hereditary. With other ascertained cause in combination With other combined cause not ascertained	19	24	43				
Congenital. With other ascertained cause in combination With other combined cause not ascertained Unknown		57	103		34	60	
Total	65	81	146	65	81	146	

1902

	TA	BLE No.	9.			
Shewing the	probational	discharges	and	the	result	thereof.

									1	
Reg. No.	Sex.	Initials.	Date of dis	proba charge		al		Term of probation.	R	esult.
3969	F	S. J. W	October	1, 19	901		3	months	Discharged	improved.
3936	F F	H. E. L	october	$-\frac{1}{2}$	44		3	11 OD0101	Returned.	impiored.
3963	М.	E. B	4.6	$\frac{2}{3}$	6.6		3		Discharged	recovered.
3945	F	M. K	6.6	7,	66		3	**		66
3833	Μ	M. K	6.6	11,	6.6		3	**	δ ε	4.6
3832	M	J. O	6.6	15,	66		3	** ****	Returned.	
3918	F	S. J. McL	6.6	16,	66		3	66 66 1	Discharged	unimproved.
3928	F	A. H	55 65	23	58 66		3	******		recovered.
3992	M	B. S		26,	2.6	• • • • •	3		Returned.	
3861	F	J. A	November			• • • •	3		Dischanged	here we had
3859	M	J. P		28,		• • • • • •	3		Discharged	recoverea.
3955	F	C. A. J	December	$\frac{20}{24}$	4.4	•••••	3	46	Returned. Discharged	improved
$\frac{3774}{2059}$	F M	$\begin{bmatrix} D. & B. \\ C & V \end{bmatrix}$	6.6	24, 24,	4.6	• • • • •	3	46	Returned.	improved.
3989	M	G. V S. P	6 8	24,	4.6	• • • • • • • • • <i>•</i>	3		1 w	recovered
2518		A. E. M		24.	4.6		3		16	improved.
4030	M	A. W	66		66		ĭ	month	8.4	recovered.
3950	M	G. T.	66	25,	6.6		3	months	4.6	44
3940	F	M. R	64	31.	4.6		3	44	Returned.	
3524	F	M. D	6.6	31.	4.6		3	46	1.1.1.1	recovered.
4010	M	C. D	February		902		3			66
3942	F	F . B	44	18.	66		3	44	6.6	6.6
3995	Ê	M. McE	March	8.	£ 4		3	44	66	4.6
3577	M	R. R	4.6	29	6.6		1	month	Returned.	
3956	Μ	W. B.	6.4	29.	6.4			months	Discharged	improved.
3644	M	E. S. C	**	31,	66		3	"	44	recovered.
4032	F	B.S	April	5,	a 6		3		Returned.	
3878	M	0. H	~ 64	12,	66		3	44	Discharged	recovered.
4064	M	E. P	66	9,	66		3	**	44	66
3936	F	E. H. S	6.6	26,	4.6		3	66	Still out,	
4019	M	W. J	6.6	28,	6.6		3	*****	Returned.	
4066	F	A. J	May	2,	4.4 6.6		3		Discharged	recovered.
4045	<u>F</u>	E. J. McK		З,	66			month		
2442	F	M. W	66	20,	68	• • • • •	3			
3796	M	E. W. E		22,		• • • • • •	3			
4034	F	R. C		28,		••••		month		
2272	F	M. J. J	66	31,		•••••	$ \frac{1}{2} $	••••••••••••••••••••••••••••••••••••••	Still out	unimproved.
1250	M	W. McE	_	31,	4.	• • • • •	3		Discharged	boostored
4061 4039	F M	M. H. F T. B	June	7, 9,	4.6	• • • • • •	3			recovered.
4035		F W	6.6	13.	6.6		3	44 64 ••••••		66
4092	F	F. W G. S	4.6	$\frac{10}{20}$	* 6	• • • •	3		6.4	improved.
4002	Б F	M. B		25.	66	••	3		6.6	recovered.
3251	M	G. A. McE	6.6	28.	6.6		3	44	Returned.	
4051	F	J. McG	6.6	30.	6.6		2		Discharged	recovered.
4097	F	A. P	July	5.	4.6		2	£ 6 	61	66
4091	F	M. S	44	5,	66		2	**	6.6	66
1027	F	S. F	65	14,	6.4		$\overline{2}$	66	6.6	improved.
3940	F	M. R	+ 6	19,	4.6		$\overline{2}$	66	Still out.	
3992	M	B. R. S	6.6	26,	66		2	44 · · · · · · ·	Discharged	recovered.
4082	F	A. M. E	August	9,	6.4		1	month		improved.
3777	F	N. H	66	22,	4.6		2	months		-
4087	F	M. S	6.6	27,	4 É		1	month	Discharged	recovered.
3681	M	W. M	September	2,	44		3		Still out.	
3935	F	C. M	- 16	12,	6.6		3		6.6	6.6
2 532	F	M. J. B	46	15,	66		3	46	6.0 4.6	L 6. 6.6
4110	F	A. C	4.6	16,	66		2	46 44	44	**
4105	F .	A. C	6.6	19,	4.6		3	64 ••••••	44	**

Summary of probational discharges.

	Males.	Females.	Total.
Number to whom probational leave was granted	23	35	58
Discharged, recovered	13	14	27
" improved		5	7
" unimproved Died before expiration of leave			4
Returned to Asylum	6	6	12
Absent on probation on 30th September, 1902	3	7	10

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TABLE No. 10.

Shewing in quinquennial period, the ages of those admitted, recovered and died during the year.

		Admitted	1.		Recovered	d.		Died.		
Ages,	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female	Total.	
From 10 to 15 years '' 16 to 20 '' '' 20 to 25 '' '' 25 to 30 '' '' 30 to 35 '' '' 30 to 55 '' '' 40 to 45 '' '' 50 to 55 '' '' 55 to 60 '' '' 60 to 55 '' '' 60 to 65 '' '' 70 to 75 '' '' 85 to 80 '' '' 85 to 90 '' '' 85 to 90 '' '' 90 to 95 '' '' 90 to 95 ''	2 3 4 11 11 11 4 9 5 4 7 5 		7 11 8 14 20 18 21 14 10 12 7 7 2 1 1	3 3 1 2 2 2 1 1		4 6 4 8 5 4 6 	1 2 3 1 6 2 6 3 1 1 1 1		1 1 3 4 1 6 4 9 4 2 3 8	
Totals	65	81	146	21	23	-44	27	17	44	

TABLE No. 11.

Periods.	Duration of insanity	Length of residence of those re-	Periods of tro discharg	eatment of th ged during th	
	prior to admission.	maining in a-ylum on 30th Sept.	Cured.	Improved.	Unimproved
Under 1 month From 1 to 2 months " 2 to 3 " " 3 to 4 " " 3 to 5 " " 5 to 6 " " 6 to 7 " " 9 to 10 " " 10 to 11 " " 12 to 18 " " 12 to 18 " " 12 to 18 " " 10 to 11 " " 10 to 5 " " 10 to 10 " " 10 to 11 " " 12 to 18 " " 10 to 5 " " 10 to 5 " " 10 to 5 " " 10 to 5 " " 10 to 5 " " 11 to 12 " " 12 to 18 " " 10 to 5 " " 11 to 12 " " 12 to 18 " " 10 to 5 " " 2 to 3 years " 2 to 3 years " 3 to 4 " " 5 to 6 " " 7 to 8 " " 9 to 10 " " 10 to 15 " " 10 to 15 " " 20 years and upwards	$ \begin{array}{c} 15\\ 19\\ 9\\ 7\\ 8\\ 5\\ 1\\ 4\\ 6\\ 1\\ 8\\ 3\\ 16\\ 7\\ 3\\ 9\\ 1\\ 1\\ 4\\ 2\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\ 8\\$	$\begin{array}{c} 14\\ 6\\ 15\\ 7\\ 9\\ 6\\ 15\\ 6\\ 8\\ 4\\ 12\\ 37\\ 25\\ 46\\ 63\\ 51\\ 57\\ 45\\ 33\\ 47\\ 35\\ 243\\ 142\\ 85\\ \end{array}$	3 3 2 2 3 3 5 2 1 1 1 6 3 3 2 1 1 1 1 1	3 2 1 1 1 1 1 1 1 3 	
Totals	146	1,017	-14	20	7

94

1

TABLE No. 12.

Shewing the nature of employment and the number of day's work performed by patients during the year.

	Number		Days worked.				
Nature of employment.	patients who worked.	Male.	Female.	Total.			
Carpenter's shop. Tailor's shop Shoe shop. Engineer's shop Mason work Bakery. Laundry. Dairy. Butcher's shop and slaughter house. Painting. Farm. Garden Stable. Kitchen Dining rooms. Officers' quarters. Sewing rooms. Netting. Mending. Wards. Storeroom. General.	$ \begin{array}{c} 4\\ 3\\ 4\\ 8\\ 10\\ 4\\ 33\\ 7\\ 4\\ 5\\ 36\\ 90\\ 7\\ 21\\ 65\\ 7\\ 58\\ 48\\ 22\\ 445\\ 4\\ 40\\ 005 \end{array} $	1,011 939 1,047 2,624 1,529 1,216 3,434 2,466 469 1,386 7,880 19,880 19,880 2,251 2,109 8,541 	4,786 14,133 2,270 16,061 13,044 3,723 68,331 8,383	$\begin{array}{c} 1,011\\ 9.49\\ 1,047\\ 2,624\\ 1,529\\ 1,216\\ 9,205\\ 2,466\\ 469\\ 1,386\\ 7,880\\ 9,251\\ 6,895\\ 22674\\ 2,270\\ 16,061\\ 13,044\\ 2,270\\ 16,061\\ 13,044\\ 3,723\\ 151,295\\ 389\\ 9,3,375\\ \end{array}$			
Total	925	145,127	136,502	281,629			

TABLE No. 13.

Shewing the Counties and Districts from which the patients remaining in residence on the 30th September, 1902, were originally received.

	1	1			1 4	
Counties and Districts.	Males. Female	nd Districts.	Counties and Districts	Ma'es.	Female	Total.
Algoms District. Brant Bruce Carleton Dufferin Elgin Essex Frontenac Grey Haldimand Halton Huron Kent Leendox and Addington Lincoln Middlesex Muskoka District Nipissing District	$ \begin{vmatrix} 35 & 39 \\ 1 & 3 \\ & 2 \\ 10 & 11 \\ & 2 \\ 1 & \\ 6 & \\ 49 & 38 \\ 18 & 27 \\ 19 & 21 \\ 2 & 1 \\ 2 & 1 \\ 2 & 1 \\ 1 & \\ 1 & \\ 30 & 22 \\ 2 & 2 \\ 2 & 2 \\ 2 & 2 \end{vmatrix} $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 Norfolk 4 Northumberland	23 5 1 3 3 1 1 4 3 1 1 1 27 29 54 79 20 477	$ \begin{array}{c} 29\\2\\4\\3\\5\\8\\2\\43\\43\\43\\43\\43\\41\\109\\27\\540\end{array} $	52 2 5 9 4 4 8 6 3 1 1 8 6 6 3 1 1 8 6 6 70 9 110 188 47

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	Asylum transferr'd to.	Toronto. Cobourg.
	trar	
	Occupation.	Home duties. Domestic. Domestic. Not stated Servant. Reme duties. Servant. Not stated Mome duties. Note atted Mome duties. Note. Domestic. Domestic. Home duties Note. Domestic. Rome duties Note. Note. Home duties Note. Not
Admitted by	-fitroO .9320	1 22 5 5 6 6 6 7 7 7 7 10 10 10 10 10
Admit	₩аг. галt.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
-		2 w'ks 2 w'ks 3 w'ks 3 w'ks 2 w'ks 2 w'ks 2 w'ks 1 1 1 1 1 2 3 1 2 5 6 6 6 6 6 6 6 7 8 1 2 5 1 2 5 1 2 1 2 1 2 5 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2
Duration	of insanity prior to admission. Years Mo's.	20 20 3 2 3 5 3 5 3 5 4 2 2 4 3 3 3 2 3 3 4 2 2 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 5 4 6 1 7 4 7 2 7 4 7 4 8 5 6 5 7 5 6 6 7 5 7 5
State.	Unmar- ried.	232 232 232 232 232 232 232 232 232 232
Social State.	Married or widow'd	111 111 111 111 111 111 111 111 111 11
	denomi- nations.	
Religious denominati n.	Metho- diet.	a) () () () () () () () () () () () () ()
deno	Presby.	
gious	Roman Catholic	
Reli	Ch. of Engl'nd	11
	Other countri's or or or	
ty.	United States.	
Nationality.	Scotch.	
Nati	Irish.	
	English.	1 3 3 3 3 3 3
	Cana. dian.	1 110 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	County originally admitted from.	York Haldimand Lincoln York Halton Simcoe K Welfugton York York Vork Vork Vork Vork Vork Vork Weltworth York Wentworth
Sex.	F emale.	22222222222222222222222222222222222222
ž	Male.	
	.өдА	88. 333 333 352 453 312 458 33 32 458 33 25 458 33 25 458 33 25 458 33 25 458 35 458 35 458 358 458 458 458 458 458 458 458 458 458 4
	Initials of persons transferr'd	RESERVED SOLUTION STRATES SOLUTION STRAT

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TABLE No. 15.

Shewing the number of articles made and repaired in sewing rooms during the year ending September 30th, 1902.

Articles.	Made.	Repaired.	Articles.	Made.	Repaired.
Aprons . Bed ticks Blouees Blinds . Bibs . Blankets . Caps (uniform) . Capes . Curtains (pairs) . Carpet-rag (balls) . Coats . Combination Suits . Counterpanes . Counterpanes . Counterpanes . Cuntions (fancy) . Doilies . Drayees . Drayees . Drayees . Drayees . Drayees . Jackets . Hate trimmed . Handkerchiefs . Lace, yards (knitted . Lounge covers (crocheted)	$\begin{array}{c} 762\\ 197\\ 19\\ 278\\ 132\\ \\ 107\\ 3\\ 562\\ 86\\ 81\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	2,672 3,145 2 7 23 4,159 231 231 1,216 36 460 10 2,250 7,332 98 12	Nightdresses Pillow ticks Fillow slips Pillowshams Pudding cloths Pants Sheets Shirts Stockings "footed Socks Skirts. Shrouds. Sofa pillows. Toilet covers Tidies Teable napkins. Tablecovers Tablecovers Tablecovers Table covers Tablecovers Tablecovers Uniform dresses. Uniform waists. Under vests Yests Wrappers	$\begin{array}{c} 292 \\ 4 \\ 1,036 \\ 24 \\ 36 \\ 1,051 \\ 662 \\ 850 \\ \hline \\ 568 \\ 322 \\ 42 \\ 5 \\ 30 \\ 7 \\ 21 \\ 877 \\ 36 \\ 100 \\ 16 \\ 8 \\ 4 \\ 87 \\ 6 \\ 11 \\ \hline \\ 16 \\ \end{array}$	3,260 450 2,746 935 4,176 3,574 75 4,617 1,345 295 295 296
Mitts, pairs Matress ticks	63 85	24	Total	10,366	$43,240\frac{1}{2}$

TABLE No. 16.

Number of articles passing through the laundry during the year ending 30th September, 1902.

Articles,	No.	Articles.	No. 23,998
Blankets Blinds Blouses Bed ticks Bibs Chemises Collars Corsets.	$9,765 \\ 40 \\ 1,679 \\ 6,223 \\ 4,303 \\ 44,598 \\ 9,536 \\ 96 \\ 1002 $	Pillow slips. Pillow shams Pillow ticks Pudding cloths Pants Sheets Skirts Stockings	51,361 3,256 401 500 28,496 75,214 22,148 25,216 25,216
Corset covers. Carpets Curtains Counterpanes. Cuffs (pairs) Coats Dreeses Drewers	$1,093 \\923 \\2,760 \\5,062 \\5,276 \\4,195 \\23,216 \\28,453$	Shirts. Socks (pairs). Suits. Towels. Tablecloths. Table napkins. Tidies. Toilet covers.	$\begin{array}{r} 32,794\\ 24,186\\ 229\\ 38,176\\ 22,453\\ 6,240\\ 742\\ 954 \end{array}$
Dusters. Handkerchiefs Jackets Mate. Neckties	3169,1752,764452 645	Undervests. Vests . Total	2,136 1,994 565,333

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TABLE No. 17.

Number of articles made and repaired in tailor's shop during the year ending 30th September, 1902.

Articles,	Made.	Repaired.	Articles.	Made.	Repaired.
Coats Vests	119 80	53 21	Overalls	33	
Trousers Coats (attendants' uniforms). Trousers "	$ 404 \\ 29 \\ 29 $	66 35 89	Total	704	264
Smocks	10	* * * * * * * * *	Summer jackets cut out to be made by seamstresses		252

TABLE No. 18.

Amount of work done in shoe shop during the year ending 30th September, 1902.

Articles.	New work	Repaired.	Articles.	New work	Repaired.
Shoes, pairs Cloth slippers Muffs, setts Braces.	$\frac{2}{7}$	170 7 4 3	Leather mitts, pairs Razor strops Total	24	6

TABLE No. 19.

Shewing the number of articles made and repaired in the carpenter's shop during the year ending September 30th, 1902.

Articles.	Made.	Repaired.	Articles.	Made.	Repaired.
Window blinds put up Easels. Carts Doors. Ottomaus Water-closet seats Lounges covered Hay racks. Refrigerators Sinks Ornamental tables. Wagon-reaches. Stepladders Bread-cutters Mat frames Handles, stone hammer '' sledge hammer Locks. Base-boards Chairs, rocking '' arm		27 6 5 171	Chairs, common Wagon boxes Meat boards. Barrel covers Towel rollers Tables Wardrobes Elevators Window stops "corda "parting strips "sash Large brushes Boxes for plants. Picture frames. Mirror frames. Perforated seats. Iron-ended " Wooden " Wooden " Pig troughs Fly screens Folding screens	4 6 6 3 6 24 14 6 4	$ \begin{array}{r} $

Put V matching on ceilings of six rooms. Made packing cases for Mrs. McMillan. Made packing cases for Mrs. Reynolds. Made 12 large polishing brushes for Cobourg Asylum. Built altar for R. C. service in Amusement Hall. Repaired ice-house doors.

Repaired lime house. New floor in water-closet in E.H , and put in new breast and seat for water-closet.

Shelves, etc., in shoe shop. Repaired floors in stables. General repairs to all farm buildings.

TABLE No. 19. -Continued.

Dryers in laundry.

Bath-room floors in O.H.

Bread wagon repaired.

Repaired quarry shed. Repaired Queen street steps.

Frequent repairs to sidewalks all round.

Packing cases for supplies sent to Cobourg Asylum.

Sharpened 130 pairs scissors.

Filed and set crosscut saws 65 times.

Removed wainscot from 15 single rooms, 8 dormitories and the hall.

Strapped and lathed the same for plaster. Fut on base on all the rooms and hall. Repaired the frames, doors, etc., all through the halls and rooms.

Put new joists down in concrete and laid new floor in 15 single rooms and 8 dormitories and hall in female basement ward, M.B.

Iron rods, etc., to stay roof farm barn. Shelves in library at Superintendent's house. Removed wainscot and floor, lowered joists and replaced damaged ones, laid rough floor for cement and tile in water closets, halls A. B. C. D and 1, 2, 3 and 4, M.B.

Put in door and fitted up storeroom with drawers and shelves, with partitions for clothing, etc., in hall B, M.B.

Removed wainscot, joists and floor in bath-rooms on halls 1 and A, and put in iron beams and wooden arches to receive the brick, cement and tile floor.

TABLE No. 20.

New work performed by Engineer during the year ending September 30th, 1902.

ORCHARD HOUSE: Pipe used, 140 feet 11 inch. Fittings used, tees 3, nipples 9, R. L. couplings 2,

ORCHARD HOUSE: Fipe used, 140 feet 12 inch. Fittings used, tees 3, hipples 3, K. D. couplings 2, elbows 10, and valves 2.
 NEW PIPES IN FEMALE BASEMENT: Pipe used, 100 feet 1 inch, 50 feet 1¼ inch. Fittings used, nipples 16, tees 5, elbows 14. Also 25 feet 1¼ pipe. Fittings-3 elbows, 1 tee, 6 nipples and 2 valves.
 NEW FEED PIPE FOR NEW BOILER IN WEST BOILER HOUSE: Pipe used, 40 feet 1½ inch. Fittings-

NEW FIED-FIFE FOR NEW BOILER IN WEST BOILER HOUSE: FIFE deed, 40 feet 12 men. Fittings— Elbows 4, tee 1, nipples 1, R. L. buckle, and pipe-straps 4.
 NEW FIFES FOR HOT AND COLD WATER FOR SINKS IN ORCHARD HOUSE: Pipe used, 100 feet ³/₄ inch; elbows 12, tees 12, nipples 24, compression cocks 24, and 24 pipe-straps.
 NEW FIFE ON RETURN HEATING: Pipe used, 110 feet 1¹/₂ inch; elbows 14, unions 4, nipples 39, and 4

Jenkins Globe valves.

WORK IN TYPE-WRITER'S ROOM : Material used, 3 sheets galvanized iron, 30 ft. 13 in.-pipe, 10 elbows, and 7 nipples.

NEW HEATING COIL IN DOCTOR'S BATH-ROOM, EAST HOUSE: Material used, 125 feet 11 inch pipe, 25 elbows, 7 pipe hangers, 2 Globe valves, 1 air cock, 4 nipples, 2 tees, and 2 unions, R. L. couplings 2, and return bends 4.

STEAM PIPE FOR HOT-WATER BOILER, E. H.: Pipe used, 40 feet 3 inch; elbows 5, 1 uniou, 1 Globe valve. DRAIN PIPE FROM SINK IN EAST HOUSE : Pipe used, 15 feet 4-inch ; elbows 2, tees 3.

HEATING PIPE TO FIRE HALL : Material used, 40 feet 3-inch pipe, 4 elbows, 1 union, 2 nipples, 1 Globe valve, and 1 tee.

DEIP PIPES IN ORCHARD HOUSE: Material used, 100 feet 3-in. pipe, 24 elbows, 4 Globe valves, and 6 pipe hangers. New WASTE PIPE FROM SINKS IN ORCHARD HOUSE : Material used, 60 feet 1-in. pipe, 12 elbows, 3 tees,

and 12 nipples

CLOSET TANK IN FRMALE BASEMENT RE-LINED : Material used, galvanized iron 2 sheets, and solder 3 lbs. RE-LINED WATER-CLOSET, EAST HOUSE : Material used, galvanized iron 2 sheets, and 2 lbs. tacks. EXHAUST PIPE ON PUMPS, EAST BOILER HOUSE, MAIN BUILDING : Material used, 90 feet 2-in. pipe, 3

- elbows, 2 tees, 1 union, 2 valves, and 12 pipe straps.
- DRIP PIPES FROM STEAM KETTLES IN O. H. : Material used, 25 feet 11-in. pipe, 2 tees, 10 elbows, 2 stop cocks and 2 unions.
- NEW COIL IN FRMALE BASEMENT: Material used, 200 feet 12-in. pipe, elbows 14, nipples 2, valves 2; also

NEW COIL IN FEMALE BASEMENT: Material used, 200 feet 1½-in. pipe, elbows 14, nipples 2, valves 2; also 14 feet 1-in. pipe, elbows 6, unions and nipples.
NEW RETEN PIPE IN ORCHARD HOUSE: Material used, 100 feet 1½-in. pipe, elbows 14, angle elbows 45, unions 1, steam coil pipe 125 feet, 1½-in. 24 return bends, 6 valves, and 4 R. L. couplings.
NEW FEED PIPE IN EAST BOILER HOUSE: Material used, 45 feet 1½-in pipe, 58 feet 1¼-in. pipe, and 4 valves.
NEW FEED PIPE FOR BOILER O. H.: Material used, 60 feet 1¼-in. pipe return from steam kettles, pipe 40 feet 1½-in., 4 elbows, 3 tees, 2 stop-cocks, and 6 nipples.
BOILERS, ORCHARD HOUSE: 24 square feet of new grates.
BURSAR'S WIRE FENCE REPAIRED : Material used, 176 feet 1-in. old pipe and 44 ft. 1½ in. pipe.
GENERAL REPAIRS : Valves, 635 ; water taps, 2,500 repaired and replaced ; beds repaired and replaced with new springs. 700 : stores and ranges renaired 50 : water closets attended to 230 times : steam

with new springs, 700 ; stoves and ranges repaired, 50 ; water closets attended to 230 times ; steam and other leaks attended to 575 times : washing machines repaired 80 times , steam pumps repaired 35 times ; baths repaired and cleaned out, 75 ; engine in new barn twice repaired ; engine in laundry 3 times repaired ; tinware repaired, 1,650 pieces ; electric lamps on grounds repaired different times ; braces and bolts made for carpenter; braces and bolts made for new harns; 50 window guards repaired and attended to; electric light on ground trimmed every 10 days; messenger's waggon repaired ; electric lights, incandescent, repaired and replaced, 500 ; shears elarpened for gardener 50 times ; shovels repaired for farmer ; grate bars replaced under boiler in barn ; wash-basin and tap in chief male attendant's room ; laundry wringers repaired ; refrigerators repaired, 2 ; drills for quarry made, 2; drills for quarry repaired and sharpened 50 times; spectacles repaired, 25 pairs; sinke attended to, 47; wash-basins attended, 30; bread waggon repaired twice; ropes on dumb waiters repaired and new ones placed 25 times ; other work not enumerated.

TABLE No. 21.

Showing work done by the Painter during the year ending Sept. 30th, 1902.

Work done.

October Painted greenhouse ontside, and put in 50 panes of glass

November. Painted Miss Rice's room and furniture, seven bedrooms and furniture on Hall B. M. B., and bronzed picture-frames at Orchard House.

December . . Painted Orchard House chairs and East House radiators, gas pipes and chairs.

January Painted one room for Matron, one room for Dr. Webster, 2 front halls, and whitewashed Nightwatch's rooms and balls. February...Painted 3 halls at Orchard House.

March.....Painted Hall 6, Orchard House, also hall, bedroome, dining-room and store room.

April. Finished Hall 6, Orchard House, nainted Matron's dining-room, Main Building. May Whitewashed 2 ceilings, front and back hall, main building.

June Painted East House bedrooms, floors and water-closets. July Bedroom floors, male and female, Main Building, Dr. Beemer's three rooms and furniture, and varnished Supervisor's furniture on Hall D.; also painted Attendant's room, Hall 3. August.....Painting Hospital; Supervisor's room, Hall A.; wardrobes, Orchard Honse; book-case, Dr. September, Russell's house. Numerous small tables and chairs for different parts of institution. and October. Painted cook's furniture at Hospital. Pictures painted and bronzed. September.

and October.

TABLE No. 22.

Work done by Mason during the year ending September 30th, 1902.

Month.

Work done.

February ... Whitewashed sub-ways and basement, Main Building.

March..... Plastered one side of bath-room on Hall 4, Orchard House.

April......Repaired three furnaces, West Boiler House, M. B. Built two brick boxes on ateam pipe leading to East House.

May Repaired two man-holes, brick-work, Orchard House ; also two stoves in Kitchen, Main Building.

.... Plastered in bath-room brick-work, and laid cement floor, Hall B., Main Building. June

July Plastered walls of female basement and bedrooms, Main Building ; plastered one bath-room on Hall 2, Main Building.

August....Plastered one water-closet and laid cement floor, Hall D., M. B.; plastered one water-closet and laid cement floor, Hall 4, M. B.; Hall C. water-closet plastered and laid floor, M. B. September. .Plastered walls of water-closet, Hall 3, and laid cement floor; plastered Hall B. water-closet, laid cement floor; Hall 2 water-closets plastered and cement floor laid.

TABLE No. 23.

Shewing the products of the garden during the year ending Sept. 30th, 1902.

	1		
Articles.	Quantities.	Price.	Value.
Apples	446 bushela	\$ c. 60	\$ c. 267 60
Asparagua	25 bunches	01	25
Beans	911 bushels	40 02	36 60 29 44
BeetsBeets	1,472 bunches 96 bushels	60	57 60
Citron	220	05	11 00
Carrote	1,300 bunches 376 bushels	$\frac{01}{20}$	$ \begin{array}{r} 13 & 00 \\ 75 & 20 \end{array} $
Carrots Cauliflower	789	05	39 45
Currants	2,013 quarts	05	100 65
Cucumbers	28,588 1,532 dozen	01 08	$ \begin{array}{r} 285 & 88 \\ 122 & 56 \end{array} $
Cabbage.	9,623 beads	04	384 92
Grapes	608 pounds!	03	18 24
Gooseberries	488 quarts	05 01	24 40 3 40
Lettnce.	8,615 ''	01	86 15
Onions	16,594 bunches	01 60	165 94 25 20
Onione Pumpkine	42 busbels 57	05	2 85
Parsnips	195 bushels	30	58 50
Peppere	bushel	75 40	38 15 60
Plume	322 "	40	128 80
Plants	30,000 bedding	08	2,400 00
Plants, annuals	5,000 "	02	100 00

Month.

TABLE No. 2	230	Cont	inu	ed.
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Articles.	Quantitiee.	Price.	Value.
Plants, G. H Pears, Peas, green Quince Radishes Rabishes Rhubarb Raspberries. Strawberries. Squash. Tomatoes. Turnips	3,000 " 32 bushels 159 " 31 " 5,175 bunches 174 bushels 1,350 " 4,266 quarts 2,667 " 1,506 3345 bushels 133 bushels	[\$ c. 25 1 25 32 1 50 01 60 02 05 05 05 30 20	\$ c. 750 00 40 00 60 88 5 25 51 75 104 40 227 00 213 30 133 35 75 30 100 35 27 60 \$\$6,242 79

TABLE No. 24.

Products of farm during year ending September 30th, 1902.

Produce.	Price.	Value.
Rye 6 acres, 169 bushele Fall Wheat 10 " 381 Spring Wheat 10 " 255 Oate 40 * 2,676 Hay 150 tone Straw 80 tons Potatoes 4,000 bushele Carrots 100 Turnips 1,500 Corn for silo 22 acres 275 tons Milk Milk 173,840 quarts Live Hogs 164	\$ c. 50 72 68 32 8 00 6 00 50 20 20 20 1 20 3	\$ c. 84 50 274 32 173 40 856 32 1,200 00 480 00 2,000 00 20 00 1,000 00 300 00 330 00 5,215 20 2,048 20 \$13,981 94

WOBK DONE ON FARM : 40 rods wire fence built ; 30 loads beach-gravel hauled ; 8 loads eand drawn.

TABLE No. 25.

Shewing quantity of milk and cost of feeding cows for the year ending 30th September, 1902.

Months.	Quarts of milk.	Value of milk at 3 cents per quart.	Cost of feed.	Value of milk over cost of feed.
October November December January February. March April June	12,004 14,320 14,048 15,464 15,160 15,652 15,764	\$ c. 469 32 435 36 393 12 391 44 360 12 429 60 421 44 463 92 454 80 469 56 472 92 453 60 5, 215 10	\$ c. 154 68 205 68 212 60 207 07 196 28 215 80 216 32 209 67 202 27 206 28 210 58 204 26 2.441 49	\$ c. 314 32 229 68 180 62 184 37 163 84 213 80 205 12 254 25 262 53 263 28 262 34 249 34 2,773 39

TABLE No. 26.

HAMILTON ASYLUM.-Farm Exchange Account.

ಲೆ ಕ್ಲಾ	772 61 110 00 13 65 13 65 13 65 13 85 13 85 13 85 13 85 13 95 13 13 95 13 95 14 95 1	87 84 87 84 87 84 96 55 86 65 7 00 150 00 150 00 150 00 110 97 00 110 57 84 00 84 00 30 60 30 80 30 br>30 80 30 30 80 30 30 30 80 30 30 30 30 30 30 30 30 30 30 30 30 30
Receipts.	R. Hunter, 3 dry cows R. Jamieson 1 R. Jamieson 1 1000, 200 lbs, at 6_{16}^{16} H. Glover, 1 1000, 200 lbs, at 6_{16}^{16} H. Stalker, 1 100, 180 (6_{16}^{16}) R. Stalker, 1 100, 180 (6_{16}^{16}) R. Stalker, 1 100, 300 lbs, at 6_{16}^{16} R. Stalker, 1 100, 300 lbs, at 6_{16}^{16} Thos. Hawking, 1 100 st 340 (190 st 6_{16}^{16} W. Lemon, 1 100 st 9_{16}^{16} (190 st 6_{16}^{16} W. Lemon, 1 100 st 9_{16}^{16} (190 st 6_{16}^{16} W. Lemon, 2 2 2 W. Lemon, 1 100 st 9_{16}^{16} (190 st 6_{16}^{16} W. Lemon, 2 2 2 W. Lemon, 2 2 2 W. Lemon, 2 2 2 46 W. Simith, 2 2 2 46 Smith, 3 3 3 46 Lask & Bailey, 95_1^{12} bus. wheat at 76 5 5 John Taylor, 1 5	an & Co., 9 live hogs, 1,570 lbs. at 1 dry cow ux, 2 pigs. 340 lbs. at 7c 0n, 1 dry cows an Co. 10 live hogs. 1,800 lbs. at 5g an Co. 3 live hogs. 1,800 lbs. at 5g ar Co. 3 live hogs. 1,800 lbs. at 5g ar Co. 3 live hogs. 1,680 lbs. at 5g ar Co. 4 live hogs. 1,680 lbs. at 5g ar Co. 4 live hogs. 1,680 lbs. at 5g ar Co. 4 live hogs. 1,680 lbs. at 5g ar Co. 4 live hogs. 1,680 lbs. at 5g ar Co. 4 live hogs. 1,680 lbs. at 5g ar Co. 4 live hogs. 1,680 lbs. at 5g ar Co. 4 live hogs. 1,680 lbs. at 5g ar Co. 4 live
	By balance	By balance
1901.	Oct. Nov. 27, 27, 1, 1, 1, 1, 2, 2, 2, 2, 2, 1, 1, 1, 1, 1, 2, 2, 2, 2, 2, 2, 1, 1, 1, 1, 1, 1, 1, 2, 2, 2, 3, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	Jan. 2. 1 Jan. 2. 1
ਹ #	187 25 333 33 333 33 333 33 333 33 333 33 333 33 333 33 333 33 333 33 333 33 333 33 333 34 335 56 335 56 335 56 335 56 35 56 35 56 36 55 37 56 38 56 39 56 57 50 56 56 57 50 56 56 57 56 57 57 58 56 57 57 58 57 58 58 58 58 58 58 58 58 58	
	84 2 3 3 2 3 2 2 2 4 2 3 3 2 3 2 3 2 3 2	07755

937 84	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	147<25	2,024 31 Carried forward
	To cash paid R. Huntor, 2 milch cows	To cash paid R. Hunter, 3 milch cows	Carried forward

ර ම	6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	10 lbs. at 7c 140 70 5 \$4.00 \$3.00 \$3.00 6 00	30 ibs. st63c 140 40 10 '' 5c. 37 00 10 '' \$6 80 88 40	15 " 7c, 8 05	2,024 31	1,182 89
Receipts.	Brought forward	Sept. 16. By cash from F. W. Fearman Co., 11 live hogs, 2,010 lbs. at 7c 140 70 19. K. Hunter, 2 dry cows 80 00 22. A. J. Olmsted, 2 young piga b \$4.00 8 00 19. 10. McGowan, 2 900 piga 9, 2000 6 00	F. W. Fearman Co., 11 livehogs, 2,080 lbs. at 63c 1 2 7 .00 5c. 7 .00 6c. 80	Geo. Nichol, 1 " 1		Oct. 1. By balance1,182 89
1902.	Brought forwar	Sept. 16. By cash from 19	3 3 3	29.		Oct. 1. By balance
ບ ອຈ	2,024 31				2,024-31	
Disburssments.	Brought forward					
1902.	Brought					

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ANNUAL REPORT OF THE MEDICAL SUPERINTENDENT OF THE ASYLUM FOR THE INSANE, MIMICO, FOR THE YEAR ENDING SETEMBER 30TH, 1902.

Mimico, October 4th, 1902.

To Robert Christie, Esq.,

Inspector of Asylums, Ontario :

Sir,—In accordance with the requirement of the statute, I have the honor to submit herewith the Eight Annual Report of this Asylum for year ending 30th September, 1902.

	Male.	Female.	Total.
There were in residence on October 1st, 1901 Admitted during the year by warrant certificates	$303 \\ 31 \\ 33 \\ 64$	302 14 53 67	605 45 86 131
Total number under treatment during the year	367	369	736
Discharged during the year recovered """"""""""""""""""""""""""""""""	22 3 1	21 3	43 6 1
Total number discharged during the year	$ \begin{array}{r} 26 \\ 18 \\ 1 \end{array} $	$\frac{24}{15}$	50 33 1
" transferred "	25 70	31	56 140
Total number leaving institution during year Remaining in Asylum, September 30th, 1902	297	299	596

Admissions.

By an unusual coincidence, exactly the same number of patients were admitted during the past year as were admitted during the previous year, namely, 131; 64 being men and 67 women. Of this number 31 men and 14 women were admitted by Lieutenant Governor's warrant, while 32 men and 53 women were admitted by medical certificates. Of the 131 patients admitted 15 were over 60 years of age, and in 45 the mental disease had already become chronic, so that there was a much smaller number of the admissions who were recoverable, than would appear at first glance.

Died.

That the admissions of two succeeding years should number exactly the same is unusual, but it is still more remarkable that the deaths of these two years should also reach the same total, namely, 33. Of this number one half died from phthisis, epilepsy and exhaustion of acute mental diseases.

Discharges.

There were 50 patients discharged during the year, 26 men and 24 women, and, while the number is smaller than that of the previous year, it is relatively a large percentage of those who were not already chronics at the time of their admission.

Garden and Grounds.

During the past year the road along the lake side of the park grounds has been completed, and that along the east side has been almost finished, so that these grounds are now practically surrounded by good roads, and the newly made park itself has already become ornamental in appearance. In a very few years this park will be of equal value to the recreation ground adjoining it on the west, for it will afford the necessary shaded space requisite for the whole six hundred patients to enjoy a daily outing, under the trees and by the side of the water.

No doubt the indoor amusements are highly beneficial, and are properly assigned an important place in the management of the insane; and there is equally no doubt that facilities for a daily outing by the side of the lake in the warm weather, are as much appreciated and enjoyed by the patients themselves.

The grading between the women's cottages and the road around the recreation ground, has been so far advanced, that the side-walk has been moved out to an equal distance with that in front of the men's cottages, and the whole appearance of this part of the grounds has been much improved.

Although the area of garden land is much too small for the needs of the Institution, the yield of fruits and vegetables has been satisfactory, considering the limited acreage under cultivation. There is fortunately an excellent crop of apples in the orchard this year, and this will in a measure lessen the inconvenience entailed by a shortage in the crop of potatoes on the farm.

Farm.

The under draining which Mr. Boulton has accomplished during the past several years has so much improved the farm laud that even in an unusually wet season like the present, the crops, as a rule, have not been materially injured by the frequent rains.

The milk product of the dairy has been satisfactory, and the management of the piggery has been attended with profitable returns. The yield of roots and grain and ensilage has been a good average.

Reconstruction of Laundry.

The work of the laundry reconstruction has been unavoidably delayed by reason of structural changes in that part of the centre building which is to be devoted to this purpose. The Engineer, Mr. Gourley, however, has the work well in hand, and before the end of the present fiscal year it is to be hoped the capacity for laundry work will be nearly doubled, and the greater safety of the patients who are daily engaged in that department will be at the same time secured.

When this reconstruction is completed one of the greatest defects in the original plans of this Institution will be removed, and greatly increased opportunities will be afforded for useful occupation for female patients.

Repainting Kitchen and Men's Cottages.

Cottages (B) and C, on the male side, and the general kitchen in the centre building have been newly painted during the past year. With such large areas to cover, and only the service of an attendant painter, with the help of a few male patients, this work must necessarily proceed slowly, while there is still great need in other cottages and other buildings for additional painting. This need will be overtaken as rapidly as possible.

Incandescent Arc Lights.

Another great need of this Institution has been supplied during the past year by the installation of a system of incandescent arc lamps for lighting the grounds. For several years past the old Ball system of lighting has been of very little practical use, owing to the defective condition of the dynamo and the worn out condition of the lamps. Late last fall the new lamps were purchased, and during the past summer the Engineer has crected poles and placed the lamps at convenient stations, so that now, for the first time in the history of the Institution, is there anything like adequate service for lighting the grounds.

Slaughter House.

The small slaughter house which was erected during the latter part of last year has afforded the necessary facilities for the butcher to attend to the killing of the cattle on the premises at the farm; and, although the experience has not yet been extended enough to enable me to place before you a comparative statement showing the advantage of the change, there is no doubt that, besides the greater convenience, there will, in a series of years be a substantial saving in money to the institution.

Dormitories in Cottage 5.

When Cottages 5 and E were erected the plastering of the walls in some places was done on wire lath, which allowed the plaster to break easily when subjected to the least interference on the part of the patients, and for sveral years past the walls in one of the halls and some of the dormitories in these cottages have been in a very dilapidated condition.

During the past summer the Mason has been able to entirely renew the lath and plastering in these dormitories in Cottage 5, and they are now for the first time in several years, in a presentable condition. If possible, the walls in Cottage E will be similarly treated during the coming year.

Sidewalks.

With the passage of time, the wooden sidewalks around the Cottages and those leading to the front gate, and to the lake, have become decayed, and, though frequently repaired, in some places they have become dangerous to pedestrians. In the early spring a large section (225 yards) from Cottage 2 to the lake, was replaced by a walk made of stones and cinders, and it is proposed next year, if possible, to make a similar walk along the whole lake front. A small section of granolithic walk is at present being laid down by the mason in front of Cottage E, and if it prove satisfactory it will be extended next year as far as possible in front of the other men's Cottages.

Remodelling Interior of Administration Building.

During the past year a large amount of excellent work has been accomplished in remodelling and renovating the interior of the administration building, which for many years has been in an insanitary condition. By the occupation of a room on the ground floor, for the officers' dining room, it became possible to close the shaft which was formerly used for a hoist for the meals, and this change eliminated a double source of danger, namely, of fire, and the introduction of impure air from the basement into the living rooms of the officers. The closing of the tlues leading from the basement into the rooms above and the building of a brick partition in the subway, with the closing of the shaft above mentioned, have effectually blocked the entrance into this building of a current of warm and contaminated air from the boiler house and basement sculleries, which for so many years had caused so much discomfort to the occupants of these quarters. The work of re-allocating the quarters in this building on a basis in keeping with the rank of the officers occupying them, has also been carried into effect, and the old dilapidated furnishings have been replaced by those of more modern and substantial design and quality. The insanitary lavatories on three floors have also been entirely remodelled and new plumbing introduced throughout, and nearly all of the interior of this building has been repainted.

Increase of Wages.

For many years the Government has been urged by Medical Superintendents to make some provision for increased wages for employees, who have been engaged in the service for many years, and all these officers were gratified when, at the last session of the Legislature, the Honorable, the Provincial Secretary, introduced the necessary legislation to make this desirable change possible. The effect of this annual increase in wages will be wholesome upon the whole staff of male employees, for every man will now feel that with lengthened experience and increased capacity for usefulness, there will at least be some recognition in augmented remuneration.

Adjoining Land.

In my annual report of 1895, in dealing with the subject of sewage disposal, it was shown that the acquisition of more land would make a better method possible. In the annual reports of 1896-97-98-99-1900 and 1901 1 have endeavored to point out some of the advantages which would accrue to the Institution from the purchase of some additional hand on the west side of this Asylum property; but, while you have given me your concurrence, and the Ministers in charge have personally assented to the desirability of making the purchase, the land has not yet been acquired. For garden and sewage purposes the land would be of greater value to the lnstitution than it could possibly be to any other owner, and once more 1 would earnestly recommend that you endeavor to persuade the Government of our urgent need of this property.

School.

It is a matter of common observation to Medical Officers in Asylums that those patients who have passed through the acute stages of the various forms of mental disease, and have reached that condition known as dementia, are capable of instruction in many useful occupations about the Institution.

For many years it has appeared to the writer that this capacity to learn to be useful might with advantage be directed to the acquirement of a moderate degree of proficiency in those preliminary subjects upon which children receive instruction in the common schools.

Although in dementia, the attention, perception, memory, judgment, and initiative, are impaired, it seemed possible that all of these mental qualities might at least be strengthened by systematic instruction and increased energising within the limit of each individual capacity. In many cases idiots and imbeciles are greatly benefited by systematic instruction in the simple elementary branches and in kindergarten work, and why should not demented patients, who are often the mental superiors of these classes, also receive benefit from similar management? Chance favored the experiment, and with the admission of a High School teacher suffering from delusional insanity, the opportunity offered for testing the theory. Twenty one male pupils were selected, chiefly from the ranks of the dements, and these men spent one hour and a half every morning under the tuition of this accomplished teacher, who only instructed his classes in reading, writing and arithmetic.

The interest manifested by these patient pupils was much greater than was anticipated, and in a month's time the common expression among them was that they greatly enjoyed their little school. The progress made by some of these pupils was beyond our expectation, and one man, a French man, who could formerly speak English, but who could not read it, was able by the end of the winter's course to read everything in the second book and also to write to his friends in English.

Deductions from limited premises are very liable to be misleading, and from this very inconsiderable experience it would not be safe to form any settled conclusions; yet the fact cannot be disputed that these men were happier and more contented because they were interested in and learning something new to them. There is, too, another significant fact connected with this experiment, which, however, may be only accidental, namely, that of the twenty-one patient pupils who attended this school, seven of them have since returned home to their friends.

Sunday Services.

The Clergymen at Mimico continue to conduct the services here on Sunday mornings, and it has now become so much of a habit to expect them that we almost forget the voluntary character of these genelemen's ministrations.

Whenever the Methodist or Presbyterian Clergymen have been unavoidably absent, Rev. Canon Tremayne, with his characteristic unselfishness, has most willingly filled their places. Rev. Dr. Teefy and Rev. Father Murray of St. Michael's College have faithfully attended those of the Roman Catholic faith who have been ill, and Rev. Father Sullivan has conducted services occasionally during the year.

Officers and Employees.

There have been more than the usual number of changes among both the officers and employees during the past year, a good many of the latter having been attracted to other callings by the larger measure of remuneration offered them.

Mrs. Elkin resigned her place as chief female attendant on 31st December, 1901, and Mrs. Fish succeeded her on 1st January, 1902. Dr. Barber was transferred to Rockwood Hospital for Insane at Kingston, and Dr. Forster of that Institution filled his place here on July 2nd, 1902; one month later Dr. McNaughton was appointed to a position at the London Asylum, and Dr. St. Charles of the Hamilton Asylum filled the vacancy here. In conclusion, I have the honor to express my gratitude to yourself for your counsel and co-operation in many subjects of great moment to the institution, and also my appreciation of the earnest devotion of the officers and employees to their various duties.

I have the honor to be. Sir.

Your obedient servant,

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N. H. BEEMER.

ANNUAL STATISTICAL REPORT

Of the operations of the Asylum for Insane, Mimico, for the year ending 30th September, 1902.

TABLE No. 1.

Shewing movements of patients in the Asylum for the official year ending September 30th, 1902.

	Male.	Female.	Total.	Male.	Female.	Total.
Remaining, October 1st, 1901 Admitted during year : By Lieutenant-Governor's Warrant '` Medical Certificate	31 33	14 53	45 86	303 64	3 02 67	605 131
Total number under treatment during year Discharges during year : As recovered "improved "unimproved Total number of discharges during year Died Eloped Transferred	$ \begin{array}{r} 22 \\ 3 \\ 1 \\ \hline 26 \\ 18 \\ 1 \\ 25 \\ \end{array} $	$\begin{array}{c} 21\\3\\ \hline \\ 24\\15\\ \hline \\ 31 \end{array}$	43 6 1 50 33 1 56	367	369	736
Remaining in Asylum, 30th September, 1902	: 			297	299	596
Total number admitted since opening of Asylum " discharged " died " eloped " transferred " remaining, 30th September, 1902	176 196 13 118	164 182 	$340 \\ 378 \\ 13 \\ 256 $	503 297	783 484 299	1,583 987 596
Number of applications on file	1	10	11			

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TABLE No 2.

Shewing the maximum and minimum number of patients resident in the Asylum, the total number of days' stay of patients, and the daily average number of patients in the Asylum, from the 1st October, 1901, to 30th September, 1902.

· · · · · · · · · · · · · · · · · · ·	Male.	Female.	Total.
Maximum number of patients in residence (on the 26th of October)	$306 \\ 282 \\ 107,764 \\ 295.24$	302	608
Minimum """"" (on the 16th of April)		238	570
Collective days' stay of all patients in residence during year		107,629	215,393
Daily average population		294.88	590.12

	Admi	issions of	year.	Total admissions since opening.				
	Male.	Female.	Total.	Male.	Female.	Total.	Total.	
Social state.								
Married Widowed	22	42	64	260	410	670	734	
Single	42	25	67	476	306	782	849	
Total	64	67	131	736	716	1,452	1,583	
Religion.								
Presbyterians Episcopalians Methodists Baptists Congregationalists Roman Catholics Mennonites Ouakers	$ \begin{array}{r} 14 \\ 11 \\ 14 \\ 2 \\ 17 \\ \\ 17 \\ \\ 17 \\ \\ 17 \\ \\ \\ 14 \\ 2 \\ \\ 17 \\ \\ \\ \\ 17 \\ $	19 14 18 7 2 3	33 25 32 9 2 20	$145 \\ 143 \\ 166 \\ 25 \\ 2 \\ 178 \\$	$123 \\ 159 \\ 175 \\ 27 \\ 2 \\ 170 \\ \dots$	$268 \\ 302 \\ 341 \\ 52 \\ 4 \\ 348 \\$	$301 \\ 327 \\ 373 \\ 61 \\ 6 \\ 368$	
Infidels Other denominations Not reported	5 1	2 2	73	47 30	28 32	75 62	82 65	
Total	64	67	131	736	716	1,452	1,583	
Nationalities.								
English Irish Scotch Canadian United States. Other countries Unknown	9 3 45 1 2	$12 \\ 1 \\ 4 \\ 48 \\ 1 \\ 1 \\ 1$	$21 \\ 4 \\ 7 \\ 93 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ $	88 110 33 460 12 19 14	$ \begin{array}{r} 66\\ 137\\ 45\\ 428\\ 15\\ 13\\ 12\\ \end{array} $	$154 \\ 247 \\ 78 \\ 888 \\ 27 \\ 32 \\ 26$	$175 \\ 251 \\ 85 \\ 981 \\ 29 \\ 34 \\ 28$	
Total	64	67	131	736	716	1,452	1,583	

TABLE No. 3.

Shewing the Counties from which patients have been admitted up to 30th September, 1902.

0	Admit	Admitted during year.			Total admittance.			
Counties.	Male.	Female.	Total.	Male.	Female.	Total.	Total.	
Algoma District Brant	2	3 1	5	8 7	83	16 10	21 11	
Bruce Carleton	$\begin{array}{c c} 1\\ \dots\\ 2 \end{array}$		$\frac{1}{2}$	$\begin{array}{c}2\\10\\2\end{array}$		$5 \\ 21 \\ 3$		
Elgin Essex Frontenac	1	••••••••••••••••••••••••••••••••••••••	1	6 4 9	$2 \\ 14$		6 7 23	
Grey Haldimand Halton			• • • • • • • • • •	$\begin{array}{c} 17\\1\\3\end{array}$		$\frac{26}{2}$		
Hastings Huron Kent		1 	1	$\begin{array}{c} 22 \\ 5 \\ 4 \end{array}$	30 4	$52 \\ 9 \\ 4$	53 9 4	
Lambton Lanark Leeds and Grenville	 	• • • • • • • • • • • • • • • • • • •	· · · · · · · · · ·	5 9 5	3 8 9		8 17 14	
Lennox and Addington Lincoln Middlesex	••••	· · · · · · · · · · · · · · · · · · ·		$\begin{array}{c} 4\\1\\14\end{array}$	5 1 5	9 2 19	9 2 19	
Muskoka District Nipissing Norfolk	43	2	6 3	15 19 3	9 6 4	24 25 7	30 28 7	
Northumberland and Durham Ontario Oxford	3	1 5	1 8	29 52 9	29 58 2	58 110 11	59 118 11	
Parry Sound Peel Perth	$\frac{2}{4}$ $\frac{1}{2}$	3 3 8	5 7 1 10	$ 15 \\ 31 \\ 6 \\ 46 $	5 35 2 47	20 66 8 93	25 73 9 103	
Peterborougb Prescott and Russell Prince Edward. Rainy River.		。 		40 7 2 5	41 6 3	95 11 8 8	103 11 8 13	
Renfrew	10	10	20	4 79 6	5 76 8	9 155 14	9 175 14	
Thuader Bay Victoria Waterloo	$2 \\ 2$	9	$\begin{array}{c}2\\11\end{array}$			10 96 6	$12 \\ 107 \\ 6$	
Wellington Wentworth				1	2 3 5	3 3 5	3 3 5	
York Not classed	21	20	41	204	227 3	431 11	472	
Total admissions	64	67	131	736	716	1,452	1,583	

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TABLE No. 4.

Shewing the Counties from which warranted cases have been admitted up to 30th September, 1902.

	Admitted during year.			Tota	Total.		
Counties.	Male.	Female,	Total.	Male.	Female.	Total.	Totan.
Algoma District	2		2	4	3	7	9
Brant			-	3	il	4	4
Bruce	1		1	ĭ	ī	2	3
Carletón	_ *			8	6	14	14
Dufferin				1	1	2	2
Elgin				4	l	4	4
Essex					1	1	1
Frontenac				3	7	10	10
Parry Sound	2	1	3	11	7	18	18
Haldimand				12	- 3	15	18
Halton		1	1	1		1	1
Hastings				17	21	38	39
Huron.				1	1	2	2
Kent				4]	4	4
Lambton				4	3	7	7
Lanark				7	6	13	13
Leeds and Grenville				3	5	8	8
Lennox and Addington				3	5	8	8
Nipissing	1		1	14	1	15	16
Middlesex				7	1	8	8
Muskoka District	2	1	3	8	2	10	13
Norfolk				2	1	3	3
Northumberland and Durham				16	14	30	- 30
Ontario	1	2	5	31	13	44	-47
Oxford				7	2	9	9
Peel				21	17	38	38
Perth	1		1	3		3	4
Peterborough		1	1	33	19	52	53
Prescott and Russell				7	3	10	10
Prince Edward				2	2	4	4
Rainy River	3	1	4	3	3	6	10
Renfrew				4	3	7	-7
Simcoe	3	1	4	35	20	55	59
Stormont, Dundas and Glengarry	2		23	3		7	9 62
Victoria	1	2	3	33	26	59	8
Thunder Bay	*****	• • • • • • • •		6	2	8	4
Waterloo				3 2	$\frac{1}{2}$	4	4
Welland				Z	1	4	
Wellington						3	
Wentworth	10	4	16	137	137	274	290
York	12	4		10/	157	4	4
Not classed				1	J		
Total admissions	31	14	45	465	351	816	861
Total admissions	01	1.1	10	100	001	OTO.	

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TABLE No. 5.

Shewing the length of Residence in the Asylum of those discharged during the year.

	1-141-1	9		When the bound	Dura
No.	Initials.	Sex.	When admitted.	When discharged.	Remarks.
			,		
1	W. J. McL	М	August 13, 1900	. October 1, 1901	Recovered.
2	L. S	F	December 1, "	. October 24, "	66
3	J. B	M	February 20, 1901	November 1,	66
4 5	C. J. A	M F	July 11, " July 5, "	November 0,	6.6
6	B. B	M	May 11, 1900	November 14, "	66
7	D. C	M	July 3, 1901	November 14. **	4.6
8	P. M. M	F	January 31, 1899	November 14, "	66
9	M. C	F	July 4, 1901	December 4, "	Improved.
10	S. D	M	April 20, " February 6 "	January 6, 1902	Recovered.
12	A. Z	Г М	February 6, " November 8, 1899	January (,	4.6
13	T. D. McC	M	April 21, 1900	January 24, "	Improved.
14	A. L	M	May 1, 1901	January 28. "	Recovered.
15	W.S	M	February 28, 1900	January 29, "	Improved.
16	J. M	M			Recovered.
17 18	D. M	M F	June 26, 1901	rebruary c,	£ 6
10	E. H D. B	F M	November 14, 1900 July 6, 1901	February 13, " March 7, "	**
20	H. A	M	July 8, "	March S, "	16
21	A. D	F	April 4, 1900	March 10, "	6.6
22	E. N	F	April 5, 1901		64
23	B. F	F	September 18, "	. May 1, "	66
$\frac{24}{25}$	C. A	M F	February 18, 1902	May 12,	4.6
20	F. M F. G	F M	December 10, 1900 January 20, 1902		6.6
27	M. J.	F	February 8, "		6.6
28	R. S	Μ	May 3, 1899	June 20, "	**
29	W.B	M	December 7, 1900	June 24. "	6.6
30	M. E. T	F	March 26, 1902	July 7, "	
$\frac{31}{32}$	M. T W. A. S	F M	November 23, 1900 March 12, 1902	July 8,	66
33	J.)A	M F	March 12, 1902 October 23, 1901		6 6
34	E. L	М	November 30, "	July 22. "	+ 6
35	J. de G	Μ	May 14, 1902	August 6, "	Unimproved.
36	M. C	F	August 10, 1901		Recovered.
37	L. A	M	April 20, 1900	August 8,	
38 39	J. B., jr C. N	M	August 23, 1901 October 16, 1897		14
40	A. T	M	February 25, 1902		Improved.
41	M. M. F	F	April 17, "	August 11, "	44
42	E. R. Q	F	January 23, ''	August 22, "	Recovered.
43	A. S	F	February 15, 1901		66 66
44	E. S. S	F	January 3, 1902	September 15,	Improved.
45	J. F J. P	F	May 27, " March 7, 1901	September 16, "	Recovered.
47	A. S	F	August 1, 1899		8.6
48	R. J. E	M	May 7, 1901	September 30, "	4.6
49	M. B. C. M. W	F	March 18, 1902	September 30, "	6.6 6.6
50	C. M. W	F	May 22, 1902	September 30, ''	
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TABLE No. 6.

Shewing age, length of residence and proximate cause of death of those who died during the year ending 30th September, 1902.

						sidence Asylum		
No .	Initials.	Sex.	Age.	Date of death.	Years.	Months.	Days.	Proximate cause of death.
$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\0\\1\\1\\2\\2\\3\\4\\2\\5\\6\\2\\7\\2\\8\\2\\3\\0\\3\\1\\2\\3\\3\\3\\3\\3\\3\\3\\3\\3\\3\\3\\3\\3\\3\\3\\3\\3$	E. B J. H. H E. H S. A. K C. H M. C W. J. W T. B E. H D. B. H P. D A. C W. K J. B E. McG W. K A. O S. G M. D M. B M. H E. W. K C. H. B T. McA R. S J. D M. J. McB W. C E. I E. I E. I E. H D. B. H E. M E. M E. M M. C M. B M. D M. B M. J. M M. J. M E. I E. I	F F F F M F	$\begin{array}{c} 47\\ 77\\ 47\\ 70\\ 326\\ 61\\ 40\\ 576\\ 57\\ 48\\ 44\\ 60\\ 466\\ 466\\ 466\\ 466\\ 466\\ 466\\ $	October 18, 1901 November 19, " " November 22, " " November 30, " " December 30, " " December 24, " " December 28, " " December 28, " " January 1, 1902 " January 2, " " January 4, " " January 5, " " January 6, " " January 10, " " January 11, " " January 5, " " January 6, " " January 11, " " January 14, " " January 14, " " January 14, " " January 17, " " February 17, " " February 18, " " March 23, " " April 11, " " June 3, " " June 3, " " July 31, " " August 7, " " September 20, " " September	$ \begin{array}{c} & & & \\ & & & $	9 22 6 4 3 4 6 10 10 2 11 3 2 8 1 8 9 10 11 2 7 9 5 8 3 6 8 9 2 2 8 9 2 2 8 10 10 10 10 10 10 10 10 10 10 10 10 10	$\begin{array}{c} 29\\ 5\\ 3\\ 17\\ 30\\ 19\\ 10\\ 3\\ 25\\ 5\\ 19\\ 20\\ 28\\ 5\\ 14\\ 22\\ 7\\ 2\\ 11\\ 19\\ 6\\ 15\\ 4\\ 26\\ 2\\ 17\\ 7\\ 21\\ \end{array}$	Epilepsy. Senile debility. Phthisis. Ex. of mania Apoplexy. Ex. of mania. Apoplexy. Ex. of mania. Apoplexy. Epilepsy. Ex. of melancholia. Cardiac disease. Pheumonia. General paresis. Phthisis. Sarcoma. Ex. of mania. General paresis. Ex. of mania. General paresis. Ex. of mania. General paresis. Ex. of mania. Cardiac disease. Phthisis. Sarcoma. Ex. of mania. Cerebral paresis. Cerebral Arthritis. General debility. Cerebral hemorrhage. Can. of Com. Bile Duct Phthisis. Ex. of melancholia. Can. of com. Bile Duct

TABLE No. 7.

Shewing trades, callings and occupations of patients admitted into the Asylum.

and the second se							
	Dui	ing the y	vear.	Durin	g former	years.	
Trades, callings and occupations.	Males.	Females.	Total.	Males.	Females.	Total.	Total.
Coachmen Civil servants Domestic servants, all kinds Dressmakers. Druggists Doctors Engineers Editors Farmers. Farmers. Fishermen Furriers. Gardeners. Gardeners. Gardeners. Gardeners. Hatters. Hatters. Hatters. Hatters. Hatters. Labourers. Labourers. Labourers. Laundresses. Lawyers. Lumbermen Milliners. Masons. Machinists. Mousic teachers. No occupation. Nurses. Not stated.			E 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2	$\begin{array}{c} & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\$		$\begin{array}{c} 3\\ 1\\ 1\\ 1\\ 2\\ 9\\ 9\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	$\begin{array}{c} 3\\ 1\\ 2\\ 2\\ 1\\ 9\\ 1\\ 1\\ 1\\ 2\\ 3\\ 4\\ 25\\ 4\\ 25\\ 4\\ 225\\ 4\\ 225\\ 4\\ 225\\ 4\\ 225\\ 4\\ 225\\ 4\\ 225\\ 1\\ 1\\ 1\\ 144\\ 17\\ 7\\ 5\\ 6\\ 1\\ 218\\ 2\\ 2\\ 232\\ 1\\ 2\\ 1\\ 5\\ 10\\ 3\\ 1\\ 103\\ 7\\ 7\\ 1_{5} \end{array}$
Other occupations Prostitutes Painters Peddlers. Stenographer. Spinisters	2	· · · · · · · · · · · ·		3 12 5 2 2	2 1 1 	5 12 6 3 30	5 12 8 2 3 30
Såilors Students Spinners Soda-water manufacturers				$\begin{array}{c} & 7 \\ 10 \\ \cdots \\ & 1 \end{array}$	6 1	7 16 1 1	7 16 1 1

TABLE No. 7.—Continued.

•	Dur	ing the y	ear.	Durin	g former	years.	
Trades, callings and occupations.	Males.	Females.	Total.	Males.	Females.	Total.	Total.
Showmen Shoemakers Seamstresses Station-masters. Soldiers. Surveyors Ship builders. Teachers. Teachers. Tailors. Tailors. Teamsters. Watchmakers Weavers. Wheelwrights Waggon-makers. Unknown or other employments Totals.	1 	2	2 1 1 3 1 1 	6 1 3 1 1 3 1 0 0 1 1 1 2 2 2 737	11 11 2 1 1 716	6 11 3 1 24 12 1 1 1 1 1 2 2 2 	6 11 2 1 3 1 25 15 1 1 1 1 2 2 4 1,583

TABLE No. 8.

Shewing causes of insanity.

	Nur	nher of in		n which e gned.	ach canse	W848
Causes of insanity. In respect of the admissions for the year ending 30th September, 1892,	As pr	edisposing	g cause.	As exciting cause.		
	Male.	Female.	Total.	Male.	Female.	Total.
Moral. Domestic troubles, including loss of relatives or friends. Religious excitement. Adverse circumstances, including business troubles Mental anxiety, "worry". Fright and nervous shocks Physical. Intemperance in drink. Veneral disease. Self-abuse, sexual Over-work. Sunstroke. Accident or injury. Pregnancy Puberty and change of life. Uterine disorders Brain disease, with epilepsy Other forms of brain disease. Other hodily diseases or disorders, including old age Fevers. Hereditary. With other ascertained cause in combination. With other ascertained cause in combination. With other ascertained cause in combination.	2 2 2 	1		1 5 5 2 3 4 1 1 6 6 6 	$ \begin{array}{c} 2 \\ 1 \\ \\ 6 \\ 2 \\ \\ 2 \\ \\ 4 \\ 1 \\ 4 \\ \\ 6 \\ 2 \\ \\ \\ 31 \\ \end{array} $	$ \begin{array}{c} 3\\ 1\\ 5\\ 11\\ 2\\ 2\\ 3\\ 6\\ 1\\ 4\\ 2\\ 9\\ 1\\ 7\\ 2\\ 9\\ 1\\ 7\\ 2\\ 66\\ 66\\ 1 \end{array} $
Total	64	67	131	64	67	131

TABLE No. 9.

Showing the probational discharges and the result thereof.

Reg. No.	Sex.	Initials.	Date o di		obat	ional	Term	of probatio	n.	Re	sult.
1 400		a									
1430 1328	M F	C. J. A	October		1901	••••				Discharged	recovered.
1328	F	M. J. E A. Z	44	8, 21,	6.6	• • • • • • • •		eks nth		Returned. Discharged	recovered
1330	M	B. A		26,	4.6					Returned.	recovered.
1428	М	D. B	November	21,	6.6		.1 "			Discharged	recovered.
1335	F	E. H	66	25,	6.6		2			66	6.6
1304		J. M	December		6 6 6 6		1			6.6	6.6
1420 1228	M	D. M E. J. W	66	24, 24,	6.6		I wee	ak ath		6 4 C	66
1408	M	A. L.	64	28.	6.6	••••••••••••••••••••••••••••••••••••••	1 *			66	46
1195	F	A. D. K	6.6	24.	6.6	••••••	1 wee	ek		Returned.	
1382	F	G. M	• •	25,	6.6		1 **			6.6	
1263	F	A. D	48	30,	6.6		2 moi	aths		Discharged	recovered.
1208	F	A. S	January	27,	1902		6		•	86 65	66
1448 1339	F	B. F	66	27, 30,	66	• • • • • • • •			• •	66	66
1048	M	C. N.	March	24,	+4	•••••	1 60			66	6.6
1481	M	F. G	44	28.	6.6	•••••	1 mo	nth		6.6	64
1458	F	I. A	April	1,	6.+	•••••	2 mo	nths		66	6 C
1344	F	M. T	6.6	14,	6.6		12 ···			4.6	6.
1376	F	A. S	May	1.	6.6 6.6		2			66	5.6
1442		M. I. B	66	12,	6.6		2			Returned.	
$\frac{1264}{1491}$	М F	L. A M. J	66	10, 17,	6.6		4	nth	•••	Discharged	recovered.
1181	М	R. S	6.6	19,	4.6		1 "		• •	6.8	6.6
1353	M	W. B	• 6	20.	+ 6		1 "		•••	6.6	6.6
1470	F	L. G	5 E	20,	66		2 moi	nths			
1443	M	J. B		20,	5.6		2		• •	Discharged	recovered.
1440		M. C	66	23,	6 E 6 6		2 "		• •	66	
1497 1498	M M	A. T G. McK	66	$\frac{23}{23}$	6.6		2	• • • • • • • • • • • • • • • • • • •			improved-
1431	F	J. H	6.6	29,	6.6	• • • • • • •		nths			
1500	М	W. A. S	June	11,	6.6		1 mo	nth		Discharged	recovered.
1158	F	A. H	6.6	11,	6.6		1 wee	ek		Discharged Returned.	
1211	F	I. McF		19,	66		$1 \mod$	nth	• •	66	
1361	M	D. B		19,	6 h		1.	· · · · · ·		66	
1269 1498	M M	J. M.	6.	28, 30.	46	• • • • • • • •	I wee	ek	•		
1498	M F	G. McK M. J. C	6.5	30,	66				• •	Discharged	recovered
1389	F	J. G	July	2,	6.6		2 "		• •		10001010Q.
1469	Μ	E. L. C	6.6	- 9,	66			nth		6.6	6.6
1294	M	IS. C	6.6	12,	6.6		$2 \mod$	nths	• •		
1411	M	R. J. E	66	12,	÷.*		2 "			Discharged	recovered.
1355	M	F. C	66	19, 19,		• • • • • • • • •	1 mo	nth	••	Still out.	
$1530 \\ 1503$	F F	C. M. W M. B	6.6	$\frac{19}{21}$	66	••••	2 mor	nths		Discharged	recovered.
1382	F	G. M	6.6	25.	6	•••••	2 "	• • • • • •		Still out.	
1462	M	H. M. G	August	6	66		2	• • • • • • • • •		"	
1158	F	A. H	6.5	6,	\$4		$1 \mod$	nth		Returned.	
1495	M	J. A. B	61	7,	6.6 + 6			nths*	• •	Still out.	
$\frac{739}{1522}$	M	P. G	66	11,	• 6		4		• •	46	
1522 1010	M F	J. C A. M. G		14, 6			2 1			66	
1362	M .	D. B	Sebremper	r 0, 6,	6.6	•••••	in the second se		•••	6.6	
1414	М	R. W	64	- 8.	66		3 "		•••	6.6	
1188	31	I. P	6.6	13,	66		3 "			6.6	
1463	M	C. McC	4.6	15,	£ 6		2 "		• •	66	
149 8	М	G. McK	6.6	16,	66		2 "		• •		
)	1						_		

SUMMARY OF PROBATIONAL DISCHARGES.

	Males.	Females	Total.	Males.	Females	Total.
Number to whom probational leave was granted . Discharged recovered	15	15		32	26	58
" improved Returned to asylum	5	8	13			
Absent on probation on 30th September, 1892	11	3	14	• • • • • • • •		

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TABLE No. 10.

Shewing in quinquennial period, the ages of those admitted, recovered and died during the year.

From 10 to 15 years. 2 2 4 \cdots 2 2 4 \cdots 2 2 \cdots <th< th=""><th></th><th>A</th><th>dmitte</th><th>i. </th><th>R</th><th>ecovere</th><th>ed.</th><th></th><th>Died.</th><th></th></th<>		A	dmitte	i.	R	ecovere	ed.		Died.	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Ages.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
Unknown,	15 20 "" " 20 "" " 20 "" " 20 "" " 20 "" " 20 "" " 20 "" " 30 "" " 35 "" " 35 "" " 35 "" " 35 "" " 35 "" " 35 "" " 35 "" " 40 "" " 40 "" " 45 "" " 55 "" " 55 "" " 55 "" " 55 "" " 55 "" " 55 "" " 55 "" " 60 "" " 70 "" " 80 "" <t< td=""><td></td><td>6 9 9 8 4 4 4 7 1 3 1 </td><td>9 17 24 16 19 8 7 8 8 2 1 3 1 4</td><td>4 4 5 1 2 2 1 3 </td><td>2 4 2 5 4 1 1 1 </td><td>8 6 10 5 3 3 2 3 1 </td><td>1 2 1 4 1 3 1 1 2 1 </td><td>1 1 2 3 2 4 </td><td>2 3 2 3 7 3 3 5 1 2 2 33 3 5 3 3 5 3 5 3 3 5 3 5 3 5 3 5</td></t<>		6 9 9 8 4 4 4 7 1 3 1 	9 17 24 16 19 8 7 8 8 2 1 3 1 4	4 4 5 1 2 2 1 3 	2 4 2 5 4 1 1 1 	8 6 10 5 3 3 2 3 1 	1 2 1 4 1 3 1 1 2 1 	1 1 2 3 2 4 	2 3 2 3 7 3 3 5 1 2 2 33 3 5 3 3 5 3 5 3 3 5 3 5 3 5 3 5

TABLE No. 11.

Periods.	Duration of insanity prior to admission.	Length of Asy- lum residence of those re- maining in Asylum on 30th Sept.	Periods of treat- ment of those who were dis- charged cured duriog the year.	Periods of treat- ment of those who were dis- ch ar ged im- proved during the year.	Periods of treat- ment of those who were dis- charged unim- proved during the year.
Under 1 month	$\begin{array}{c} 21 \\ 16 \\ 12 \\ 9 \\ 7 \\ 7 \\ 6 \\ 3 \\ 2 \\ \end{array}$	$11 \\ 14 \\ 9 \\ 10 \\ 10 \\ 13 \\ 11 \\ 4 \\ 16 \\ 5 \\ 5 \\ 327 \\ 39 \\ 46 \\ 36 \\ 27 \\ 25 \\ 24 \\ 53 \\ 22 \\ 19 \\ 167 \\ \cdots$	$ \begin{array}{c} 1 \\ 3 \\ $	2 2 2 2 2	1
" 20 years and upwards Totals	131	596	43	6	1

TABLE No. 12.

Shewing the nature of employment and the number of day's work performed by patients during the year.

	Number	1	Days worke	d.
Nature of employment.	patients who worked.	Male.	Female.	Total.
Carpenter shop Tailor's shop Shoe shop Engineer's shop Blacksmith's shop Mason work	5 5 2 9 	1,415 582 2,740 881	1,206	1,415 1,206 582 2,740 881
Repairing roads Wood yard and coal shed Bakery . Laundry Dairy Butcher's shop and slaughter house Piggery	3 20	973 1,141	5,059	973 6,200
Painting Farm Garden Grounds Stable Kitchen	4 10 11 25 4 15	1,043 3,153 3,498 7,902 1,362 2,066	1,983	1,043 3,153 3,498 7,902 1,392 4,049
Dinning rooms. Officers' quarters. Sewing rooms Knitting Spinning Mending	15 12 8 35 21	5,421 1,853 203	1,586 2,594 10,672 6,533	5,421 3,439 2,594 10,875 6,533
Wards Halls Storeroom General Subway Special Sewing	$21 \\ 1 \\ 230 \\ 8 \\ 40 \\ 32$	48 361 48,900 2,372 8,965	6,580 34,108 4,385 10,712	6,580 48 361 83,008 2,372 13,350 10,712
Total	540	94,879	85,418	180,297

TABLE No. 13

Shewing the Counties and Districts from which the patients remaining in residence on the 30th September, 1902, were originally received.

Counties and districts. Males.	Females.	Totals.	Counties and districts. Males	. Females. Totals	•
Algoma District	6	13	Norfolk 1	2	3
Brant 2	2	4	Northumberland 5	2	7
Bruce 1	2	3	Ontario 24	31 5	5
Carleton			Oxford 4	1	5
Dufferin 2	2	4	Parry Sound District 9	5 1.	4
Dundas			Peel 11	17 23	8
Durham 4	2	6	Perth 4		4
Elgin 2		2	Peterborough 20	24 44	4
Essex	2	2	Prescott		
Frontenac 1	1	2	Prince Edward	1	1
Glengairy			Rainy River District 8	4 15	2
Grenville			Renfrew		
Grey 10	5	15	Russell		
Haldimand 2	1	3	Simcoe 34	31 65	5
Halton	1	1	Stormont.		
Hastings 4	4	8	Thunder Bay District 5	1 (6
Huron 1	1	2	Victoria 23	28 51	1
Kent		2	Waterloo 2	2 4	4
Lambton	1	3	Welland	1 2	1
Lanark		I	Wellington	1 1	1
Leeds			Wentworth	3	3
Lennox and Addington			York	105 191	1
Lincoln 1		1	Not classed, unknown, etc		
Middlesex 2	3	5			-
Muskoka District 5	4	9	Total	299 596	5
Nipissing District 13	3	16			

		Asylum transferred to.	Cobourg
	Occupation.		Not stated Housekeeper School teacher Home duties Servant Frome duties Forwant Governess Governess Governess Governess Governess Governess Governess Governess Governess Governess Governess Governess Home duties to thome duties Manhornan Housekeeper Housekeeper Mone Housekeeper Housekeeper Servant Governestic None Housekeeper Borvant Home duties Servant Home duties Home duties Home duties Home duties Home duties Home duties
	Warrant. Admitted by the by th		
	Adm	Varrant.	
	Duration of insanity	Years. to alonths. alonths.	∞ 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	Dur	Years. 5	
	Social state.	Unmarried.	<u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u>
	Socia state.	Married or widowed.	M M M M M M M M M M M M M M M M M M M
		Other denomi- nations.	
	us tion.	Methodist.	
	Religious nominatio	Ргезрусстіяп.	
1	Religious denomination.	Roman Catholic.	
		Church of England.	
		Other countries or unknown.	
1	÷	United States.	
	Nationality.	Scotch.	
	ation	Irish.	
ï	4	English.	
		.nsibeneO	
		County originally admitted from.	York Halton Northumberland Ontario Brant York Lincoln Groy York Peterborough Hastings Northumberland York Durham Northumberland York Durham Northumberland York Ourham Ourham Northumberland York Ourham Ourham
	эх.	Female.	**************************************
	Sex.	Male.	
		.98A	888444882448848484848484848484848484848
		Initials of persons transferred.	MR MR C MR C MR C MR C MR MR C MR

TABLF No. 14. Patients transferred to other asylums.

1902

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	Occupation, transferred to.		Brockville.
			None. Laborer Printer. Printer. Nongrist Nongrist Laborer Calific maker. Ramer Laborer Carpenter Laborer Laborer Farmer Farmer Laborer
Admitted by		.9183fitrade.	0 00 0 0 0 0 0 0
Adm		.ЭпеттеW	
Duration of insanity	prior to admis- sion,	.sdinoM	12°°¢18818181°5°6°°0°5°1°8°°°°
Dura 0 insa	pr to ac Bic	Years.	5461-66666666660-7-0.8-6656666
te.	•]	Unmarried	waxwaxwaxwa waxwa waxaa wax
Social state.		to beitteM bewobiw	N N N N N N N N N N N N N N N N N N N
		Other dence.	
ions.	Methodist.		
Religious nominatio		Presbyteri	
Religious denominations.		Roman Catholic	
p		England	
	MD.	Other cour	
		uz bətiaU	
Nationslity.		Scotch.	
ation		I rish.	
Z		English.	
		Canadian.	
	County originally admitted from.		Middlesex York Ontario Ontario York Untario Peteriboro York York York Feel Feel Feel Feel Feel York York York York York
	Female.		
Sex.		.9[sI/	NHEMNENEMENEMENEMENEMENEME
		.93A	60 4 4 5 2 4 4 5 2 9 5 9 5 6 4 4 5 2 9 5 6 5 6 5 6 5 8 5 9 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5
	ed, persons	to sleitinl 1981enert	A G G G G G G G G G G G G G G G G G G G

TABLF. No14Concluded.Patients transferred to other asylums.

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TABLE 15.

Work done in Laundry for year ending September 30th, 1902.

Blouses 7 Collars 4,0 Confis 2,4 Counterpanes 1,8 Curtains 7 Coats 1,0	3 Pillow cases 22 Qoilts 19 Ruge 4 Sheets 4 Shirts 50 Socks	$\begin{array}{r} 4.163\\ 29,509\\ 84\\ 1,554\\ 49,202\\ 11,681\\ 10,526\end{array}$
Clothes bags. 3 Combination suits 7 Chemises. 11,3 Dusters 6 Dresses 5,3 Drawers. 6,3 Guernseys. 4,2 Handkerchiefs. 6,3 Neckties 1 Night dresses 3,1 Overalls. 1,0	Trousers Table napkins Tidies Tidies Table cloths Table cloths Towels, hand 9 do roller 92 do bath 94 95 96 97 10 98 99 10 11 12 13 14 14 15 15 16 17 18 19 10 11 14 14 15 15 16 17 18 19 10 10 11 14 14 14 15 16 17 18 19 10 10 <tr< td=""><td>156 902</td></tr<>	156 902

TABLE 16.

Washing done in Cottage's from October 1st, 1901, to September 30th, 1902.

Articles.	Male Cottages.	Female Cottages.	Total.	Articles.	Nale Cottages.	Female Cottages.	Total.
Aprons Blankets Bed ticks. Bath towels Cushion covers. Chemises. Counterpanes Curtaine, paire. Coats. Combination suits. Drawers Diaper towels. Dresses. Dish towels. Handkerchiefs. Mattress covers. Matts. Napkins, table Nightgowns. Nightgowns. Nightshirts. Oversil pants. '' jackets. Pillowcaees.	78 6 346 1,477 265 10,216 1,243 31 6	$7,719 \\ 137 \\ 137 \\ 11,037 \\ 181 \\ 48 \\ 190 \\ 233 \\ 9,715 \\ 1,528 \\ 2,692 \\ 10,434 \\ 6,776 \\ 25 \\ 121 \\ 3,194 \\ 5,073 \\ \\ 178 \\ 178 \\ 178 \\ 137 \\ 178 \\ 137 $	$\begin{array}{c} 7,923\\ 401\\ 79\\ 11,115\\ 54\\ 190\\ 3466\\ 233\\ 11,192\\ 1,793\\ 2.692\\ 20,650\\ 8,019\\ 556\\ 127\\ 3,194\\ 5,073\\ 955\\ 399\\ 33\\ 426 \end{array}$	Pillow ticke Pants Petticoats Quilte Rugs Roller towels Skirte, white Sheets Stockings Socks Shirts, cotton do flannel Shirt waists Tidies Ties Tolet covers Table cloths Uhiforms Underwaists Vests	16 13 153 395 5,564 1,262 1,179 164 23	$\begin{array}{c} 3,247\\ 20\\ 351\\ 9\\ 420\\ 14,904\\ \hline \\ 2000\\ 2,656\\ 92\\ 304\\ 49\\ 431\\ 178\\ 588\\ 1,235\\ 1,235\\ \end{array}$	$\begin{array}{c} 30\\ 610\\ 3,247\\ 35\\ 13\\ 504\\ 9\\ 815\\ 14,904\\ 5,564\\ 1,262\\ 1,179\\ 200\\ 2,656\\ 246\\ 304\\ 49\\ 431\\ 178\\ 588\\ 1,258\\ 118,634\\ \end{array}$

TABLE No. 17.

Work done in Sewing Room for year ending September 30th, 1902.

TABLE No. 18.

Sewing done in Cottage from October 1st, 1901, to September 30th, 1902.

		Made.		Repaired.			
Articles.	Male Cottages.	Female Cottages.	Totals.	Male Cottages.	Female Cottages.	Totals.	
A prons. " uniform. Blankets. Bed ticks. Braces. Blouses. Blouses. Box covers. Bath towels. Blinds. Counterpanes. Combination suits. Chemises. Cuffs, uniform. Curtaias, pairs. Cushion covers. Caps. Dresses. Dish towels. Drawers. Drawers. Daper towels. Handkerchiefs. Lace, yards.			170 73 7 13 38 8 69 40 360 96 160 	215 191 254 48 88 694 25 2,134 1,513 30 177	3,151 655 185 	3,366 846 439 48 367 71 187 409 5,893 207 139 694 25 4,677 2,169 6,264 155 177 1,001	

TABLE No. 18.—Continued.

Sewing done in Cottage from October 1st, 1901, to September 30th, 1902.

·		Made.		Repaired.			
Articles.	Male Cottages.	Female Cottages.	Totals.	Male Cottages.	Female Cottages.	Totals.	
Mitts. Matts Mattresses, re-made Mantel drapes Night gowns Night shirts. Neckties Overcosts Overcall, pants Overall, jackets. Pants Pillow cases. Pillow ticks. Petticoats Pillow ticks. Petticoats. Pillow shams Quits. Koller towels Rugs, canvas. Stockings. Stockings. Socks Shirts, flannel. Saddle bags. Shirts, cotton Sheets. Tablecloths Table covers. Tidies. Table napkins. Toilet covers.	35	$\begin{array}{c} & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & &$	$\begin{array}{c} 58\\ 38\\ 63\\ 48\\ 293\\ 58\\ \hline \\ 138\\ 96\\ 251\\ 481\\ \hline \\ 11\\ 124\\ 240\\ 5\\ 39\\ 3\\ 140\\ \hline \\ 31\\ \end{array}$	52 50 50 9 4 794 55 950 125 67 52 12 67 52 12 52 12 57 9 9 0 1,091 1,868 90	353 2,835 2,835 2,835 2,835 2,03 3,295 52 391 733 1,224 7,787 2,024 709 5 1,573 143	$\begin{array}{c} 52\\ 353\\ 50\\ 2,835\\ 53\\ 9\\ 4\\ 794\\ 55\\ 950\\ 1,747\\ 570\\ 3,295\\ 52\\ 391\\ 785\\ 1,236\\ 7,787\\ 3,599\\ 1,091\\ 1,868\\ 2,114\\ 709\\ 5\\ 1,573\\ 143\\ 143\\ \end{array}$	
Under vests Uniform dresses		$\begin{array}{r} 36\\14\\59\end{array}$	$36 \\ 14 \\ 59$	41	451 50	451 50 41	
Totals	68	3,273	3,341	14,357	45,439	59,796	

TABLE No. 19.

Work done in tailor shop from October 1st, 1901, to September 30th, 1902.

Articles.	Made and cut.	Re- paired.	Totals.	Articles.	Made snd cut.	Re- paired.	Totsls.
Aprons Blinds stitched Coats, serge, uniform "shirting " "tweed "Russil cord unif m. Chest protectors Drawers, flannel Dynamo covers Flannel belts	$20 \\ 37 \\ 123 \\ 2 \\ 2 \\ 234 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ $	674 112 1,188	$674 \\ 112 \\ 20 \\ 37 \\ 1,311 \\ 2 \\ 234 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ $	Overcoats Overall pants '' jackets Pants, serge uniform '' tweed Robes Shirts, flannel Vests Totals	125 69 38 112	90 2,071 1,567 1,846 21 	92 2,196 1,636 38 1,958 21 241 1,014 9,592

TABLE No. 20.

Work done in shoe shop from October 1st, 1901, to September 30th, 1902.

Articles.	Made and cut.	Re- paired.	Totals.	Articles.	Made and cut.		Totals.
Braces. Cricket pads " balls Cushions Harness, pieces Long boots, prs Lace " " Leatber trunks	13 19	2 1 66	$167 \\ 5 \\ 2 \\ 1 \\ 66 \\ 13 \\ 19 \\ 1$	Razor straps Skate " Straps on golf boxes Slippers Shoes and boots Totals	$50 \\ 9 \\ 134$	208 386 677	3 50 9 342 418 1,096

TABLE No. 21.

Work done in mason's department for year ending September 30th, 1902.

Name.	New work.	Re- paired.	Name.	New work.	Re- paired.
Cement floors laid Building foundation for weigh scales Cottages, walls repaired Door cut in electric room Boilers Windows cut and built, super- intendent's house Cornice in administration b'ldg Poor cut in coal house Engine bed at pump house "farm Plastering in cottage 5	2	4 1 1 1 1 1 1	Mantle built in administration building Door cut in sewing room Piers built for verandah Chimneys built at farm Brown stone cut and laid Engine bed built in boiler room Foundation built for engine house at farm Manhole at Farm Door cut in administr'n b'lding Doorway built in subway	11 2 50 ft. 1	

TABLE No. 22.

Work done in carpentering department from October 1st, 1901, to September 30th, 1902.

Work.	New.	Re- paired.	Work.	New.	Re- paired.
Ice house China cupboard Locks Doors Door frames. Window sash Storm sash Stairs Shutters. Picture moulding, feet. Mat frames. Floor rubbers Corner seats. Coffins. Packing cases Chairs. Bridge Curtain poles. Closet seats. Cupboards. Knife boxes	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c} 1 \\ \hline 109 \\ 98 \\ 20 \\ 37 \\ 60 \\ \hline 19 \\ 29 \\ \hline 7 \\ 16 \\ 46 \\ 46 \\ 2 \\ \hline 398 \\ 1 \\ \hline 97 \\ 13 \\ 9 \\ \end{array}$	Brooms Fly screens. Lounges. Gates Sideboards. Shelving, feet Tables. Wheelbarrows. Washstands. Blinds. Carts Horse stalls. Coal vaults. Verandabs. Engine house. Silo. Wardrobes. Weigh scales. Green houses. Book cases. Parlour screens. Base, feet.	11 6 	$ \begin{array}{c} 16\\ 7\\ 20\\ 3\\ 7\\ 9\\ 9\\ 8\\ 37\\ 4\\ 9\\ 1\\ 2\\ 1\\ 5\\ 1\\ 2\\ 6\\ \dots\\6\\ \end{array} $

TABLE No. 23.

Work done in engineering department for year ending September 30th, 1902.

	1				
Description.	New work.	Re- paired.	Description.	New work.	Re- paired.
Iron windlass for slaughter house. Hand pump	1	• • • • • • • • •	Water pipes		39 70
Laid waste-pipe from slaughter house to tank Lined water tank at farm with galvanized iron	150 ft.		Waiter ropes Valves Steam mangle Mop-holders		8 47 1 3
Smoke-box and pipe, and fitted with spark arrestor Wired rooms (electric)	1 7	• • • • • • • • •	Lids on steam kettles Lanterns Lawn sprinklers	· · · · · · · · · ·	$\begin{array}{c} 2\\12\\3\end{array}$
Wired wall brackets Put up wall brackets Put up lightning arrestors	5 2 3	••••••	Soil pipes Urinals (pipes) " removed	· · · · · · · · · · ·	9 11 2 19
Radiators put up Steam coils Closets fitted up Urinals	$\begin{array}{c} 2\\ 4\\ 1\end{array}$	· · · · · · · · · ·	Lawn mowers sharpened and re- paired Drains flushed		97
Bath tubs Iron columns to support smoke pipe in boiler-house fitted Made new arc lamp poles	3 2 11		Electric fixtures re-wired "" put up Hot water tank Packed flange unions		13 13 1 15
" supporting poles to hold up wires Made turn huckles	17 18		Electric wires tested " switches Steam pumps	• • • • • • • • • • • • • • • • • • •	15 13 3
" rollers for inside of arc lamp poles for raising and low- ering the lamps	42 11	•••••	Engine (small) Commutator turned off Washing machine	• • • • • • • • • •	
Put up arc lamps " electric wires Wash basine fitted up Bed springs	7,200 ft. 4		Hot water coil Daisy boiler Stean kettle Tubes in water heaters		$\begin{array}{c} 1\\1\\24\end{array}$
Beds (iron) Wash basin—pipes cleaned and repaired		11 80	New tube-beating boiler Hand pumps Ash elevator	· · · · · · · · · · ·	$\begin{array}{c}1\\2\\1\end{array}$
Closets cleaned and repaired " removed Bath tubs removed Waste pipes from baths cleaned	· · · · · · · · · ·	$ 265 \\ 4 \\ 7 \\ 13 $	Removed boiler and pump at sewer house for new foundation Laid 500 feet 1-in. pipe in garden. Radiators removed		
Water hydrants Bib taps . Sink pipes		2 228 27	Fenders over radiators Electric safety plugs		2 65

TABLE No. 24.

Return of garden produce for year ending September 30th, 1902.

Articles.	Quantity.	Rate.	Value.
Apples Beans. Beets G	415 barrels 741 pecks 678 bushels 4,832 bunches 100	\$ c. 2 00 20 50 2 5	$\begin{array}{c} \$ & c. \\ 830 & 00 \\ 148 & 20 \\ 7 & 289 & 00 \\ 96 & 64 \\ 5 & 00 \end{array}$
Carrots, table	824 bushels 7,200 bunches 3,126 heads 10,210 "	30 1 5 3	247 20 72 00 156 30 306 30
Cabbage, early '' late Corn, green Cucumbers	3,436 " 18,974 " 819 dozen 904 "	4 3 8 12	$\begin{array}{c} 137 & 44 \\ 569 & 22 \\ 65 & 52 \\ 108 & 48 \end{array}$
Cress . Currants . Grapes . Lettnce .	1,200 bunches 1,122 quarts 41 baskets 15,902 bunches	1 6 50 1	12 00 67 32 20 50 159 02
Mint	200 ···	$\begin{bmatrix} 1\\5 \end{bmatrix}$	$\begin{array}{c}2&00\\17&00\end{array}$

Articles.	Quantity.	Rate.	Value.
		S c.	\$ c.
larrows	275	5	13 75
nions	313 bushels	75	234 75
•••••••••••••••••••••••••••••••••••••••	16,000 bunches	1	160 00
otatges, early	215 bushels	1	215 00
arsnips	493 ''	50	246 50
umpkins	367	10	36 70
eas, green	613 pecks	20	122 60
arsley	1,500 bunches	1	$15 \ 00$
ears	76 baskets	40	30 40
lums	4 "	40	1 60
pinach	263 bushels	30	78 90
lsify	50 "	50	25 00
juash	196	6	11 76
wory	900 bunches	1	9 00
ge	100 "	1	1 06
rawberries	679 baskets	8	54 32
aspberries	793 **	6	47 88
nubarb	10,642 bunches	2	212 84
dishes	16.712 "	1	167 12
1yme	500 bunches	1	5 00
omatoes	247 bushels	50	123 50
arnips	402 ''	25 -	100 50
ay	8 tons	10 00	80.00
dding plants.	54,768		00 00
arge plants	4,960		
nnuals	10,694		
Total			\$5,302 26

TABLE No. 24.—Continued.

TABLE No. 25.

Return of farm produce for year ending September 30th 1902.

			Value.
Wheat Oats Peas grass Mixed peas and oats Hay Straw Ensilage Green feed for cow's Potatoes Mangold's Mangold's Milk Eggs Turkeys Calves Hogs Beans green Beets Corn Cabbage Oarots (field) do (garden) Lettuce Onions, green do Peas, green Paranips Radishes Rhubarb Tomatoes Plums Crab apples	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} \$ & c, \\ & 70 \\ & 35 \\ & 80 \\ & 50 \\ & 50 \\ & 12 & 00 \\ & 6 & 00 \\ & 1 & 50 \\ & 1 & 00 \\ & 1 & 50 \\ & 1 & 00 \\ & 75 \\ & 5 & 00 \\ & 1 & 60 \\ & 40 \\ & 10 \\ & 30 \\ & 20 \\ & 30 \\ & 22 \\ & 70 \\ & 1 & 00 \\ & 40 \\ & 2 \\ & 30 \\ & 60 \\ & 60 \\ & 60 \\ & 25 \\ \end{array}$	$\begin{array}{c} \$ & c. \\ 39 & 90 \\ 770 & 00 \\ 24 & 00 \\ 45 & 00 \\ 972 & 00 \\ 420 & 00 \\ 450 & 00 \\ 21 & 00 \\ 1,550 & 00 \\ 1,550 & 00 \\ 1,550 & 00 \\ 1,500 & 00 \\ 2,967 & 88 \\ 49 & 97 \\ 8 & 00 \\ 6 & 50 \\ 1,149 & 64 \\ 6 & 60 \\ 20 & 00 \\ 40 & 00 \\ 12 & 00 \\ 50 & 00 \\ 15 & 00 \\ 15 & 00 \\ 15 & 00 \\ 15 & 00 \\ 15 & 00 \\ 12 & 00 \\ 20 & 00 \\ 6 & 00 \\ 16 & 00 \\ 3 & 00 \\ 4 & 80 \\ 1 & 50 \\ \end{array}$
Apples	25 bushels.	50	12 50

TABLE No. 26.

	් දෙල	508 18 70 00 9 10 9 10	607 53	99 03 115 00 112 40 128 00 326 18 326 18	778 61	$\begin{array}{c} 428 & 62 \\ 14 & 60 \\ 1 & 00 \\ 1 & 00 \\ 23 & 85 \\ 142 & 85 \\ 111 & 37 \\ 240 & 00 \\ 240 & 00 \end{array}$	968 26
scount.	Receipts.	By balance	1	By balance		 By halance By cash from Pugsley, Dingraan & Co. 292 lbs Tallow at 5. A. H. Brooks, 1 calf D. Henry, 1 calf D. Henry, 1 calf W. Harris, 10 ite hogs, 1,970 lbs, at 7⁴/₄ W. Hurter, 5 dry cows 	Carried forward
hange ac		1, By 13, By 9,		31. 31. 31.		4 3250 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
unn Exc	1901.	Uct. Nov. Dec.		1902. Jan. Mch.		Alril May June	•
ALUM Fa	ల కళ	$\begin{array}{c} 89\\ 88\\ 65\\ 93\\ 00\\ 16\\ 6\\ 6\\ 6\\ 6\\ 6\\ 00\\ 6\\ 6\\ 00\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0$	607 53	16 C0 14 25 24 40 12 00 12 00 14 00 12 00 12 00 12 00 12 00 12 00 12 00	778 61	$\begin{array}{c} 175 & 00 \\ 27 & 30 \\ 235 & 00 \\ 8 & 00 \\ 780 & 13 \\ 780 & 13 \end{array}$	1,199 35
Mimico Asvirum.—Farm Exchange account.	1901. Disbursements.	 t. 7. To cash paid P. Hamilton Go., ensilage cutter etc. v. 13 v. 13 r. Dann, 2 horses. r. Dann, 2 horses. r. Dann, 2 horses. r. Dann, 2 horses. e. 14 v. 19 v. 10 v. 10 v. 11 v. 11 v. 12 v. 13 v. 14 v. 19 <li< td=""><td></td><td> 1902. an. 23 "Fo cash paid C. E. Musgrove, music 23 "R. Hunter, 3 milth cows b. 5. "Market fees. b. 5. "NeNaughton, music c. E. Musgrove, " f. P. McNaughton, " f. P. McNaughton, " f. P. McNaughton, " f. P. Musgrove, " f. Eds. 21. "R. Hunter, 3 milch cows f. To balance </td><td></td><td>May 20. To cash paid J. Forbes, 1 horse. 22 Markeb fees June 3 Markeb fees 20 R. Hunter. 5 milch cows 20 Market fees 30. To balance</td><td>Carried forward</td></li<>		 1902. an. 23 "Fo cash paid C. E. Musgrove, music 23 "R. Hunter, 3 milth cows b. 5. "Market fees. b. 5. "NeNaughton, music c. E. Musgrove, " f. P. McNaughton, " f. P. McNaughton, " f. P. McNaughton, " f. P. Musgrove, " f. Eds. 21. "R. Hunter, 3 milch cows f. To balance 		May 20. To cash paid J. Forbes, 1 horse. 22 Markeb fees June 3 Markeb fees 20 R. Hunter. 5 milch cows 20 Market fees 30. To balance	Carried forward
9		Oct. Nov. Nov. Nov. Dec.		Jan. Jan. Feb. Mch.		May June 	

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No. 38

	с Ф	968 26	$\begin{array}{c} 103 & 12 \\ 68 & 42 \\ 1 & 50 \\ 58 & 05 \end{array}$	1,199 35 780 13			37 00 7 5 7 00 7 5 7 00		\$1,212 15 \$1,049 65	
3Concluded.	1:402. Receipts.	Brought forward	June 5. By Cash from W. Harris, 9 live hogs, 1,500 lbs. at 6āc 6 9 P. McElroy, 1 calf	-	23. By cash from W. G. Harris, 4 dressed hogs, 256 lbs at 92c.	Aug. 6 R. Hunter, 3 dry cowe, 300 108, 40 fg	 8. "P. Bloke, I calf. Sep. 2. "W. Harris, 4 live hogs, 1,880 liss, at 5c 8. "11. "P. McBlroy, I calf 	". 22. "F. Faulkner, I calf	Sect. 1, By balance 8	
TABLE No. 26.—Concluded.	1902. Disbursements. \$ c.	Brought forward	•		July 23. To cash paid Market fees		•		\$1,212 15 \$1,212 15	

ANNUAL REPORT OF THE MEDICAL SUPERINTENDENT OF THE ASYLUM FOR THE INSANE, BROCKVILLE, FOR THE YEAR ENDING SEPTEMBER 30TH, 1902.

Brockville, Ont., October 1st, 1902.

To Robert Christie, Esq.,

Inspector of Asylums, Ontario :

Sir,—I have the honor to submit herewith the Eighth Annual Report of this Asylum, for year ending September 30th, 1902.

					1	_
—	Male.	Female	Total.	Male.	Female.	Total.
Patients remaining, October 1st, 1901 Admitted during the year :				301	312	613
By Lieuteoant-Governor's Warrant (direct) "(from Mimico) By medical certificate (direct)		18 	$ \begin{array}{c} 36 \\ 19 \\ 69 \end{array} $			
Total admissions	6		6	74	56	130
Total number under treatment during the year Discharged during the year : Recovered	20	22	42	375	368	743
Improved Unimproved	• 2 1 · · ·		3			
Total discharges Died Eloped	21 35 3	25 19 1		►0	17	104
Total				59	45	104

Remaining in Asylum September 30th, 1902: Male, 316: female, 323: total, 639.

Maximum number in residence, August 24th, 1902 : Male, 328; female, 324; total, 652.

Percentage of recoveries on direct admission, 40.

Percentage of recoveries on all admissions, including transfers. 32.30. Percentage of deaths on number under treatment, 7.26. Yearly per capita cost of maintenance, \$115.18.

Weekly per capita of maintenance, \$2.21.

eckip per capita of maintenance, galat

Admissions.

During the past year we received 49 males and 56 females from the counties comprising the Brockville Asylum district, the total, 105, being ten in excess of the number admitted last year. In addition to these there were 25 males transferred from Mimico Asylum, making the total number 130.

Sixty-nine of the district admissions were by medical certificates, and the remainder, being 18 males and 18 females, by Lieutenant-Governor's warrant, through the gaols. That so large a number were forced to endure detention in the common gaol is greatly to be regretted, as if at the inception of the disease recourse is had to the Superintendent of the district asylum, the warrant procedure following upon mental affliction could be in the main avoided. There are exceptional cases when a person becoming suddenly and violently insane, it is found necessary, in the interest of public safety to imprison the unfortunate pending arrangements for his admission to th Asylum, but as a rule mental trouble can be detected and proper steps taken without subjecting the unfortunate victim to the further hardships of treatment accorded to criminals

Discharges.

The discharges consisted of 46 patients, 21 males and 25 females, and of this number 20 males and 22 females had recovered, 1 male and 2 females were improved, and 1 female remained nnimproved.

The percentage of recoveries on district admissions was 40, and on all admissions, including transfers, 32.30.

Deaths.

Of our number, 34 males and 19 females, a total of 54, died during the year, being a percentage of 7.2 on the whole population. This percentage is slightly larger than last year's, but more than half of those who died were over sixty years of age.

It is a pleasure to record that no death from causes other than natural ones occurred during the year. While in an Institution of this character, regrettable fatalities might take place, notwithstanding the utmost vigilance, it is none the less a subject for great satisfaction when an absence of deaths from violence, suicide or homicide can be recorded.

Care of the Insane.

The growth of Asylum population has of late years been steady, and the increase in the number of mentally afflicted might be alarming, were it not that several circumstances must be taken into consideration in connection with the filling of asylums almost before the bricks composing their walls are dry. Insanity to day is regarded as a disease, unwelcome it is true, as all diseases are, but in many instances curable; and as the insane hospitals have justly established their reputation as desirable places of abode for the mentally affected, and whereas formerly people either endeavored to treat privately their afflicted ones, whom they dared not trust to "mad houses," or, on the other hand, kept them chained in woodshed or cellar, rather than permit the so-called disgrace to be known outside their househeld, modern enlightenment has been successful in overcoming both such preindices, and the asylum populations are proportionately increased. Besides these two reasons, there exists another, namely, the greater longevity of asylum patients, to which the regular life and plain, substantial fare conduce. Our modern hospital treatment, humane as it is in the best sense of the term, has resulted in raising the average of asylum life, and numbers of our patients wear out very very slowly. As an example of this, I may cite the case of an old man, who died here a few days ago at the age of one hundred and two years. He had been admitted in 1847, fifty-five years ago, to the first asylum established in this Province. Seven other patients who died during the year had been asylum inmates for over 30 years, and three over 25 years, so that when we have a large stationary population, supplemented by acute and encable cases, the statistics relating to insanity are at first glance alarming. There is no doubt that, with the strenuous life so greatly affected, or perforce adopted, in the present day, the propertion of insane is greater than it would be were simple, uncrowded lives the rule, rather than the exception; but there is little use in an endeavor to preach the gospel of simplicity, which term is now seldom met with out of the dictionaries, and the world seems to have resigned itself into drifting with the "madding crowd." The price of such a life, we all know, is mental breakdown and curtailed lives, and perhaps the most fortunate are not

always those whose infirmities compel their retirement inside the walls of a modern hospital, whose mission is the care and if possible the cure of the mentally alienated.

Order is heaven's first law, and if the normal balance of our lives be disturbed, if any one organ of our anatomy be subjected to undue labor or strain, a compensatory antithetical condition is demanded by nature, otherwise she refuses to restore health to the impaired parts, and it is for this reason that the rest cure figures so prominently 1a therapeutics to-day. The world's idea of progression has deteriorated into a wild rush, and rest, instead of being the natural heritage of man, is no longer a draught in large quantities outside the walls of hospitals and sanotoria. Many of our people come to us wrecked physically and mentally by the burden of cares to which each succeeding day has been adding its quota. Others with perhaps stronger powers of resistance, might have continued the life of high pressure, had not a bereavement, or an unfortunate speculation, proven the last straw that the tense system could withstand, and, dropping, it may be, only for a time out of the race, the asylum doors open to receive them. Rest, entire and complete, physical and mental, is our sheet anchor in such cases, though often it is some time before the victims of the feverish life can be influenced.

The brain, which is the organ of mind, controls all the other organs of the body, and is itself dependent for support upon them, thus being in the position of a man who, with many servants, may yet be badly served. Disease or disordered functions of the various organs of the body impair the healthy condition of the brain, consequently when this inter-relation is considered in connection with the feverish pace at which the world moves, we arrive at another cause for the large percentage of insane.

Insanity which results from such derangements and from physical overexertion should be considered curable, as the causes in a great many cases are removable, and this class of our people, as well as the victims of adversity, fright, shock, etc., usually respond to remedial treatment sooner or later.

But when a diseased, not a disordered, condition of the brain exists, the outlook from a curative standpoint is not encouraging. General paresis is, as a rule, fatal in from one to three years. Dementia arising from cerebral atrophy, degeneration, or softening, or from tumors in various parts of the encephalou, may run a fotal course in a few weeks, or may last for years. ?

In these cases our efforts can be directed towards only the amelioration of the patient's condition. Cure is in the majority of instances beyond the power of man and, hygiene and comfortable surroundings are mainly indicated.

Pleasant and healthy environment, scrupplously clean and pleasant living and bed rooms, regular hours for sleeping and eating, good food, suitable clothing and amusements in the form of games, entertainments, and reading matter, are important factors of general treatment, and when, with the recuperation of the physical powers, a patient would be benefited by employment of some kind, not necessarily manual labor, some or other occupation is assigned him, it may be in the garden, on the farm, or even doing clerical work, but an unwritten law exists that the work is for the patient, not vice versa, a fact to which our people are sensibly alive.

Cost of Maintenance.

As a consequence of the coal strike, the contractor has been unable to gecure our supply of coal, contracted for in May, and this naturally reduces our maintenance account, the per capita cost being \$115 per annum.

Light.

I would urge upon your consideration the substitution of electricity for gas when the present contract expires. Fortunately no accident has ever happened here as a result of the use of gas, but there is no denying the fact that it is a dangerous illuminant in an insane community. The numerous jets, the turning of one of which by a mischievous patient might do so much harm, the necessity for matches, which are very dangerous agents in the hands of irresponsible persons, and the vitiation of the air that is sure to accompany to some degree the use of gas, are reasons which militate against its continuance here. As for outdoor illumination the present system consists of a solitary lamp in the midst of the dense foliage of the park, and on a cloudy night this very inadequate light only serves to make darlness This, in a place where patients of all degrees of insanity are more visible. being received at all times, is not as it should be, and I hope the time is not far distant when we will have an electric plant capable of lighting both buildings and surroundings.

Garden and Farm.

The yield of the garden and farm was above the average this year. Besides the work incidental to our farm, which from its size and nature was sufficient in itself to tax the energy of the farmer, Mr. McCrimmon added to the reputation of his piggery, whose products meet with ready sale amongst farmers and dealers. The receipts from the sale of pigs and pork for the year amounted to \$1,203.67.

Wants.

An assembly hall is as yet an unaccomplished fact, and until a suitable building is erected where the patients can comfortably congregate, any efforts made for their religious benefit or for their amusement will be seriously handicapped. I have urged the question so frequently that any further arguments made in favor of it would be only repetitions of what I have said in former reports, but, with the advent of the annual amusement season, the question looms up with renewed unpleasantness, as every year finds us with an increase of poulation, while the small room used as a makeshift refuses to expand an inch.

A skating rink is practically a radical necessity in this section, where snow abounds to such an extent and for such a length of time. For some winters past we have had an open rink for patients, but very few can be induced to breast the keen winds, which sweep with great violence about the asylum owing to its elevated position. A covered rink would permit of skating, curling, and other winter outdoor amusements, and J need not dwell on the benefits that would ensue to our people were such diversion possible. The construction work could be done by asylum labor, so that the expenditure entailed would be comparatively triffing.

The library continues to be patronized very extensively. A grant for additional books would enlarge its sphere of usefulness.

In the female convalescent ward there are usually patients whose musical education has been of a high order, and whose accomplishment might be turned to account for the benefit of their sister inmates if a piano were in the ward. The one general purpose piano in the amusement room is always at the disposal of the musically inclined, but the privilege enjoyed by a patient in this way often necessitates the supervision of a nurse, whose absence from the hall, of course, distrubs to a certain extent the regular routine. I would urge this item upon your serious consideration, as it means a great deal to those of our convalescent women, upon whom music has an influence.

Acknowledgments.

In the name of our afflicted family, so many of whom have been comforted by the words of the gospel, and who find that a still loving Father speaks to them through His ministers, I desire to thank the dergymen of the different denominations for the uniform interest displayed in the inmates of the asylum.

The members of the choirs and other musical organizations who helped to brighten the lives of the insane have also our sincere thanks.

We are deeply indebted to Mr. F. R. Curry for contributions to the prize list for the Patients' Annual Sports.

The members of the staff, and the attendants and employes have my deep appreciation for the hearty way in which their duties have been discharged, thus facilitating the great aim of the Institution,—the highest possible good to the large number in our charge.

And to you, Sir, for your capable and courteous co-operation and advice in all questions submitted to you, my thanks are hereby tendered.

I have the honor to be. Sir,

Your obedient servaut,

J. B. MURPHY,

Medical Superintendent.

ANNUAL STATISTICAL REPORT

Of the operations of the Asylum for Insane, Brockville, for the year ending 30th September, 1902.

TABLE No. 1.

Shewing movements of patients in the asylum for the official year ending September 30th, 1902.

	Male.	F emale.	Total.	Male.	Female.	Total.
Remaining, October 1st, 1901 Admitted during year		1		301	312	613
By Lieutenant-Governor's warrant By medical certificate	37 37	18 38	55 75	74	56	130
Total number under treatment during year				375	368	743
Discharges during year: As recovered As improved As unimproved		$\begin{array}{c} 22\\ 2\\ 1\end{array}$				
Total number of discharges during year Died Eloped		$\begin{array}{r} 25\\19\\1\end{array}$	46 54 4	59	45	104
Remaining in Asylum, 30th September, 1902				316	323	639
Total number admitted since opening of Asylum discharged, discharged,	129 157	156 102	$285 \\ 259 \\ 19$	616	582	1,198
"eloped "transferred	$\begin{vmatrix} 12 \\ 2 \end{vmatrix}$	1		300	259	559
" remaining, 30th September, 1902				316	323	639
No. of applications on fyle	3	ã	8			

TABLE No. 2.

Shewing the maximum and minimum number of patients resident in the Asylum, the total number of days' stay of patients, and the daily average number of patients in the Asylum, from the 1st October, 1901 to 30th September, 1902.

	Male.	Female.	Total.
Maximum number of patients in residence (on the 21st of August)		324	652
Minimum """ (on the 2nd of October)		312	613
Collective days' stay of all patients in residence during year		116,349	231,767
Daily average population		318.761	634 98

	Admi	issions of	year.	Total :	admission	s since op	ening.
	Male.	Female.	Total.	Male.	Female.	Total.	Total.
Social state. Married Widowed. Single. Not reported Total	26 48 	28 48 	54 76 	189 353 542	264 262 526	453 615 1,068	507 691 1,198
Religion. Presbyterians Episcopalians Methodists. Baptiets Congregationalists Roman Catholics Mennonites Quakers Infidels Other denominations. Not reported. Total	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	10 11 9 25 56	$\begin{array}{c} 26\\ 22\\ 21\\ 1\\ 53\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$ \begin{array}{r} 95\\ 98\\ 80\\ 12\\ 2\\ 194\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$\begin{array}{c} 87\\ 93\\ 116\\ 13\\ 2\\ 190\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	182 191 196 25 4 384 48 38 48 38 1,068	208 213 217 26 5 437 52 40 1,198
Nationalities. English Irish Scotch Canadian United States Other countries Unknown Total	6 3 58 3 1 	3 2 47 2 47 2 56	9 5 105 5 1 130	$ \begin{array}{r} 40 \\ 45 \\ 16 \\ 385 \\ 20 \\ 17 \\ 19 \\ \overline{542} \end{array} $	$ \begin{array}{r} 31 \\ 76 \\ 15 \\ 379 \\ 11 \\ 7 \\ 526 \\ \end{array} $	71 121 31 764 31 24 26 1,068	80 126 36 869 36 25 26 1,198

TABLE No. 3.

· Shewing the Counties from which patients have been admitted up to 30th September, 1902

	Admit	ted durin	g year.	Tota	l admitta	nce.
Counties.	Male.	Female.	Total.	Male.	Female.	Total.
Brace Carleton Carleton Elgin Essex Frontenac Grey Haldimand Halton Hastings Huron Kent. Lambton Lanark Leeds and Grenville Lennox and Addington Lincoln Middlesex. Nuskoka District. Nipissing District. Norfolk Northumberland and Durham. Ontario Oxford Peel Perth Peterborough Prescott and Russell. Prince Edward Renfrew Simcoe Stormont, Dundas and Glengarry Thunder Bay District. Victoria. Watterloo. Welland Wellington. Wentworth York Not Classed.	10 1 1 1 7 14 1 3 2 3 4 12 11 12 12 12 12	24 	34 1 1 1 2 14 25 1 3 2 3 9 20 1 20 1	$\begin{array}{c} & 4\\ & 4\\ & 130\\ & 4\\ & 4\\ & 4\\ & 11\\ & 3\\ & 2\\ & 10\\ & 1\\ & 6\\ & 6\\ & 55\\ & 98\\ & 3\\ & 2\\ & 10\\ & 1\\ & 6\\ & 55\\ & 98\\ & 3\\ & 2\\ & 1\\ & 1\\ & 2\\ & 2\\ & 2\\ & 2\\ & 3\\ & 4\\ & 41\\ & 2\\ & 9\\ & 7\\ & 102\\ & 2\\ & 2\\ & 2\\ & 3\\ & 47\\ & 6\end{array}$	$\begin{array}{c} 1 \\ 1 \\ 130 \\ 3 \\ 3 \\ 1 \\ 26 \\ 2 \\ 1 \\ 1 \\ 53 \\ 109 \\ 5 \\ 3 \\ 13 \\ 109 \\ 5 \\ 2 \\ 2 \\ 2 \\ 10 \\ 100 \\ $	$\begin{array}{c} 5\\ 260\\ 7\\ 7\\ 24\\ 4\\ 3\\ 2\\ 36\\ 3\\ 7\\ 7\\ 108\\ 207\\ 8\\ 5\\ 266\\ 1\\ 1\\ 2\\ 207\\ 8\\ 5\\ 266\\ 1\\ 1\\ 2\\ 310\\ 5\\ 6\\ 5\\ 6\\ 5\\ 17\\ 9\\ 9\\ 183\\ 8\\ 89\\ 7\end{array}$
Total admissions	74	56	130	616	<u></u> 582	1,198

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TABLE No. 4.

Shewing the Counties from which warranted cases have been admitted up to 30th September, 1902.

	Admit	ted during	g year.	Tota	admissi	ous.
Counties.	Male.	Female.	Total.	Male.	Female.	Total.
Bruce Carleton Elgin Essex Frontenac. Grey Haldimand Halton Hatings Kent. Lambton Lanark Leeds and Grenville Leenox and Addington Lincoln Middlesex Norfolk Northumberland and Durham Ontario Ontario Otario Otario Peel Perth Peterborough Prescott and Russell Prince Edward Renfrew Simcoe. Stormont, Dundas and Glengarry Thunder Bay District Victoria Welland Wellington Wentworth York Not classed	7 1 3 1 3 1 3 3 1 9 		20 1 	$\begin{array}{c} 2\\ 9\\ 2\\ 9\\ 2\\ 3\\ 2\\ 6\\ 1\\ 3\\ 1\\ 6\\ 3\\ 5\\ 2\\ 2\\ 4\\ 3\\ 2\\ 2\\ 8\\ 1\\ 7\\ 5\\ 4\\ 1\\ 5\\ 4\\ 2\\ 6\\ 2\\ 8\\ 5\\ 2\\ 3\\ 1\\ 2\\ 4\\ 1\\ 3\\ 42\\ \cdots \end{array}$	$\begin{array}{c} & & & & & & & & & & & & & & & & & & &$	$\begin{array}{c} 2\\ 16\\ 7\\ 16\\ 7\\ 4\\ 5\\ 13\\ 2\\ 3\\ 6\\ 35\\ 38\\ 8\\ 4\\ 12\\ 1\\ 10\\ 11\\ 5\\ 1\\ 5\\ 49\\ 4\\ 12\\ 7\\ 32\\ 1\\ 9\\ 4\\ 1\\ 5\\ 77\\ 1\\ \end{array}$
Total admissions	37	18	55	327	240	567

REPORT OF THE INSPECTOR OF

TABLE No. 5.

Shewing the length of Residence in the Asylum of those discharged during the year.

No.	Initials.	Sex.	Wben ad	mitted	1.	When	disch	arg	ed.	Remarks.
1	S. M. T	м	October 27.	1901		December	10 10	901		Recovered.
2	C. M	F				December		66		44
3	G. L	M				December		66		* 66 C
4	C. B	F				December	27,	66		6.6
5	A. G	F				January	4, 19	302		6.8
6	J. G	M				January	11.	16		65
7	M. L. O	F				January	25,	66		Unimproved
8	M. C	F				February	4,	6.6		Recovered.
9	O. L	F				February	12,	66		66
10	C. McR					February	13,	66		6.6
11	E. S					February	15,	6.6		6.6
12	M. B	F				February	20,	£ 6		* 6
13	W. C. F	M	November 22			April	8	56		Improved.
14	R, T. H	M				April	12,	6 6		Recovered.
15	T. O	M	September 17			April	28,	å 6		6 6
16	A. G	M				May	2	4.6		66
17	G. L	M	May 17	, 1901		May	2,	6.6		66
18	C. L	F	September 16	, 1901		May	3,	66		66
19	G. E. M	M	August 14	1900		May	- 9	6.6		66
20	C. A	F	September 19			May	19,	6.6		6.6 8.6
21	J. A	F	July 24	, 1901		May	20,	6.6		44
22	Geo. St. L	M	September 25			May	26,	6.6		41
23	M. F	F	October 3	, 1901		June	16,	6.6		
24	H. B	M	November 16			June	19,	6.6		56
25	J. W					June	21,	4.6 6.6	• • • • • • • •	66
26	N. M					July	2,		••••	6.6
27	A. D	F				July	4,		• • • • • • • • •	
28	F. N	F				July	28,	6.6		
29	A. E	M				August	13,			15
30	T. B	M			· • • • • • • •	August	22,	66	• • • • • • • •	66
31	W. H				• • • • • • • •	August	22,	66		66
32	J. B. R	M				August	22,	66	• • • • • • • •	66
33	R. G	F_{1}			• • • • • • • •	August	$\frac{22}{23}$	66		66
34] E. C				• • • • • • •	August	$\frac{20}{24}$	6.6	•••••	66
35	S. T				****	August	25,	65		66
$\frac{36}{37}$	J. D S. A. H	M				August September		4.6		5.6
					· · · · · · · · ·	September		6.6		Improved.
38 39	J C					September	. 29	6.6		Recovered.
39 40	M. S R. M					September		+6		46
40	L. C.		September 26			September		6.6		
42	J. M.					September		6.6		6.6
43	C. S					September		6.6		6.6
43	S. L		November 29	1901		September		6.6		86
45	F. B					September		64		5.6
46	M. A. B					September		6.6		Improved.

TABLE No. 6.

Shewing age, length of residence, and proximate cause of death of those who died during the year ending 30th September, 1902.

						Resider	ice in Asy	ylum.	
No.	Initials.	Sex.	Age.	Date of dea	th.	Years.	Months.	Days.	Proximate cause of death.
1	P. 0	e e	92	Ostobor	9.4	1		21	Senile decay.
2	W. B	м	37	October October October November November December December	27	4	**	19	Exhaustion of Epilepsy.
3	C. K	£	72	October	28		4	2	Senile decay.
4	D. C	M	23	November	14	1	2	27	Phtbisis
5 6	A. R	M	66	November	15		8	24	General Paresis.
7	N. McK M. H	81 F	62 77	December	18	4	0 	$\frac{2}{8}$	Phthisis. Senile decay.
8	M. B	M	65	December	6.1		· · · · · · · ·	14	Exhaustion of melancholi
0	117 @	A.F.	67	December December	18.	6		13	Exhaustion of dementia.
0	C. O M. McR J. S J. McD J. C	M	35	December December January January January February February February February February March March March March March March	22		4	15	General paresis.
1	M. McR	£	$\frac{32}{52}$	January	7	6	10	13	Phthi-is.
3	J. S	E	$\frac{52}{72}$	January	8	1	10	$\begin{vmatrix} 18 \\ 19 \end{vmatrix}$	Exhaustion of dementia General debility.
4	J. C.	M	77	January	29	3	3	13	Anaemia.
	IF. F	N	76	February	11.	4	. 7	27	Heart disease.
6	D. McD R. R. W. H	м	62	February	13	1	8	16	Gangrene.
17	R. R	E	64	February	18	5	1	16	Exhaustion of dementia.
8 9	$ \mathbf{W}, \mathbf{E} \dots$	M	59 61	February	23		11	10	Gangrene. Exhaustion of mania.
20	C. L W. S	M.	48	March	1	1	10	14	Heart disease.
21	W. V	М	64	March	4.	$\hat{6}$	9	15	General debility.
2	P. G	M	55	March	4	1	10-	, 17	Anaemia.
3	C. C	M	30	March	7		10	24	General paresis.
24 25	M. M	F	60	March	.9		15	5	Heart disease.
26 26	A. L T. McK	M	16 78	March March	14	1		5	Epilepsy. Exhaustion of mania.
27	S. B	M	70	March	18		9	24	General debility.
28	V.S	M		March	20.	7	9 1 3 5 1 10 1 6 11 1 1	23	Heart disease.
29	A. P	M	39	April	1	5	1	20	Exhaustion of epilepsy.
30	S. B. H	F	30	April	3	2	3	28	Valvular disease of heart
31 32	R. J J_S	M	40 58	April	14		0	$\frac{7}{28}$	Nephritis.
33	W. P	M	70	April May	3	L.	10	18	Gangrene. Epilepsy.
34	IR. M	IF	55	May	6	2	1	15	Phtbisis
35	M. H	M	74	May	15.	2		28	Gangrene.
36	J. K	M	-64	May	16	2		23	Exhaustion of dementi
37 38	C. McC			May	17	5	6	13	Rheumatism.
38 39	J. W A. H		25 60	May June	21	4		$\frac{6}{25}$	Epilepsy.
40	M. L	F	59	June	16	6	11	20	Apoplexy. Cancer of Stomach.
£1	M. L M. D	F	55	June	18.	1	7	16	Apoplexy.
12	IA T	M	50	June	27	$\begin{array}{c} 6\\ 1\\ 4\\ 2\\ 6\end{array}$	22	5	Cancer of Liver.
13		F	44	July	10	2	$\begin{array}{c}2\\2\\7\end{array}$	20	Phthisis.
44 15	D. E	F	53 62	July	24	6		13	Carcinoma.
40 46	IL. S	M	43	August	24	75	52	20	Paralysis. Exhaustion of dementia.
17	F. P	М	47	June June June July July August August August	25	6	ŝ	20	Phthisis.
1 8	F. P A. McR	M	61	August	31 .	2	10	7	Heart disease.
4 9	IJ. S. S	M	- 38	September September	6.,	5	10	3	Exhaustion of dementia.
50	M. G C. D	F	35	September	9	4		21	Phthisis.
$51 \\ 52$	J. M	M.	84 30	September			9	11	Diarrhœa.
	J. B			September September	23	5	8	$\frac{14}{8}$	Pneumonia. Carcinoma.
54				September			5	13	Senile decay.

TABLE No. 7.

Shewing Trades Callings and Occupations of Patients admitted into the Asylum.

	Dur	ing the Y	Cear.	During Former Years.			
Trades, callings and occupations.	Males.	Females	Total.	Males.	Females	Total.	Tot
			1	9			
gents	1		1	2	1	$\begin{vmatrix} 2\\ 1 \end{vmatrix}$	
rtists				1	1	1	
akers				î		i	
utchers				î		î	
lacksmiths	1		1	3		3	
arbers	· · · · ·		÷	ĩ		ĩ	
ookbinders				ī		1	i
rickmakers				2		2	
rakesmen				1		1	
ommercial travellers.				1		1	
abinet-makers				2		2	
onfectioners	1		1				
arpenters	1		1	13	• • • • • • • • •	13	
lerks				14	4	18	
lergymen				2		2	
arriage-makers	1			1		1	
ooks	1	1	2			•••••	
oachmen				`3		3	
ivil Servants				32	• • • • • • • • •	$\frac{3}{2}$	
arters				1	1	120	1
omestic servante, all kinds	•• ••••	6	6	1		120	1 1
ressmakers	1	1		2	1	2	
ruggists	1		1 1	1		i	
entists	1		1	4		4	
ngravers			1 1	1		1	
armers	12		12	167		167	1 1
ardeners	14		1.0	1		1	
roceis	1		1	î		1 Î	i
lass-blowers				i		1	
larness-makers				3		3	
lousekeepers		47	47		258	258	1 3
n-keepers				1		1	
ewellers	1		1	1		1	
abourers	31		31	159		159	1
aundresses				1	1 e ¹	2	
nmbermen				2		2	1
Lilliners		1	1		2	2	
Lasons				3		3	
Iachioists				4		4	
Iillers				1		1	
Loulders				4		4	i i
ferchants	3		3	4		4	
fechanics	1		1	12	1	1	
Iusic-teachers	111	1	111	22	67	89	1
lo occupation			1 11	22		2	1 1
light-watchmen				1	4	4	
Vurses		1		13	32	45	
ther occupations				8	02	8	1
rostitutes		1			2	2	
ainters	1		1	6	- 	6	
Printers			1 î	3		3	
ump-makers			<u>.</u>	2	1	2	
Railway Conductors				1		1	
pinsters					1	1	
ailors				3		3	
students				9	1	10	
pinners				1	1	1	
Sisters of Charity					1	1	
stone-cutters				2			
Saddlers				1			
Shoemakers				. 5			
Seamstresses					. 4	4	
Soap-makers		.					

TABLE 7.—Continued.

$\begin{array}{c c c c c c c c c c c c c c c c c c c $		During the year. During former years.						
Tailors 1 1 5 2 7 8 Teamsters 1 1 1 1 Watchmakers 1 1 1 Wood-workers 1 1 1 1 Weavers 1 1 1 1 1 1 Waggon-makers 1 1 1 1 1 1 1	Trades, callings and occupations.	Males.	Females.	Total.	Males.	Females.	Total.	Total.
	Tailors Teamsters. Watchmakers Wood-workers Weavers. Waggon-makers. Unknown or other employments	· · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	$ \begin{array}{c} 5\\ 1\\ 1\\ 26\\ \end{array} $	2 1 	$ \begin{array}{c} 7\\ 1\\ 1\\ 1\\ 61\\ \end{array} $	4 8 1 1 1 1 61 1,198

TABLE No. 8.

Shewing causes of insanity.

CAUSES OF INSANITY.	Number	of instan	ces in wh	ich each c	ause was a	ssigned.
In respect of the admissions for the year ending	As pre	disposing	cause.	Ase	xciting ca	use.
30th September, 1902.	Males.	Females	Total.	Males.	Females	Total.
Moral. Domestic troubles, including loss of relatives or frienda Religious excitement Adverse circumstances, including business troubles Love affairs, including seduction Mental anxiety, "worry" Fright and nervous shocks Physical. Intemperance in drink Intemperance, sexual Veneral disease Self-abuse, sexual. Over-work Sunstroke Accident or injury Pregnancy Puepreral Lactation Puberity and change of life Uterine disorders Brain disease, with general paralysis Brain disease, with epilepsy Other forms of brain disease Other bodily diseases or disorders, including old age Fevers With the Marken States of States o			2 3 1 1 2 1 1 2 1 1 2 14	$ \begin{array}{c} 1\\ 6\\ 3\\ 2\\ 11\\ \\ \\ \\ 4\\ 1 \end{array} $	4 2 1 5 2 1 1 1 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 	4 3 6 1 8 4 12 4 2 2 4 2 2 4 3 3 8 1 2 3 2 2
With other ascertained cause in combination With other combined cause not ascertained Congenital.	26 3	10 6	36 9	• • • • • • •	* * * * * * * * *	••••
With other ascertained cause in combination With other combined cause not ascertained Unknown	$\begin{array}{c}1\\1\\28\end{array}$	27	1 1 55	2 24		$\begin{array}{c}2\\32\end{array}$
Total	74	56	130	74	56	130

.

TABLE No. 9.

Shewing the Probational Discharges and the result thereof.

		Initials.	Date of dis	pro char		oual			m of ation.	R	esult.
1033	M	A.G	October	3,		1			18	Discharged,	recovered.
1012	F.:	C. L		12	6.6 6.6	• •	3	6 6 6 6	••••		66
1038	F	M.C J.G	64	$\frac{12}{26}$	4.6	• • • •	3	6.	• • • • • • • • •		66
1063	M	T.O	44	$\frac{20}{28}$. 6	• • • •	3	6.6	• • • • • • • • •		6.6
1052	F	С.В.	6.6	31	66		1	6.6		6.6	6.6
1034	М	G L	6.6	31	66		3	6.6		6.6	6.6
1049	F	E.S	Novembe	er 9	6.6		3	66		6.6	6.6
1037	F	C. McR	6.6	Э	56		3	6.6		66	6.6
742	<u>F</u>	M.B	6.6	- 9	6.6		3	6.6		6.6	66
1065	F	C.A	· · ·	19	6 L 6 6	• • • •	3	6.6	•• • ••	66 6.6	
1071	M	S.M T	Decembe		66			66			6.6
1057	M	J.J.M	6.6	4	**	• • • •	1	4.		Returned.	
$\begin{array}{c c} 1022 \\ 1027 \end{array}$	M	J.G.S	6.	$\frac{12}{12}$	6.6	• • • •		6.6	•••••	11	
1021	M	E.B. W.C.T	6.6	14	6.6	••••	1	46	• • • • • • • • •	6.6	
1054	F	J.A	6.6	20	66		3	4 6	• • • • • • • • •	Discharged.	recovered
1069	F	M.F.	February		190		3	6.6	• • • • • • • • • •	Lytsetter Bod?	44 K
1066	M	G St.L	,	18	4.5		3	6.6		6.6	6.6
1079	F	F.H	March	1	6.6		3	6.6		6.6	6 •
1062	F	C. L	6.6	5	4.6		3	6 h		6 6	6.6
1085	Μ	H.B	6.6	13	6.6		3	6.6		4.6	66
1077	M	J.W	66	21 \searrow	44		3	6.6		16	66
1055	F	A.D	6.6	31	66 66		3	68 66		66	66
1044	£	H.M		31		• • • •	3		•••••		
1011	F	E.G	April	1	6.6	• • • •	1	66	•••••	Returned.	mananad
929 1099	M	G E.M C.S	6.6	1	4.6	• • • •	3	6.6	•••••	Discharged,	recovered.
578	M	C.S	4.6	8	4.4	• • • •	3	6.6		Still out.	
1093	F	M.R	6.4	23	66	••••	5	6.		50111 OUG	
1058	M	W.H	May	$\overline{12}$	6.6		3	+ 6		Discharged,	recovered.
1076	Μ	Т.В.	61	10	6.6		3	6.6		£6	4.6
1081	F	R.G	6.6	15	6.6		3	6.6		4.6	64
1092	F	S.L	6.6	23	4.1		3	6.6		6.6	6.6
1102	<u>F</u>	J.D	6.6	24	6.6		3	6.6		66	6.6
1087	F	M.C		30	6.6		6	5 6 6 6 6		Still out.	
1111	F	E.C	June	10	6.6 6.6	• • • •	3	6.5		Discharged,	recovered.
1104	F	S.A.H	4.6	10	56	• • • •	3	66		66	**
1068	F	L.C		$\frac{19}{20}$		••••	3			**	6
$\begin{array}{c c}141\\762\end{array}$	F	M.S	66	20 30	66	••	3	6.4		4.6	6.6
858	M	J.M A.E.D	July	30 14	4.6	• • • •	- 5 - 6	66		Still out.	
303	M	R.W	i i i i i i i i i i i i i i i i i i i	16	6.6	••••	3	63		Discharged,	recovered.
1057	M	J J.M	August	22	6.6		ĭ	6.6		Returned.	
1022	M	J.G D	Sept'mbr		6.6		3	63		Still out.	
1158	F	M.F.W	6.6	29	6.6		3	6.6		4.6	

SUMMARY OF PROBATIONAL DISCHARGES.

	Males.	Females	Total.	Males.	Females	To	tal.
Number to whom probational leave was granted		! • • • • • • • • •					46
Discharged, recovered	14		33	• • • • • • • • •		• • • •	••••
Returned to Asylum	5	1	6	•••••	••••		
Absent on probation on 30th September, 1902	4	3	6 7	••••••	•••••	• • • •	• • • •

TABLE No. 10.

Shewing in quinquennial period, the ages of those admitted, recovered and died during the year.

Ages.			Admitted			Recovered	3.	Died			
			Males.	Females	Total.	Males.	Females	Total.	Males.	Females	Total.
From	10 to 15	rears									
6 4	15 to 20	**	5	3	8	1	1	2	1		1
* *	20 to 25	**	7	1.5	12	2	6	8	2		2
6.6	25 to 30	44	4	6	9	2	3	5	1		1
4.6	30 to 35	**	7	8	15	2	2	4	1	2	3
66	35 to 40	** ***	12	6	18	3		3	4	1	5
6.6	40 to 45	**	11	5	16	1	3	-4	2	1	3
**	45 to 50	**	6	5	11	3		3	2		2 2 6
6.6	50 to 55		- 4	4	8	1	1	2		2	2
6.6	55 to 60		6	4	10	1	3	4	3	3	6
6.6	60 to 65	15	6	7	13	4	3	7	6	6	12
68	65 to 70	**	1	2	3				3	1	4
+ 6	70 to 75	**	2	1	3				4	1	5
A 6	75 to 80	44	2		· 3				3	1	4
64	80 to 85	"	1		1				2		2
5.4	85 to 90	**]								[i	
6.6	90 to 95	44					·		1	1	2
Joke	משטו					•••••					
Т	otale		74	56	130	20	22	42	35	19	54

TABLE No. 11.

Periode.	Duration of insanity	residence of	Periods of tr discha	eatment of th rged during t		
1 6110Ur.	prior to admission.	maining in asylum on 30th Sept.	Cured.	Improved.	Unimproved	
Under 1 month	$ \begin{array}{r} 13 \\ 16 \\ 17 \\ 10 \\ 4 \\ 5 \\ 5 \\ 3 \\ 1 \\ 1 \\ 4 \\ 1 \\ 2 \\ 3 \\ 5 \\ 1 \\ 3 \\ 5 \\ 1 \\ 3 \\ 2 \\ 4 \\ 12 \\ 10 \\ 10 \\ 10 \\ 10 $	$ \begin{array}{c} 11\\ 7\\ 9\\ 6\\ 11\\ 31\\ 5\\ 3\\ 5\\ 11\\ 3\\ 25\\ 46\\ 65\\ 25\\ 67\\ 121\\ 80\\ 105\\ \dots \end{array} $	2 2 2 1 8 6 6 6 1 3 3 2 1 2 1 2 1 1 2 1 1 1 1 1	2		
" 15 to 20 " " 20 years and upwards	2 3	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
Totals	130	639	42	3	1	

TABLE No. 12.

Shewing the nature of employment and the number of day's work performed by patients during the year.

	Number of		days worked.	
Nature of employment,	patienta who worked.	Male.	Female.	Total.
Carpenter's shop. Tailor's shop. Engineer's shop. Mason work. Repairing roads. Wood yard and coal shed. Bakery Laundry. Dairy Butcher's shop. Piggery Painting Farm. Garden. Grounds. Stable. Kitchen. Dining rooms. Officers' quarters. Sewing. Mending.	5 2 3 5 2 2 2 2 2 4 36 30 2 14 58 2 26 40 19	$1.240 \\ 427 \\ 962 \\ 992 \\ 1,450 \\ 610 \\ 1,041 \\ 1,530 \\ 2,140 \\ 730 \\ 720 \\ 720 \\ 883 \\ 9,085 \\ 8,976 \\ 5,462 \\ 720 \\ 1,240 \\ 9,812 \\ \dots \\ 160$	5,494 5,494 	$\begin{array}{c} 1,240\\ 427\\ 962\\ 992\\ 1,450\\ 610\\ 1,041\\ 7,024\\ 2,140\\ 730\\ 720\\ 883\\ 9,085\\ 9,162\\ 5,462\\ 720\\ 4,380\\ 20,320\\ 600\\ 5,212\\ 3,108\\ 3,972 \end{array}$
Wards and halls	90 1 124	11,248 313 19,840	11,688	22,936 313 39,302
Total	548	79,581	63,300	142,881

TABLE No. 13.

Shewing the counties and districts from which the patients remaining in residence on the 30th September, 1902, were originally received.

Counties and districts.	Male.	Female.	Total.	Counties and districts	Male.	Female.	Total.
Втвсе	3	1	4	Northumberland	3	5	8
Carleton	65	68	133	Ontario	4	4	8
Dundas	9	7	16	Oxford	4	1	5
Durham	3	4	7	Parry Sound District		1	1
Elgin	2	2	4	Peel	2	1	3
Essex	$2 \cdot$	2	4	Perth	4	1	5
Frontenac	3	9	12	Peterborough	4	2	6
Glengarry	5	11	16	Prescott	15	24	39
Grenville	7	16	23	Prince Edward		1	1
Grey	2	1	3	Renfrew	5	4	9
Haldimand	1		1	Russell		6	6
Halton	1		1	Simcoe	6	6 47	8
Hastings.	5	19	24	Stormont	36	20	56
Huron	1	1	2	Thunder Bay District	2		2
Kent	4	1	5	Victoria	3	4	7
Lambton	4	1	5	Waterloo	2		2
Lanark	20	21	41	Wellington	3	1	4
Leeds	31	26	57	Wentworth		3	3
Lennox and Addington	2	5	7	York	33	32	65
Lincoln	1	2	3	Not classed, unknown, etc	11	2	13
Middlesex	6	.11	17	_			
Nipissing District		1	1	Total	316	32 3	639
Norfolk	2		2				
			1				

No. 38

TABLE No. 14.

Shewing work done in the sewing room during year ending September 30th, 1902.

Articles.	Made.	Repaired.	Articles.	Made.	Repaired.
Aprons	651	1,427	Sheets	904	1,092
Bedticks	72	138	Shirts	531	776
Cuffs (nurses)	39		Skirts	47	1,502
Caps (nurses)	88		Shrouds	41	,
Centre pieces and tidies	13		Stockings	117	863
Cushions	12		Socks	293	1,074
Chemises	289	1.775	Strait jackets	11	20
Curtaine	79	81	Towels	678	192
Dresses	32 3	2,759	Toilet covers	37	134
Drawers (pairs)	405	2,642	Table cloths	133	261
Fichues	81	16	Undershirts	199	279
Lace (yards)	175		Uniforms	44	29
Matts (crocheted)	9		Waists	70	190
Mitts (pairs)	119	151	Miscellaneous articles	29	533
Nightgowns	76	404	-		
Pillowalipa	431	594	Total	6,213	16,932
Pillowshams	217				

TABLE No. 15.

Shewing number of articles passing through the laundry during the year ending September 30th, 1902.

Aprons	18,606	Neckties	753
Blouses	1.431	Nightgowns	3,437
Blinds		Nightshirts	1.322
Blankets	3.446	Pillowslips .	24.184
Bedticks	401	Pillowshams	1.361
Collars	2.777	Pillow ticks	156
Cuffs	2.467	Pinatores .	154
Сарв	-, ±01	Pudding cloths	109
Chemises	17,915	Stockings	2.878
Counterpanes	1.899	Socks	6.403
Coats	810		37.086
Canvas quilts and rugs	119	Sheets	22.515
Corset covers	842	Shirts	12,297
	1.461	Skirts. Table cloths	9,578
Curtains	23		2,407
Corsets	177^{23}	Table napkins	2,401
Combinations	111	Toilet covers	
Carpets	0.040	Towels	21,812
Drawers	9,646 126	Trousers	$2,194 \\ 484$
Dusters	126	Uniforms	484 548
Doylies		Vest	
Dresses	6,841	Miscellaneous linen	1,584
Fichues	411		000 007
Guernseys	2,829	Total	228,997
Handkerchiefs	4,259		

TABLE No. 16.

Shewing work done in tailor's shop for year ending September 30th, 1902.

Article.	Made.	Repaired.	Article.	Made.	Repaired.
Coats (uniform) Overcoats Coats Pants Pants (uniform) Vests Overall jackets	$\begin{array}{c} 10 \\ 127 \end{array}$	90 96 5	Overall pants Combination suits Horse blankets Robes	10	5 8 212

TABLE No. 17.

Shewing work done by carpenter for year ending September 30th, 1902.

	Made.	Repaired.		Made.	Repaired.
Boukcases	1	3	Patterns for sewer covers	4	
Benches	24	16	" dry kiln	1	
Chairs (common)		395	" traps for kitchen		
Chairs (rocking)		84	pana	1	
Lounges		22	Blinds (Venetian, new tape).	20	
Sofas		9	Waiters, repaired, times	8	
Doors	25	312	Shelves with brackets	24	
Locks		460	Clothes racks for laundry	10	4
Кеув	18		Letter case	1	
Sash and frames	8	30	Ladders		6
Storm sash	6	8	House for steam valves	1	
Large brushes	9	30	Driving shed, 18 x 40 feet	1	
Sinke	8	5	Repaired aidewalks all round,	3,000 ft.	plank.
Step ladders		6	Repaired track, 1,000 ft. maple	3.	-
Tables	6	22	Floored cow stable, new way	ter trou	gh; 4 new
Washstanda		4	arms for cutting machine.		-
Water closets, seats	12	42	New floor in bath rooms and c	losets, re	paired 8.
Refrigerator locks		3	Laid new floors in cottages, 2,6	000 ft.	-
Locks, new	86		Made 6 mouids for fence coppi	ng.	
Stone boats	2	4	Made 3 for corners, 1 for creser		led aame.
Meat boards	16		Put up 406 ft. iron feoce, 2 cre		
Cupboards	4	3	Hung 4 gates.		
Patterns for furnace bars	3		0 0		

TABLE No. 18.

Shewing work done by engineer for year ending September 30th, 1902.

Beds put up and removed	65
Beds repaired	17
Bella, olectric, repaired	12
Dona, Oldenio, repaired	5
Boilers, tea and coffee, repaired	~
Battery, electric repairs	10
Covering boiler, repair	4
Closets, water, repairs on	120
" cleaned out	80
Engines repaired	2
Extinguishers, fire, charged up	6
Fixtores, gas, repairs	10
Cashan menaimed	4
Grates repaired	
Hose, fire, small, repaired	6
Heaters, Tobey, repaired	- 4
Tube, bath, repaired	6
Taps refaced	50
⁴ repaired	110
" put in	25
	$\tilde{2}$
Tanks, expansion, changed	
Taps, gas, repaired	85
Urinals cleaned out	40

Valves, steam and water, repaired	100
" radiator, air. put on	10
" refaced	60
" replaced	24
" flushing in tank closeta	2
Windows repaired in tank closets	5
Whistle repaired	1
Wire, telephone. repaired	10
Washing machine repaired	2
" reservoir	2
" out large vault	23
2 now conner name dyg fast all new connect	iner

2 new copper pans, 4x6 feet, all new connections made for same, in the kitchen.
Altered position of heaters in back dormitory of 2 cottages, and all connections for same.
One new washing machine placed in position and all connections made for same.
Pumped water for all purposes during the year, 18,657,901 gallons.

TABLE No. 19.

Shewing products of farm for year ending September 30th, 1902.

Hay 12 tons. Silo corn 200 tons Mangolds .2,000 hushels	400	Turnipe 500 busbels \$ 75 Potatoes
Carrots 300 bushels		Total

TABLE No. 20.

Shewing products of garden for the year ending September 30th, 1902.

Articles.	Quantity.	Rate.	Value.
		\$ c.	& c
Asparagus	311 tushels	3	9 33
Beans (green),	86 bushels	50	43 00
Beets	458 bunches	3	13 74
£6	110 bushela	40	44 00
Corn (green)	659 dozen	8	52 72
" (fodder)	15 tons	2 00	30 00
Dabbage	3,000 heads	4	120 00
Caulifiower	350 heads	4	14 00
Delery	3,900 heada	4	156 00
Carrota	507 bunches	3	15 21
	120 bushela	40	48 00
Oucumbers	98 dozen	10	9 80
Cress	54 bunches	47	2 16
Currants (red)	8 boxes	10	56 11 30
(black) Letuce (under glass)	113 boxes 240 bunches	4	9 60
" (gsrden)	910 bunches	3	27 30
Onions	2,580 bunches	3	77 40
(4	110 bushels	75	82 50
Parsnips	56 bushels	1 00	56 00
Peas (green)	90 bushels	50	45 00
Pumpkins	54 bushels	8	4 32
Peppars	3½ dozen	10	35
Rhubarb	3,200 bunches	3	96 00
Radishes	282 bunches	3	8 46
Raspberries	78 boxes	10	7 80
Strawberries	1,700 boxea	8	136 00
Spinach	104 bushels	40	41 60
Squash	75 bushels	6	4 50
l'omatoes	145 bushela 🧈	70	101 50
Flower Plants.			
Geraniums (zonales)	500	10	50 00
" (Saleroi)	150	6	9 00
Coleus	300	6	18 00
Miscellaneous flower plants	250	10	25 00
46 66 eeeeeeee	140	15	21 60
16 64	325	6	19 50
66 66	540	3	16 20
	Total		1,426 85

TABLE No. 21.

Shewing work done by painter from November 8th, 1901, to September 30th, 1902.

- Psinted the walls and wood work of all rooms in Cittage 6.
- Put on 150 yds. burlsp in Cottage 6.
- Painted verandah and back porch at Superintendent's house.
- Painted iron work of fence on south east side of asylum grounda.
- Painted large dormitory in Cottage 5.
- Psinted large dormitory in Cottage D. Painted 80 beds.
- Painted back porches at Cottages D. E. and F. 4, 5 and 6, and main building. Painted walla and woodwork of storeroom.

Painted walls and hall in administrative building .. Painted new stsirs and caseing leading to fourth

.

- flat in executive building.
- Painted new implement house. Painted doors, window and sash, also summer kitchen of farmer's bouse.
- Put on 100 yds. burlap in Hall A. Painted hall and woodwork of Hall A.
- Painted bathrooms and apray bath in Hall A. and Hall 1.
- Painted one amall and large waggon.
- Psinted ceilings in Cottages D. and E.
- Painted one bedroom in Cottage E.

TABLE No. 22.

BROCKVILLE ASYLUM.-Farm Exchange Account for the year ended 30th September, 1901.

\$ 34 88 2 60 9 31 105 03 70 50 40 72 21 224 50 8499 65	8211 82 177 12 2 92 2 92 36 75 36 75 34 12 247 50 	\$104 92 3 96
1901. IkecElPTS. Oct. 1, By balance Nov. 11, By cash from F. Sutton, 650 bs rags (0, 40c per 100 b). Sin. 11, By cash from F. Sutton, 650 bs rags (0, 40c per 100 b). Dec. 19, 19, 19, 10, 18, F. Tennant, 133 lbs. hides (0, 7c) 10, 19, 10, 19, 10, 19, 10, 19, 10, 19, 10, 13, 10, 13, 10, 13, 10, 13, 10, 10, 10, 13, 10, 13, 10, 13, 10, 13, 10, 13, 11, 10, 11, 11, 11, 11, 11, 11, 11, 11,	1:02. Jam. 1. By balance	April 1, By balance Vexten, 860 lbs. old hose @ \$1 10
 \$ 15 00 5 75 15 75 5 75 75 15 75 5 75 75 14 00 2 9 48 3 2 40 00 4 3 2 40 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 00 5 7 5 7 5 7 5 00 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7	\$40.90 \$40.00 \$40.00 \$45.00 \$45.00 \$45.00 \$45.00 \$45.00 \$45.00 \$45.00 \$45.00 \$45.00 \$45.00 \$45.00 \$45.00 \$42.00 \$42.00 \$42.00 \$42.00 \$42.00 \$45.00<	\$ 28 84 8 11
Disbuszmerts.1901.Dec.2,To cash paid J. M. Keeler, hire of horse, 5 months @ \$3.00.2,F. H. Clifford, sal loads manure @ 600.2,F. H. Clifford, rent of harn2,G. A. Rudd & Oo., harness account2,G. A. Rudd & Oo., harness account2,G. A. Rudd & Oo., harness account6,B. Baston, blacksmith account16,G. B. Burney, four loads manure @ 6016,J. McAvoy, 5.820 toos straw @ \$6.0016,V. McNish, one milch cow27,W. McNish, one milch cow16,J. McAvoy, 6.820 toos straw @ \$6.0016,J. McAvoy, 6.820 toos straw @ \$6.0016,J. McAvoy, 6.820 toos straw @ \$6.0016,J. McAvoy, 6.820 toos straw16,Yanney, four loade manure fue16,J. McAvoy, 5.820 toos straw @ \$6.0016,J. McAvoy, 5.820 toos straw17,Janes Reid, one milch cow27,Janes Reid, one milch cow	 Jan. 2. To cavb paid Booth Bres., one milch cow Jan. 2. To cavb paid Booth Bres., one milch cow 7, Routh Bros., one milch cow 7, W. R. Henderson, one milch cow 13, Sangster & McQuaig, balance on straw 11, R. B. Murray, two milch cow 29, G. B. Murray, two milch cow 29, G. T. Railway, freight on straw 11, A. E. Railway, freight on straw 11, A. E. Baston, blacksmith account. 11, Joel Judson, one milch cow 11, Brockville & Frescott Toll Road Co., toll 11, P. F. Nolan, whiffletrees. 12, S. S. Bades, three milch cow 81, To balance 81, To balance 91, To balance 91, To balance 	April 9, To cash paid Elgin Rowe, 3,410 tons hay @ \$9.00

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245 00 2359 88 3369 88	\$ 13 69 46 47 46 47 46 47 86 80 86 80 87 86 10 86 10 86 10 86 10 86 10 86 10 86 10 86 11 25 12 56 156 61 155 50 5193 46 5193 46 5193 46	
May 27, By cash fr-m R. Bedlow, two pigs @ \$8.00June 30, S. Bundry persons, 98 young pigs @ \$2.50	 July 1, By balance. 22, By cash from A. Vexton, 1,000 lbs, old hose (0, 1/7c per lb., 22, 13 yeach from A. Vexton, 1,000 lbs, old hose (0, 5/4c., 31, 14, 13 yeach from A. Vexton, 1,320 lbs, beef (0, 6/4c., 31, 13, 14, 14, 14, 13, 15, 15, 16, 16, 16, 16, 16, 16, 16, 17, 10, 18, 11, 17, 11, 18, 18, 16, 16, 17, 11, 18, 18, 16, 16, 17, 11, 18, 18, 16, 16, 16, 17, 11, 18, 18, 16, 10, 117, 11, 18, 18, 10, 18, 10, 18, 10, 18, 10, 19, 10, 117, 11, 18, 18, 10, 10, 117, 11, 18, 19, 19, 19, 19, 19, 19, 10, 10, 10, 10, 10, 10, 117, 11, 18, 117, 11, 18, 117, 11, 18, 117, 11, 18, 117, 11, 18, 117, 11, 118, 117, 11, 118, 119, 117, 11, 118, 119, 117, 11, 118, 119, 117, 118, 119, 110, 110, 110, 110, 110, 110, 110	
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5 2 05 3 60 3 60 3 60 3 60 21 00 21 00 3 60 37 36 45 35 36 36 3 60 37 36 3 60 37 37 45 35 37 36 1 50 27 38 8369 88 \$3369 88 \$3369 88 \$3369 88	 \$ 26 65 5 10 38 5 10 38 5 10 38 5 10 38 2 17 15 17 36 60 36 60 36 61 35 19 346 61 35 <li< td=""><td></td></li<>	
 April 19, To cash paid G. A. Rudd & Co., harness account. 19, To cash paid G. A. Rudd & Co., harness account. 19, T. Derosia, six loads manure (6 60c. 19, F. H. Clifford, SI loads manure (6 60c. 19, F. H. Clifford, SI loads manure (6 60c. May 2, F. H. Clifford, SI loads manure (6 60c. May 2, F. H. Clifford, SI loads manure (6 60c. May 2, K. Warren, 42 bush. oats (6 50c. May 2, K. Warren, 42 bush. oats (6 50c. May 2, K. Warren, 12 bush. oats (6 50c. May 2, K. Warren, 13 bush. oats (6 50c. May 2, K. Marten, 42 bush. oats (6 50c. May 2, K. Marten, 42 bush. oats (6 50c. May 2, K. Marten, 13 bush. oats (6 50c. May 2, K. Marten, 42 bush. oats (6 50c. May 2, K. Marten, 42 bush. oats (6 50c. May 2, K. Marten, 42 bush. oats (6 50c. May 2, K. Marten, 42 bush. oats (6 50c. May 2, K. M. Tifford, J. Jipping vehicles. May 2, M. J. Higging, 47 loads mauure (6 (60c. M. J. Higging, 40c. M. J. Higging, 40c. M. J.	July2, To cash paid G. A. Rudd & Co., harness account.24R. B. Easton, blacksmith account.24G. A. Rudd & Co., harness repairs24P. J. Murray, one mileh cow23R. B. Wright, r. pairing vehicles29G. S. Wright, r. pairing vehicles29G. A. Rudd & Co., harness repairs29G. S. Wright, r. pairing vehicles29G. A. Rudd & Co., harness repairs29G. A. Rudd & Co., harness repairs29G. A. Rudd & Co., harness repairs29G. A. Rudd & Co., harness repairs30To balance30To balance30To balance	

ANNUAL REPORT OF THE MEDICAL SUPERINTENDENT OF THE ASYLUM FOR THE INSANE, COBOURG, ONT., ENDING SEPTEMBER 30TH, 1902.

October 1st, 1902.

To R. Christie, Esq.,

Inspector of Asylums, Ontario :

Sir,—Pursuant to Statute, I have the honor to transmit to you the First Annual Report of this Asylum for the year ending September 30th, 1902. As the official year was well advanced before the Institution was opened for the admission of patients, our first year's report must necessarily be brief.

On January 14th, we received our first contingent of patients, 31 being transferred from Mimico Asylum, and 31 from London Asylum; on January 28th we received 29 from Toronto Asylum; on February 26th we received 40 from Hamilton Asylum; and on March 25th we received 12 from Kingston Asylum. In addition to this, we received 2 outside patients on certificate by order of the Inspector, making in all 145 patients.

The total number of patients under treatment during the year was 145: of these three died from natural causes, and one was discharged, recovered. This was an acute case, a patient who had been in the Toronto asylum less than a year before being transferred to Cobourg. With the single exception of this one case, all our cases are of a chronic nature, and do not afford us much hope of reporting recoveries. Of the 145 patients, 81 were warrant cases and 64 certificate cases.

Ages of Patients in Residence September 30th, 1902.

	Ages.		Pati	ients.			Ages	s.	Pati	ents.
From	20 to	$\overline{25}$	years	* 5	From	50	to 5	5 years		19
From	25 to	30	years	5	From	55	to 6) years		20
From	30 to	35	years	11	From	60	to 6	5 years		19
From	35 to	40	years	18	From	70	to 7	5 years		6
From	40 to	45	years	13	From	70	to 7	5 years		6
From	45 to	50	years	19	From	75	to 8	0 years	• • • • •	1

There are in residence to day 141 patients, and there are 72 of those over fifty years of age, who have been many years in different Asylums.

Expenditure.

Our expenses on maintenance account must necessarily be higher for the first year of our history, so we cannot make favorable comparisons with other institutions of the Province. In making distinctions as to per capita cost of patients in different institutions, a great many things must be taken into consideration. A variety of causes, which tends to increase our per capita expenditure, is quite obvious, and is due to conditions over which we have no control. These need no explanation here.

Grounds.

Considerable work has been done on the grounds during the summer under the direction of the "Public Works Department." We now have a cement sidewalk at the front and around each side of the building, the grounds at the front terraced and sodded, a driveway at the front, also a roadway at the back to the rear of the grounds, and a new fence on the front and on part of the west side of the grounds. It is very desirable that this fence should be extended around the whole of the grounds, at an early date, as the old fence is rotten and very much dilapidated.

Garden.

Nothing much has been done in the way of gardening this year. A' small plot, on the north end of the grounds, was dug up and planted with corn, beans, tomatoes and cabbages, all of which yielded a fair return. The ground is not well adapted for gardening purposes, being heavy clay soil, stoney and wet. To be productive, it would have to be stoned and tiledrained, and under present conditions it is doubtful if the proceeds would repay the cost of the labor.

Amusements.

In the way of amusements we are handicapped, in not having an assembly hall wherein to hold an entertainment. During the summer months the "Sons of England Band" on several occasions very kindly volunteered their services and played for the patients on the grounds. We also gave the patients a picnic on the asylum grounds, when the "Boys' Brigade Band" very kindly gave us their gratuitous services in furnishing the music. The majority of the patients enjoyed it ; it formed a pleasant diversion, and, for the time being at least, infused a ray of sunshine into the clouded lives of those poor unfortunates.

Religious Services.

Religious services are held every Sunday morning at 9 o'clock. The west end of the corridor of hall 1 is used for this purpose ; it has a seating capacity for about 50 patients. Rev. Canon Spragge, Rev. Dr. Saunders, Rev. Mr. Marshall, Rev. Mr. Beatty, and Rev. Mr. Morton, all take their turn in officiating; Rev. Fr. Murray also looks after the spiritual wants of the Roman Catholic patients. These services are much appreciated by many of the patients. Our thanks are due those clergymen for their gratuitous services, in attending to the spiritual welfare of our patients.

Changes in the Staff.

It was a source of sincere regret to us all to lose the services of our former chief attendant, Miss Cathcart. She took sick about the first of June, and for six weeks was prostrated by a severe illness. After convalescence she was granted leave of absence, with the hope that the change would prove beneficial, but unfortunately she was not able to resume her duties, and Miss Gunn was appointed to till the position on the first of September. I am pleased to state that Miss Gunn gives promise of being a capable and efficient officer.

There have been several changes on our staff of nurses during the year, but in every instance the change has been for the better. We have now a capable staff of nurses, faithful in the discharge of their duties, devoted to the interests of the institution, and kind and attentive to hose committed to their charge.

I beg to tender you, Sir, my sincere thanks for valuable advice and suggestions given me from time to time, pertaining to the administration of the institution. You have at all times, and under all circumstances, been willing in every way to assist me in carrying out the landable work in which we are engaged. In conlusion, let me express the hope that our institution will grow from a comparatively small beginning to meet the requirements which may be demanded of it, and that in future we may have greater scope, and better facilities for carrying out the most modern and approved methods in the care and treatment of the insane, that most pitiable class of human beings, who are deprived of the greatest of the God-given attributes, the power of reason and self-control.

I have the honor to be, Sir,

Your obedient servant,

E. C. McNICHOLL,

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Medical Superintendent.

ANNUAL STATISTICAL REPORT

Of the operations of the Asylum for Insane, Cobourg, for the year ending 30th September, 1902.

TABLE No. 1.

ŧ

Shewing movements of patients in the Asylum for the official year ending September 30th, 1902.

		Ď			le.	
	Male.	Female.	Total.	Male.	Female.	Total.
Admitted during year :						
By Lieutenant-Govornor's Warrant		81	81		} 	
By Medical Certificate		64	64		145	145
Total number under treatment during year					145	145
Discharges during year :		1				
As recovered		1	1		••••	
Total number of discharges during year		1	1			
Died		3	3			
Transferred		 •••••	! • • • • • • • • •	 	4	4
Remaining in asylum, 30th September, 1902					141	141
Total number admitted since opening of asylum					145	145
" discharged		1	1			••••
" died		3	3		• • • • • • • • •	
" transferred					4	4
" remaining 30th September, 1902					141	141

TABLE No. 2,

Shewing the maximum and minimum number of patients resident in the Asylum, the total number of days' stay of patients, and the daily average number of patients in the Asylum, from the 1st October, 1901, to 30th September, 1902.

	Male.	Female.	Total.
Maximum number of patients in residence (on the 25th of March)		144	144
Minimum "'''(on the 14th ot January)		62	62
Collective days' stay of all patients in residence during year		34,148	34,148
Daily average population		131-33	131.33

	Admi	i ssion s of	year.	Total admissions since opening.			
	Male.	Female.	Total.	Male.	Female.	Total.	Total.
Social state. Widowed Single Total.	 	58 87 145	58 87 145		58 87 - 145	58 87 145	58 87 145
Religion. Presbyterians. Episcopalians. Methodists. Baptists. Roman Catholics Quakers		$ \begin{array}{c} 24 \\ 32 \\ 36 \\ 5 \\ 29 \\ 1 \\ 13 \\ 5 \end{array} $	24 32 36 5 29 1 13 5		$ \begin{array}{c} 24 \\ 32 \\ 36 \\ 5 \\ 29 \\ 1 \\ 13 \\ 5 \\ 5 \\ $	$ \begin{array}{c} 24 \\ 32 \\ 36 \\ 5 \\ 29 \\ 1 \\ 13 \\ 5 \end{array} $	24 32 36 5 29 1 13 5
Total. Nationalities. English Irish Scotch Canadian United States Other Countries Unkuowns		$ \begin{array}{c c} 145 \\ 14 \\ 26 \\ 8 \\ 92 \\ 2 \\ 2 \\ 1 \\ 1 \end{array} $	$ \begin{array}{r} 145 \\ 14 \\ 26 \\ 8 \\ 92 \\ 2 \\ 2 \\ 1 \\ \end{array} $		$ \begin{array}{c} 145 \\ 14 \\ 26 \\ 8 \\ 92 \\ 2 \\ 2 \\ 1 \\ 1 \end{array} $	$ \begin{array}{c} 145 \\ $	145 14 26 8 92 2 2 2 1
Total		145	145		145	145	145

157

TABLE No. 3.

Shewing the counties from which patients have been admitted up to 30th September, 1902.

Counties.	Admit	ed during	g year.	Total admissions.		
	Male.	Female.	Total.	Male.	Female.	Total
Brant		1	1		1	1
Elgin		$\begin{array}{c} 2\\ 1\end{array}$	$\frac{2}{1}$	· · · · · · · · · ·	2 1	2
Grey Halton		6 2	$^{6}_{2}$		6 2	6 2
Hastinge Huron		3	3		3	3
Kent		1 3	1 3		$\frac{1}{3}$	1 3
Lamhton Lennox and Addington	•••••	1	1	• • • • • • • • • • • • • • • • • • •	1	1
Lincoln Middlesex		4 9	4 9	· · · · · · · · · · ·	4 9	4 9
Northumberland and Durham	· · · · · · · · · ·	17 8	$^{17}_{8}$		17 8	17 8
Oxford Peel		4	4		4	4
Perth Peterborough		3	3		3	3
Renfrew	•••••	1 9	19		$\begin{vmatrix} 1\\9 \end{vmatrix}$	1 9
Stormont, Dundas and Glengarry	· · · · · · ·	3	3		3	3
Victoria Wellington		4 5	$\frac{4}{5}$		4 5	45
Wentworth York		8 33	8 33		8 33	8 33
Not classed		2	2		2	2
Total admissions		145	145		145	145

TABLE No. 4.

Shewing the counties from which warranted cases have been admitted up to 30th September, 1902.

Connties.		ted during	g year.	Total admissions.		
·	Male.	Female.	Total.	Male.	Female.	Total
Braot		1	1		1	1
Essex		$\begin{vmatrix} 1\\ 3 \end{vmatrix}$	$\frac{1}{3}$		1 3	13
Halton		1	1			1
Abron		4	4		4	4
Lambton	•••••	1	1	••••	1	1
incoln	· · · · · · · · ·	2	$\frac{1}{2}$	••••	2	2
diddlesex	• • • • • • • • •	$\begin{array}{c}2\\5\end{array}$	$\frac{2}{5}$		$\frac{2}{5}$	2 5
Datario Dxford		52	$\frac{5}{2}$		52	52
Peel Perth		$\frac{1}{2}$	$\frac{1}{2}$		$\begin{vmatrix} 1\\2 \end{vmatrix}$	12
Peterborongh		5	5		5	5
Simcoe	· · · · · · · · ·	4	4		4	4
tormont, Dundas and Glengarry	••••	3	3		3	32
Wellington Wensworth	· • • • • • • • • •	$\frac{2}{4}$	$\frac{2}{4}$		2 4	Å
Vork	· • • • • • • • •	27	$27 \\ 1$		27 1	27/1
Total admissions			81			81

t.

TABLE No. 5.

Shewing the length of residence in the Asylum of those discharged during the year.

No.	Initials,	Sex.	When admitted.	When discharged.	Remarks.	
1	М. В	F	January 28, 1902	June 28, 1902	Recovered.	

TABLE No. 6.

Shewing age, length of residence and proximate cause of death of those who died during the year ending 30th September, 1902.

No.	Initials.	Sex.	Age.		Residence in Asylum.			Proximate cause of	
				Date of death.	Years.	Months.	Days.	death.	
	M. P C. D L. A. D			April 10, 1902 April 12, 1902 June 9, 1902		1 2	21 15	Exhaustion of acute mania. Cerebral meningitis.	
3	L. A. D	F)	49	June 9, 1902		4	26	Exhaustion of chronic mania.	

TABLE No. 7.

Shewing trades, callings and occupations of patients admitted into the Asylum.

	During the year.			During former years.			
Trades, Callings and occupations.	Males.	Females	Total.	Males.	Females	Total.	Total.
· · · · · · · · · · · · · · · · · · ·							
Book-keepers		1	1				1
Domestic servants		-46	-46				46
Dressmakers		1	1				1
Housekeepers		57	57				57
Milliners		1	1				1
Mnsic-teachers		1	1				1
No occupation		31	31				31
Not stated		1	1				1
Shoemakers		1	1				1
Teachers		4	4				4
Weavers		1	1				1
Total		145	145				145

Shewing causes of insanity.

Causes of insanity.	Number	of instan	ces in wh	ich each o	cause was	assigned
In respect of the admissions for the year	As pre	disposing	cause.	As	exciting c	ause.
ending 31st September, 1902.	Male.	Female.	Total.	Males.	Females	Total.
Moral. Domestic troubles, including loss of relatives or friends. Religious excitement. Adverse circumstances, including business troubles. Love affairs, including seduction Fright and nervous shocks.	· · · · · · · · · · ·		•••••••••		3 3 2 3 1	3 3 2 3 1
Physical. Intemperance in drink		3	•••••	•••••	4 3 1 3 1 2	4 3 1 3 1 2 1
Hereditary. With other ascertained cause in combination With other combined cause in combination			5 7 23	•••••		
Congenital. With other combined cause not ascertained Uoknown		1 102	1 102		117	117
Total		145	145		145	145

TABLE No. 9.

Shewing the probational discharges and result thereof.

Reg. No.	Sex.	Initials.	Date of probational discharge.	Term of probation.	Result.
70	F	М.В	June 28, 1902	2 months	Discharged, recovered.

SUMMARY OF PROBATIONAL DISCHARGES.

X	Male.	Female.	Total.
Number to whom probational leave was granted	•••••	1	1 1

TABLE No. 10.

Shewing in quinquennial	period, th	le ages of	those :	admitted,	recovered	and di	ed during
the year.							

	Admit	oted.	I	Recovered	ì.		Died.	
Ages.	Males. Females.	Total.	Males.	Females.	Fotal.	Males.	Females.	Total.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		9 19 3 13 0 20 8 18 9 19		1				1
-	14			1	1		3	3

TABLE No. 11.

Duration of insanity		Deviade of insanity Lass		Period of treatment of those who were discharged during the year.			
I GIOUP,	prior to admission.	Length of of those ing in a 30th Sep	Cured.	Improved.	Unimproved		
From 5 to 6 months	1 5 1 3 5 5 2 6 7 8 35 18 53		1				
Totals	145	141	1				

TABLE No. 12.

Shewing the nature of employment and the number of day's work performed by patients during the year.

	Number	I	Days worked.			
Nature of employment.	patients who worked.	Male.	Female.	Total.		
Laundry Kitchen Dining rooms Sewing rooms Knitting Mending Wards General Total	4 5 9 6 2 61 9 105		435 545 1,365 989 627 111 12,136 934 17,142	435 545 1,365 989 627 111 12,136 934 17,142		

TABLE No. 13.

Shewing the Counties and Districts from which the patients remaining in residence on the 30th September, 1902, were originally received.

Brant 1 1 Dundas 1 1 Durham 8 8 Elgin 2 2 Essex 1 1 Glengarry 1 1 Grey 6 6 Halton 2 2 Hastings 3 3 Huron 6 6 Kent 1 1 Lincoln 3 3 Lennox and Addington 4 4 Middlesex 8 8 Northumberland 7 7 Ontario 8 8 Stord 4 4 Peel 1 1 Perth 3 3 Storcough 8 8 Stormont 1 1 Vietoria 4 4 Wellington 5 5				
Dundas 1 1 Durham 2 2 Elgin 2 2 Essex 1 1 Glengarry 1 1 Grey 2 2 Halton 2 2 Hastings 3 3 Huron 6 6 Kent 1 1 Lambton 3 3 Lennox and Addington 1 1 Lincoln 4 4 Middlesex 8 8 Northumberland 7 7 Ontario 8 8 Stord 4 4 Peel 1 1 Perth 3 3 Simcoe 8 8 Stormoat 4 4 Wellington 5 5 Wentworth 8 8 York 33 33 Not classed, unknown, etc 2 2	Counties and Districts.	Males.	Females.	Totals.
Dundas 1 1 Durham 2 2 Elgin 2 2 Essex 1 1 Glengarry 1 1 Grey 2 2 Halton 2 2 Hastings 3 3 Huron 6 6 Kent 1 1 Lambton 3 3 Lennox and Addington 1 1 Lincoln 4 4 Middlesex 8 8 Northumberland 7 7 Ontario 8 8 Stord 4 4 Peel 1 1 Perth 3 3 Simcoe 8 8 Stormoat 4 4 Wellington 5 5 Wentworth 8 8 York 33 33 Not classed, unknown, etc 2 2	· · · · · · · · · · · · · · · · · · ·			
Victoria. 4 4 Wellington 5 5 Wentworth 8 8 York 33 33 Not classed, unknown, etc 2 2	Elgin Essex Glengarry Grey Halton Hastings Huron Kent Lambton Lennox and Addington Lincoln Middlesex Northumberland. Ontario Oxford Peel Peel Perth Peth Peth Pethorough Renfrew Simcoe		2 1 16 2 36 1 3 1 4 8 7 8 4 1 3	21162361314878413818
	Victoria. Wellington. Wentworth York		8 33	4 5 8 33
			141	141

1

TABLE No. 14.

Showing number of Articles made and repaired in the Engineer's Department.

Articles.	Made.	Re- paired	Articles.	Made.	Re- paired
Basins . Bath-room . Boilers . Boilers . Cloaets . Cylinders . Drying-room . Elevator . Engine, laundry . Extractor, laundry . Fan		$\begin{vmatrix} 2\\ 2\\ 9 \end{vmatrix}$	Locks and keys. Lawn mower. Mangle Pumps. Steam joints. Shaker bars. Spray bath Steam trap. Tanks. Tubs, laundry. Toby heater. Urns, coffee and tea. Valves. Washers Washers. Washing machines.	4	23 7 1 4 3 9 2 2 2 4 2 8 8 54 15 54 21

TABLE No. 15.

Report of Garden Produce.

Name.	Quantity.	Rate.	Value.
Apples Beans Cabbage Corn Tomatoes	5 pecks 14 dozen 37 dozen	0.20 peck 0.50 dozen 0.09 dozen	$ \begin{array}{c} 1 & 00 \\ 7 & 00 \\ 3 & 33 \end{array} $

TABLE No. 16.

List of articles made in Sewing-room from Feb. 1st to Sept. 30th, 1902.

118 Patients, (dresses.
-----------------	----------

- 21 Attendants, dresses.
- 54 Attendants, aprons. 14 Drawn-work table covere.
- 63 Embroidered shams.
- 109 Patiente, aprons. 26 Yards knitted lace.
- 14 Sofa pillows.
- 5 Shrouds.
- 4 Pair mittens.

70 Pair stockngs. 60 Pair drawera. 278 Pillow cases. 549 Sheets. 56 Table cloths. 480 Towels. 6 Lanndry bags. 113 Chemises. 46 Flannel shirts.

2 Quilte

LUNATIC AND IDIOT ASYLUMS.

ANNUAL REPORT OF THE MEDICAL SUPERINTENDENT OF THE ASYLUM FOR IDIOTS, ORILLIA, FOR THE YEAR ENDING SEPTEMBER 30TH, 1902.

James Noxon, Esq.,

Inspector of Asylums, Toronto, Ontario:

Sir,—I have the honor to transmit the twenty-sixth annual report of the operations of this Asylum, being for the year ending September 30th.

At the close of last year we had in residence 349 males and 302 females, making 651. During the year we admitted 29 males and 28 females, or 57 in all. There were discharged 9 males and 1 female; and the deaths numbered 22 males and 16 females. One male eloped, which makes 32 males and 17 females written off our books, leaving in residence at the close of the year 346 males and 313 females, being a total of 659. Our death rate during the year was low, as compared with several previous years, being 5 1-3 per cent. of the number under care.

We have no less than 465 applications on file. A very large number, but doubtless many of the applicants have since died, and many have changed residence, and could not be located at the present time. The number, however, for whom admission is urgently needed is so large as to bring up the consideration of more accommodation. In former reports suggestions were made showing how more room could be obtained, not only in this Asylum, but in all the Asylums; namely, to establish an Institution for the care and treatment of the hundreds who are suffering from epilepsy, and who are now scattered through the various Asylums. If all the epileptics were gathered together and cared for in one Institution, it would be more in accord with present day ideas. Such an Institution should be on the colony plan, as I have pointed out before. If this were done, more than one hundred vacancies could be made in this Asylum, which would go a long way towards meeting pressing demands.

Then, if two cottages were built on our grounds here for the enstodial care of feeble-minded women of child-bearing age, some of our present inmates could be transferred to such, and thereby make more vacancies. There can be no question about the wisdom of this step, and until something of the kind is done the rapid increase in the number of feeble-minded will continue. But if the six or seven hundred feeble minded women, many of whom are steadily adding to the idiotic and otherwise defective population of the Province, were confined in a custodial Asylum, the number of defectives, paupers, and petty criminals would decrease, and in less than one generation the cost for maintenance of public Institutions would be These feeble minded women could not only attend to greatly lessened. the work of their own cottages, but could be utilized in doing work for the Institution, in the laundry and other domestic departments. I trust, therefore, that this matter will receive the consideration which I think its importance demands.

The Schools.

The schools were continued during the year, but, as they had lost all the distinctive features of a training school for the feeble-minded, and only taught the primary branches of the public school curriculum to a comparatively small number of our inmates, they have been discontinued. The chief object of all efforts to train the feeble-minded is to improve the condition, physical as well as mental. Many who are unable to walk can be trained to do so, and many mutes, who are not deaf, have been taught to speak and read; many who are helpless can be made helpful to themselves and others, and useful about the wards and buildings. Those of the higher and medium grades, by manual training, could be faught simple trades, and become useful inmates of this or other Institutions.

With the four teachers to which our staff had been reduced, all of whom lacked the necessary qualifications, none of these lines of training were pursued. Under these circumstances, therefore, the Honorable the Provincial Secretary very wisely concluded to discontinue the schools, and it is to be hoped that they will soon be re-opened with a capable staff of teachers and instructors, and that the Institution and schools will not only be placed on the popular footing of years ago, but far in advance.

In similar Institutions in Europe and America various industrial trades are the chief features of the training. For instance, carpentering, shoemaking, tailoring, mattress and mat making, basket making, broom and brush making, are trades which could be easily mastered by the better grade, provided we were supplied with intelligent, sympathetic and painstaking instructors. To lead up to this, however, it is very desirable that a certain amount of primary education should be imparted. They should be able to read and write fairly well, and to work the four simple rules of arithmetic, addition, subtraction, multiplication and division; further than this it is not necessary to go. Kindergarten exercises are essential to the successful training of the feeble-minded; in fact, should be the foundation of all school work. They should not stop with the low grade or junior classes, but, to a certain extent, should be carried through all the classes. The higher grade, or brighter, children profit by the kindergarten to a large extent, by becoming more amenable to discipline, in the formation of habits of promptness, and in making them more graceful in their movements. To the medium grade it is invaluable. They learn to think, to use their hands and eyes, and it is an excellent preparation for manual training. With the low grade only physical training is of use, and, perhaps, more care should be taken in selecting teachers for this class than for the better class. It is a fact that the first efforts made in America to educate, or, rather, train the idiotic, were with the low grade; and so successful were these efforts that the work was taken up by State after State, until now nearly all have Institutions for the feeble minded, and they are amongst the most popular in their respective States.

Improvements.

Owing to the rain throughout the summer, and the unusually high water in the lake, nothing was done beyond the railway track. This work will have to stand until a more favorable season.

An excellent wire fence was built around the property bordering on the highway, and also on the boundary line between our neighbors and the garden and the orchard.

Electric Light.

The work of installing electric light and power is not yet completed, but it is so well under way that we expect before many weeks pass to have all our buildings lighted by this system. Judging from present appearances, the plant is going to be an excellent one.

A new fire pump has also been installed, contiguous to the boiler house, and the water main was connected with it, so there will be direct pressure on all the hydrants.

Wants.

Among our more pressing wants is more room for our root crops. This year we will not be able to store our potatoes in the root cellar, as the garden vegetables will completely fill it. It will be necessary, therefore, to store them in the basement rooms of the buildings, which is very objectionable, and not pleasant for those living and sleeping immediately over them; besides being very unsanitary.

Coal Vaults.

For reasons given over and over again from year to year, I again recommend the erection of coal vaults adjoining the boiler house. This want is proving more urgent, as the sheds threaten to collapse. For convenience, safety, and economy this work should not be further delayed.

Silo.

Our sile, commenced several years ago, has never been finished, and once more I would direct attention to this very necessary work. With our large held of cows, it would be economy to complete it. Some of our neighbors have siles, and they find them paying investments. Surely, then, a large Institution, such as this has become, with an average herd of twentyeight cows, should have a first-class sile.

Garden.

The gardens and small fruit yielded fairly well. This year the unusual amount of rain, and the heavy downpour at times, did a great deal of damage by washing out the seeds on several occasions; in fact, some had to be sown three times.

The orchard and small fruit cover nearly all of what was formerly used for vegetables, and it is now proposed to make our vegetable garden to the south side of the buildings, where there is excellent soil. With the large,quantity of small fruit, and the orchard, the gardener has more than he can properly attend to, and I would recommend the appointment of an assistant.

The yield this year has been as follows :

Asparagus.272 bunches.Beans55 bushels.Beets.240 bushels.Cabbage6,000 heads.Cauliflower175 heads.Cucumbers37 dozen.Corn.383 dozen.Cartots.350 bushels.	Spinach49 bushels.Potatoes29 bushels.Horse Radish147 bunches.Parsley75 bunches.Mint20 bunches.Sage125 bunches.Savory60 bunches.
Celery	FRUIT.
Lettuce 6,695 heads.	Apples
Marrow and Squash 10 dozen.	Red Currants
Onions (dried) 300 bushels.	White Currants 529 quarts.
Onions (green) 200 bunches.	Black Currants
Parsuips 200 bushels.	Raspberries
Peas (green)	Strawberries
Peppers	Gooseberries I,821 quarts.
Rhubarb 8,559 bunches.	Pears I bushel.
Radish 917 bunches.	Plums

The total value would be \$1,334.58.

Maintenance.

The per capita cost for maintenance is again low, being \$92.60, about the average of the last few years. It is almost needless to say that the greatest care and economy have to be observed to keep the rate so low; in fact, the service suffers somewhat from it, and I would advise a slight increase under this head. It may be gratifying to know that the per capita cost of this Asylum is the lowest in the world, but if this is obtained at the expense of efficiency it is nothing to be proud of.

Some few weeks ago, I was asked for a statement of our expenditure by the Fiscal Supervisor of the State Charities of New York State. After receiving our statement, he says in a letter of acknowledgment, "By comparison with other similar Instituions throughout the country, it appears that your per capita cost is considerably below the average."

There should be a slight increase in our maintenance in the matter of wages, as we have not a sufficient number of attendants for the number of inmates. To do the patients and the Institution justice, there should be two more female attendants, and at least one male attendant, which would enable us to do better and more satisfactory work in and about the Institution.

There have been few changes in our staff since last report, the only one of importance being the transfer of Dr. Clare to Brockville, and the appointment of Dr. T. J. Moher in his place here. I am glad to say that I find in Dr. Moher a very agreeable and efficient officer, and I have no doubt he will fill the position with credit to himself and advantage to the Institution.

The attendants and employees, generally, have shown an increased interest in the improvements in and around our Institution, and I am glad to say that, with hardly an exception, all have given good satisfaction.

I have the honor to be, Sir,

Your obedient servant,

A. H. BEATON,

Medical Superintendent.

15th October, 1902.

ANNUAL STATISTICAL REPORT

Of the operations of the Asylum for Idiots, Orillia, for the year ending 30th September, 1902.

TABLE No. 1.

Shewing movements of patients in the Asylum for the official year ending September, 1902.

	Male.	Female.	Total.	Male.	Female.	Total.
Remaining, October 1st, 1901 Admitted during year :	 			349	302	651
By Lieutenant-Governor's Warrant " Medical Certificate	2 27	3 25	5 52	29	28	57
Total number under treatment during year Discharges during year :—				378	330	708
" unimproved Total number of discharges during year Died	9 9 22	$\frac{1}{1}$	10 10 38			
Eloped			1	32	17	49
Remaining in Asylum, 30th September, 1902. Total No. admitted since opening of Asylum.		•• ••••	••••	346 852	313 753	659 1,605
"discbarged "died "langed				78 405	54 364	132 769
 eloped transferred remaining, 30th September, 1902 				$ \frac{3}{20} \frac{3}{346} $	22 313	3 42 659
		•••••••		278	187	465

TABLE No. 2

Shewing the maximum and minimum number of patients resident in the Asylum, the total number of days' stay of patients, and the daily average number of patients in the Asylum, from the 1st October, 1901, to 30th September, 1902.

1			Male.	Fen	1ale.	Total.
Maximum No. of patients in residence (on the Minimum ''' (on the 5 Collective days' stay of all patients in residenc Daily average population	th of Dec	year	353 343 127,473 349	112	310 304 2,112 307	66 3 647 239,585 656
Social State.	Total	Admissio Opening		Adı	nissio n s of	Year.
	Male.	Female.	Total.	Male.	Female.	Total.
Married Widowed Single	29	28	57	2 850	9 1 743	11 1 1,593
Total Religion.	29	28	57	852	753	1,605
Presbyterians. Epiecopalians. Methodists Baptists. Congregationalists. Roman Catholics. Mennonites. Quakers Other denominations. Not reported.	4 5 6 2 9 1 2	7 3 5 6 6 1 6	$ \begin{array}{c} 11\\ 8\\ 11\\ 2\\ \dots\\ 15\\ \dots\\ 2\\ 8\\ \end{array} $	$147 \\ 163 \\ 223 \\ 34 \\ 2 \\ 144 \\ 12 \\ 3 \\ 29 \\ 95$	$ \begin{array}{c} 146\\ 166\\ 190\\ 28\\ 1\\ 95\\ 6\\ 1\\ 35\\ 85\\ \end{array} $	293 329 413 62 3 239 18 4 64 180
Total	29	28	57	852	753	1,605
Nationalities.						
English. Irish Scotch Canadian United States. Other conntries. Unknown.	$\begin{array}{c} 4\\ 3\\ 2\\ 19\\ \cdots\\ 1\end{array}$	$\begin{array}{c} 4\\ 2\\ 1\\ 19\\ \ldots\\ 2\end{array}$	8 5 3 38 3	50 47 27 677 8 16 27	48 39 19 600 11 11 11 25	$98\\86\\46\\1,277\\19\\27\\52$
Total	29	28	57	852	753	1,605

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TABLE No. 3.

Shewing the Counties from which patients have been admitted up to 30th September, 1902.

,	Admit	ted durin	g year.	Tot	al admiss	ions.	
Connties.	Male.	Female.	Total.	Male.	Female	Total.	Total.
Algoma District				4	8	12	12
Brant	$\frac{1}{2}$	1	2	12	14	26	26
Bruce	$\frac{2}{2}$	2	4	26 30	24 20	50 50	50 50
Dufferin	4	<i>4</i>		2	20	10	10
Elgin		1	1	7	14	21	21
Essex	3	1	3	22	16	38	38
Frontenac .	1		1	34	$\frac{10}{32}$	66	66
Grey				28	29	57	57
Haldimand		1	1	19	5	34	24
Halton				12	9	21	21
Hastings				15	22	37	37
Huron	1	1	2	28	18	46	46
Kent	1	1	2	17	23	40	40
Lambton		1	1	18	16	34	34
Lanark				9	5	14	14
Leeds and Grenville	1	• • • • • • • • •	1	26	17	43	43
Lennox and Addington				17	12	29	29
Lircoln		1		6	4	10	10
Middlesex Muskoka District	$1 \\ 1 \\ 2$	1	$\frac{2}{2}$	42	25	67	67
Norfolk	2		2	15	9 10	24 18	24 18
Northumberland and Durham	1		*******	23	28	51	$10 \\ 51$
Ontario		1		31	$\frac{26}{22}$	53	53
Oxford	ĩ	1	ĩ	20	17	37	37
Peel	1		i	6	16	22	22
Perth.	î	1	2	12	17	29	29
Peterborough				7	13	20	20
Prescott and Russell				1	3	4	4
Prince Edward				5	10	15	15
Renfrew	1		1	4	11	15	15
Simcoe		3	3	62	1 54	116	116
Stormont, Dundas and Glengarry				29	9	38	38
Victoria	1		1	19	11	30	30
Waterloo	1	*******	_1	19	18	37	37
Welland				6	8	14	14
Wellington Wentworth	1 3	$\frac{2}{1}$	3	23	10	33	33 71
Ventworth	3	9	11	$\frac{37}{143}$	34 125	$\frac{71}{268}$	268
Not Classed	÷	3	11	143	125	13	13
Parry Sound		2	2	0		$\frac{15}{2}$	2
Total admissions	29	28	57	852	753	1,605	1,605

TABLE No. 4.

Shewing the Counties from which warranted cases have been admitted up to 30th September, 1902.

	Admit	ted durin	g year.	Total admissions.				
Counties.	Male.	Female.	Total.	Male.	Female.	Total.	Total.	
				·				
Algoma District	• • • • • • • •				1	1	1	
Brant	• • • • • • • •			1		1	1	
Bruce				5	3	8	8	
Darleton				5	4	9	9	
Dufferin					2	2	2	
llgin					4	4	4	
Casex				2	3	5	5	
rontenac				13	13	26	26	
rey				9	5	14	14	
Ialdimand				3		3	3	
lalton				1	2	3	3	
lastings				2	4	6	6	
Iuron				5	3	8		
lent	• • • • • • • •		* * * * * * * * *	, v	3	3	83	
	••••••			2	4	6	Ê	
amhton	••••		••••••					
anark	• • • • • • •		•••••	4	1	5		
eeds and Grenville.				6	3	9	9	
ennox and Addington				2	7	9	9	
dincoln					2		4	
/liddlesex"				4	1	5	5	
fuskoka District				2	1	3	3	
Vorfolk.				5	5	10	10	
orthumberland and Durham				i 5	3	8	8	
Intario				4	1	5	5	
xford				7	1	8	8	
eel	1		1	2		5	5	
Perth	1	* * * * * * * *	-	5		, 7	7	
	•••••		****		3	3	3	
eterborough			*******	••• ••	1	1	1	
rescott and Russell	• • • • • • • •		• • • • • • • • •		1	1	. 1	
rince Edward	• • • • • • •							
enfrew	• • • • • • •		• • • • • • • •	1	5	6	6	
imcoe	* * * * * * * *			10	6	16	16	
tormont, Dundas and Glengarry				17	1	18	18	
ictoria.				4	1	5	£	
Vaterloo				1		1]]	
Velland					1	1	1	
Vellington		1	1	2	2	4	4	
Ventworth		1	1	3	8	11	11	
York	1	1	2	13	9	22	- 22	
ot Classed					1	1	1	
Total admissions	2	3	5	147	119	266	266	

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LUNATIC AND IDIOT ASYLUM.

TABLE No. 5.

Shewing the length of Residence in the Asylum of those discharged during the year.

No.	Initials.	Sex.	When admitted.	When discharged.	Remarks.
$1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9$	L.P J.P B.T D.H C S L.M.C H.B.M	M M M M F M	Oct. 15, 1894 Jan. 24, 1900 Sept. 11. " Mar. 31, " Nov. 27, 1835 Nov. 28, 1901. Mar. 8, 1902. Aug. 4, 1899. July 7, 1898	(* 30, * * 30, * * 30, * * 30, * * 30, * Apr. 19, 1902 Aug. 18, *	2.6 6.6 8.6 8.6
10			Dec. 13, 1894		6.6

TABLE No. 6.

Shewing age, length of residence, and proximate cause of death of those who died during the year ending 30th September, 1902.

No.	Initials.	Sex.	Age.	Date of death.	Residence in Asylum.		ylum.	Approximate cause of
					Years.	Months.	Days.	death.
$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\16\\117\\18\\20\\21\\223\\24\\25\\227\\28\\293\\31\\32\\33\\34\\35\\36\end{array}$	B. M M. L S. W A. E R. M G. R J. I J. N. J J. E. P S. W L L M. E. B N. M. N C. S B. J. W J. G S. M J. S S. M J. S S S S S S S S S S S S S S S S S S S	F F F M M M M F M F M F M F M F M F M F M F M F M F M F M F M F M F M F M M F M	$\begin{array}{c} 34\\ 15\\ 32\\ 24\\ 30\\ 18\\ 11\\ 23\\ 5\\ 48\\ 58\\ 14\\ 33\\ 27\\ 29\\ 29\\ 38\\ 44\\ 19\\ 65\\ 14\\ 20\\ 26\\ 19\\ 16\\ 26\\ 33\\ 18\\ 8\\ 42\\ 34\\ 50\\ 39\\ 18\\ 10\\ 23\\ \end{array}$	Oct. 12, 1901 12, 14 12, 14 Nov. 13, 14 18, 16 18, 16 18, 16 18, 16 18, 17 18, 16 18, 10 10, 17 10, $ \begin{array}{c} 1 \\ 9 \\ 5 \\ 24 \\ 4 \\ 9 \\ 5 \\ 2 \\ 4 \\ 9 \\ 5 \\ 2 \\ 6 \\ 14 \\ 4 \\ 1 \\ 7 \\ 2 \\ 2 \\ 5 \\ 17 \\ 2 \\ 5 \\ 2 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5 \\ 5$	$\begin{array}{c} 3 \\ 4 \\ 4 \\ 1 \\ 9 \\ 4 \\ 3 \\ 6 \\ \end{array}$ $\begin{array}{c} 11 \\ 9 \\ 7 \\ 3 \\ 6 \\ 8 \\ 9 \\ 2 \\ 6 \\ 2 \\ 6 \\ 8 \\ 3 \\ 9 \\ 2 \\ 6 \\ 2 \\ 6 \\ 8 \\ 3 \\ 9 \\ 7 \\ 10 \\ 11 \\ 7 \\ 7 \\ 11 \\ 3 \\ 9 \\ 11 \\ 7 \\ 7 \\ 8 \\ 11 \\ 4 \\ 2 \end{array}$	$\begin{array}{c} 29\\ 29\\ 29\\ 27\\ 1\\ 18\\ 6\\ 7\\ 19\\ 3\\ 7\\ 1\\ 4\\ 4\\ 17\\ 13\\ 4\\ 4\\ 17\\ 13\\ 4\\ 17\\ 13\\ 4\\ 17\\ 13\\ 4\\ 19\\ 29\\ 28\\ 28\\ 28\\ 28\\ 28\\ 28\\ 28\\ 28\\ 28\\ 28$	Tuberculosis. Gen. Debility. Phthisis. Epilepsy. Heart Disease. Epilepsy. Gastro Enteritis. Phthisis. Epilepsy. General Debility. General Debility. Epilepsy. Phthisis. Phthisis. Phthisis. Phthisis. Gen. Debility. Gen. Debility. Epilepsy. Tuberculosis. Epilepsy. Tuberculosis. Epilepsy. Tuberculosis. Phthisis. Tuberculosis. Epilepsy. Tuberculosis. Phthisis. Gen. Debility. Thermic Fever. Acute Nephrites. Rheumatism. Epilepsy. Gen. Debility Thermic Fever. Acute Nephrites. Rheumatism. Epilepsy. Gen. Debility Heart Disease. Heart Disease.	

TABLE No. 7.

Shewing in quinquennial period, the ages of those admitted, recovered and died during the year.

Ages.		Admitted]]	Recovered	1.		Died.	
	Males.	Females	Total.	Males.	Females	Total.	Males.	Females	Total.
Under 10 years From 10 to 15 years '' 20 '' 25 '' '' 20 '' 25 '' '' 25 '' 30 '' '' 35 '' 40 '' '' 40 '' 45 '' '' 45 '' 50 '' '' 55 '' 60 '' '' 65 '' 70 '' Totals	7 4 5 4 3 2 2 1 1 1 	3 4 5 2 1 2 4 1 1 1 	$ \begin{array}{r} 10 \\ 8 \\ 10 \\ 9 \\ 5 \\ 2 \\ 1 \\ 5 \\ 2 \\ 1 \\ 5 \\ $				2 2 5 2 4 3 1 1 1 1 2 2 2 2 2 2 2 2 3 1 1 1 2 2 2 5 5 2 4 3 1 1 1 1 2 2 5 5 2 4 3 3 1 1 1 1 1 1 1 2 2 5 5 5 5 5 5 5 5 5 5 5	2 2 2 2 4 1 1 	2 4 7 4 6 7 2 2 1 1 1 1 1 1 38

TABLE No. 8.

Periods.	Length of residence of those remaining in asylum on 30th September.	Periods.	Length of residence of those remsining in Asylum on 30th September.
Under 1 month From 1 to 2 months 2 4 3 4 3 4 4 5 5 6 4 6 7 4 7 4 8 7 4 8 7 5 10 4 7 4 8 7 4 7 4 7 4 8 7 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4	$3 \\ 5 \\ 2 \\ 7 \\ 4 \\ 6 \\ 2 \\ 7 \\ 6 \\ 10 \\ 1 \\ 23 \\ 26$	From 2 to 3 years 3 (4 4 (5 (4 (4 (5 (4 (5 (4 (4 (5 (4 (4 (5 (4 (4 (5 (4 (4 (5 (4 (4 (5 (4 (4 (5 (4 (4 (5 (4 (4 (5 (4 ())))))))))))	$\begin{array}{r} 34\\ 53\\ 36\\ 46\\ 43\\ 28\\ 8\\ 42\\ 145\\ 52\\ 66\\ \hline \hline 659\\ \end{array}$

TABLE No. 9.

Shewing the nature of employment and the number of day's work performed by patients during the year.

		Days worked.			
Nature of employment.	No. of patients who worked.	Male.	Female.	Total.	
Carpenter shop	2	312		312	
Tailor shop	6	1,252		1,252	
Wood yard and coal shed	8	1,240		1,240	
Bakery	3	939		939	
Laundry	22	1,721	4,607	6,328	
Dairy	7		2,510	2,510	
Butcher shop and slaughter house	2	156		156	
Piggery	2	730		730	
Painting .	1	260		260	
Farm	12	1,872		1,872	
Garden	10	1,405		1,405	
Grounds	12	1,872		1,872	
Stable	4	1,277		1,277	
Kitchen	17	820	1,408	2,228	
Dining rooms	34	4,380	7,240	11,620	
Officers' quarters	4	365	1,060	1,425	
Sewing rooms	, 7		1,904	1,904	
Knitting	37		7,214	7,214	
Mending	20		1,040	1,040	
Wards	188	27,375	41,145	68,520	
Halls	10	2,791	626	2,817	
Storeroom	1	313		313	
General	18	2,191	2,738	4,929	
Boiler house	4	1,090		1,090	
Gas house	2	730		730	
Superintendent's house	3		1,085	1,085	
Total	436	52,491	72,577	125,068	

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TABLE No. 10.

Shewing the Counties and Districts from which the patients remaining in residence on the 30th September, 1902, were originally received.

lgoma District	1	5	6
ant.	5	6	11
ruce	10	7	17
arleton	10	8 2	18
nfferip	3	$\hat{\vec{3}}$	6
undas urham	2	3	5
gin	2	3	5
Bex	12	6	18
ontenac	15	9	24
e garry	4		4
renville	10	. 1 8	18
reyaldimand	5	2	7
alton	2	5	7
astings	7	10	17
uron	12	4	16
ent	5	9	14
ambton	73	$\frac{8}{1}$	10
anark	10	5	15
eeds ennox and Addington	9	6	15
ncoln	2		2
iddlesex	29	8	37
uskoka District	7	4	11
ipissing District .	1 4	4	1 8
orfolk	3	4	7
atario	7	8	15
xford	10	6	16
arry Sound District	3	2	5
eel	. 3	6	9
erth	. 3	5 5	9
eterborough		J	i
rescott	3	2	5
enfrew	2	4	6
nssell		. 1	1
imcoe	. 18	31	49
tormont :	. 4		
ictoria	. 5 6	10	16
/aterloo	2	3	E
Vellington	. 9	5	14
7entworth	14	15	29
ork	. 69	73	14
ot classed, unknown, etc	. 1	2	e e

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ORILLIA ASYLUM-Farm Exchange Account for the year ending 30th September, 1902.

1901. Dect. 1, By balance	\$ 2,050 41 1902. Jan. 1, By balance	$ \begin{array}{c} & \text{Apr. 1, By balance} \\ & \text{Apr. 1, By balance} \\ & \text{i. 3, By cash from A. Kerr, 2 dry cows} \\ & \text{i. 3, By cash from A. Kerr, 2 dry cows} \\ & i. 16, 16, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10$
DISBURSENJENTS. 1301 Oct. 1, To cash paid G. T. Rajlway, freight. $\$$ 3 35 00 7 T. Johnston, I unich cow $\$$ 35 00 17 T. Johnston, I unich cow $\$$ 35 00 18 J. Johnston, Ruight. $\$$ 35 00 19 T. Johnston, Ruigh, S.2.50 9000 19 W. J. Walker, I pigs, S.2.50 9000 19 W. J. Walker, I pigs, S.2.50 9000 19 W. J. Walker, I pigs, S.2.50 10000 19 W. J. Walker, I pigs, S.2.50 10000 19 W. J. Walker, I pigs, S.2.50 10000 10 M. Y. Walker, I pigs, S.2.50 117500 Nov. 1 W. S. Thouson, 5 117500 Nov. 1 W. S. Thouson, 5 1125000 17 Macrab lives, horde to tool house $9900000000000000000000000000000000000$	1902. 1902. Jan. 21, To cash paid A. Calvery, 1 milch cow. \$\$ 2,060 41 22, A. Kerr, 1 milch cow. \$\$ 31 00 29, A. Kerr, 1 milch cow. \$\$ 35 00 29, A. Kerr, 1 milch cow. \$\$ 50 00 Feb. 11 W. Harr, 1 milch cow. \$\$ 50 00 12, Macab kros., 6 coal shovels, \$1.10 \$\$ 66 00 12, Macab kros., 6 coal shovels, \$1.10 \$\$ 50 00 13, Jas. Johnston, 1 milch cow. \$\$ 50 00 13, Jas. Johnston, 1 milch cow. \$\$ 50 00 13, Jas. Johnston, 1 milch cow. \$\$ 50 00 13, Jas. Johnston, 1 milch cow. \$\$ 50 00 13, Jas. Johnston, 1 milch cow. \$\$ 50 00 13, Janieson, 1 milch cow. \$\$ 50 00 13, Janieson, 1 milch cow. \$\$ 50 00	Apr. 1, To cash paid L. McKinnon, 1 milch cow. \$\$ 1,995 41 1, To cash paid L. McKinnon, 1 milch cow. \$\$ 35 00 11, McNabb Bros, 6 coal scoops, \$1.10 \$\$ 35 00 11, M. T. Meit, 1 bug sced potatoes 1 00 19, V. Nan Norman, rep. to buggy. 1 00 19, V. Nan Norman, rep. to buggy. 16 85 22, Gack, rep. to buggy. 16 85 22, Gr T Railway, freight. 35 37 00 23, J. R. Harvio, 1 nich cow. 37 00

RECEIPTS.	\$ 2.349 70	July 1, By balance	\$ 2,024 43
DISBORSEMENTS.	May 1. To cash paid A. McPhee, 3 small pigs. $6 \ 00$ 1 1. Subsection of the small pigs. $24 \ 00$ 1 3. Woods, 6 small pigs. $24 \ 00$ 3 4. Woods, 6 small pigs. $24 \ 00$ 1 5. Woods, 6 small pigs. $24 \ 00$ 3 4. Woods, 6 small pigs. $24 \ 00$ 1 9. Woods, 6 small pigs. $24 \ 00$ 1 9. Woods, 6 small pigs. $24 \ 00$ 16 0. Fletcher, 10 small pigs. $34 \ 45$ 16 0. Fletcher, 10 small pigs. $34 \ 45$ 19 0. Offey 1 mile cow $36 \ 00$ 19 0. Coffey 1 mile cow $36 \ 00$ 19 0. Coffey 1 mile cow $36 \ 00$ 19 0. C. Thompson, seed peas $46 \ 24$ 1 $30 \ 1. C. Thompson, seed peas 46 \ 25 \ 10 1 30 \ 1. C. Thompson, plough pointes 1,909 \ 43 1 30 \ 1. C. Thompson, plough pointes 1,909 \ 43 $	July 7, To cash paid Macuab Bros., garden tools. \$ 48 65 15, To cash paid Macuab Bros., garden tools. \$ 48 65 19, O. Salter, work on grounds. \$ 500 22, H. Phillips, repairing pump. \$ 72 31 Aug. 5, H. Phillips, repairing pump. \$ 900 9, Salter, work on grounds. \$ 72 31 19, O. Salter, work on grounds. \$ 900 9, H. Phillips, repairing pump. \$ 900 16, H. Dunn, fence posts. \$ 900 17, W. F. Gamou, 1 mileh cow \$ 4000 17, W. Palance \$ 6000 17, W. Palance \$ 1, 1, 1, 559 82	<u>\$ 2,021 43</u>

ANNUAL STATISTICAL REPORT

OF THE

Operations of the Asylum for Insane, Homewood Retreat, Guelph, for the year ending 30th September, 1902.

TABLE No. 1.

Shewing movements of patients in the Asylum for the official year ending September 30, 1901.

		1	1	1		
	Male.	Female.	Total.	Male.	Female.	Total.
INSANE BRANCH.						
Remaining, October 1st, 1901 Admitted during year- By Medical Certificate				4	12 22	16 3 3
Total number under treatment during year				15	34	-49
Discharges during year-						
As recovered	4	7 2 4 1 2	$ \begin{array}{c} 11 \\ 2 \\ $			
Total number of discharges during year				8	16	24
Remaining in Asylum, 30th September, 1901				7	18	25
Total number admitted since opening of Asylum				150	140	290
" discharged died eloped	120 20 3	116 6	236 26 3	100		
" transferred			• • •	143	122	265
" remaining, 30th September, 1902				7	18	25
Voluntary Branch.						
Remaining, October 1st, 1901				4	2	6
Admitted during year— By Medical Certificate				2 9	9	38
Total number under treatment during year				33	11	44
Total number of discharges during year Eloped Transferred	$\frac{26}{2}$	8	$\frac{34}{2}$	28	8	1 36
Remaining in Asylnm, 30th September, 1902				5	3	8
Total number admitted since opening of Asylnm				361	63	424
" discharged	344	60	404	001	00	EM 1
" eloped	75	•••••	7 5	0.8.0		
transierred		••••		356	60	416
" remaining, 30th September, 1902	• • • • • •	• • • • • • •	•••••	5	8	8

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THIRTY-FIFTH ANNUAL REPORT

OF THE

INSPECTOR OF

PRISONS AND REFORMATORIES

OF THE .

PROVINCE ()F ONTARIO,

1902.

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.

WARWICK BROS' & RUTTER, Printers, 1903.

OFFICE OF THE

INSPECTOR OF PRISONS AND PUBLIC CHARITIES, ONTARIO,

PARLIAMENT BUILDINGS, TORONTO, November, 1902.

SIR,—I have the honor to submit herewith, to be presented to His Honor the Lieutenant-Governor, the Thirty-fifth Annual Report upon the Common Gaols, Prisons and Reformatories of the Province of Ontario, being for the official year ending 30th September, 1902.

I have the honor to be, Sir,

Your obedient servant,

T. F. CHAMBERLAIN, Inspector.

THE HONORABLE J. R. STRATTON, M.P.P.,

Secretary of the Province of Ontario,

Toronto.

PARLIAMENT BUILDINGS,

TORONTO, November, 1902.

To the Honorable SIR OLIVER MOWAT, Knight Commander of the Order of St. Michael and St. George, Member of the King's Privy Council for Canada, and Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOR:

I beg to submit herewith the Thirty-fifth Annual Report upon the Common Gaols, Prisons and Reformatories for the year ending on 30th September, 1902.

I have the honor to be,

Your Honor's most obedient servant,

J. R. STRATTON, Provincial Secretary.

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THIRTY-FIFTH ANNUAL REPORT

UPON THE

GAOLS AND LOCK-UPS.

Considerable attention has been given by the County Councils to improving the condition of the gaols throughout the Province, during the past year, and a fair proportion of them are, in consequence, very well adapted for the safe-keeping and classification of prisoners. There are, however, still a number of gaols in some of the older counties which are not in so satisfactory a condition, although 1 have repeatedly called the attention of the authorities to the defects in the buildings. In some cases it is the absence of a proper water supply, in others the want of drainage, water-closets, improved heating arrangements, a separate residence for the gaoler and suitable apartments for the turnkey and matron.

As a rule the gaol officials have been attentive to their duties, and careful in the management of the prisoners.

I have again to regret the use of the county gools for domiciling the insame and feeble-minded, the aged and infirm, the sick and poor, and trust that some action will soon be taken to prevent the continuance of this practice.

The lock-ups in the districts have been kept in good order, and some of them enlarged and much improved, the rapid increase in population de manding more accommodation. During the past year some four or five new lock-ups have been erected in the newer and more populous sections in New Ontario, the better to preserve order and carry on the administration of justice, where railway construction, mining and lumbering operations are being extended.

The prison records for the year are very favorable as compared with former years. The number of committals during the year was 8,280, being 266 less than in 1901; this is the lowest number, with the exception of two years, since 1873, the highest being 13,481 in 1877. Of the number of committals during the year 5,192 were punished by fine or imprisonment. Of the total number of committals 7,066 were men and 1,214 were women. On the 30th September last there were in the gaols of the Province 529 criminals, imbeciles, idiotic and insane, being a considerable decrease from former years. The number committed during the year, under 16 years of age, was 231; of these, 216 were boys and 15 were girls, being less than in former years. During the year 415 were committed for crimes against public morals and decency, which was 79 less than in 1901.

For drunkenness. 2,674 were committed, which is a slight increase over last year. This increase occured at Toronto and London, whereas there was a decrease in the commitments at Ottawa and Sudbury. There were 4,597 committals for crimes against public order and peace, as compared with 4,345 in 1901. The number sent to the Penitentiary was 112, while in 1901 128 were sent. There were sent to the Reformatory, 52: in 1901 there were 70. There were sent to the Central Prison 425; in 1901 there were 540; to the Female Reformatory, 82; and 94 in 1901. It will be seen by these figures that there has been quite a reduction in the number sent to the higher prisons during the past year. Of those committed 6,983 could read and write: and 1,297 could neither read nor write.

On the 30th September last there were in the gaols of the Province, classed as insane, idiotic and imbecile, 80; of these 28 were in Toronto goal, 9 in L'Orignal, 8 in Cobourg, and the balance were scattered over the Province. Of the total number (80) not more than ten per cent. were cases of insanity. There were 18 escapes during the year, as against 16 in 1901. The total number of cells in the gaols of the Province is 1.568, and the greatest number of prisoners in one day was 1.045. There was expended upon gaols during the past year \$141,000, or about \$3,000 more than the year previous. The cost per day per prisoner was 23 cents: the average cost of food per day per prisoner was about 6 1-2 cents.

The total number of days' stay in gaol of prisoners was 207,391. A great necessity exists for some form of reconstruction of prison labor, so far as the gaols are concerned, so that the prisoners may be made to con tribute as far as possible towards their maintenance; at present little or nothing is derived from this source.

> T. F. CHAMBERLAIN, Inspector.

COMMON GAOLS.

The following table shews the number of prisoners committed to the Common Gaols in the Province in each year, from the 1st October, 1869, to the 30th September, 1902.

					10.5		
Date	of commitment.		Men over 16 years of age.	Boys under 16 years of age.	Women over 16 years of age.	Girls under 16 years of age.	Total.
Commitments for the ye	ar ending 30th September,	1869	3,599	294	1,680	82	5,655
11	ч	1870	4,215	319	1,737	108	6,379
	22	1871	4,586	329	1,642	58	6,615
**	11	1872	5,006	281	1,615	56	6,958
11	п	1873	5,745	323	1,735	74	7,877
11	17	1874	7,298	377	1,746	67	9,488
н	н	1875	8,048	389	1,566	70	10,073
н	11	1876	9,005	434	1,727	70	11,236
11	11	1877	11,053	542	1,824	62	13,481
11	21	1878	9,537	480	1,959	54	12,030
	18	1879	8,995	416	1,756	53	11,220
11	11	1880	8,229	549	1,863	59	11,300
н	22	1881	7,007	468	1,681	73	9,229
н	11	1882	7,236	522	1,750	62	9,620
н	П	1883	7,858	42 3	1,551	48	9,880
ц	n.	1884	9,858	458	1,719	46	12,081
11	11	1885	9,419	450	1,507	50	11,426
H	11	1886	8,831	352	1,424	38	10,645
	11	1887	8,996	409	1,574	38	11,017
11	99	1888	10,060	551	1,778	65	12,454
77	н	1889	10,349	451	1,685	46	12, 531
		1890	9,622	461	1,677	50	11,810
18	D	1891	8,469	421	1,501	32	10,423
н	B	1892	7,177	446	1,335	53	9,011
	н	1893	6,798	388	1,399	34	8,619
11	н	1894	7,785	278	1,350	37	9,450
11		1895	7,912	284	1,154	30	9,380
19	11	1896	7,622	265	1,147	24	9,058
11	н	1897	7,533	235	1,069	47	8,884
	91	1898	6,974	284	969	29	8,256
11	17	1899	6,846	267	1,057	33	8,203
н	17	1930	7,063	298	1,291	42	8,694
11	н	1901	7,059	262	1,198	27	8,546
11	0	1902	6,850	216	1,199	15	8,280

1902

The next table shews the number of prisoners (male and female) committed to each gaol during 1901 and 1902, and the increase and decrease in the commitments of the latter year compared with the former.

Name of gaol.	comm year	Number of prisoners committed in the year ended Sept. 30th, 1901.			Number of prisoners committed in the year ended Sept. 30th, 1902.			Increase.			ecrea	80,
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female	Total.
Barrie Berlin Belleville Brantford Brackville Bracebridge Cayuga Conwall Cobourg Cotatham Goderich Goderich Goderich Hamilton Kingston London London London Lindsay Vorignal Milton Napanee Ottawa Oven Sound Perth Picton Perth Pertro' Pertro' Pertrage St. Cathariue Sandwich St. Thomas Statford Sandwich St. Thomas Sault Ste, Marte Toronto Wedland Welland Whitby	$\begin{array}{c} 91\\ 82\\ 126\\ 181\\ 59\\ 119\\ 56\\ 124\\ 124\\ 124\\ 124\\ 49\\ 58\\ 433\\ 87\\ 371\\ 124\\ 49\\ 58\\ 433\\ 87\\ 371\\ 124\\ 49\\ 635\\ 115\\ 43\\ 98\\ 41\\ 30\\ 145\\ 73\\ 48\\ 48\\ 48\\ 48\\ 77\\ 77\\ 60\\ 69\\ 180\\ 82\\ 124\\ 53\\ 148\\ 824\\ 53\\ 148\\ 224\\ 51\\ 1894\\ 51\\ 148\\ 224\\ 51\\ 51\\ 148\\ 224\\ 51\\ 148\\ 224\\ 51\\ 148\\ 224\\ 51\\ 148\\ 224\\ 51\\ 148\\ 51\\ 148\\ 224\\ 51\\ 51\\ 148\\ 224\\ 51\\ 51\\ 148\\ 224\\ 51\\ 51\\ 148\\ 224\\ 51\\ 51\\ 148\\ 148\\ 224\\ 51\\ 148\\ 148\\ 224\\ 51\\ 148\\ 148\\ 224\\ 51\\ 148\\ 148\\ 148\\ 148\\ 148\\ 148\\ 148\\ 14$	$\begin{array}{c} 11\\ 5\\ 16\\ 20\\ 6\\ 17\\ 6\\ 6\\ 3\\ 20\\ 4\\ 1\\ 5\\ 3\\ 20\\ 22\\ 8\\ 5\\ 8\\ 10\\ 22\\ 8\\ 5\\ 8\\ 10\\ 22\\ 8\\ 5\\ 8\\ 10\\ 1\\ 2\\ 5\\ 8\\ 10\\ 7\\ 8\\ 5\\ 10\\ 9\\ 2\\ 641\\ 8\\ 10\\ 9\\ 6\\ 6\\ 19\\ 1\\ 2\\ 5\\ 6\\ 19\\ 1\\ 2\\ 5\\ 6\\ 10\\ 9\\ 2\\ 6\\ 10\\ 1\\ 1\\ 2\\ 5\\ 10\\ 9\\ 2\\ 6\\ 10\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	$\begin{array}{c} 102\\ 87\\ 142\\ 201\\ 65\\ 136\\ 59\\ 125\\ 59\\ 144\\ 148\\ 50\\ 63\\ 496\\ 97\\ 393\\ 68\\ 822\\ 98\\ 49\\ 122\\ 49\\ 800\\ 122\\ 49\\ 117\\ 422\\ 32\\ 160\\ 75\\ 54\\ 80\\ 70\\ 76\\ 88\\ 87\\ 134\\ 87\\ 134\\ 158\\ 87\\ 134\\ 57\\ 158\\ 233\\ 57\\ \end{array}$	$\begin{array}{c} 87\\ 96\\ 125\\ 125\\ 53\\ 145\\ 28\\ 89\\ 42\\ 121\\ 101\\ 105\\ 29\\ 436\\ 83\\ 32\\ 29\\ 105\\ 299\\ 105\\ 299\\ 105\\ 299\\ 105\\ 299\\ 105\\ 299\\ 105\\ 293\\ 366\\ 422\\ 113\\ 71\\ 51\\ 42\\ 63\\ 121\\ 42\\ 63\\ 121\\ 45\\ 168\\ 1,871\\ 128\\ 232\\ 52\\ 52\\ 52\\ 52\\ 52\\ 52\\ 52\\ 52\\ 52\\ 5$	$\begin{array}{c} 11 \\ 6 \\ 16 \\ 13 \\ 1 \\ 13 \\ 7 \\ 5 \\ 1 \\ 14 \\ 2 \\ 9 \\ 8 \\ 7 \\ 59 \\ 2 \\ 3 \\ 4 \\ 2 \\ 138 \\ 15 \\ 3 \\ 17 \\ 2 \\ 4 \\ 19 \\ 1 \\ 1 \\ 5 \\ 10 \\ 7 \\ 9 \\ 10 \\ 28 \\ 645 \\ 10 \\ 7 \\ 3 \\ 1 \\ 1 \\ \end{array}$	$\begin{array}{c} 132\\ 118\\ 35\\ 82\\ 479\\ 86\\ 546\\ 51\\ 32\\ 109\\ 31\\ 574\\ 98\\ 35\\ 110\\ 98\\ 35\\ 110\\ 33\\ 35\\ 132\\ 72\\ 72\\ 52\\ 52\\ 79\\ 43\\ 3\\ 73\\ 183\\ 72\\ 131\\ \end{array}$	14 26 15 15 116 12 15 15 12 15 12 	1 1 4 5 37 8 8 1 2 2 4	···· ··· ··· ··· ··· ··· ··· ··	18	4 1 2 9 10 3 	$\begin{array}{c} 4\\ 1\\ 7\\ 1\\ 1\\ 4\\ 4\\ 2\\ 3\\ 1\\ 1\\ 6\\ 1\\ 2\\ 3\\ 3\\ 0\\ 16\\ 1\\ 2\\ 2\\ 1\\ 1\\ 4\\ 1\\ 1\\ 1\\ 7\\ 5\\ 3\\ 2\\ 2\\ 3\\ 3\\ 2\\ 7\\ 6\\ 5\\ 3\\ 2\\ 7\\ 6\\ 5\\ 3\\ 2\\ 2\\ 3\\ 3\\ 2\\ 7\\ 6\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\$
Gore Bay Little Current Manitowaning Mattawa Minden Sudbury Huntsville Fort William Burk's Falls North Bay Massey Webwood Sturgeon Falls Fort Frances	$\begin{array}{c} 6\\ 37\\ 12\\ 10\\ 9\\ 324\\ 22\\ 54\\ 13\\ 41\\ 23\\ 49\\ 9\\ \cdots \end{array}$	1 1 1 7 2 2 2 1 2 2 1 2 2 	$\begin{array}{c} 6\\ 38\\ 12\\ 11\\ 10\\ 331\\ 24\\ 56\\ 14\\ 43\\ 23\\ 49\\ 9\\ \cdots\\ \cdots\\ \end{array}$	$ \begin{array}{c} 12\\ 3\\ 9\\ 295\\ 19\\ 64\\ 17\\ 50\\ 19\\ 60\\ 8\\ 52\\ \end{array} $	16 16 2 1 6 2 1 6	311 19 70 19 51 19 66 8 53	10 4 9 11	9 	7 9 9 14 5 9 17 53	5 7 29 3 4 1		6
Totals	7,314	1,232	8,546	7,066	1,214	8,280	380	116	496	628	134	762

The number of commitments, in five-year periods, for the past twenty-six years is shewn in the subjoined tables divided into five classes :

Nature of Crime.	1877 to 1881	1882 to 1886.	1887 to 1891.	1892 to 1896.	1897 to 1901.	1902.
Assault, common	3,093	2,907	2,452	1,912	1.766	286
Aseault, felonious	530	716	884	626	686	145
Cutting and wounding, stabbing and				Í		
shooting with intent	328	315	532	422	258	47
Rape and aseault with intent	201	253	222	247	267	47 17 8
Murder	153	161	135	137	94	17
Manelaughter	47	59	81	36	42	8
Attempt at suicide	41	43	42	41	61	11
Miscellaneous	210	208	116	73	186	-4
Total	4,603	4,662	4,464	3,494	3,360	565

1. CRIMES AGAINST THE PERSON.

2. CRIMES AGAINST PROPERTY.

Nature of Crime.	1877 to 1881.	1882 to 1886.	1887 to 1891.	189 2 to 1896,	1897 to 1901.	1902,
Arson and incendiarism Burglary Counterfeiting and passing counterfeit	184 387	172 292	18 3 329	$\frac{211}{379}$	$\frac{200}{352}$	$\frac{19}{49}$
	82	36	62	50	38	4
Destroying and injuring property	576	544	423	344	345	75
Embezzlement.	121	138	129	68	16	2
Forgery.	223	211	211	165	193	26
Fraud and obtaining money or goods			I		1	
under false pretences	602	592	560	595	603	113
Horse, cattle and sheep stealing	383	335	353	361	i 308	64
Housebreaking and robbery	385	554	766	1,115	730	111
Larceny.	8,546	7,406	7,762	7,433	7,542	1,382
Receiving stolen goods	208	197	190	170	190	27
Trespase	533	885	1,459	1,550	1,327	332
Miscellaneous	265	406	302	100	1 885	
Total	12,495	11,768	12,729	12,541	12,729	2,201

3. CRIMES AGAINST PUBLIC MORALS AND DECENCY.

Nature of Crime.	1877 to 1881.	1882 to 1886.	1887 to 1891.	1892 to 1896.	1897 to 1901.	1902.
Bigamy	46	49	68	70	70	17
ill-fame	930	863	827	609	620	175
Keeping houses of ill-fame	534	529	475	400	397	96
Perjury	124	59	81	92	107	18
Seduction	6	3	67	102	146	17
Indecent assault and exposure	186	213	323	348	363	81
Miscellaneous	448	226	202	285	314	11
Total	2,274	1,942	2,043	1,906	2,017	415

Nature of Crime.	1877 to 1881.	1882 to 1886.	1887 to 1891.	1892 to 1896	1897 to 1901.	1902.
Abusive and obscene language Breaches of peace, breaches of by-laws, escapes from and obstructing con-	406	312	280	2 68	205	43
stables	555	637	786	664	644	100
Carrying unlawful weapons	166	193	169	125	122	29
Deserting employment	103	86	21	25	53	56
Drunk and disorderly Selling liquor without license, and	18,521	19,293	21,545	11,806	10,217	2,674
selling or giving it to Indians	633	360	691	273	185	36
Threatening and seditious language	237	197	190	185	129	18
Vagrancy	12,738	9,831	10,482	10,154	9,707	1,347
Miscellaneous	989	912	1,126	1,211	563	294
Total	34,348	31,821	35,300	24,711	21,828	4,597

4. OFFENCES AGAINST PUBLIC ORDER AND PEACE.

5. OTHER CAUSES FOR WHICH PERSONS WERE DETAINED AS PRISONERS

Nature of Crime.	1877 to 1881.	1882 to 1886.	1887 to 1891.	1892 to 1896.	1897 to 1901.	1902.
Contempt of Court Debtors	$722 \\ 331$	$\frac{513}{283}$	$630 \\ 374$	561 169	386 101	85 5
Detained as witnesses. Lunatics and persons dangerous to be	95	94	141	88	74	6
at large	1,666 80	2,113	2,273	1,888	1,953	383
Want of sureties to keep the peace	646	456	281	160	138	23
Total	3,540	3,459	3,699	2,866	2,652	502
Total number of persons committed for the respective years	57,260	53,652	58,235	45,518	42,586	8,280

A table shewing the number of commitments to each gaol for drunkenness during the years 1900, 1901 and 1902 is annexed. The figures for 1901 and 1902

Name of gaol.	Commitments far drunken- ness during the year end- ing 30th September, 1885.	Commitments for drunken- ness during the year end- ing 30th September, 1886.	Commitments for drunken- ness during the year end- ing 30th September, 1887.	Commitments for drunken- ness during the year end- ing 30th September, 1888.	Commitments for drunken- ness during the year end- ing 30th September, 1889.	Commitments for drunken- ness during the year end- ing 30th September, 1890.	Commitments for drunken- ness during the year end- ing 30th September, 1891.	Commitments for drunken- ness during the year end- ing 30th September, 1892.
Barrie Berlin Belleville Brantford Brampton Brockville Bracebridge Cayuga Conwall Cobourg Chatham Goderich Guelph Hamilton Kingston London London Lindsay L'Orignal Milton Napanee Ottawa Owen Sound Orangeville Perth Picton Peterborugh Port Artbur Parry Sound Rat Portage Simcoe St. Catharines Santia Stratford Sandwich St. Thomas Sault Ste. Marie Toronto Walkerton	$\begin{array}{c} 31 \\ 7 \\ 45 \\ 28 \\ 24 \\ 80 \\ 67 \\ 18 \\ 3 \\ 26 \\ 18 \\ 3 \\ 32 \\ 368 \\ 74 \\ 277 \\ 30 \\ 3 \\ 9 \\ 6 \\ 205 \\ 36 \\ 41 \\ 11 \\ 27 \\ 36 \\ 41 \\ 11 \\ 27 \\ 6 \\ 6 \\ 41 \\ 11 \\ 27 \\ 6 \\ 6 \\ 41 \\ 11 \\ 27 \\ 6 \\ 6 \\ 41 \\ 11 \\ 27 \\ 36 \\ 41 \\ 11 \\ 27 \\ 1,707 \\ \dots \\ 87 \\ 47 \\ 57 \\ 2 \\ 1,707 \\ \dots \\ 21 \\ 3 \\ 4 \end{array}$	35 4 34 91 8 35 7 15 14 4 4 12 385 58 385 58 385 58 385 58 385 11 12 385 58 385 58 385 58 338 1 1 13 3 280 20 3 4 54 2 13 30 53 6 21 72 15 31 30 1 1,705 288 40 1 1,705 288 40 1,705 1,705 288 40 1,705 1,70	$\begin{array}{c} 16\\ 8\\ 8\\ 51\\ 112\\ 10\\ 24\\ 7\\ 7\\ 7\\ 7\\ 7\\ 7\\ 8\\ 22\\ 373\\ 108\\ 404\\ 1\\ 1\\ 28\\ 404\\ 1\\ 1\\ 288\\ 286\\ 21\\ 3\\ 9\\ 20\\ 2\\ 21\\ 11\\ 288\\ 1\\ 12\\ 286\\ 5\\ 12\\ 21\\ 38\\ 12\\ 25\\ 74\\ 2,166\\ 50\\ 32\\ \end{array}$	$\begin{array}{c} 28\\ 12\\ 67\\ 147\\ 24\\ 31\\ 3\\ 24\\ 7\\ 12\\ 9\\ 4\\ 21\\ 429\\ 107\\ 408\\ 4\\ 21\\ 429\\ 107\\ 408\\ 4\\ 3\\ 297\\ 297\\ 297\\ 297\\ 29\\ 1\\ 4\\ 45\\\\ 26\\ 16\\ 1\\ 73\\ 3\\ 28\\ 64\\ 9\\ 46\\ 29\\ 103\\ 2,098\\ 22\\ 64\\ 12 \end{array}$	$\begin{array}{c} 46\\ 20\\ 39\\ 218\\ 28\\ 52\\ 25\\ 29\\ 28\\ 61\\ 2\\ 28\\ 61\\ 2\\ 10\\ 401\\ 139\\ 540\\ 3\\ 2\\ 13\\ 4\\ 4276\\ 27\\ 4\\ 2\\ 38\\ 4\\ 20\\ 18\\ 8\\ 4\\ 20\\ 18\\ 16\\ 74\\ 17\\ 33\\ 99\\ 16\\ 47\\ 23\\ 306\\ 8\\ 55\\ 21\\ 5\\ 55\\ 25\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5$	$\begin{array}{c} 34\\ 17\\ 49\\ 182\\ 30\\ 58\\ 15\\ 15\\ 25\\ 38\\ 71\\ 5\\ 10\\ 418\\ 129\\ 332\\ 5\\ 72\\ 336\\ 17\\ 22\\ 336\\ 17\\ 22\\ 336\\ 17\\ 22\\ 336\\ 17\\ 22\\ 336\\ 17\\ 22\\ 336\\ 17\\ 22\\ 336\\ 17\\ 22\\ 336\\ 17\\ 22\\ 5\\ 33\\ 1\\ 16\\ 5\\ 12\\ 29\\ 66\\ 32\\ 4\\ 108\\ 14\\ 108\\ 14\\ 108\\ 14\\ 108\\ 14\\ 108\\ 14\\ 108\\ 14\\ 20\\ 12\\ 2,085\\ 6\\ 51\\ 16\\ 2\\ 2\end{array}$	$\begin{array}{c} 84\\ 13\\ 34\\ 112\\ 17\\ 44\\ 19\\ 22\\ 14\\ 22\\ 14\\ 22\\ 14\\ 22\\ 14\\ 22\\ 14\\ 22\\ 19\\ 22\\ 21\\ 125\\ 213\\ 1\\ 5\\ 23\\ 204\\ 13\\ 1\\ 5\\ 9\\ 23\\ 204\\ 13\\ 1\\ 5\\ 9\\ 23\\ 204\\ 13\\ 1\\ 5\\ 19\\ 23\\ 204\\ 13\\ 1\\ 5\\ 19\\ 23\\ 204\\ 13\\ 1\\ 5\\ 19\\ 23\\ 204\\ 13\\ 1\\ 5\\ 19\\ 23\\ 204\\ 13\\ 1\\ 5\\ 10\\ 1\\ 7\\ 32\\ 10\\ 1\\ 7\\ 34\\ 7\\ 34\\ 7\\ 1\\ 7\\ 34\\ 7\\ 1\\ 1\\ 7\\ 34\\ 7\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	$19 \\ 4 \\ 89 \\ 99 \\ 10 \\ 44 \\ 5 \\ 5 \\ 225 \\ 226 \\ 22 \\ 14 \\ 142 \\ 87 \\ 150 \\ 5 \\ 1 \\ 12 \\ 182 \\ 14 \\ 2 \\ 3 \\ 11 \\ 5 \\ 222 \\ 3 \\ 2 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 $
Whitby Lock-upe: Gore Bay Little Current Manitowaning Mattawa Minden	736	3 13 13	4 2 5 5	3 2 11 5	$1 \\ 14 \\ 18 \\ 8 \\ 1$	$^{4}_{19}_{33}_{7}_{2}$	$1 \\ 32 \\ 33 \\ 3 \\ 3$	2 19 22 9 1
Sudbury Huntsville Fort William Burk's Falls	17	$\begin{array}{c}2\\1\\36\end{array}$	8 64	$\begin{array}{c} 27\\2\\59\end{array}$	45 1 43 3	55 3 47 1	77 50	5 2 51
North Bay					28	35	16	14
Massey Webhwood			• • • • • • • • •					
Sturgeon Falls Fort Francis								
POIC P F&HUIS								
Total	3,693	3,555	4,130	4,451	4,777	4,573	3,614	2,736

1885,	1885,	1887,	1888,	1889,	1890,	1891,	1892,	1893,	1894,	1895,	1896,	1897,	1898,	1899,
are co	mpareo	l and	the inc	rease o	or decr	ease in	each 1	place ai	re shev	vn.		, i	,	

munitments for drunken- ness during the year end- ing 30th September, 1893.	ommitments for drunken- ness during the year end- ing 30th September, 1894.	Jumitments for drunken- ness during the year end- ing 30th September, 1895.	ommitments for drunken- ness during the year end- ing 30th September, 1896.	ommitmen's for drunken- ness during the year end- ing 30th September, 1897.	mmitments for drunken- ness during the year end- ing 30th September, 1898.	ommitments for drunken- ness during the year end- ing 30th September, 1899.	mmitments for drunken- ness during the year end- ing 30th September, 1900,	ommitments for druoken- ness during the year end- ing 30th September, 1901.	mmitments for drunken- ness during the year end- ing 30th September, 1902.	Increase or decrease during the year end- ing 30th September, 1902.	
Commitments for drunken- ness during the year end ing 30th September, 1893.	Commitments for drunken- ness during the year end ing 30th September, 1894.	Cummitments for drunken ness during the year end ing 30th September, 1895.	Commitments for drunken ness during the year end ing 30th September, 1896	Commitmen's for drunken ness during the year end ing 30th September, 1897.	Commitments for drunken- ness during the year end- ing 30th September, 1898.	Commitments for drunken ness during the year end ing 30th September, 1899	Commitments for drunken ness during the year end ing 30th September, 1900	Commitments for druoken ness during the year end ing 30th September, 1901	Commitments for drunken ness during the year end ing 30th September, 1902	Increase.	Decrease.
$ \begin{array}{c} 10 \\ 6 \\ 24 \\ 120 \\ 9 \\ 77 \\ 5 \\ \\ 27 \\ 11 \\ 28 \\ 3 \\ 9 \\ 148 \\ 102 \\ 218 \\ 2 \\ 2 \\ 4 \\ 9 \\ 9 \\ 148 \\ 9 \\ 102 \\ 2 \\ 4 \\ 9 \\ 9 \\ 148 \\ 102 \\ 2 \\ 2 \\ 4 \\ 9 \\ 9 \\ 148 \\ 102 \\ 2 \\ 2 \\ 4 \\ 9 \\ 9 \\ 148 \\ 102 \\ 2 \\ 2 \\ 4 \\ 9 \\ 9 \\ 148 \\ 102 \\ 2 \\ 2 \\ 4 \\ 9 \\ 9 \\ 148 \\ 102 \\ 2 \\ 2 \\ 4 \\ 9 \\ 102 \\ 2 \\ 2 \\ 4 \\ 9 \\ 102 \\ 2 \\ 2 \\ 4 \\ 9 \\ 102 \\ 2 \\ 2 \\ 4 \\ 9 \\ 102 \\ 2 \\ 2 \\ 2 \\ 4 \\ 9 \\ 102 \\ 2 \\ 2 \\ 2 \\ 4 \\ 9 \\ 102 \\ 2 \\ 2 \\ 2 \\ 4 \\ 9 \\ 102 \\ 2 \\ 2 \\ 2 \\ 4 \\ 9 \\ 102 \\ 2 \\ 2 \\ 4 \\ 9 \\ 102 \\ 2 \\ 2 \\ 2 \\ 4 \\ 9 \\ 102 \\ 2 \\ 2 \\ 4 \\ 9 \\ 102 \\ 2 \\ 2 \\ 4 \\ 9 \\ 102 \\ 2 \\ 2 \\ 2 \\ 4 \\ 9 \\ 102 \\ 2 \\ 2 \\ 2 \\ 4 \\ 9 \\ 102 \\ 2 \\ 2 \\ 4 \\ 9 \\ 102 \\ 2 \\ 2 \\ 2 \\ 4 \\ 9 \\ 102 \\ 2 \\ 2 \\ 102 \\ 2 \\ 2 \\ 102 \\ 2 \\ 2 \\ 102 \\ 2 \\ 102 \\ 2 \\ 2 \\ 102 \\ 2 \\ 2 \\ 102 \\ 2 \\ 102 \\ 2 \\ 102 \\ 2 \\ 102 \\ 2 \\ 102 \\ 2 \\ 102 \\ 2 \\ 102 \\ 2 \\ 102 \\ 2 \\ 102 \\ 2 \\ 102 \\ 2 \\ 102 \\ 2 \\ 102 \\ 2 \\ 102 \\ 2 \\ 102 \\ 2 \\ 102 \\ 2 \\ 102 \\ 2 \\ 102 \\ 2 \\ 102 \\ 102 \\ 2 \\ 102 \\ $	$\begin{array}{c} 21\\ 7\\ 25\\ 125\\ 9\\ 86\\ 5\\ 10\\ 19\\ 22\\ 3\\ 55\\ 72\\ 219\\ 5\\ 72\\ 219\\ 5\\ 1\end{array}$	$\begin{array}{c} 9\\ 7\\ 19\\ 124\\ 11\\ 70\\ 4\\ 6\\ 24\\ 18\\ 17\\\\ 17\\ 36\\ 89\\ 187\\ 2\\ 3\\ 3\end{array}$	24 10 16 43 4 9 16 9 7 60 49 177 5 2	$\begin{array}{c} 21\\ 12\\ 12\\ 115\\ 2\\ 48\\ , 3\\ 9\\ 11\\ 12\\ 13\\ 2\\ 9\\ 56\\ 51\\ 139\\ 4\\ 2\end{array}$	$\begin{array}{c} 11\\ 10\\ 13\\ 85\\ 3\\ 49\\ 2\\ 10\\ 28\\ 15\\ 13\\ 1\\ 9\\ 60\\ 50\\ 163\\ 5\\ \end{array}$	$\begin{array}{c} 10\\ 7\\ 16\\ 64\\ 4\\ 45\\ 3\\ 13\\ 21\\ 20\\ 15\\ 2\\ 3\\ 66\\ 48\\ 172\\ 6\\ 2\\ 2\\ 2\\ 2\\ 2\end{array}$	$\begin{array}{c} 16\\ 4\\ 4\\ 12\\ 88\\ 4\\ 41\\ 10\\ 19\\ 10\\ 10\\ 18\\ 5\\ 13\\ 96\\ 31\\ 137\\ 7\\ 2\end{array}$	$12 \\ 4 \\ 111 \\ 74 \\ 4 \\ 58 \\ 5 \\ 199 \\ 12 \\ 16 \\ 18 \\ 5 \\ 4 \\ 108 \\ 47 \\ 137 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 108 \\ 8 \\ 108 \\ 8 \\ 108 \\ 8 \\ 108 \\ 1$	$\begin{array}{c} 21\\ 11\\ 11\\ 20\\ 82\\ 5\\ 66\\ 5\\ 12\\ 15\\ 14\\ 11\\ 1\\ 1\\ 13\\ 97\\ 40\\ 250\\ 8\\ 3\\ 3\end{array}$	113	7 7 2 7 4 11 7
105 l 11 l		3 8 157 6	2 8 6 152 8		$\begin{array}{c} 4\\ 13\\ 137\\ 11\\ 1\\ 7\\ 23\end{array}$		7 2 4 7 224 8 3 7	$ \begin{array}{c} 4 \\ 4 \\ 293 \\ 12 \\ 12 \\ 12 \\ 19 \\ 19 \end{array} $		3	66
$\begin{array}{c} & & & \\$	21 4 15 65 11 17 69 15 29 19 5 960 8 21 11 1 1 2	$11 \\ 7 \\ 13 \\ 3 \\ 7 \\ 31 \\ 17 \\ 26 \\ 116 \\ 7 \\ 39 \\ 22 \\ 2 \\ 918 \\ 21 \\ 29 \\ 19 \\ 29 \\ 19 \\ 2$	$egin{array}{c} 3\\ 2\\ 3\\ 10\\ 5\\ 2\\ 76\\ 6\\ 23\\ 57\\ 10\\ 16\\ 13\\ 12\\ 790\\ 5\\ 37\\ 17\\ 17\\ \end{array}$	$egin{array}{c} 31 \\ 5 \\ 11 \\ 12 \\ 3 \\ 96 \\ 6 \\ 5 \\ 23 \\ 12 \\ 9 \\ 569 \\ 3 \\ 35 \\ 16 \\ 1 \end{array}$	$23 \\ 5 \\ 11 \\ 4 \\ 3 \\ 111 \\ 16 \\ 17 \\ 49 \\ 5 \\ 20 \\ 9 \\ 8 \\ 592 \\ 1 \\ 322 \\ 14 \\ 4$	$\begin{array}{c} 30 \\ 10 \\ 2 \\ 5 \\ 110 \\ 10 \\ 10 \\ 10 \\ 11 \\ 16 \\ 17 \\ 796 \\ 4 \\ 31 \\ 19 \\ 5 \\ 5 \\ \end{array}$	$\begin{vmatrix} 35\\1\\6\\9\\8\\23\\11\\15\\48\\9\\27\\23\\7\\1,031\\4\\21\\20\\2\\2\end{vmatrix}$	$\begin{array}{c} 4\\ 13\\ 8\\ 4\\ 34\\ 6\\ 33\\ 45\\ 12\\ 18\\ 9\\ 21\\ 1,022\\ \\ 39\\ 21\\ 39\\ 21\\ 39\\ 39\\ 39\\ 39\\ 39\\ 39\\ 39\\ 39\\ 39\\ 39$	$\begin{array}{c c} 21\\ 1\\ 9\\ 7\\ 5\\ 36\\ 12\\ 21\\ 700\\ 8\\ 31\\ 6\\ 16\\ 1,107\\ 1\\ 36\\ 23\\ 5\\ 1\\ 5\\ 1\\ 5\\ 1\\ 5\\ 1\\ 5\\ 1\\ 5\\ 1\\ 5\\ 1\\ 5\\ 1\\ 5\\ 1\\ 5\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	$ \begin{array}{c} 1\\2\\6\\25\\13\\\\85\\1\\\\2\end{array} $	
$ \begin{array}{c} 1 \\ 9 \\ 16 \\ 22 \\ 1 \\ 119 \\ 5 \\ 30 \\ 15 \\ \dots \\ 15 \\ \dots \\ \dots \\ \dots \\ \dots \\ \dots \\ \dots \\ \dots \\ \dots \\ \dots \\ \dots$	$2 \\ 12 \\ 5 \\ 40 \\ 4 \\ 38 \\ 30 \\ 7 \\ 3 \\ \dots \\ 7 \\ 3 \\ \dots \\ \dots \\ \dots \\ \dots \\ \dots \\ \dots \\ \dots \\ \dots \\ \dots$	$ \begin{array}{c} 3\9\\16\\32\\1\\42\\4\\10\\2\\10\\\dots\\10\\\dots\\10\\\dots\\10\\\dots\\10\\\dots\\10\\\dots\\10\\\dots$	$\begin{array}{c} 2 \\ 4 \\ - 25 \\ 4 \\ 24 \\ 1 \\ 5 \\ 3 \\ 9 \\ \end{array}$	$ \begin{array}{c} 6 \\ 3 \\ $	$5 \\ 4 \\ 34 \\ 320 \\ 1 \\ 4 \\ 6 \\ \\ 6 \\ $	$ \begin{array}{c} 4 \\ 5 \\ $	13 7 10 197 10 49 10 49 10 5 12 12	$ \begin{array}{c} 10\\ 3\\ 222\\ 11\\ 15\\ 4\\ 12\\ 7\\ 17\\ 2 \end{array} $		2 2 10 3 1 2	7 50 5 3 7 6
2.652	2,274	2,237	1,907	1,716	1,707	1,892	2,377	·	2,67	4 370	218

The disposition made of the persons committed to the gaols of the Province is set forth in the table printed below :

Acquitted on being brought to trial and discharged Discharged without trial by order of judges, magistrates and courts, in-	1,719
cluding remand cases	565
Detained for want of securities to keep the peace	22
Detained as witnesses	6
Detained as fraudulent debtors	11
Detained as lunatics, idiots and persons unsafe to be at large	367
Died before trial	5
Detained by civil processes, other than above	18
Waiting trial and otherwise detained on 30th September, 1902	78
Found guilty and sentenced	5,193
Discharged under suspended sentence	297
Total number of commitments	8,280

The places of confinement to which the convicted persons were sentenced are set forth in the following statement, and similar information is givn as regards the sentenced prisoners of the previous year:

		1901.	1902.
Sentenc	ed to Kingston Penitentiary	128	112
do	to the Reformatory for Boys	70	52
do	direct to Central Prison	540	425
do	to the Common Gaols and subsequently transferred to		
	the Central Prison	127	266
do	direct to Reformatory for Females	94	82
do	to Common Gaols and subsequently transferred to		
	the Reformatory for Females	50	40
do	to the Common Gaols and there detained until the		
	expiration of sentence	4,285	4,191
Died wh	ile undergoing sentence	41	24
Т	otal	5,335	5,192

The summaries given below show the nature of the offence committed by the convicted persons :

1. Crimes against the Person.

1	otal commitments for the year.	Number found guilty and sentenced.
Assault, common	. 286	168
Assault, felonious	. 145	78
Cutting and wounding, stabbing and shootin	ng	
with intent	. 47	23
Rape, and assault with intent	., 47	15
Murder		2
Manslaughter	8	2
Attempted suicide	11	3
Miscellaneous	4	
Total	. 565	291

2. Crimes against Property.

	Total commitments for the year.	Number found guilty and sentenced.
Arson and incendiarism	. 19	14
Burglary	. 49	24
Counterfeiting and passing counterfeit mone	y 4	-1
Destroying and injuring property	. 75	59
Embezzlement	. 2	
Forgery	. 26	11
Fraud and obtaining money and goods unde	Г	
false pretences	. 113	57
Horse, cattle and sheep stealing	. 64	30
Housebreaking and robbery	. 111	66
Larceny	. 1,382	817
Receiving stolen goods	. 27	10
Trespass	. 332	297
Miscellaneous	• • • • •	
Total	. 2,201	1,389

3. Crimes against Public Morals and Decency.

Bigamy	17	7
Inmates and frequenters of houses of ill-fame	175	90
Keeping houses of ill-fame	96	62
Perjury	18	5
Seduction	17	6
Indecent assault and exposure	81	47
Miscellaneous	11	11
Total	415	228

4. Offences against Public Order and Peace.

Abusive and obscene language Breaches of peace, breaches of by-laws,	43	33
escapes from and obstructing constables.	100	66
Carrying unlawful weapons	29	17
Deserting employment, etc,	56	56
Drunk and disorderly Selling liquor without a license and selling	2,674	1,897
or giving it to Indians	30	26
Threatening and seditious language	18	10
Vagrancy	1,347	967
Miscellaneous	3°8	137
Total	4,631	3,209
Contempt of court, lunatics, etc	468	75
Total	8,280	5,192

The following tables show the period of sentence passed on the convicted prisoners and the sex, social conditions, habits, etc., of the total number of prisoners committed.

Periods of Sentence.

	1901.	1902.
For periods under thirty days	1,564	1,534
For thirty days and up to sixty days, or two months, not		
including the last term	1,751	1,805
For sixty days, or two months	446	463
Over two months to three months	362	308
Over three months to four months	175	134
Over four months to five months	$\frac{87}{517}$	$\frac{76}{474}$
Over five months to six months	- 60 - 60	
Over six months to nine months	92	69
Over nine months up to one year, inclusive Over one year and up to two years	86	95 95
Over two years and up to three years in the Penitentiary	55	61
Over three years in the Penitentiary	69	56
For periods of any length in the Reformatory for Boys.	68	52
Sentenced to death and executed	* *	2
Sentenced to death and committed to imprisonment		
Sentenced to imprisonment with corporal punishment.	3	4
1 1 1		
	5,335	5,192
Ser.		
Male	7,314	7,066
Female	1,232	1,214
i (indio)		
	8,546	8,280
Social Condition.		
Married	3,225	3,066
Unmarried	5,220 5,321	5,000
Unmarried		
	8,546	8,280
Habits.		
	0.055	0 000
Temperate	2,875	2.656
Intemperate	5,671	5,624
	8,546	8,280
Educational Status.		
Could read and write	7,158	6.933
Could neither read nor write	1,388	1,297
Could Betther Itau not write		
	8,546	8,280

The number of prisoners confined in the various custodial institutions of the Province at the close of the past official year, and of the year preceding, is exhibited in the following summary :

	1901.	1902
In the Common Gaols	600	521
In the Central Prison, Toronto	340	303
In the Reformatory for Boys, Penetangnishene	141	111
In the Reformatory for Females and Refuge for Girls,		
Toronto	135	141
In the Dominion Penitentiary, Kingston	509	456
	1,725	1,541

GAOL EXPENDITURES.

The usual table is appended, showing the cost of maintaining the Common Gaols during the past twenty-five years, under the headings of rations, clothing, fuel, salaries and wages and repairs :

Year.	Total number of prisoners in custody each year.	Cost of rations, clothing, fuel, etc., each year.	Cost of salaries and wages of gaol officials each year.	Cost of repairs.	Tota' gaol expenditure.
		\$ c.	8 с.	8 c.	\$ с.
1878		$\begin{array}{c} 60,217 \ 83 \\ 58,856 \ 24 \\ 49,037 \ 14 \\ 45,001 \ 05 \\ 44,768 \ 92 \\ 44,768 \ 92 \\ 44,783 \ 50 \\ 61,909 \ 89 \\ 54,321 \ 35 \\ 53,300 \ 43 \\ 48,650 \ 27 \\ 53,961 \ 25 \\ 55,002 \ 89 \\ 51,446 \ 99 \\ 58,110 \ 73 \\ 51,505 \ 57 \\ 49,762 \ 40 \\ 45,115 \ 58 \\ 50,591 \ 40 \\ 49,107 \ 73 \\ 51,066 \ 50,412 \ 91 \\ 50,362 \ 88 \\ 50 \ 353 \ 75 \\ 48,977 \ 86 \\ 49,125 \ 35 \end{array}$	$\begin{array}{c} 63,591 \ 11\\ 63,914 \ 40\\ 64,084 \ 34\\ 63,502 \ 00\\ 63,794 \ 30\\ 64,935 \ 96\\ 63,794 \ 30\\ 64,935 \ 96\\ 63,446 \ 88\\ 70,344 \ 96\\ 71,690 \ 76\\ 71,291 \ 58\\ 73,633 \ 11\\ 77,677 \ 84\\ 79,394 \ 49\\ 79,741 \ 59\\ 75,564 \ 83\\ 79,639 \ 81\\ 79,790 \ 80\\ 79,677 \ 17\\ 79,940 \ 04\\ 80,863 \ 60\\ 80,915 \ 05\\ 82,047 \ 97\\ 82,144 \ 05\\ 8^{+},305 \ 15\\ 8^{+},305 \ 15\\ 8^{+},305 \ 04\\ \end{array}$	$\begin{array}{c} 7,307 & 06\\ 5,583 & 44\\ 3,504 & 96\\ 3,410 & 12\\ 4,665 & 53\\ 4,706 & 20\\ 7,125 & 50\\ 5,081 & 55\\ 8,753 & 07\\ 6,146 & 71\\ 6,509 & 13\\ 3,313 & 20\\ 9,171 & 01\\ 12,183 & 01\\ 4,635 & 65\\ 8,083 & 50\\ 6,728 & 01\\ 6,778 & 50\\ 10,248 & 93\\ 5,982 & 56\\ 4,206 & 66\\ 4,944 & 21\\ 6,065 & 44\\ 6,515 & 40\\ \end{array}$	$\begin{array}{c} 131,116 \ \ 60\\ 122,355 \ \ 08\\ 116 \ \ 626 \ \ 44\\ 111,915 \ \ 15\\ 113,228 \ \ 75\\ 114,425 \ \ 66\\ 127,482 \ \ 27\\ 129,747 \ \ 86\\ 133,744 \ \ 26\\ 133,744 \ \ 26\\ 133,744 \ \ 26\\ 133,744 \ \ 26\\ 133,744 \ \ 26\\ 134,143 \ \ 49\\ 155,083 \ \ 93\\ 140,012 \ \ 49\\ 150,035 \ \ 34\\ 135,706 \ \ 05\\ 137,485 \ \ 71\\ 131,634 \ \ 42\\ 136,573 \ \ 15\\ 135,826 \ \ 27\\ 142,179 \ \ 09\\ 137,310 \ \ 52\\ 136 \ \ 617 \ \ 51\\ 137,442 \ \ 01\\ 137,348 \ \ 45\\ 140,090 \ \ 79\\ \end{array}$

A summary is given below showing the days' stay respectively of those prisoners whose maintenance was chargeable to the Province, and of those who were a charge on the municipalities:

2,583 Criminal prisoners 5,697 Municipal		•••••••••••••	
8 280 Prisoners in all	 		207,391

STATISTICAL TABLES.

Following this portion of the report will be found the tables named in the list given hereunder.

Table No. 2, showing the total number of prisoners in the several gaols on the 30th September, 1902, and the nature of their imprisonment.

- Table No. 3, showing the number of prisoners over and under 16 years of age, the number of recommittals, the number of persons acquitted on being brought to trial, and the number of persons committed under civil processes.
- Table No. 4, showing the offences for which prisoners were sentenced.
- Table No. 5, showing the number of prisoners, male and female, sentenced under each offence during the year.
- Table No. 6, showing the social status and habits of the prisoners committed during the year.
- Table No. 7, showing the number of prisoners upon whom sentence was passed, the nature of the sentences, and the operation of the County Judge's Criminal Courts.
- Table No. 8, showing how the prisoners committed during the year were maintained, the cost thereof, and the salaries of officials.
- Table No. 9, showing the number of escapes and deaths, the revenue de rived from prison labor, the cost of diet, accommodation of the gaols and the highest and lowest number of prisoners in custody in each gaol during the year,
- Table No. 10, showing the daily cost per prisoner in each of the gaols of the Province for the year ending 30th September, 1902.
- Table No. 11, showing the number of prisoners, male and female, sentenced during the year ending 30th September, 1902, and a comparison of the same with the previous year.

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TABLE No. 2.

Shewing the total number of prisoners who were in the several gaols of the Province on the evening of the 30th September, 1902, and the nature of their imprisonment.

· · · · · · · · · · · · · · · · · · ·					_						
		Classifi	cation.			Nature	e of imp				per- ined 30th 02.
Name of gaol.	Men.	Women.	Boys under 16 years.	Girls under 16 years.	Waiting trial.	Under sentence for periods of 2 months and under.	Under sentence for periods over 2 months.	In default of ` securities to keep the peace.	Insane, idiotic or imbecile persons.	Otherwise detained.	Total number of per- sons who remained in custody 30th September, 1902.
Barrio	6	2			{	2	5				
Barrie Berlin Belleville Srantford Branpton Brockville Bracebridge	6 7 3 2 6	3	1			2 2 3 3		· · · · · · · · · · · · · · · · · · ·	1		8 6 8 6 2 6
Cayuga	$\frac{4}{2}$						3	•••••		1	4
Cornwall Cobourg Chetham	36	$\begin{vmatrix} 1\\8\\\ldots \end{vmatrix}$		•••••	$\begin{vmatrix} 2\\ \cdots\\ 1 \end{vmatrix}$	2	$\begin{array}{c}1\\34\end{array}$	· · · · · · · · · · · · · · · · · · ·	8	* * * * *	$\begin{vmatrix} 3\\44\\1\end{vmatrix}$
Goderich	6						3		3		6
Guelph Hamilton	17	2			6	$\frac{1}{6}$	2		1	• • • • • • • • • • • • • • • • • • •	$\frac{7}{19}$
Kiugston	11	1			1		n				12
London	$23 \\ 3$	$\frac{2}{2}$	••••		11	$\begin{bmatrix} 12 \\ 1 \end{bmatrix}$	$\begin{bmatrix} 2\\ 2 \end{bmatrix}$		2		25 5
L'Orignal	11	2			1	1	2		9		13
Milton	$\frac{2}{2}$	1		• • • • • • • • • • •	1	$2 \\ 1$	1	• • • • • • • •	1		3
Ottawa	17	7			5	6	11		2		24
Owen Sound Orangeville	4	3	1		1		3		3	1	8
Perth	12	- 4				3	12		1		16
Picton Pembroke	3	····_2	1				6			• • • • • •	6
Peterboro'	11	2			3		8		2		13
Port Arthur Parry Sound	2		• • • • • •		1	1	$2 \\ 2$		••••		24
Rat Fortage	3					2	ĩ				3
Sincoe	2						2				2
Sarnia	15	1			2	8	2		4	* * * * *	16
Stratford	$\begin{array}{c} 6 \\ 12 \end{array}$				1 1	$2 \\ 2$! 	3		6 12
St. Thomas	4				1	1			2	• • • • • • •	4
Sault Ste. Marie Toronto	$ 13 \\ 97 $	1 57	1		$\frac{2}{22}$	6 96	5		$\frac{1}{28}$		14 155
Walkerton	6				1		2		3		6
Woodstock Welland	6	••••			1	$2 \\ 4$	3		1.1		6
Whitby:	8				2	3	4			* • • •	8
Lock-Ups: Gore Bay) 						1				
Little Current										* * *	
Manitowaning Mattawa	• • • • • •			 				••••			*****
Minden											
Sudbury Huntsville	4		2		2	2	$\begin{vmatrix} \cdots \\ 2 \end{vmatrix}$	••••		• • • •	4
Fort William	S	1		• •	1	3	6				9
Burk's Falls North Bay	3	1			1	3			1		3
Massey											
Webwood Sturgeon Falls	5	• • • • •			5						5
Fort Francis	1					1					1
Totals	418	104	7		80	183	184		80	2	529

2 G.

TABLE

Shewing the number of persons committed, the number over and under sixteen years number of unsound mind, number acquitted on trial, number and number committed

Name of gaol.	comm t	al num iitted d he year	uring	yea	er und rs of a emale.	ge.	yea	her over rs of a	ge.	r the first time.	For the second time	For the third time,
	Male.	Fet	Total.	Male.	Fei	Total.	Male.	Fer	Total	For t	Foi	For
Barrie Berlin Berlin Belleville Brantford Brantford Bracebridge Cayuga, Cayuga, Conwall Cohourg Chatham Goderich Gueloh Hamilton Lindsay L'Orignal U'Orignal U'Orignal Cotawa Oven Sound Orangeville Perth Picton Perth Picton Perth Picton Perth Picton Perth Picton Perth Picton Sarnia Stratford Sandwich St. Thomas Sault Ste. Marie Toronto Walkerton Welland Whitby Lock-Ups :	$\begin{array}{c} 87\\ 96\\ 96\\ 125\\ 195\\ 55\\ 195\\ 28\\ 42\\ 121\\ 104\\ 33\\ 73\\ 411\\ 79\\ 487\\ 499\\ 209\\ 436\\ 83\\ 32\\ 93\\ 36\\ 422\\ 105\\ 83\\ 32\\ 93\\ 36\\ 422\\ 105\\ 105\\ 105\\ 105\\ 105\\ 105\\ 105\\ 105$	$ \begin{array}{r} 10 \\ 2 \\ 18 \\ 645 \\ 10 \\ 7 \\ 3 \\ 1 \end{array} $	$\begin{array}{c} 98\\ 102\\ 141\\ 208\\ 54\\ 158\\ 35\\ 94\\ 43\\ 132\\ 118\\ 835\\ 82\\ 43\\ 132\\ 109\\ 31\\ 574\\ 98\\ 35\\ 110\\ 32\\ 109\\ 31\\ 574\\ 98\\ 35\\ 110\\ 38\\ 46\\ 132\\ 72\\ 574\\ 73\\ 186\\ 2,516\\ 511\\ 135\\ 235\\ 53\\ 33\\ 33\\ 33\\ 53\\ 5$	$\begin{array}{c} 1\\ 5\\ 14\\ 14\\ 2\\ 8\\ 3\\ 14\\ 12\\ 2\\ 2\\ 2\\ 3\\ 14\\ 1\\ 1\\ 1\\ 2\\ 2\\ 3\\ 14\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 2\\ 3\\ 3\\ 12\\ 2\\ 7\\ 7\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\$	2 1 	$\begin{array}{c} 1\\ 1\\ 6\\ 15\\ 14\\ 2\\ 2\\ 3\\ 14\\\\ 2\\ 24\\ 3\\ 14\\\\ 1\\ 1\\ 2\\ 3\\ 3\\ 14\\\\ 1\\ 1\\ 1\\ 2\\ 3\\ 3\\ 1\\ 1\\ 1\\ 2\\ 3\\ 3\\ 1\\ 1\\ 1\\ 2\\ 3\\ 3\\ 1\\\\ 5\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\ 6\\$	$\begin{array}{c} 860\\ 911\\ 111\\ 1811\\ 181\\ 137\\ 28\\ 899\\ 411\\ 119\\ 102\\ 333\\ 722\\ 389\\ 766\\ 473\\ 499\\ 28\\ 426\\ 811\\ 299\\ 992\\ 28\\ 426\\ 811\\ 299\\ 992\\ 235\\ 359\\ 104\\ 28\\ 426\\ 811\\ 299\\ 992\\ 257\\ 115\\ 399\\ 101\\ 700\\ 511\\ 733\\ 400\\ 600\\ 172\\ 57\\ 115\\ 399\\ 121\\ 232\\ 47\\ 47\\ 47\\ 47\\ 47\\ 47\\ 47\\ 47\\ 47\\ 47$	$\begin{array}{c} 11\\ 11\\ 5\\ 15\\ 13\\ 1\\ 1\\ 13\\ 6\\ 5\\ 1\\ 11\\ 13\\ 2\\ 8\\ 6\\ 6\\ 7\\ 59\\ 2\\ 3\\ 4\\ 4\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	$\begin{array}{c} 97\\ 96\\ 126\\ 194\\ 522\\ 130\\ 150\\ 344\\ 42\\ 130\\ 115\\ 35\\ 80\\ 455\\ 35\\ 532\\ 532\\ 532\\ 532\\ 532\\ 532\\ 53$	$\begin{array}{c} 88\\ 69\\ 134\\ 109\\ 38\\ 74\\ 35\\ 26\\ 36\\ 111\\ 22\\ 56\\ 206\\ 278\\ 50\\ 278\\ 50\\ 278\\ 50\\ 278\\ 50\\ 278\\ 50\\ 278\\ 50\\ 278\\ 50\\ 278\\ 50\\ 278\\ 50\\ 278\\ 50\\ 278\\ 50\\ 258\\ 50\\ 19\\ 455\\ 168\\ 255\\ 168\\ 255\\ 168\\ 255\\ 168\\ 255\\ 168\\ 255\\ 255\\ 168\\ 255\\ 255\\ 255\\ 255\\ 255\\ 255\\ 255\\ 25$	$\begin{array}{c} 10\\ 15\\ 6\\ 29\\ 11\\ 36\\ 7\\ 10\\ 51\\ 6\\ 83\\ 1\\ 1\\ 10\\ 51\\ 51\\ 1\\ 10\\ 51\\ 51\\ 1\\ 10\\ 51\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 12\\ 10\\ 10\\ 12\\ 12\\ 12\\ 12\\ 12\\ 14\\ 502\\ 14\\ 4\\ 4\\ 22\\ 59\\ 9\\ 9\end{array}$	$\begin{array}{c} & & & & & & & & & & & & & & & & & & &$
Gore Bay Little Current Manitowaning Mattawa Minden Sudbury Huntsville Fort William Burk's Falls North Bay Massey Webbwood Sturgeon Falls	$ \begin{array}{c} 13\\32\\12\\9\\295\\19\\64\\17\\50\\19\\60\\8\end{array} $	16 6 2 1	13 32 12 3 9 311 19 70 19 51 19 51 66 8	2		2	13 32 12 3 9 295 17 64 17 50 19 60 8		$ \begin{array}{r} 13 \\ 32 \\ 12 \\ 3 \\ 9 \\ 311 \\ 17 \\ 70 \\ 19 \\ 51 \\ 19 \\ 66 \\ 8 \\ 8 \end{array} $	$\begin{array}{c} 12\\ 29\\ 12\\ 3\\ 9\\ 311\\ 19\\ 64\\ 17\\ 49\\ 19\\ 61\\ 8\end{array}$		1
Fort Francis Totals	52 7,066	$\frac{1}{1,214}$	53 8,280	1 216	15	1 231	51 6,850	1 1,199	52 8,049	50 5,336	1,153	1 539

No. 3.

of age, the number of recommittals, the number for want of securities to keep the peace, discharged without trial, number waiting trial, number sentenced under civil process.

For more than the bhird time.	For want of sureties to keep the peace.	Witnesses.	Lunatics and idiots.	Fraudulent debtors.	Under cîvil process.	Acquitted on trial and discharged.	Discharged without trial.	Discharged under suspended sen- tence.	Died before trial.	Waiting trial.	Sentenced for any period.	Name of gaol.
$\begin{array}{c} & & & & \\ & & & & \\ & & & & \\ & & & & $		2	7 3 5 2 5 11 13 14 66 66 100 6 3 3 4			29 4 39 15 1 3 4 38 13 8 5 55 7 14 4 4 4 	1 3 2 2 2 3 134 5 4 5 4 5 4 5 4 5 4 7 6 3 3 1 1 4 2 5 2 9 9 2 4 4 1 2 5 3 1 3 1 1 4 2 5 3 1 3 1 1 4 4 5 - - - - - - - - - - - - - - - - -	1 20 4 3 1 6 6 6 4 8 8 5 1 4 5 4 7 7 3 3 1 1 4 5 8 7 7 3 3 1 1 4 5 8 8 7 7 7 8 1 8 8 8 5 1 4 4 5 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1	1 2 1 7 3 3 11 3 3 1 1 3 3 3 3 3 3 3 3 3 3	$\begin{array}{c} 70\\ 52\\ 86\\ 1100\\ 30\\ 102\\ 25\\ 80\\ 30\\ 102\\ 25\\ 80\\ 30\\ 111\\ 67\\ 13\\ 304\\ 67\\ 201\\ 25\\ 10\\ 29\\ 25\\ 329\\ 64\\ 4\\ 40\\ 50\\ 60\\ 207\\ 27\\ 201\\ 10\\ 29\\ 57\\ 10\\ 10\\ 10\\ 29\\ 72\\ 23\\ 113\\ 1,616\\ 30\\ 81\\ 211\\ 39\\ 72\\ 23\\ 113\\ 1,616\\ 30\\ 81\\ 211\\ 39\\ 72\\ 23\\ 113\\ 1,616\\ 30\\ 81\\ 211\\ 39\\ 72\\ 23\\ 113\\ 1,616\\ 30\\ 81\\ 211\\ 39\\ 121\\ 22\\ 32\\ 121\\ 22\\ 31\\ 13\\ 14\\ 39\\ 14\\ 30\\ 14\\ 30\\ 14\\ 30\\ 14\\ 30\\ 14\\ 14\\ 14\\ 14\\ 14\\ 14\\ 14\\ 14\\ 14\\ 14$	Brampton. Brockville. Bracebridge. Cayuga. Cornwall. Cobourg. Chatham. Goderich, Guelph. Hamilton. Kingston. London. Lindsay. L'Orignal. Milton. Napanee. Ottawa. Owen Sound. Orangeville. Perth. Picton. Perth. Picton. Perthoro'. Port Arthur. Parry Sound. Rat Portage. Sinc e. St. Catharines. Sarnia. Stratford. Sandwich. St. Thomas. Sault. Ste Marie. Toronto. Woldstock. Welland. Whitby. Lock-Ups : Gore Bay. Little Current. Manitowaning. Mattawa. Minden. Sudbury. Huntsville. Fort William. Burk's Falls. North Bay. Massey. Webbwood.
1,252	1 22		1 367	11	18	8			5	78	6 43 5,192	Fort Francis.

TABLE

Shewing the offences for which prisoners were sentenced

Name of Gaol.	Abortion.	Abusive and obscene language.	Arson.	Assault.	Assault, felonious.	Attempted suicide.	Abduction.	Bigamy.	Breaches of the peace.	Breaches of by-laws.
Barrie	! 		·····i	$\frac{2}{2}$	2		••••			*****
Belleville		2		$\overline{5}$	1					1
Brantford								· · · · · · · ·		
Brampton Brockville			1	1	$\frac{1}{2}$			1		•• ••
Bracebridge				3				• • • • • •		
Cayuga				2	1					
Cornwall				1		* * * * * *				• • • • • •
Cobourg Chatham		1 9	· · · · · · · 1	1		• • • • • •	• • • • • •		1	2
Goderich										
Guelph				2						
Hamilton				14	••••	• • • • • •		• • • • • •	· · · · ·	1
Kingston			•••••	3				• • • • •		• • • • •
Lindsay		ĩ								1
L'Orignal										
Milton				2					1	
Napanee) 					• • •	16	1
Ottawa Owen Sound		T I		1	4	• • • • • • •		* * * * * * *	1.0	1
Orangeville										
Perth		1			1					
Picton				1						
Pembroke			• • • • • • • •	1						
Port Arthur			.	^	4					
Parry Sound				2	1					
Rat Portage				6						
Simcoe				$\frac{1}{2}$					•••••	
St. Catharines						1		1		
Stratford		1		1	3					1
Sandwich		2		4	4					
St. Thomas.				2 5						
Sault Ste. Marie				29			1	9	8	11
Walkerton		2		5				ĺ		
Woodstock		3		2	1					
Welland				2		*****		1		
Whitby Lock-ups :	1	1	2	-						
Gore Bay	1			2				1		
Little Current										
Manitowaning										
Mattawa				· · · · · 1						
Minden				13				2		
Huntsville		I		1						
Fort William				8	r -					
Burk's Falls						• • • • • •				
North Bay										
Webbwood				3						
Sturgeon Falls				1						
Fort Francis		6	5		1					
Total		33	13	168	78	3	1	7	27	19
	1						1			

No. 4.

during the year ended 30th September, 1902.

Burglary.	Contempt of Court.	Carrying unlawful weapona.	Counterfeiting and pass- ing counterfeit money.	Cruelty to animals.	Cutting, wounding and attempting same.	Deserting employment.	Destroying and injuring property.	Drunk and disorderly.	Embezzlement.	Escaping from and ob- structing constable.	Escaping from prison.	Name of Gaol.
2 1	D 2 1 3 1 4 23 100 4 23 100 4 219 22 <							$\begin{array}{c} 16 \\ 4 \\ 17 \\ 46 \\ 30 \\ 50 \\ 50 \\ 50 \\ 9 \\ 14 \\ 14 \\ 88 \\ 83 \\ 83 \\ 55 \\ 22 \\ 77 \\ 123 \\ 77 \\ 123 \\ 77 \\ 17 \\ 17 \\ 12 \\ 2 \end{array}$				Kingston. London. Linds vy. L'Origoal. Milton. Napanee. Ottawa. Owen Sound. Orangeville. Perth. Picton. Pembroke.
1 2 24	1 75	1 1 1 1 17	4	6	2 10	3 11 5 56	2 1 59	$1 \\ 5 \\ 1 \\ 16 \\ 3 \\ 28 \\ 1,897$			6	Bnrk's Falls. North Bay. Massey. Webbwood. Sturgeon Falls. Fort Francis.

TABLE

Shewing the offences for which prisoners were sentenced

				18.	2				F 8				1	
				Giving liquer to Indians	cattle and sheap ing.				nmates and frequenters of house of ill-fame.					
		e de		pr	she	-		Indecent assault and exposure.	requente ill-fame.	of ill.				
		Fraud or obtaining money under false pretences.		H	Ţ	Honsebreaking and robbery.		3	fa	j.				
		rn		to	30	80		nlt	ll.	0			2	
Name of Gaol.		de		0 L	0	a	ġ	831		house		Manslanghter.	Misdemanour.	
Name of Graot.		00 08.		a l	tt]	a k	Incendiarism.	3.8	imates and for the state of the	po l		If	iii	
	5	raud or ob money un pretences.	Gambling.	Ĕ	orse, cat stealing.	onsebrea robbery.	lar	idecent as exposure.	3 8	fame.	s l	8	3et	5
	erj	tei tei	bli	5	ali ali	be	ipi	Cel Dog	101	in .	n	8	en	lei
	20	au Dre	H	vir	ors of e	alo	190	de.	ma f]	an	LC	â	Bd	arc
	Forgery.	E H	50	18	Horse, steali	Ho	n	ĕ "	[n]	fe	Larceny.	Ma	E	Murder
	<u> </u>			<u> </u>		_								
Barrie	1	1		1	3	3					18			
Berlin	1	1		1		1					10		!	
Belleville		3			1			3		1	24			
Brantford			• ••			2		2			-22	• • • •		
Brampton											10			• • • •
Brockville					1	0		یک ا		$\frac{1}{2}$	12			
Bracebridge		L				9			-	4	10			• • • •
Cornwall				' 		2	•••				6		••••	
Cobourg					(4				1		32			
Chatham		7			2	3		1	2	1	9			
Goderich		1			1						1			
Guelph	1					4				1	8			
Hamilton	1	3			2	11		3		3				
Kingston		1			2					1	13			
London		9			2		1	1		1	28			
Lindsay					1	····;					4			
L'Orignal					1	1					6			
Milton								1 1			1 4		<u>.</u>	
Napanee					1				1	90	20			
Ottawa	ئى]]		¹	1	i • • • •		10		89 6			
Orangeville		1 1				1 1		4	4	1	0			
Perth									1	* * * * *	7	1 * * * * *	* * * * *	* • • • •
Picton				1					-		3			
Pembroke						1	 	2			11			
Peterboro'					1			2		1	8			
Port Arthur						1 2				1	8			
Parry Sound		1				[1			7			
Rat Portage		1		1						2	10			
Simcoe											4			
St. Catharines					1			2			$\begin{vmatrix} 10 \\ 8 \end{vmatrix}$		• • • •	
Sarnia					····	2				••••				
Stratford				i	¦			1			1 11			
St. Thomas			1		9	1 1			1		1 7			
Sault Ste. Marie		2 2		1	-	1 1			19	2	21			1
Toronto		9	1		l	14		16	35	21	275	2		i
Walkerton		-		2		1	1	1			2			
Woodstock		. 1			1						7			
Welland	1	1			1	2		1			16			
Whitby		1		1	1	1					8			
Lock-ups :			1	1			1	!						
Gore Bay				1 1							1 1			
Little Current		4												
Manitowaning Mattawa									1		1			
Mattawa Minden			1								1 1] • • • •		
			· · · · ·					1 1	15	2	19			
Sudbury Huntsville				1	1									1
Fort William				2	2	3		1						
Burk's Falls.						1								
North Bay		.] 1			. 1		1	1			18			ł
Massey														
Webbwood Sturgeon Falls	2	2 3			1									
Sturgeon Falls					[1				1.1.1.4			
Fort Francis				. 1	l					· · · ·	1	¦ • • • •		
Tratal.	1 11	20	1 1	1 1 1	0	66		47	90	0 00	817	9		
Total	11	1 57		1 1	L 30	00		1 41	90	02	017	2		
		1	1			1		1		1	1	t	4	L

No. 4 --- Concluded.

during the year ended 30th September, 1902.

I'erjury.	Prostitution.	Rape and assault with intent.	Refusing bail.	Receiving stolen goods.	Seduction.	Selling liquor without a license.	Shooting with intent.	Stabbing.	Threatening and sediti- ous language.	Unlawful shooting.	Trespass.	Vagrancy.	Other offences not enumerated.	Totals.	Name of Gaol.
	22										1 3 1 3 1 4 4 28 3 11 11 28 3 11 28 3 11 28 3 11 28 3 11 28 3 11 28 3 11 28 3 11 28 3 11 28 3 11 28 3 11 11 	$\begin{array}{c} 200\\ 299\\ 14\\ 11\\ 2\\ 52\\ 8\\ 54\\ 3\\ 3\\ 11\\ 2\\ 2\\ 7\\ 7\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\$		$\begin{array}{c} & 70 \\ 52 \\ 86 \\ 110 \\ 0 \\ 30 \\ 102 \\ 255 \\ 80 \\ 30 \\ 114 \\ 67 \\ 13 \\ 304 \\ 67 \\ 201 \\ 13 \\ 304 \\ 67 \\ 201 \\ 10 \\ 29 \\ 255 \\ 329 \\ 64 \\ 33 \\ 86 \\ 4 \\ 4 \\ 40 \\ 50 \\ 60 \\ 50 \\ 60 \\ 27 \\ 32 \\ 329 \\ 64 \\ 33 \\ 31 \\ 10 \\ 29 \\ 25 \\ 329 \\ 64 \\ 33 \\ 31 \\ 10 \\ 29 \\ 25 \\ 329 \\ 64 \\ 33 \\ 31 \\ 10 \\ 29 \\ 25 \\ 329 \\ 64 \\ 33 \\ 31 \\ 10 \\ 29 \\ 77 \\ 28 \\ 41 \\ 39 \\ 39 \\ 111 \\ 32 \\ 22 \\ 77 \\ 284 \\ \\ 56 \\ 61 \\ 55 \\ 41 \\ 14 \\ 84 \\ 49 \\ \end{array}$	Barrie. Perlin. Belleville. Brantford. Brsmpton. Brocebridge. Cayuga. Cornwall. Cobourg. Chatham. Goderich. Goderich. Goderich. Goderich. Goderich. Goderich. Hamilton. Kingston. London. Lindsäy. L'Orignal. Milton. Napanée. Ottawa. Owen Sound. Orangeville. Perth. Picton. Perth. Picton. Pert Arthur. Parry Sound. Rat Portage. St. Catherines. Sarnia. Stratford. Sandwich. St. Thomas. Sault Ste. Marie. Toronto. Wolkerton. Woodstock. Welland. Whitby. Lock-ups : Gore Bay. Little Current. Manitowaning. Mattawa. Minden Sudbury. Huntsville. Fort William. Burk's Falls. North Bay. Massey. Webbwood.
5	<u> </u>	 15	••••• 	 10		····			10			967	1 123	6 43 5,192	Sturgeon Falls. Fort Francis.

No. 39

TABLE No. 5.

Shewing the total number of prisoners, male and female sentenced under each offence, during the year ending 30th September, 1902.

	1	1	
Offences.	Males.	Females.	Total.
Abortion . Abusive and obscene language	29		33
Arson Assault Assault felonious Attempted suicide Abduction	$ \begin{array}{c} 13 \\ 164 \\ 75 \\ 2 \\ 1 \end{array} $	4 3 1	$13 \\ 168 \\ 78 \\ 3 \\ 1$
Bigamy Breaches of the peace. Breaches of by-laws Burglary Contempt of Court	$ \begin{array}{r} 6 \\ 23 \\ 19 \\ 24 \\ 73 \end{array} $	$\begin{array}{c} 1\\ 4\\ \ldots\\ 2\end{array}$	7 27 19 24 75
Carrying unlawful weapons Counterfeiting and passing counterfeit money Cruelty to animals Cutting, wounding and attempting same. Deserting employment	$ \begin{array}{r} 16 \\ 4 \\ 6 \\ 10 \\ 56 \end{array} $	1	$ \begin{array}{r} 17 \\ 4 \\ 6 \\ 10 \\ 56 \end{array} $
Destroying and injuring property Drunk and disorderly Embezzlement Escaping from or obstaucting nonstables Escaping from prison	56 1,500 20 6	3 397	59 1,897 20 6
Forgery Fraud and obtaining money or goods under false pretences Gambling Giving liquor to Indians.	11 53 1 11	-4	$ \begin{array}{c} 11 \\ 57 \\ 1 \\ 11 \end{array} $
Horse, cattle and sheep stealing Housebreaking and robbery Incendiarism Indecent assault Inmates and frequenters of houses of ill-fame.	$ \begin{array}{r} 30 \\ 65 \\ 1 \\ 47 \\ 33 \end{array} $	1	$30 \\ 66 \\ 1 \\ 47 \\ 90$
Keeping houses of ill-fame Larceny Manslaughter Misdemeanour Murder	14 757 1	$\begin{array}{c} 48\\60\\1\\ \end{array}$	62 817 2
Perjury Prostitution Rape and assault with intent Refusing bail	4 15	1 11	5 11 15
Receiving stolen property Seduction Selling li uor without license Shooting with intent Stabling	9 6 12 7 5	1 3 1	10 6 15 8 5
Threatening and seditious language Trespass Unlawful shooting Vagrancy	9 293 	1 4 123	10 297
Other offences not enumerated	4,435	757	123 5,192

25

TABLE No. 6.

Shewing the social status and habits of the prisoners committed during the year ending 30th September, 1902.

			· · ·			
Name of gaol.	Married.	Unmarried.	Neither read nor write.	Temperate.	Intemperate.	Total committed to gaol.
Barrie Berlin Berlin Belleville Brantford Brampton Brockville Bracebridge Cayuga Cornwall; Cobourg Chatham Goderich Guelph Hamilton Kingston London Lindsay L'Orignal Milton Napanee Ottawa Ovangeville Perth Picton Perth Picton Perth Picton Petrh Picton Parry Sound Rat Portage Simcoe St. Catharines Sanda Stratford Sandwich St. Thomas Sault Ste. Marie Toronto Woodstock Welland Whitby Lock-upg :	$\begin{array}{c} 37\\ 34\\ 60\\ 77\\ 12\\ 58\\ 14\\ 23\\ 14\\ 71\\ 56\\ 12\\ 33\\ 142\\ 17\\ 168\\ 20\\ 19\\ 14\\ 9\\ 288\\ 41\\ 13\\ 51\\ 16\\ 7\\ 40\\ 11\\ 14\\ 27\\ 21\\ 26\\ 34\\ 20\\ 47\\ 13\\ 74\\ 1,150\\ 25\\ 30\\ 37\\ 25\\ \end{array}$	$\begin{array}{c} 61\\ 68\\ 81\\ 131\\ 42\\ 100\\ 21\\ 71\\ 29\\ 61\\ 62\\ 23\\ 49\\ 337\\ 69\\ 378\\ 31\\ 13\\ 95\\ 228\\ 57\\ 22\\ 39\\ 92\\ 22\\ 39\\ 92\\ 61\\ 38\\ 52\\ 22\\ 47\\ 149\\ 92\\ 52\\ 47\\ 149\\ 12\\ 1,366\\ 26\\ 105\\ 198\\ 28\\ \end{array}$	$\begin{array}{c} 6\\ 11\\ 43\\ 38\\ 38\\ 1\\ 35\\ 4\\ 9\\ 13\\ 34\\ 9\\ 7\\ 78\\ 7\\ 78\\ 7\\ 78\\ 6\\ 6\\ 16\\ 6\\ 12\\ 151\\ 15\\ 10\\ 7\\ 8\\ 8\\ 18\\ 18\\ 18\\ 18\\ 18\\ 18\\ 18\\ 18\\ $	$\begin{array}{c} 23\\ 57\\ 92\\ 92\\ 20\\ 14\\ 79\\ 20\\ 20\\ 14\\ 79\\ 20\\ 20\\ 20\\ 11\\ 111\\ 22\\ 239\\ 23\\ 23\\ 22\\ 19\\ 12\\ 163\\ 31\\ 13\\ 28\\ 9\\ 11\\ 13\\ 28\\ 9\\ 11\\ 13\\ 28\\ 9\\ 11\\ 13\\ 30\\ 73\\ 14\\ 24\\ 36\\ 118\\ 455\\ 82\\ 42\\ 103\\ 20\\ \end{array}$	$\begin{array}{c} 75\\ 45\\ 49\\ 145\\ 21\\ 105\\ 13\\ 74\\ 29\\ 53\\ 26\\ 15\\ 31\\ 368\\ 64\\ 307\\ 28\\ 64\\ 307\\ 28\\ 10\\ 90\\ 19\\ 411\\ 67\\ 22\\ 82\\ 29\\ 35\\ 45\\ 63\\ 23\\ 45\\ 63\\ 23\\ 45\\ 63\\ 23\\ 45\\ 63\\ 23\\ 45\\ 63\\ 23\\ 45\\ 63\\ 23\\ 45\\ 63\\ 23\\ 45\\ 63\\ 23\\ 31\\ 107\\ 11\\ 107\\ 11\\ 107\\ 11\\ 107\\ 11\\ 33\\ 33\\ 33\\ 33\\ 33\\ 33\\ 33\\ 33\\ 33$	$\begin{array}{c} 98\\ 102\\ 141\\ 208\\ 54\\ 158\\ 35\\ 94\\ 43\\ 132\\ 118\\ 35\\ 82\\ 479\\ 86\\ 546\\ 516\\ 61\\ 32\\ 109\\ 31\\ 32\\ 109\\ 31\\ 32\\ 109\\ 31\\ 32\\ 109\\ 31\\ 32\\ 72\\ 52\\ 52\\ 52\\ 52\\ 52\\ 53\\ 32\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 53\\ 54\\ 54\\ 54\\ 54\\ 55\\ 55\\ 53\\ 53\\ 55\\ 53\\ 55\\ 53\\ 55\\ 55$
Gore Bay Little Current Manitowaning Mattawa Minden Sudbury Huntsville Fort William Rurk's Falls North Bay Massey Webwood Sturgeon Falls Fort Francis	5 11 5 3 71 4 23 6 10 3 13 2 10	$egin{array}{c} 8\\ 21\\ 7\\ 3\\ 6\\ 240\\ 15\\ 47\\ 13\\ 41\\ 16\\ 53\\ 6\\ 43 \end{array}$	$ \begin{array}{c} 3 \\ 12 \\ 2 \\ 1 \\ 76 \\ 5 \\ 25 \\ 1 \\ 3 \\ 9 \\ 17 \\ 9 \end{array} $	$ \begin{array}{c} 11 \\ \\ 1 \\ 10 \\ 20 \\ 18 \\ 9 \\ 2 \\ 12 \\ \\ 6 \\ \end{array} $	$2 \\ 32 \\ 12 \\ 3 \\ 8 \\ 195 \\ 50 \\ 1 \\ 42 \\ 17 \\ 54 \\ 8 \\ 47 \\ 47 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 1$	$ \begin{array}{c} 13\\32\\12\\3\\9\\311\\19\\70\\19\\51\\19\\66\\68\\53\end{array} $
Totals	3,066	5,214	1,297	2,656	5,624	8,280

TABLE

Shewing the number of prisoners upon whom sentences were passed, the nature of such Court during the year

	-							ing the	
	ers sei	imber of ntenced d the year.	uring			Wb		tenced (5 Pa
Name of gaol.	Male.	Female.	Total.	To gaol and after- wards transfer- red to the Cen- tral Prison.	To Central Pri-on direct.	To gaol and after- wards to Female Reformatory.	To Female Re- formatory direct.	To Provincial Penitentiary.	To Reformatory for Boys.
Barrie Berlin Belleville Brantford Branpton Brockville Bracebridge Cayuga Cornwall Cobourg Chatham Goderich Goderich Guelph Hamilton Kingst m Londoo	$\begin{array}{c} 65\\ 51\\ 76\\ 102\\ 30\\ 95\\ 21\\ 78\\ 29\\ 106\\ 59\\ 13\\ 26\\ 262\\ 63\\ 179\\ 24\\ 24\\ 24\\ 24\end{array}$	5 1 100 8 7 4 2 1 8 8 	$\begin{array}{c} 70\\ 52\\ 86\\ 110\\ 30\\ 102\\ 25\\ 80\\ 30\\ 114\\ 67\\ 13\\ 31\\ 304\\ 67\\ 201\\ 25\\ 10\\ 55\\ 10\\ 55\\ 10\\ 56\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10$	4 1 1 1 3 3 1 26 1 1 1 1	$\begin{array}{c} 13\\7\\10\\17\\4\\20\\3\\3\\10\\4\\5\\14\\2\\3\\32\\32\\32\\32\\32\\32\\32\\32\\32\\32\\32\\32$		1 1 3 1 5 1 2 8 2 3	32 2 2 1 2 1 2 1 1 3 3 6 2 1 13 3 8	1 7 2 1 2 1 3 2 4
L'Orignal Milton Napanee Ottawa Oven Sound Orangeville Perth Picton Pembroke Peterboro Port Arthur Parry Sound	$ \begin{array}{c} 10\\ 26\\ 24\\ 247\\ 59\\ 31\\ 76\\ 4\\ 37\\ 46\\ 60\\ 27\\ \end{array} $	3 1 82 5 2 10 	50 60 27	2 12 3	4 15 2 1 2 4 4 2		1 3	1 1 3 1 4 1 	1 2 5 2 1
Rat Portage Simcoe St. Catharines Sarni + Stratford Sandwich St. Thomas. Sault Ste. Marie Toronto Walkerton Wordstock Welland	55 15 40 118 26 67 23 98 1,166 25 78 210 20	2 5 3 3 5 450 5 3 1	29 72 23 113 1,616 30 \$1 211	$ \begin{array}{c} 1 \\ 2 \\ 8 \\ 2 \\ 147 \\ 4 \\ 25 \\ \end{array} $	13 2 8 3 17 131 1 8	16	3 1 1 	2 3 4 \dots 1	1 1 1 8 1 1 1 1 1 2
Whitby Lock-ups: Gore Bay. Little Current Manitowaning Mattawa Minden Sudbury Huntswille Fort William Burk's Falls North Bay Massey	18	1	39 11 32 2 7 284 566 15 41 18	1	10				
Webbwood Sturg on Falls Fort Francis Totals	43 6 43 4,435	6 			$\left \frac{1}{425} \right $	40	82	 	1

No. 7.

sentences and the disposal of those who elected to be tried at the County Judges' Criminal ending 30th September, 1902.

Capital and corporal sentences. Community indees intrimul court. Name of gae!. argum and introduction of introduction of introdu			1						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			Caj	pital an senter	d corporal nces.	Coi cri	unty ju minal co	dge's ourt,	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Died while under going sentence.	To gaol and there detained until ex piration of sen- tence or payment of fiue.	Number of prison- els sentenced to death and ex- ecuted.	Number of prison- ers sentenced to death and com-	prisonment prisonment. Number of prison- ers sentemed to corporal punish- ment with im-	Acquitted on trial and discharged from custody.	Found guilty and sentenced.	Total number who elected to be tried.	Name of gao!.
		$ \begin{vmatrix} 37\\ 63\\ 86\\ 25\\ 75\\ 75\\ 17\\ 68\\ 22\\ 25\\ 168\\ 23\\ 97\\ 38\\ 11\\ 22\\ 223\\ 255\\ 163\\ 21\\ 99\\ 25\\ 55\\ 31\\ 17\\ 79\\ 4\\ 4\\ 33\\ 105\\ 56\\ 56\\ 255\\ 31\\ 17\\ 79\\ 4\\ 4\\ 33\\ 105\\ 56\\ 56\\ 11\\ 13\\ 33\\ 105\\ 20\\ 60\\ 11\\ 13\\ 33\\ 105\\ 20\\ 61\\ 11\\ 33\\ 105\\ 20\\ 7\\ 157\\ 31\\ 32\\ 7\\ 12\\ 7\\ 157\\ 157\\ 31\\ 27\\ 32\\ 7\\ 157\\ 157\\ 31\\ 32\\ 7\\ 157\\ 157\\ 157\\ 31\\ 32\\ 7\\ 157\\ 157\\ 157\\ 31\\ 32\\ 7\\ 157\\ 157\\ 157\\ 157\\ 157\\ 31\\ 32\\ 7\\ 157\\ 157\\ 157\\ 157\\ 157\\ 157\\ 157\\ $				$ \begin{array}{c} 1 \\ 2 \\ 1 $	$\begin{array}{c} 2 & 200 \\ 6 & 12 \\ 6 & 13 \\ 0 & 9 \\ 6 \\ 3 & 19 \\ 6 \\ 3 & 19 \\ 6 \\ 4 \\ 4 \\ 4 \\ 1 \\ 1 \\ 3 \\ 2 \\ 11 \\ 50 \\ 4 \\ 4 \\ 1 \\ 15 \\ 6 \\ 1 \\ 15 \\ 6 \\ 1 \\ 11 \\ 1 \\ 15 \\ 6 \\ 1 \\ 15 \\ 6 \\ 1 \\ 11 \\ 1$	$\begin{array}{c} 22\\ 18\\ 19\\ 19\\ 19\\ 19\\ 19\\ 19\\ 19\\ 19\\ 19\\ 19$	Berlin Belleville. Frantford. Brampton. Brockville. Bracebridge. Cayuga. Conwall. Cobourg. Cobatham. Goderich. Guelph. Hamilton. Kingston. London Lindsay. L'Origoal. Multon. Napanee. Ottawa. Over Sound. Orangeville. Perth. Proto. Pert Arthur. Petrboro'. Port Arthur. Petr Arthur. Petr Arthur. Petro. Peterboro'. Fort Arthur. Parry Sound. Kat Portage. Simcoe. St. Catharines. Sarnia. Stratford. Sandwich. tt. Thomas. Sault Ste. Marie. Foronto. Valkerton. Voodstock. Velland. Voidstock. Velland. Vhitby. Jock-ups : Gore Bay. Little Current. Manitowaning. Mattawa. Minden. Sudbury. Huntsville. Fort William. Burk's Falls. North Pay. Massey.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	24	4,191	2.	•••••				53	Fort Frances.

TABLE

Showing the	number of	prisoners, ho	w maintained	, cost of	maintenance, and

		Ho	w maint	tained.	1	Expend	iture.
	0 0					1	
Name of gaoler	Total number of prisoner committed during the year.	Number of prisoners whose maintenance was defray ed by the Province.	Number of prisoners whom maintenance was defrayed by the municipalities.	Number of days custody o Government prisoners.	Number of days custody o municipal prisoners.	Cost of food, fuel and clothing.	Cost of official salaries.
						S c	S c.
John Coulson W. J. Davey Alex. Thorburn	$\begin{array}{c} \mathrm{S1} \\ \mathrm{574} \\ \mathrm{98} \\ \mathrm{35} \\ \mathrm{35} \\ \mathrm{110} \\ \mathrm{38} \\ \mathrm{46} \\ \mathrm{132} \\ \mathrm{72} \\ \mathrm{72} \\ \mathrm{72} \\ \mathrm{73} \\ 73$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 57\\ 389\\ 421\\ 20\\ 103\\ 17\\ 510\\ 711\\ 32\\ 855\\ 28\\ 24\\ 119\\ \dots\\ 35\\ 37\\ 1455\\ 79\\ 31\\ 31\\ 2,052\\ 31\\ 106\\ 190\\ 21\\ \end{array}$	$\begin{array}{c c} 1,881\\ 1,365\\ 234\\ 725\\ 920\\ 880\\ 866\\ 515\\ 4,646\\ 10,690\\ 524\\ 436\\ 818\\ 786\\ 466\end{array}$	$\begin{array}{c} & 486\\ 663\\ 4,205\\ 1,746\\ 2,356\\ 1,329\\ \\ \\ 45,381\\ 2,025\\ 2,798\\ 6,216\\ 1,302\\ \end{array}$	$\begin{array}{c} 1,104 \ 35\\ 701 \ 24\\ 7110 \ 00\\ 611 \ 42\\ 273 \ 65\\ 786 \ 51\\ 720 \ 48\\ 653 \ 11\\ 720 \ 48\\ 4,231 \ 40\\ 401 \ 75\\ 786 \ 01\\ 1,045 \ 32\\ 1,665 \ 18\\ 1,241 \ 48\\ 1,241 \ 48\\ 1,241 \ 48\\ 2,409 \ 68\\ 457 \ 80\\ 2,200 \ 27\\ 457 \ 80\\ 2,237 \ 90\\ 1,711 \ 65\\ 874 \ 23\\ 839 \ 37\\ 115 \ 98\\ 224 \ 75\\ 976 \ 95\\ 1,031 \ 90\\ 320 \ 50\\ 555 \ 11\\ 631 \ 31\\ 709 \ 84\\ 902 \ 00\\ 133 \ 49\\ 902 \ 00\\ 133 \ 49\\ 902 \ 00\\ 133 \ 46\\ 902 \ 00\\ 133 \ 46\\ 902 \ 00\\ 133 \ 46\\ 902 \ 00\\ 133 \ 46\\ 91,273 \ 58\\ 8,467 \ 46\\ 460 \ 89\\ 1,376 \ 42\\ 1,085 \ 86\\ 458 \ 68\\ 200 \ 29\\ \end{array}$	$\begin{array}{c} 1,600 & 00\\ 1,275 & 00\\ 1,255 & 00\\ 1,550 & 00\\ 1,155 & 00\\ 1,550 & 00\\ 1,155 & 00\\ 2,25 & 00\\ 1,315 & 00\\ 2,411 & 65\\ 1,325 & 00\\ 2,411 & 65\\ 1,420 & 00\\ 1,375 & 00\\ 2,905 & 00\\ 2,905 & 00\\ 2,905 & 00\\ 1,375 & 00\\ 2,905 & 00\\ 1,375 & 00\\ 2,905 & 00\\ 1,650 & 00\\ 1,650 & 00\\ 1,650 & 00\\ 1,650 & 00\\ 1,650 & 00\\ 1,650 & 00\\ 1,650 & 00\\ 1,650 & 00\\ 1,650 & 00\\ 1,650 & 00\\ 1,360 & 00\\ 1,650 & 00\\ 1,360 & 00\\ 1,360 & 00\\ 1,360 & 00\\ 1,360 & 00\\ 1,360 & 00\\ 1,360 & 00\\ 1,360 & 00\\ 1,360 & 00\\ 1,360 & 00\\ 1,472 & 50\\ 575 & 00\\ 2,044 & 00\\ 1,365 & 50\\ 1,375 & 00\\ 1,412 & 49\\ 2,100 & 00\\ 1,412 & 49\\ 2,100 & 00\\ 1,412 & 49\\ 2,100 & 00\\ 1,5276 & 91\\ 1,375 & 00\\ 1,660 & 00\\ 1,900 & 00\\ 1,400 & 00\\ 1$
John G. Simms. Thomas Gorley John McMeekin R. C. Garrett Terrance Keaney. Fred'k Francis Richard McNabb William Wilson S. A. Huntingtor F. Chambers William Irving Chas. Rochon	$\begin{array}{c c} & 32 \\ & 12 \\ & 31 \\ & 12 \\ & 311 \\ &$	$\left[\begin{array}{cccccccccccccccccccccccccccccccccccc$		$\begin{array}{c} 70 \\ 49 \\ 40 \\ 42 \\ 1,635 \\ 1,958 \\ 48 \\ 1,259 \\ 11 \\ 77 \\ 62 \\ 312 \\ \end{array}$	945 23 12 93	51 00 89 70 280 55 10 35 1,223 70 1,79 47 1,079 67 5 00 1 45 15 00	$\begin{array}{c} 200 \ 00\\ 200 \ 00\\ 475 \ 00\\ 150 \ 00\\ 200 \ 00\\ 800 \ 00\\ 913 \ 00\\ 100 \ 00\\ 137 \ 50\\ 100 \ 00\\ 450 \ 00\\ \hline 85,350 \ 04 \end{array}$
	Jonathan Sissons Jonathan Cook John T. Brown Joshua Modeland A. D. McDougall Richard Mills John A. Murphy Donald McDonell H. J. Snelgrove Robert Mercer. Joseph Griffen John McNab James Ogilvie Charles H. Corbett Robert Boston John D. Cameron William VanAllen Zara August. VanLuven William Kehoe John Miller Charles Bowles W. H Grant Wm. E. Patterson James Wright Henderson Nesbitt Thomas Penfold T. W. George Wm. H McKay Thos. W. Butler. Thos. P. Blain R. G. McArthur Hugh Nichol Willum J. Sparks W. W. Moore Alexander McKellar G. R. Vanzant Donald McKechnie John Coulson W. J. Davey Alex. Thorburn. John G. Simus Thomas Gorley John McMeekin R. C. Garrett R. C. Garrett C. Charbers William Vison S. A. Huntingtor F. Chambers William Irving Chas. Rochon	Jonathan Sissons Jonathan Cook Jonathan Cook John T. Brown John T. Brown Joshua Modeland A. D. McDougall Joshua Modeland John A. Murpby Joshua Modeland John A. Murpby Donald McDonell H. J. Snelgrove Joshua McDonell H. J. Snelgrove Joseph Griffen John McNab John McNab Star Kobert Boston John D. Cameron John D. Cameron John Miller Charles Bowles Jares Ogilvie Henderson Nesbitt John Miller Charles Bowles Jares Penfold Tromas Penfold Tromas Penfold Tros. W. Butler Henderson Nesbitt John Sparks Jarbos P. Blain Thos. P. Blain M. J. Sparks John Cameron John Cameron John Cameron Star Hugh Nichol G. R. Vanzant John G. Simms John G. Simms John G. Simms John McMeekin Star K. C. Garrett Star John McNeekin Star John McMeekin Star Star Star Star Star Star Star Star	Name of gaolerare of gaolerJonathan SissonsyeJonathan CookyeJonathan Cook102Jonathan Cook102John T. Brown208Joshu Modeland54John M. Murpby94Jonald McDonell43H. J. Snelgrove132Sobert Mercer118Jone Scilvie479Joshu McNab82John McNab82John McNab82John McNab82Yames Ogilvie479John McNab82Yames Ogilvie479John D. Cameron32William Van Allen109Gara August VanLuven31William Kehoe574James Ogilvit46James Penfold72Tow George22Wm. H. Grant110Yum Moore47Yum Santer36James Veright43Henderson Nesbitt132John Cales n255Su20Wm. H. Ckay79Thos W. Butler43Yu44John Cales n35John Couls n32John Couls n32John Couls n32John Coul	Name of gaoler and of gaoler and of gaoler Jonathan Sissons 98 55 43 Jonathan Sissons 98 55 43 Jonathan Cook 102 33 69 JA D. McDougall 158 52 166 John T. Brown 208 65 143 John M. Murphy 941 178 63 Jonald McDougall 158 52 106 Richard Mills 35 35 79 Jonald McDougall 158 52 106 Richard Mills 35 13 22 John A. Murphy 941 21 73 Jonald McDonell 43 15 28 James Ogilvie 479 108 371 James Ogilvie 479 108 371 John D. Cameron 32 12 20 William Kehoe 574 64 510 John D. Cameron 38 32 32 <t< td=""><td>Name of gaoler Name of</td><td>Name of gaoler $\frac{1}{2}$</td><td>Name of gaoler $\frac{1}{2}$</td></t<>	Name of gaoler Name of	Name of gaoler $\frac{1}{2}$	Name of gaoler $\frac{1}{2}$

1902

No. 8.

salaries of various gaol officials for the year ended 30th September, 1902.

Expend	liture.—Conti	inued.			Salarie	23.		
Cost of repairs.	Average cost per prisoner for food, clothing, fuel	Average cost per prisoner for salaries and wages.	Average cost ter prisoner for entire gaol expendi- ture.	Gaolers.	Turnkeys.	Matron ⁴ .	(taol surgeons.	Name of gaol.
$\begin{array}{c} 5 \ 00 \\ \hline \\ 148 \ 45 \\ 27 \ 90 \\ 195 \ 79 \\ \hline \\ 235 \ 00 \\ \hline \\ 235 \ 00 \\ \hline \\ 495 \ 82 \\ 400 \ 65 \\ \hline \\ 55 \ 75 \\ 199 \ 45 \\ 842 \ 26 \\ 1,280 \ 10 \\ 21 \ 90 \\ 61 \ 25 \\ 23 \ 65 \\ 100 \ 00 \\ 114 \ 07 \\ 88 \ 00 \\ 9 \ 00 \\ 23 \ 75 \\ \hline \\ \hline \\ 10 \ 00 \\ \hline \\ 88 \ 07 \\ 61 \\ 10 \ 00 \\ \hline \\ 114 \ 07 \\ 88 \ 00 \\ 9 \ 00 \\ 23 \ 75 \\ \hline \\ \hline \\ 10 \ 00 \\ \hline \\ \hline \\ 88 \ 77 \\ \hline \\ 307 \ 76 \\ 100 \ 00 \\ 51 \ 39 \\ \hline \\ \hline \\ 18 \ 90 \\ 975 \ 69 \\ 200 \ 000 \\ 198 \ 44 \\ \end{array}$	$\begin{array}{c} 2,748 \ 18 \ 18 \ 18 \ 17 \ 2,981 \ 246 \ 6 \ 2,260 \ 00 \ 5 \ 0 \ 2,459 \ 87 \ 3 \ 6 \ 2,459 \ 87 \ 3 \ 6 \ 2,459 \ 87 \ 3 \ 6 \ 2,459 \ 87 \ 3 \ 6 \ 2,459 \ 87 \ 3 \ 6 \ 2,459 \ 87 \ 3 \ 6 \ 2,459 \ 87 \ 3 \ 6 \ 2,459 \ 87 \ 3 \ 6 \ 2,113 \ 11 \ 9 \ 10 \ 0 \ 7,138 \ 87 \ 35 \ 8 \ 2,113 \ 11 \ 9 \ 10 \ 0 \ 7,138 \ 87 \ 35 \ 8 \ 2,158 \ 00 \ 21 \ 6 \ 1 \ 3 \ 2,158 \ 00 \ 21 \ 1 \ 3 \ 4,799 \ 63 \ 3 \ 2,476 \ 07 \ 13 \ 3 \ 4,799 \ 63 \ 3 \ 2,476 \ 07 \ 13 \ 4,799 \ 63 \ 3 \ 2,476 \ 07 \ 13 \ 4,799 \ 63 \ 3 \ 2,158 \ 90 \ 92 \ 2,423 \ 12 \ 7 \ 11 \ 1,834 \ 92 \ 2 \ 2,183 \ 21 \ 17 \ 11 \ 1,834 \ 92 \ 2 \ 2,319 \ 21 \ 11 \ 1,834 \ 92 \ 2 \ 2,319 \ 21 \ 11 \ 1,834 \ 92 \ 24 \ 3,075 \ 90 \ 13 \ 3,075 \ 10 \ 13 \ 1,075 \ 10 \ 10 \ 10 \ 10 \ 10 \ 10 \ 10 \ 1$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$ \begin{array}{c} \$ \ c, \\ 800 \ 00 \\ 560 \ 00 \\ 600 \ 00 \\ 750 \ 00 \\ 500 \ 00 \\ 800 \ 00 \\ 800 \ 00 \\ 800 \ 00 \\ 600 \ 00 \\ 600 \ 00 \\ 740 \ 00 \\ 800 \ 00 \\ 600 \ 00 \\ 750 \ 00 \\ 525 \ 00 \\ 800 \ 00 \\ 525 \ 00 \\ 800 \ 00 \\ 600 \ 00 \ $	$\begin{array}{c} \$ & c. \\ 550 & 00 \\ 450 & 00 \\ 450 & 00 \\ 400 & 00 \\ 400 & 00 \\ 400 & 00 \\ 365 & 00 \\ 992 & 65 \\ 596 & 25 \\ 596 & 25 \\ 590 & 00 \\ 475 & 00 \\ 1, 405 & 00 \\ 400 & 00 \\ 400 & 00 \\ 400 & 00 \\ 400 & 00 \\ 400 & 00 \\ 400 & 00 \\ 400 & 00 \\ 455 & 50 \\ 400 & 00 \\ 556 & 00 \\ 400 & 00 \\ 411 & 41 \\ 41 & 24 \\ 1, 050 & 00 \\ 547 & 50 \\ 11, 085 & 91 \\ 375 & 00 \\ 500 & 00 \\ 997 & 50 \\ 11, 085 & 91 \\ 375 & 00 \\ 500 & 00 \\ 900 & 00 \\ 450 & 00 \\ 450 & 00 \\ 900 & 00 \\ 450 & 00 \\ 900 & 00 \\ 450 & 00 \\ 900 & 00 \\ 450 & 00 \\ 900 & 00 \\ 450 & 00 \\ 900 $	$\begin{array}{c} {\rm S} {\rm \ c.} \\ 150 {\rm \ 00} \\ 140 {\rm \ 00} \\ 300 {\rm \ 00} \\ 250 {\rm \ 00} \\ 250 {\rm \ 00} \\ 250 {\rm \ 00} \\ 150 {\rm \ 00} \\ 125 {\rm \ 00} \\ 125 {\rm \ 00} \\ 125 {\rm \ 00} \\ 344 {\rm \ 00} \\ 380 {\rm \ 00} \\ 200 {\rm \ 00} \\ 100 {\rm \ 00} \\ 150 {\rm \ 00} \\ 200 {\rm \ 00} \\ 250 {\rm \ 00} \\ 200 {\rm \ 00} \\ 250 {\rm \ 00}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Barrie. Berlin. Belleville. Brantford. Brampton. Brockville. Bracebridge Cayuga. Cornwall. Cobourg. Chatham. Goderieh. Goderieh. Galelph. Hamilton. Kingston. London. Lindsay. L'Orignal. Milton. Napanee. Ottawa Owen Sound. Orangeville. Pertb. Pictou. Pentbroke. Peterboro'. Port Arthur. Parry Sound. Stratford. Sandwich. St Thomas. Sault Ste. Marie. Toronto. Wadstock. Welland. Whitby. Lock-ups :
89 10 12 30 7 00 10 00 	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 300 & 00 \\ 150 & 00 \\ 400 & 00 \\ 200 & 00 \\ 500 & 00 \\ 550 & 00 \\ 100 & 00 \\ 137 & 50 \\ 100 & 00 \\ 450 & 00 \end{array}$	93 00	· · · · · · · · · · · · · · · · · · ·	150 00	Gore Bay. Little Current Manit Iwaning Mattawa. Minden. Sudbury. Huntaville. Fort William. Burk's Falls. North Bay. Massey. Webbwood. Sturgeon Falls. Fort Francis.

TABLE No. 9.

Shewing the number of escapes and deaths; the revenue derived from prison labour, the cost of diet, the accommodation of the various gaols and the highest and lowest number of prisoners in custody during the year ending 30th September, 1902.

Name of gaol.	Prisoners who es- caped and evaded recapture.	Prisoners who es- caped and were recaptured.	Prisoners who died.	Number of cells in each goal.	Greatest number of prisoners confined in gaol at any time during the year.	Lowest number of prisoners confined in gaol at any time during the year.	Actual cash revenue derived from prison labor.	Cost of daily rations for prisoners.
Barrie				$\begin{array}{c} 24\\ 20\\ 38\\ 24\\ 25\\ 33\\ 15\\ 14\\ 17\\ 24\\ 38\\ 12\\ 36\\ 03\\ 57\\ 26\\ 18\\ 23\\ 18\\ 22\\ 18\\ 224\\ 18\\ 226\\ 11\\ 24\\ 319\\ 270\\ 45\\ 50\\ 25\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5$	$\begin{matrix} 18\\13\\23\\16\\12\\14\\10\\25\\8\\26\\12\\8\\14\\19\\33\\9\\13\\13\\39\\13\\13\\5\\45\\24\\14\\14\\28\\4\\16\\20\\10\\9\\8\\5\\9\\23\\14\\14\\14\\23\\217\\14\\18\\99\\15\\4\\4\\3\\9\end{matrix}$	$5 \\ 1 \\ 5 \\ 3 \\ 2 \\ 2 \\ 31 \\ 1 \\ 2 \\ 15 \\ 5 \\ 11 \\ 6 \\ 3 \\ 18 \\ 6 \\ 7 \\ 9 \\ 3 \\ 1 \\ 18 \\ 6 \\ 7 \\ 9 \\ 3 \\ 1 \\ 1 \\ 1 \\ 3 \\ 2 \\ 5 \\ 3 \\ 4 \\ 1 \\ 1 \\ 1 \\ 1 \\ 3 \\ 2 \\ 5 \\ 3 \\ 3 \\ 4 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$		$\begin{array}{c} {\rm c.} \\ {\rm r11.67, 75} \\ {\rm 5.75} \\ {\rm 5.75} \\ {\rm 6.10} \\ {\rm 6.90} \\ {\rm 6.88} \\ {\rm 30.} \\ {\rm 9.50} \\ {\rm 8.50} \\ {\rm 12.} \\ {\rm 8.75} \\ {\rm 9.20} \\ {\rm 9.50} \\ {\rm 8.50} \\ {\rm 12.} \\ {\rm 8.75} \\ {\rm 9.20} \\ {\rm 9.50} \\ {\rm 6.33} \\ {\rm 12.25} \\ {\rm 9.60} \\ {\rm 7.50} \\ {\rm 6.25} \\ {\rm 9.80} \\ {\rm 7.50} \\ {\rm 12.38} \\ {\rm 10.00} \\ {\rm 30.00} \\ {\rm 7.50} \\ {\rm 8.50} \\ {\rm 8.66} \\ {\rm 6.500} \\ {\rm 8.966} \\ {\rm 6.500} \\ {\rm 8.960} \\ {\rm 30.} \\ {\rm$
Mattawa Minden Sudbury Huntsville Fort William Burk'a Falls. North Bay Massey Webbwood Sturgeon Falla Fort Francis	3	1		$ \begin{array}{c} 8 \\ 6 \\ 12 \\ 7 \\ 12 \\ 7 \\ 5 \\ 7 \\ 5 \\ - $	2 1 27 4 12 3 9 9 7 7 3 4			30. 45. 8. 30. 13.65 30. 45.
Totals	. 11	7	24	1,568	1,045	291	*****	

TABLE No. 10.

Shewing the daily cost per prisoner in each of the gaols, excluding the district lock-ups, for the year ending 30th September, 1902.

	during	stay of during	l, food	Average cost per day for each prisoner.
Name of gaol.	Number of prisoners committed during the year.	Total days prisoners the year.	st of fuel, and clothing	verage cost per da for each prisoner.
	Numb com the	Total pri	Cost and	Aver for
Demis	00	0 505	\$ C.	C.
Barrie	98	3,527	1.104 35	31
Berlin .	102 141	$2,155 \\ 4,396$	$701 24 \\ 710 00$	33 16
Belleville Brantford	$\frac{141}{208}$	$\frac{4,590}{3,143}$	611 42	10
	200 54	1,221	273 65	19 22
Brampton Brockville	158	2,535	786 51	31
Bracebridge	35	1,057	720 48	65
Cayuga	94	3,453	653 11	19
Cornwall	43	1.117	431 98	39
Cobourg	132	15,011	4,231 40	28
Chatham	118	1.751	401 75	23
Goderich	35	1,970	738 00	37
Guelph	82	1,502	1,045 32	70
Hamilton	479	8,673	1,695 18	20
Kingston	86	2,905	1,241 48	43
London	546	5,639	2,409 68	43
Lindsay	51	1,492	457 00	31
L'Orignal	32	3,310	484 92	15
Milton	109	2,213	270 27	12
Napanee	31	625	457 80	- 73
Ottawa	574	11,959	2,287 00	20
Owen Sound	98	5,583	1,711 65	31
Orangeville	35	3,368	874 23	26
Perth	110	6,402	839 37	13
Picton	38	226	115 98	51
Pembroke	46	2,902	244 75	8
Peterboro'	132	4,877	976 95	20
Port Arthur	72 52	3,484	846 71	24
Parry Sound	79	1,881 1,365	1,259 95 1.031 90	67 76
Simcoe.	43	720	320 50	45
St. Catharines.	73	1,388	555 11	40
Sarnia	183	5,125	631 31	12
Stratford	72	2,626	709 84	$\frac{12}{27}$
Sandwich	131	3.222	902 00	28
St. Thomas	47	1,844	133 49	7
Sault Ste. Marie	186	4.646	1,273 58	27
Toronto.	2,516	56,071	8,467 46	15
Walkerton	51	2,549	460 89	18
Woodstock	135	3,234	1,376 42	43
Welland	235	7,034	1,085 86	15
Whitby	53	2,088	458 68	22
Totals	7,595	200,289	45,989 17	23
	1,000	=00,200	10,000 11	20

THE REPORT OF THE INSPECTOR

TABLE No. 11.

Shewing the number of prisoners, male and female, *sentenced* during the year ending 30th September, 1901, and a comparison of the same with the current year.

Name of Gaol. No. of prisoners year ending 30th September, 1901. No. of prisoners sentenced in the year ending 30th September, 1901. Increase. Decrease. $\frac{1}{2}$ <							-						
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Name of Gaol.	sent year	enced in ending	the 30th	sente year	nced in ending	the 30th]	Increas	€.	E)ecreas	9.
Berlin 50 1 51 1 52 1 Brankford 85 7 92 102 8 116 17 1 18 Brankford 2 1 1 12 Brackville		Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
101318	Berlin Belleville. Brantford Brantpton Brockville Bracebridge Cayuga. Cornwall Cobourg. Containan Goderich Goderich Hamilton London London London London London London Competite Milton Napanee Ottawa Oven Sound Ovangeville Perth Picton Pert Arthur Pembroke Peterhoro' Port Arthur Party Sound Rat Portage St. Catharines Starnia. Stratford Sandwich. St. Thomas Sult Ste, Marie Toronto Walkerton. Woo istock Welland. Woo istock Welland. Whitby Lock-ups: Gore Bay. Lirtle Curreat. Manitowaning Mattawa Minden Sudbury Huntsville. Fort William. Burk's Falle. North Bay. Massey Webbwood Sturgeon Falls. Fort Francis.		$ \begin{array}{c} 1 \\ 7 \\ 7 \\ 15 \\ 6 \\ 4 \\ 1 \\ 16 \\ 5 \\ \\ 40 \\ 7 \\ 15 \\ 1 \\ 2 \\ 5 \\ 6 \\ 109 \\ 3 \\ 3 \\ 18 \\ \\ 2 \\ 2 \\ 2 \\ 5 \\ 4 \\ 4 \\ 1 \\ 5 \\ 4 \\ 2 \\ 2 \\ 2 \\ 5 \\ 4 \\ 4 \\ 1 \\ 5 \\ 3 \\ 1 \\ \\ 7 \\ \\ 2 \\ \\ 2 \\ 2 \\ 2 \\ 2 \\ 5 \\ 4 \\ 4 \\ 2 \\ 404 \\ 3 \\ 5 \\ 3 \\ 1 \\ \\ 7 \\ \\ 2 \\$	$\begin{array}{c} 51\\74\\92\\32\\89\\937\\102\\44\\120\\24\\29\\338\\68\\223\\37\\9\\462\\79\\36\\89\\8\\27\\58\\59\\30\\65\\26\\56\\56\\56\\116\\38\\27\\58\\59\\30\\65\\26\\56\\56\\118\\36\\40\\79\\1,48\\6\\38\\12\\5\\5\\6\\38\\12\\5\\6\\38\\12\\5\\6\\38\\12\\5\\6\\38\\12\\5\\6\\38\\12\\5\\6\\38\\12\\5\\6\\38\\12\\5\\6\\38\\12\\5\\6\\38\\12\\5\\6\\38\\12\\5\\6\\38\\12\\5\\6\\6\\6\\38\\12\\5\\6\\6\\6\\38\\12\\5\\6\\6\\6\\6\\6\\6\\6\\6\\6\\6\\6\\6\\6\\6\\6\\6\\6\\6\\$	$\begin{array}{c} 51\\ 766\\ 102\\ 30\\ 95\\ 21\\ 78\\ 29\\ 105\\ 59\\ 13\\ 26\\ 262\\ 63\\ 179\\ 24\\ 10\\ 26\\ 24\\ 247\\ 59\\ 31\\ 76\\ 44\\ 247\\ 59\\ 31\\ 76\\ 40\\ 27\\ 55\\ 15\\ 40\\ 118\\ 26\\ 67\\ 78\\ 210\\ 98\\ 1,166\\ 67\\ 25\\ 78\\ 210\\ 39\\ 81\\ 122\\ 2\\ 7\\ 270\\ 50\\ 15\\ 40\\ 81\\ 43\\ 6\\ 43\\ $	$ \begin{array}{c} 1\\ 1\\ 0\\ 8\\ -7\\ 4\\ 2\\ 1\\ 8\\ -7\\ -7\\ -7\\ -7\\ -7\\ -7\\ -7\\ -7\\ -7\\ -7$	$\begin{array}{c} 52\\ 86\\ 110\\ 30\\ 102\\ 25\\ 80\\ 30\\ 102\\ 25\\ 80\\ 30\\ 102\\ 102\\ 102\\ 203\\ 102\\ 203\\ 304\\ 67\\ 201\\ 203\\ 304\\ 67\\ 201\\ 203\\ 304\\ 67\\ 201\\ 203\\ 304\\ 67\\ 203\\ 304\\ 67\\ 203\\ 304\\ 67\\ 203\\ 304\\ 67\\ 203\\ 304\\ 67\\ 203\\ 304\\ 67\\ 203\\ 304\\ 67\\ 203\\ 304\\ 67\\ 203\\ 304\\ 67\\ 203\\ 304\\ 67\\ 203\\ 304\\ 67\\ 203\\ 304\\ 67\\ 203\\ 304\\ 67\\ 203\\ 304\\ 67\\ 203\\ 304\\ 67\\ 203\\ 304\\ 67\\ 203\\ 304\\ 67\\ 203\\ 304\\ 67\\ 203\\ 203\\ 203\\ 203\\ 203\\ 203\\ 203\\ 203$	1 9 17 21 21 2 4 4 2 2 4 3 11 5 5 12 3 3 11 12 3 3 11 12 3 3 11 12 3 3 11 12 3 3 12 12 3 12 12 13 12 12 13 12 13 12 13 12 13 12 13 12 13 13 12 13 13 12 13 13 12 13 13 12 13 13 12 13 13 12 13 13 12 13 13 12 13 13 12 13 13 12 13 13 12 13 13 12 13 13 12 13 13 12 13 13 14 14 14 14 14 14 14 14 14 14 14 14 14	3 1 3 5 2 7 7 2 2 7 2 2 7 1 4 46 2 2 7 7 	$\begin{array}{c} 1\\ 12\\ 18\\\\ 21\\\\ 22\\\\ 5\\\\\\\\\\ .$	20 14 11. 3 36 29 12 3 106 17 2 4 12 4 12 4 12 4 5 54 54 3	1 2 8 3 2 2 5 27 1 8 27 2 2 2 2 2 5 5 27 1 1 8 5 5 5 1 4 1 1 1 	$\begin{array}{c} 8\\ 12\\ 22\\ 14\\ 8\\ \end{array}$ $\begin{array}{c} 11\\ 3\\ 3\\ 3\\ 29\\ 12\\ 2\\ 5\\ 5\\ 133\\ 17\\ 3\\ 8\\ 4\\ \end{array}$ $\begin{array}{c} 12\\ 2\\ 2\\ 3\\ 8\\ 11\\ 12\\ 2\\ 1\\ 12\\ 1\\ 9\\ 22\\ 17\\ \end{array}$ $\begin{array}{c} 18\\ 21\\ 2\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 2\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$
	Totals	4,600	735	0,330	4,435	757	5,192	287	110	201	430	00	020

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TWENTY-NINTH ANNUAL REPORT

OF THE

INSPECTOR OF PRISONS AND PUBLIC CHARITIES

UPON THE

CENTRAL PRISON

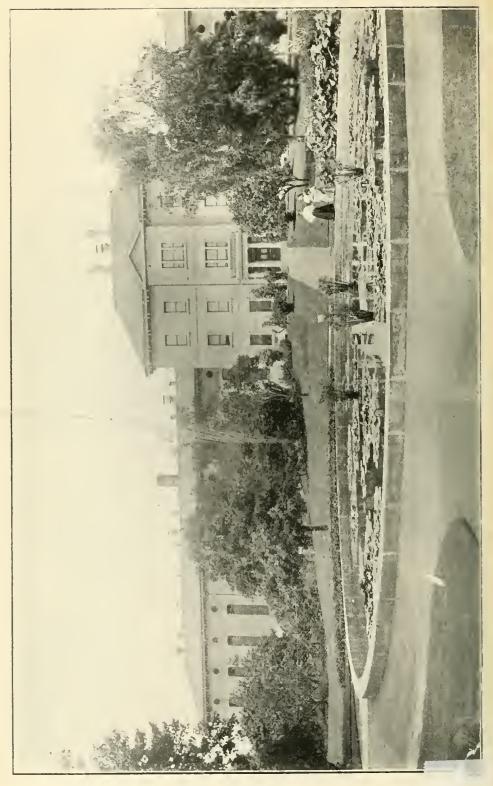
AND REFORMATORIES

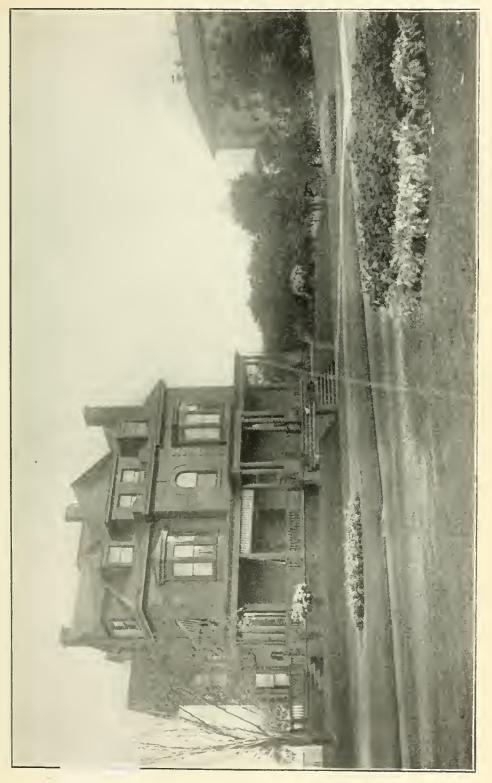
OF THE

PROVINCE OF ONTARIO,

BEING FOR THE YEAR ENDING 30TH SEPTEMBER,

1902.





Warden's Residence.

Office of the Inspector of Prisons and Public Charities, Ontario.

PARLIAMENT BUILDINGS, TORONTO, November, 1902.

SIR,—I have the honor to transmit herewith, to be presented to His Honor the Lieutenant-Governor, the Twenty-Ninth Annual Report upon the Central Prison and Reformatories of the Province of Ontario, being for the official year ending on the 30th September, 1902.

I have the honor to be, Sir,

Your obedient servant,

JAMES NOXON,

Inspector.

THE HONORABLE J. R. STRATTON, M.P.P.,

Secretary of the Province of Ontario,

Toronto.

PARLIAMENT BUILDINGS, TORONTO, November, 1902.

To the Honorable SIR OLIVER MOWAT, Knight Grand Cross of the Most Distinguished Order of Saint Michael and Saint George, Member of the King's Privy Council for Canada and Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOR :

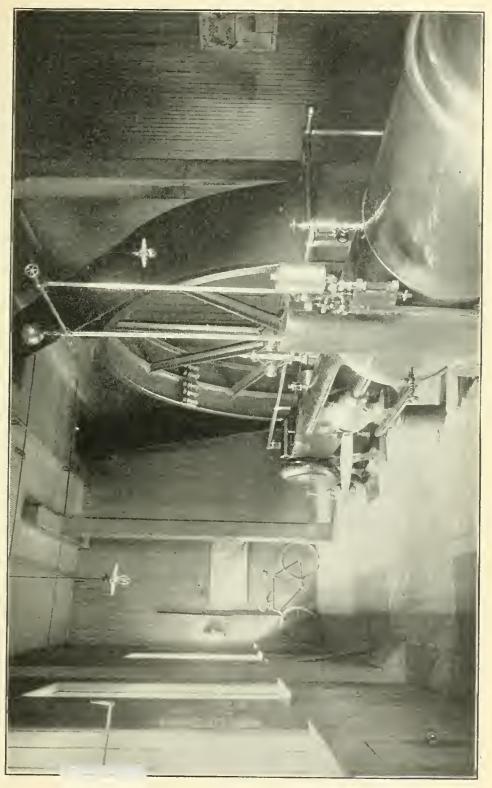
I beg to submit herewith the Twenty-Ninth Annual Report upon the Central Prison and Reformatories for the year ending on 30th September, 1902.

I have the honor to be,

Your Honor's most obedient servant,

J. R. STRATTON,

Provincial Secretary.



CENTRAL PRISON.

INTRODUCTORY.

The committals during the year were 679, which with 340 in custody at commencement of the year, makes up the total number incarcerated during the year 1,019 as compared with 1,042 the previous year. The committals direct, number 427, and to Common gaols and transferred therefrom 252. The average daily population for the year was 325, and the average period of sentence was six months twenty-two days, as compared with 365 population, and seven months nineteen days period of sentences the preceding year. Of the number committed during the year 431 was for the first time in the Central Prison, 122 second time 59 third time, 22 fourth time, and the remaining 35 with varying frequency from five to nineteen times.

There were committed for vagrancy 140, as compared with 157 the previous year. The number discharged on ticket-of-leave was 48, and 19 were discharged on remission of sentence, together, being ten per cent of the total committments. Of the total number committed seven were total abstainers, 189 temperate, and 483 were intemperate. The illiterate were 73, read only 14 and 592 could both read and write. The total stay of prisoners was 118,500 days, a reduction of 14,693 as compared with 133,193 in 1901. The gross per capita cost per diem for maintainence was (55.61) fifty-five sixty one hundredths cents against (46.47) forty-six forty-seven hundredths cents in the previous year, an increase of (9.14) nine fourteen hundredth cents per diem, marking the still advancing cost of supplies consumed.

The total cost of maintain nce outlay for the year was \$58,748.52 against \$61,919.10 the preceding year.

The following tabulated statement shows the results of the industrial operation at the Prison during the year ended 30th September, 1902.

STATEMENT No. 1.

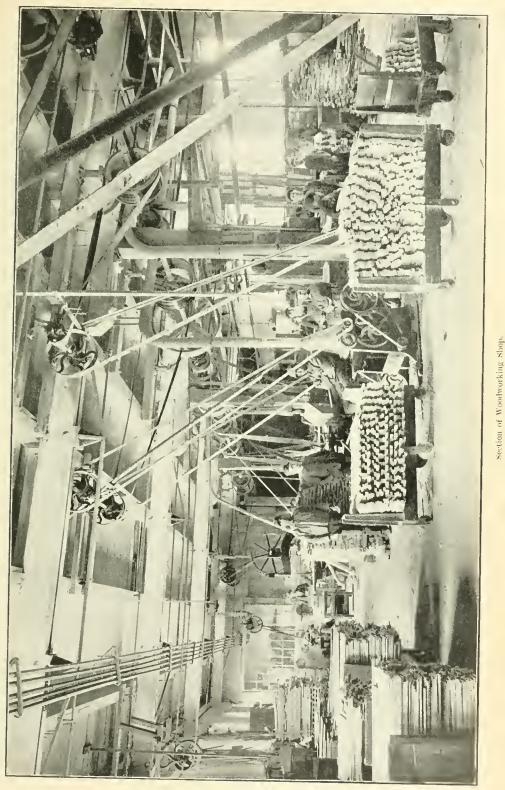
Dr.

To stock on hand beginning of year	\$71,790 63
Amount of material and repairs	55,972 55
" fuel and general expenses	9,809-88
" salaries and wages	17.857 60
Balance net gain	16,727 14
-	\$172,157 80
(h)	

	106,554 62		
Stock on hand close of year	65,603 18		
-		\$172,157 8	80

The net carnings for the year were \$16,727.14 after paying gratuities to prisoners \$658.15 or a total of \$17,385.29.

Owing to the reduced prison population all prison industries were run shorthanded, and the net earnings were on this account to some extent diminished. The machinery and plant have been maintained in a high state of efficiency and in a condition to give the most economical results with the class of labor employed.



STATEMENT No. 2.

Statements of amounts chargeable to the various Industries in carrying on the manufacturing operations of the Central Prison.

	1901.	1902.
Stock on hand beginning of year	\$83,065-09	\$71,790 63
Shoe shop	3,148 35	2,995 84
Tailor shop	4,771 68	4,763 69
North shop	26,211 28	24,639 64
Woollen mill.	7,608.01	8,180 47
Machine shop	5,920 07	9,400 03
Broom shop	880 88	776 43
Cordage shop	1,896 19	4,472 52
The piggery	$205 \ 35$	$210_{-}00$
The greenhouse	202-03	533 93
Salaries and wages	15,974 11	17,857 60
Fuel and general expenses	7,898 59	9,809-88
Net gain for the year	24,389-01	16,727 14
		\$172,157 80

STATEMENT No. 3.

Sales of the various Industries of the Central Prison.

	1901.	1902.
Shoe shop	\$4,685 47	\$3,740 81
Tailor shop	-7,664.02	7,394 52
North shop	46,596 39	44,230 46
Woollen mill	12,039 20	13,273 70
Machine shop	12,880 84	13,956 54
Broom shop	7,852 98	6,616 54
Cordage shop	16,590.96	15,887-64
The piggery	500 00	500 00
The greenhouse	$762 \ 45$	788 75
Basket shop	$21 \ 25$.	
Miscellaneous	786 45	$165\ 66$
Stock on hand at close of year	71,790 63	65, 003 18
-		
S	182,170 64	\$172.157 80



Section of Woodworking Shop,

STATEMENT No. 4.

General Statement of the books of the Central Prison, Toronto, of Industries and Maintenance combined for the year ending 30th September, 1902. Showing trial balance, inventory, net cost of maintenance, stock, resources and liabilities :

	Resources. Liabilities.		392,587 09 392,587 09
ķ,	Cr.	415,848 63 1 1 1 1 1 1 1 1 1 1 848 63 1 1 1 15,848 63 1 1	
Stock	Dr.	\$ c. 45,506 27 370,343 36 415,848 63	•
ntative.	Cr.	\$ c. 421 40 421 40 11,273 10 75 75 75 75 76 75 77 75 76 75 7	- - - - - - - - - - - - - - - - - - -
kepresentative.	Dr.	S ⁵ , 185 13 59, 185 13 745 18 2, 462 63 62, 392 94	
	Inventory.	S. c. 37,48 32 150,530 75 1,536 31 1,536 31 1,536 31 1,536 31 1,536 31 1,536 31 1,536 31 1,536 31 1,74 12 2,300 00 2,300 00 2,300 77 2,496 77 2,496 77 2,496 77 2,56,246 30	*
Trial balance.	Cr.	S c. 41b,848 63 1,156 11 3,569 11 3,569 11 3,563 16 1,196 61 584 65 22,243 73 443,440 72	• • • • • •
Trial b	Dr.	$\begin{array}{c} & & & & & & & & & & & & & \\ & 96,683&45\\ & 150,583&45\\ & 1,114&91\\ & 1,278&20\\ & 4,278&20\\ & 1,278&20\\ & 2,738&3\\ & 2,738&37\\ & 2,196&77\\ & 2,496&77\\ & 2,496&77\\ & 2,496&77\\ & 56,352&82\\ & 56,352&82\\ & 56,352&82\\ & & & & & & \\ \end{array}$	
	Name of Account.	Stock Maintenance Industrial plaut Shoe shop Tailor shop World shop World shop World shop World shop World shop The pigge shop The	Total

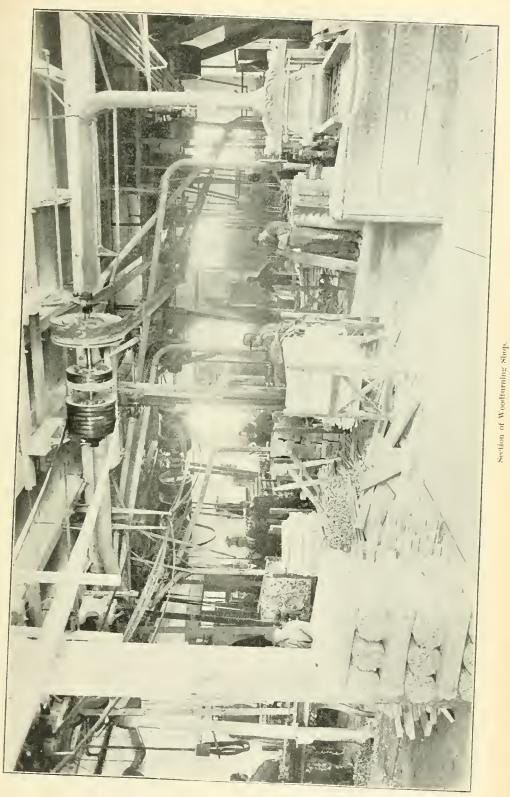
THE REPORT OF THE INSPECTOR OF PRISONS.

No. 39

Accountant.

J. O. ANDERSON.

Certified correct,



The health of prisoners has continued good, the management has been vigilant and active, and discipline and good order well maintained. The dietary has been wholesome and well served, and there have been no complaints from prisoners as to their treatment.

RELIGIOUS AND EDUCATIONAL.

The religious and educational work continue to be conducted with commendable interest and undiminished activity. The organization for conducting it is composed of earnest and capable men, with whom there appears to be no faltering, but a constant pressing on to teach with fulness the will of the Master toward erring men. The night school is efficiently taught, and few prisoners there are, except those committed for the shorter term, who fail to learn to read and write before the expiration of their sentence. With the good work begun within the prison the Salvation Army, with its widespread organization, has unequalled facilities for continuing when prisoners go out, by meeting them at the prison gate, and directing them to a place of employment, in or out of the city, as the case may be, and encouraging them to persevere in a better course of life.

The report of the Warden, as well as other reports in respect to prison service and work are herewith transmitted.

JAMES NOXON.

Inspector.

WARDEN'S REPORT.

TORONTO, October 6th, 1902.

MR. JAMES NOXON, Inspector of Prisons, etc., Toronto.

SIR,—Enclosed please find the Annual Report of the Central Prison for the year ending September 30th, 1902. The most gratifying feature of this statement is the continued decrease in our population. You will observe the daily average is forty inmates per day less than in the preceding year. This is due to a variety of influences, the chief of which is the prevailing good times throughout all parts of the province. It is satisfactory to know that a considerable number of former inmates of this institution are now living reputable lives and earning good livelihoods at trades taught them when here.

For some time past we have been impressed with the danger that exists from the spread of tubercle, resulting from prison life. There are institutions for the custody of the criminal insane, and in our humble opinion it is quite as important that there should be an institution solely for the tuberculous criminal. The only possible means of isolating a tuberculous criminal is to shut him up, and when we consider that fresh air is one of the indispensable means of treatment, close confinement would be cruelty in the extreme. If, on the other hand, the tuberculous subject is given the freedom of the prison yard, he is a source of contamination to his fellow inmates. In this prison where we discharge six hundred men annually, one can hardly realize the danger to society in general. While sanitarii are built and aided by the Government for the treatment of



tubercle, it is equally if not more important to prevent the spread of this dread disease. In the words of Milton,

"What boots it on one gate to make defence, And at another to let in the foe !"

During the past year, we have received valuable assistance from a large number of religious workers in the city. Our inmates have been greatly interested and benefited by their work. The night school at the Central Prison continues its successful course under the management of Mr. Spencer. I desire to express my appreciation of the loyal support I have received from the Central Prison staff in conducting the institution. Will you please accept my cordial thanks and convey the same to the Honorable, the Provincial Secretary for the kindness you have both extended to me on every requisite occasion.

I have the honor to be,

Sir,

Your obedient servant,

J. T. GILMOUR,

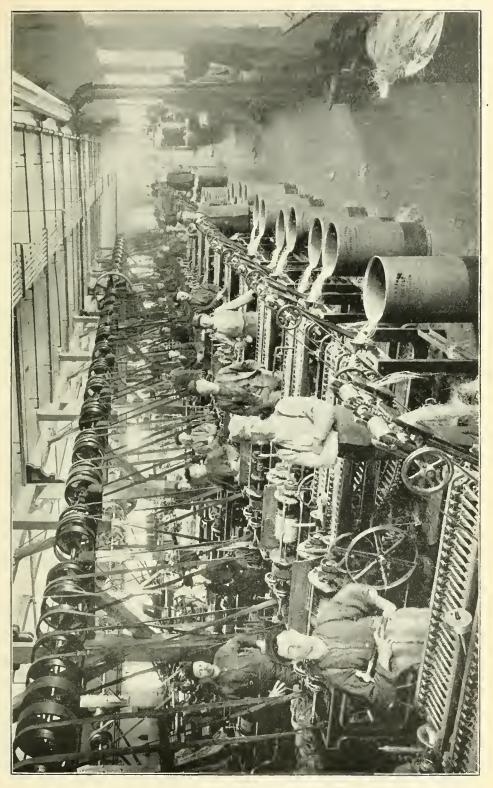
Warden.

ANNUAL STATEMENT OF EXPENDITURE.

On Maintenance Account at the Central Prison, Toronto, for year ending September, 30th, 1902.

Service,	Total expenditure, year ending 30th September, 1901.	Weekly cost per head.	Yearly cost per head.	Total expenditure, year ending 30th Ssptember, 1902.	Weekly cost per head.	Yearly cost per head.
Medicine and medical comforts Butchers' meat. fish etc Flour, bread, etc Butter, etc Groceries Fruit and vegetables Bedding, clothing and shoes Fruel Gas, oil, etc Lanndry, soap and cleaning Furniture and furnishings Farm, garden feed and fodder Repairs and alterations Printing, postage, stationery, etc Water supply	$\begin{array}{c} \$ & c. \\ 750 \ 42 \\ 7,883 \ 03 \\ 3,472 \ 58 \\ 437 \ 11 \\ 2,357 \ 57 \\ 1,236 \ 13 \\ 5,757 \ 61 \\ 2,838 \ 39 \\ 1,001 \ 54 \\ 1,644 \ 30 \\ 1,234 \ 54 \\ 1,356 \ 01 \\ 2,378 \ 88 \\ 557 \ 87 \\ 683 \ 92 \end{array}$		$\begin{array}{c} \hline \$ & c. \\ 2 & 06 \\ 21 & 60 \\ 9 & 51 \\ 1 & 20 \\ 6 & 46 \\ 3 & 38 \\ 15 & 77 \\ 7 & 78 \\ 2 & 74 \\ 4 & 50 \\ 3 & 38 \\ 3 & 72 \\ 6 & 52 \\ 1 & 53 \\ 1 & 87 \\ \end{array}$	$\begin{array}{c} 2,098 & 97 \\ 1,164 & 60 \\ 5,450 & 87 \\ 1,619 & 33 \\ & 861 & 43 \\ 1,865 & 56 \end{array}$	$\begin{array}{c} \hline \\ \text{cents,} \\ 1 \ 98 \\ 46 \ 30 \\ 21 \ 29 \\ 2 \ 37 \\ 12 \ 42 \\ 6 \ 88 \\ 32 \ 25 \\ 9 \ 58 \\ 32 \ 25 \\ 9 \ 58 \\ 5 \ 10 \\ 11 \ 04 \\ 3 \ 38 \\ 8 \ 67 \\ 12 \ 33 \\ 4 \ 13 \\ 4 \ 06 \end{array}$	$\begin{array}{c} 8 & c. \\ 1 & 03 \\ 24 & 08 \\ 11 & 07 \\ 1 & 23 \\ 6 & 46 \\ 3 & 588 \\ 16 & 77 \\ 4 & 98 \\ 2 & 65 \\ 5 & 74 \\ 1 & 76 \\ 4 & 51 \\ 6 & 41 \\ 2 & 15 \\ 2 & 211 \end{array}$
Library, schools and religious instruc- tion Miscellaneous Salaries and wages	914 05 1,364 08 26,051 07	$\begin{array}{r} 4 & 80 \\ 7 & 20 \\ 137 & 26 \end{array}$	$\begin{array}{r}2&51\\3&74\\71&37\end{array}$	$\begin{array}{r} 708 \ 07 \\ 1,449 \ 96 \\ 25,866 \ 66 \end{array}$	$\begin{array}{r} 4 & 19 \\ 8 & 58 \\ 153 & 06 \end{array}$	2 18 4 46 79 59
Totals	41,919 10	326 24	169 64	58,748 32	347 61	180 76

Total day's stay of prisoners, 1901 : 133,193, average, 365. Total day's stay of prisoners, 1902 : 118,500, average, 325.



	1900.	1901.	1902.
In custody at commencement of year (1st October)	374	391	340
Committed during the year	713	651	679
Transferred from Reformatory for Boys			
Recaptured	• • • •		••••
Total number in custody during the year	1,087	1,042	1,019
Discharged on expiration of sentence	664	639	625
" payment of fine	7	-4	12
" by remission of sentence	4	19	19
Transferred to common gaols as unfit for labor	2	1	7
Died in prison hospital	2		2
Transferred to a lunatic asylum		1	1
Removed to the Kingston Penitentiary	12		
Ticket of leave	25	38	48
Escaped			2
Remaining in custody	391	340	303
Total discharges, deaths, etc	1,087	1,042	1,019

The first table shows the committals and discharges during the past three years:

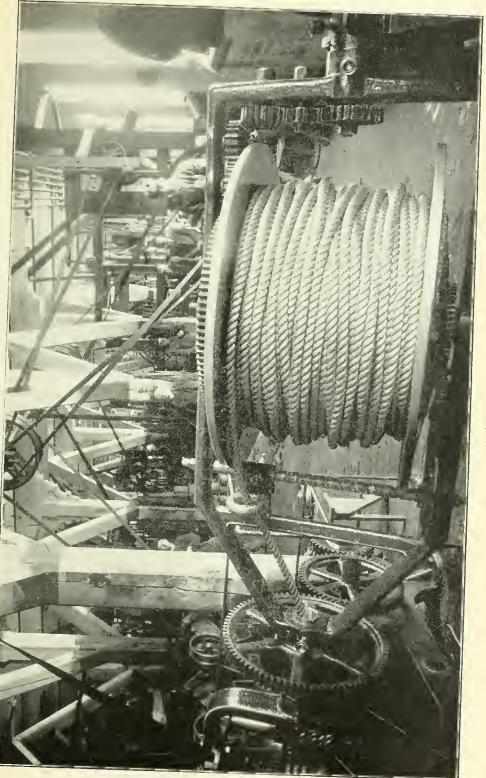
The number of prisoners sentenced direct to the prison, and of those sentenced to the gaols and afterwards removed to the Central Prison, is shown in the following summary:

	1900.	1901.	1902.
Sentenced direct	625	515	427
Transferred from common gaols		136	252
From Reformatory for Boys			
Total	713	651	679

Social Condition. Married Single	192	Total commitments. 5,660 13,190
	679	18,850
Habits.		
Temperate		4,341 14,509
Intemperate	679	18,850
Educational Status.		
Could read and write		14,880
Could read only		$1,240 \\ 2,730$
Could heither lead not write		
	679	18,850

The prisoners received during the year who were reported to be of temperate habits represented 29 per cent. of the commitments; in 1901 the percentage was 34.00.

The total uneducated men represented 10.75 per cent. of the commitments of the year as compared with 13 per cent. in 1901.



50

The table annexed shows how the prisoners were employed, and the number of days' work which was performed by them at the different industries:

	1901.	1902.
In the broom shop	18,897 days.	13,886 days.
" woodenware shop	21,025 "	23,090
" tailoring shop	2,643 "	3.762 **
" shoe shop	1,763 ''	1,405 ''
 machine shop, including blacksmith.) tinsmith and engineer's shop 	8,002 **	8,301 "
" south shop, woollen mill	3,956 **	3.306 **
" cordage shop permanent improvement and work on	31,396 ''	26,563
the gardens and grounds	6,203 ''	5,378 "
Number of days of productive labor	93,885	85,691
" domestic work	10,720	10.313
Total number of days worked	104,605	96,004

The proportion which the number of days of productive labor bears to the total stay of the prisoners during the two years will be seen in the following summary :

1901.	
Total stay of prisoners	133,193 days.
Number of days' productive labor	93,885
Proportion	70.48 per cent.
1902.	
Total stay of prisoners	118,500 days.
Number of days' productive labor	85,691
Proportion	72.31 per cent.

ANNUAL RETURN

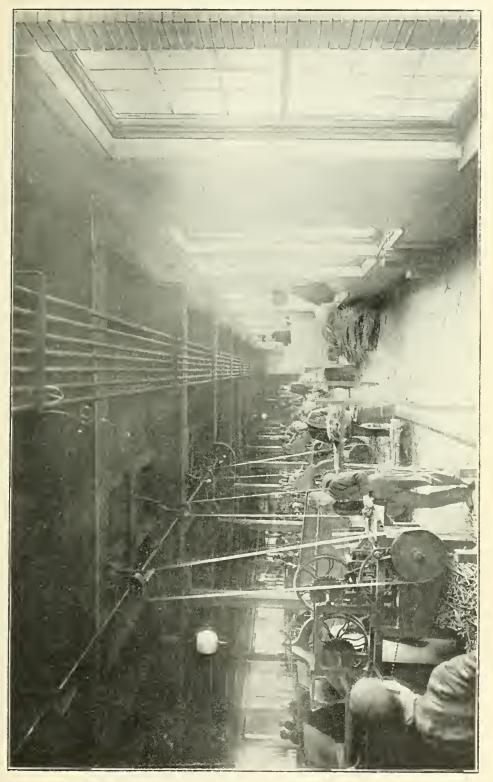
Of the Central Prison of Ontario for the year ending 30th September, 1902.

Remaining in custody 30th September, 1901 Committed during the year	$\frac{340}{679}$
	1,019
Discharged on expiration of sentence "payment of fine" remission of sentence "ticket of leave" Transferred back to gaol	$ \begin{array}{r} 625 \\ 12 \\ 19 \\ 48 \\ 7 \\ 2 \\ 1 \\ 2 \\ 303 \\ \end{array} $
	1,019

NATURE OF SENTENCE.

Sentenced direct to Central Prison or to Common Gaol.

To Central Prison direct	427
To Common Gaols	252



679

Number of times prisoners have been	in
Central Prison.	
lst	431
2nd	122
	59
	22
4th	
5th	11
6th	5
7th	6
8th	6
9th	2
10th	1
12th	2
14th	2
15th	1
18th	ī
106h	î
19th	7
Uncertain	1
	(1)
	679
Social Conditions.	
Married	192
Single	487
oungio	XO4
	67.9
	019
Education.	
No education	73
	14
Read only	592
Read and write	072
—	(10)
	67.9
Arres.	
Under 18 years	24
	64
From 18 to 20 years	
2010.00	275
001040	137
" 40 to 50 "	95
•• 50 to 60 ••	-49
" 60 to 70 "	- 33
" 70 to 80 "	2
	679^{-1}
TT 1 4	
Habits.	
Abstainers	7
Temperate	189
Intemperate	483
	679
Nationalities.	
Canada	455
England	74
Ireland	36
Scotland	20^{-1}
U. S. of A	73
Germany	7
Italy	2
Russia	4
	1
Hungary	$\frac{1}{2}$
Roumania	
France	
Manage of the second	1
Sweden	1
Denmark	

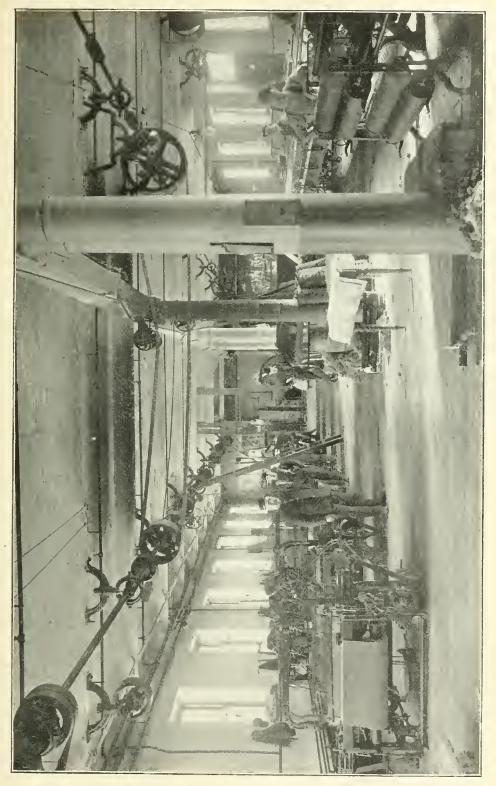
679

Sentences.

One month.															- 38
Two	months .														104
Three	6.6								į						79
Four	6														56
Five	6.6			ļ											22
Six	6.6														209
Seveu	6.6														5
Eight	6.6														10
Nine	e 6			•											22
Ten	6.6														1
Eleven	6 b														1
Twelve															64
Thirteen				•											3
Fifteen	6.6			•										٠	4
	6.6			•											
Sixteen				٠											2
Eighteen			•	•	•	٠	•	•		•	٠	٠	•	•	26
Twenty-two	6.6			•	•	•	•		•	•	•	•	•		1
Twenty-three	е "					•	•		•						12
Twenty-four															19
Forty-eight	4.4														1

Crimes.

Aggrvated assault	11
Abduction	2
Assanlt	- 35
Attempt to procure abortion	1
Arson	2
Attempt to wound	1
Attempt to steal	3
Attempted seduction	2
Attempt to kill a horse	1
Attempted suicide	1
Burglary	- 6
Burglary Ballot box stuffing	1
Bigamy	2
Defrauding	1
Drunk and disorderly	-51
Desertion	-4
Escape	- 4
Extortion	1
Forgery	8
False pretences	6
Fraud	1
House breaking	-12
Horse stealing	6
Indecent assault	-12
Interfering with police	1
Indecent exposure	9
Incendiarism	1
Inmate house of ill fame	4
Keeping disorderly house	õ
Larceny	170
Non support of family	-4
Obtaining money by false pretences .	5
Perjury	3
Procuring	1
Receiving	6
Robbery	2
Shop breaking	17
Seduction	2
Stealing cattle	4
Selling liquor without a license	1
Shooting with intent	2
Theft	100



679

Crimes.-Con.

Trespass	- 9
Threatening with intent	1
Using profane language	- 3
Vagrancy	140
Wilful damage	7
Wounding	8

	÷	_	ò	
ŧ	ŝ	11	u	

Occupations.

Agent	7
Butcher	(
Barber	6
Book-keeper	2
Blacksmith	F
Baker	
Broom maker	1
Boiler maker	- 2
Bell boy	1
Brakeman	- 2
Bar tender	1
Boot black	1
Carpenter	13
Cigar maker	-9
Clerk	12
Cabinet maker	2
Conductor	1
Commercial traveller	Ĵ
Cook	6
Carter	1
Cutler.	í
Cab driver.	1
Druggist	
Electrician	ē
Engineer	6
Farmer	18
Fisherman	10
File cutter	1
Fireman	6
Glass cutter	1
Groom	3
Gilder	1
Gilder. Glass blower.	2
Grinder	1
Grinder	2
Hostlan	
Hostler	· 1
Horse trainer	
Hatter	2
Knitter.	367
Laborer	
Laster	1
Lithographer	1 0
Machinest	
Merchant	4
Monlder	5
Mason	5
Medical Dr	1
	100
Music teacher	1

Optician]
Organ repairer	
Pedler	ł
Polisher	4
Paper Hanger	1
Plasterer	1
Photographer	4
Plumber	1
Porter	1
Painter	29
Shoemaker,	17
Steamfitter	1
Sailor	-
Stone cutter	4
Teamster	11
Trunk maker	1
Tailor	25
Tinsmith	
Waitar	è
Waiter	
Weaver	•

Counties and Districts.

Algoma	22
Brant	21
Carleton	27
Essex	9
Elgin	11
Frontenac	3
Grey	- 3
Halton	2
Hastings	18
Haldimand	11
Huron	2
Kent	18
Lennox	4
Lincoln	9
Lanark	4
Leeds and Grenville	19
Lambton	16
Middlesex	22
Muskoka	4
Nipissing	10
Northumberland	5
Norfolk	1
Oxford	12
Perth	4
Peterborough	3
Peel	5
Penetanguishene Reformatory	2
Simcoe	17
Stormont	4
Vietoria	5
Waterloo	11
Wellington	4
Wentworth	44
Welland	45
York	282
	(1 m C)

679



INDUSTRIAL DEPARTMENT.

Return shewing the number of days work rendered for the year commencing 1st October, 1901, and ending 30th September, 1902 :

Broom shop	13.886
North shop (wood working)	23,090
Woolen mill	3,306
Machine shop (including blacksmith and tinsmith)	8,301
Cordage mill	26,563
Garden and farm	4,124
Tailor shop	3,762
Shoe shop	1 405
Permanent improvements	1,254
	85.691

Domestic and Kitchen Department.

Return shewing number of days work rendered by domestics from 1st October, 1901, to 30th September, 1902 :

Prison domestics (cleaners, etc)	$7,073 \\ 3,240$
	10 313

Return shewing the number of days prisoners were in Hospital, convalescent and under punishment from 1st October, 1901, to 30th September, 1902;

Hospital Convalescent Confined in cells under punishment	. 579
	1.606

GENERAL SUMMARY OF DISTRIBUTION OF PRISONERS IN THE CENTRAL PRISON FROM 1ST OCTOBER, 1901, TO 30TH SEPT., 1902.

Industrial department	169,68
Domestics and kitchen department	10,313
Sick in hospital	-764
Sick in cells	579
Under punishment	263
Sundays and holidays	20,890

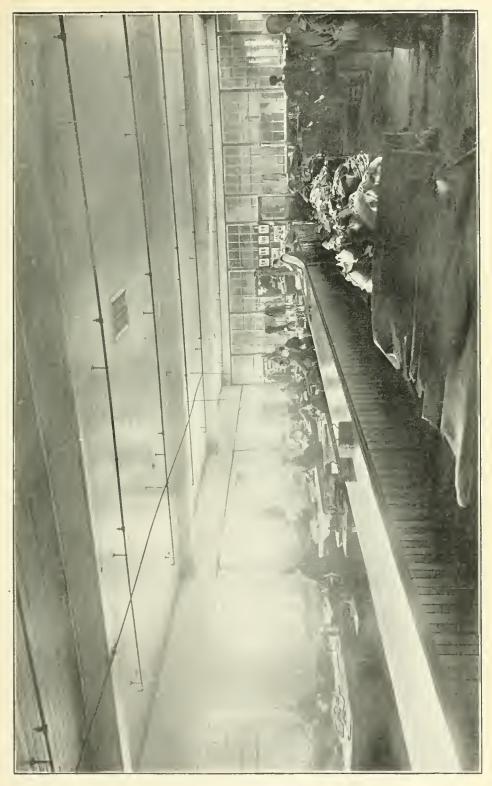
118,500

SURGEON'S REPORT.

JAMES NOXON, ESQ., Inspector of Prisons, etc.

SIR,—I have much satisfaction in being able to report that the Central Prison has been practically exempt from any serious epidemics during the past year; that no machinery accidents have occurred involving results more serious than the loss of one or two fingers, and that the condition of the prisoners as regards their health has been very satisfactory. We had two deaths during the year, one the result of a fall from the second gallery and the other from tumor of the liver. I have at different times inspected the food and found it wholesome and well cooked.

No. 39



Tailor Shop.

In accordance with instructions I have vaccinated all prisoners on entrance when evidence of previous vaccination was not apparent.

l wish to acknowledge the care and painstaking of the hospital guard in all matters pertaing to the Hospital and Surgery, and to the staff generally for the uniform courtesy shewn me in the discharge of my duty.

I have the honor to be, Sir,

Your obedient Servant,

WM. SLOAN, M. D.,

Surgeon.

SYNOPSIS FROM THE ANNUAL REPORT ON PRISON GATE WORK FOR VEAR ENDING SEPTEMBER 30th, 1902.

REPORT FOR THE PROVINCIAL GOVERNMENT, PROVINCE OF ONTARIO.

Number of men met and advised on day of discharge from prison	610
Number of men assisted on day of their discharge by temporary help or	
employment found them	449
Number of men professed conversion	148
Number of War Crys given away to men in prison10	,449

FREE LABOR BUREAU REPORT.

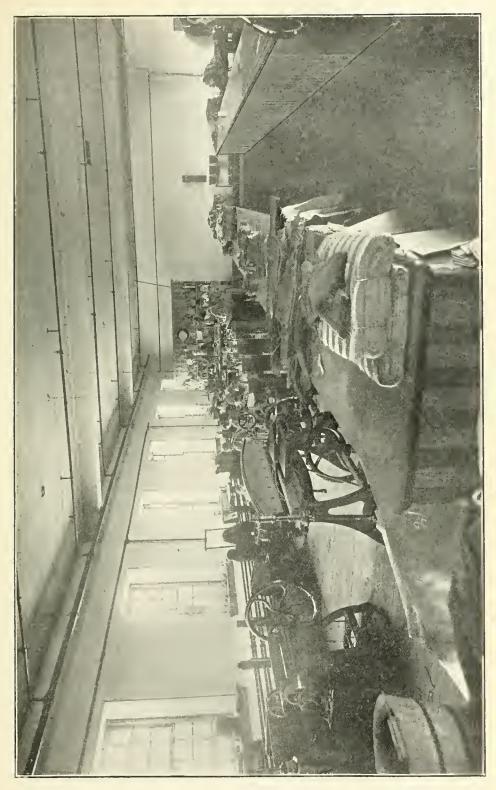
Temporary employment register			• •											• •				309
Permanent employment register																		
Ex-Prisoners	•••	• •	• •	•••	•••	•••	• •	• •	• •	• •	• •	•	•••	• •	•	• •	• •	449
Total																		1,032

FINANCIAL STATEMENT OF PRISON GATE WORK FOR YEAR ENDING SEPT. 30TH, 1902.

In	come.	Expenditure.
Grant from Provincial Government \$ 50	00 00	Salary \$ 400 00
	00 00	Help rendered to men croming
	42 30	from prison and families of
(Deficit) Grants from Headquarters		prisoners 1,415 58
Funds 77	73 28	N
Total \$1,81	15 58	Total \$1,815 58

While the above synopsis gives an outline of our work one of the points I would like to call your attention to is the Free Labor Bureau. Nothing has been received from any of the men placed in situations neither from the firms or individuals who have received help from the Free Labor Bureau. Many of the men applying to us have had to be assisted through our shelter until employment could be found for them. Our Free Labor Bureau is a splendid philanthrophy and will have in its grasp much to do with the social problem of the masses unemployed.

The appointment of Local Prison Sergeants at different cities, towns and villages of the Province who devote much of their time especially in the evenings procuring work for men coming from prison, also the taking a special interest in them, keeping them out of bad company, etc., has already proved a source of strength to our movement. The cordial help rendered by the prison officials has placed within our reach opportunities of helping men we could not otherwise have accomplished. We would make special mention of Warden Gilmour of the Central Prison, Warden Platt of the Kingston Penitentiary, Governor Van Zant of the Don Jail. These gentlemen in question have not



only interested themselves while men have been behind prison bars, but they have followed with deep interest our movement in taking hold of men from outside sources.

The financial statement is taken from the financial books of the Salvation Army, and all items of account are audited by public auditors.

Thanking you for past considerations.

I am, yours sincerely,

W. ARCHIBALD,

Major

ONTARIO REFORMATORY FOR BOYS.

INTRODUCTORY.

The number of inmates confined at the beginning of the year October 1st, 1901, 141, there was committed from 34 counties of the Province 40 inmates, discharged 9, apprenticed out 4, parloned 50, transferred to the Central Prison 2, escaped 4, the total number of inmates released from all eauses for the year ending September 30th, 1902, 69, leaving the population on the latter date 112.

The following tables will furnish information showing the number of commitments made to the reformatory as well as those released by having served their full term of sentence, by being apprenticed out, by being transferred to the Central Prison, by being pardoned, and those who escaped. Of the escaped none have been recaptured and returned. The especially noticeable feature in the movements of population, is, that the number pardoned was twenty-five per cent. greater than the total number of commitments for the year.

THE SCHOOLS.

The school is in charge of two capable teachers and is making satisfactory progress. The discipline is good, the attention given to study is active, and with an evident desire for advancement. The teaching is of a specially practical character, as the conditions demand, being to those attending, the finishing schoolin the lives of most, if not of them all, and an apparent consciousness of this gives a sober earnestness to school work, which is reflected in the steady progress made. The teaching on the mental and moral side of life receives much attention, but on the industrial, and may say, the resourceful side is weak, and something should be done to bring it into greater activity. Not only for the advantage of the boys is this necessary, but it is likewise beneficial in maintaining discipline in the institution. The pressing and special need of the institution is, that a course of manual training be introduced and extended to a considerably wide range of handicraft, with classes in Sloyd, to make it practical and effective. Were this system pursued, the dormant abilities, and any special aptitude posse-sed by the boys, would be brought into exercise, and the training of whatever is found best in them, would supply an equipment, with which, on going out into the daily life of the world, they would do so with courage, and with confidence in their ability to maintain themselves in the industrial struggle awaiting them. It is to be remembered that of those sent out from this institution, the greater portion of them will return to the community in which they formerly lived, and will in their after life prove themselves either a useful or a hurtful member of it, that they will be a factor in government, have a part in shaping our laws, and exerting an influence for good or for evil in many directions.

THE FARM, GARDEN AND GROUNDS.

The farm has had the area under cultivation increased, and the crops yielded well. The potato crop however suffered heavily from the potato rot which has prevailed everywhere throughout the country. The garden has given a plentiful supply of its produce to meet the institutional needs, and the grounds have been maintained in excellent condition.

The several reports in connection with the work of the institution are herewith transmitted.

JAMES NOXON.

Inspector.

ONTARIO REFORMATORY FOR BOYS.

The summary given below shows the operations of the Reformatory during the year as well as the two preceding ones.

	1900	1901	1902
Number in residence at beginning of year (1st October) Admitted during year Returned after escaping	$ \begin{array}{c} 128 \\ 66 \\ \dots \end{array} $	$145 \\ 63 \\ \cdots$	$\begin{array}{c} 141 \\ 40 \\ \cdots \end{array}$
Total number in residence	194	208	181
Discharged according to sentence Apprenticed Reprieved Escaped Transferred to Central Prison "Orillia Asylum Discharged on Judge's order	$ \begin{array}{r} 14 \\ 5 \\ 24 \\ $	24 3 38 1 	9 4 50 4 2
	49	-67	
In residence at close of year (30th Sept.)	145	141	112

PENETANGUISHENE, Nov. 23rd, 1902

Sir,—Herewith I have the honor to submit my report for the year ending 30th September, with statistical tables appended. Enclosed also are the reports of the chaplins; of the district school inspector and those of the school teachers.

Remarks.

Twenty years ago, viz., 1882, the statistical tables forwarded with the report of that year, showed that there were in residence at end of official year 263 inmates. During these twenty years there has, year by year, been a gradual decrease in our resident population resulting, as will be observed from this year's tables, in our now having considerably less than one-half viz. 112, in charge. A variety of causes tending towards such decrease may here be noted; one of these being the pleasing fact that juvenile delinquency has also, throughout the Province, been decreasing. Other reasons also for the large reduction in numbers emphasized are, the suspended sentence, and the establishment of the Industrial Schools, together with the somewhat extensive and comprehensive legislation underlying these institutions. Besides these, other movements, in character more than questionable, not to say unjustifiable, have been and still are in operation; but as these have--through other channels of communication-been dealt with, we will not further disturb ourselves in this relation, except to deplore the fact that so far, apparently, no checks have been applied to the movements, etc., in question or, if so, these, in no manner, have proved to be as effective as would be desirable; still "Labor overcomes all things."

Again referring to the statistical tables for this year a pleasing feature in relation therewith is worthy of special notice, and that is the number pardoned and apprenticed out during the year; also the, proportionately small number held until expiration of sentence compelled discharge. The figure 9 represents the latter—54 the former; 50 of these being pardoned by the Executive— Federal or Provincial—4 being apprenticed. Whether apprenticed or pardoned, meritorious conduct and satisfactory progress throughout were the qualifications demanded of those so favored. Compare those figures with those of 1882. Our average population for that year, as already shown, was 263, yet 15 only of these were deemed worthy of recommendation as being fit subjects for the exercise of Executive elemency, just 6 per cent. of the number then in charge. Of course at that early day the milder system of discipline had not been in full operation; the initative steps towards its introduction being taken less than two years preceding.

Connected with the introduction of the paternal system above referred to, there were many disturbing eauses calculated to produce disorder and militate against quiet progressiveness. These were consequent on the structural changes and the erection of additional buildings which the new system of discipline then made requisite. Whilst these changes and extensions were in process, many strangers, workmen, were within our gates and not a few of those required careful and continuous watchfulness in order that no underhand work in conjunction with the inmates should go on without check or hindrance. One man, a carpenter, was convicted of receiving tools from one of our boys and committed to Barrie jail. Besides these drawbacks towards progress in the earlier days there were others equally serious, and, in character, far reaching, hence difficult to have remedied. Regarding latter, reference is made to the guards and keepers, as then termed, composing, at that time, the staff; the majority of these owing to then existing environment being firm believers in the stern, exacting discipline, at this period, in vogue. They had more faith in the salutary effectiveness of the cat-o'nine tails and the dungeon than in the firm remonstrance accompanied by kind encouraging words, looks and actions. Pardon for first and unpremeditated offenee was in their eyes madness and subversive of all authority. Prompt and condign punishment was their panacea for boyish waywardness. To have sought wholesale dismissal in connection with this state of affairs would have been unwise if not cruel and ill considered, hence it became our duty to bear ourselves patiently and to endeavor to eradicate from their minds, by precept and example their faith in the ruling of the iron hand. We were made happy at finding that a considerable number proved responsive to the teaching that the judicious pardoning of juvenile offenders, followed by firm, kindly advice and admonition was a more restraining influence and better reforming agent than eorporal punishment or dungeon treatment. Of course now and again there were then extreme cases occurring demanding the old time drastic remedy in order to awaken the offenders to a lively and proper sense of their duty to themselves and to those also charged with their well being; these cases going to prove that revolutions, no matter how beneficient their object may be, will always have opposing forces requiring that the strong hand be, at times, in evidence and available. Have been led to these reflections in order to account for the low percentage of pardons in 1882 as compared with 1902 and also as a lead-up towards the giving of a descriptive outline of the in-

dustrial training to which the inmates were subjected in former year and in the two years immediately following the change in discipline above referred to. For some time before our appointment to present position the building now used as a recreation hall was devoted to the making of cigars; quite a number of the then inmates being farmed out to the contractor engaged in the manufacture of the soothing weed into that somewhat popular article of commerce. Beyond adverting to the fact that an inmate found using or having concealed about his person any portion of the leaf was subject to the lash will not further dwell on this not agreeable subject. A match making industry had been substituted after cigar contract had expired or been annulled. Excepting that the temptation to steal was not so great as in the handling of the tobacco leaf, yet the substitution was not much of an improvement, there still being inducements towards dishonest practices; not the least being the fact that a fixed number of match boxes had to be filled each day by those engaged in this work. To many of the lads the task was irksome and difficult to accomplish, hence stealing from other boys more deft and also from the room where the proceeds of the preceding days task had been stored, was rife, no matter how watchful were those in charge. This industry was neither healthful, attractive or, in any way usefully educational. Besides under agreement with the contractor a certain number of cases of matches had to be produced daily else damages would be claimed. This compelled that all connected therewith should be exacting taskmasters; hence the mild parental discipline presumed to be in continuous practice was thereby necessarily subverted. One other industry under contract was at same time in operation viz., the manufacture of broom handles and clothes-pegs. This also, owing to many causes not now necessary to particularize, proved to be the reverse of profitable, or in any way, of value from the standpoint of useful industrial training for the inmates engaged thereat and it was wisely decided that its operation should cease. Since then until now our industrial operations have been confined within the limits of our domestic requirements and as you are fully aware as to the extent and usefulness of these, further particulars respecting them are unnecessary.

But, hark! A spirit has been breathing over the waters of the stagnant 'Hownotodoit'; and we are encouraged, by present foreshadowings, to entertain the hope that the baneful influences of the waters so named and described will—through changes in their course and character—become so transformed, by the breathings of the spirit referred to, as to justify a change of name. This can be accomplished by simply withdrawing the negative syllable and through this simple process these waters will in future be known as the Howtodoit. "A consummation devoutly to be wished for."

In conclusion will refer you to the reports of the Rev'd chaplains in respect to the moral status of the inmates in their respective spiritual charge. Also to those of the school inspector and of the teachers respecting the mental progress during the past year.

Just a few words more. Have pleasure in conveying to you that our farming operations for the year, in respect to quantity and quality of products, have been of the most satisfactory character. Success in this relation is the more marked, through the past season, owing to its wetness, not being propitious generally. Yet to our rolling land with its sandy soil the unusual rain-fall was most acceptable.

I have the honor to be, Sir,

Your obedient servant,

JAMES NOXON, ESQ., Inspector of Prisons, etc. Toronto. THOMAS MCCROSSON,

Superintendent.

STATISTICAL TABLES.

Showing the operations of the Reformatory for the year ending 30th September, 1902:

September, 1902 :	
In residence 1st October, 1901	
Admitted during the year	40
	181
Discharged according to sentence	
Apprenticed out	
Pardoned	
Transferred to Central Prison	
Escaped	
	();/
Remaining in residence, 30th Sept	ember, 1902
-	Periods of sentence.
Ages when committed.	Provide the second second second second second second second second second second second second second second s
3	1 year
5 13 " 11 14 "	3
11	5 "
8at	1 year to 5 years 4
1 17 ···	2 years to 5 years 2
1 18 "	3^{-1} · · 5^{-1} · · · · · · · · · · · · · · · · · · ·
	2 \cdots 4 \cdots \ldots 1
4()	Indefinite period not to exceed 5 years. 13
t	Total 40
Crimes for which the 40 boys were convi	ieted and sentenced to the Reformatory :
	Incorrigible 3
ATOMI	Larceny
integrating, the congradient of the second sec	Picking poekets 1
Conspiracy 1 Forgery 1	Shopbreaking 1
Horse stealing	1 0
Housebreaking 1	Total 40
	hich the 40 commitments were made
	men the 40 communicates were made
during the year :	
Algoma District 2	Northumberland and Durham 2
Brant 2	Waterloo 1
Carleton	Wenowolth
Frontense 2	The other states and s
110.0010120 ********************************	in chiligton
Lennox and Addington	. York
ATRONOSCA	Total
Itomore the second se	
Counties of the Province from w	which the 112 boys now in residence
originally came :	
Algoma District 4	Norfolk 2
Brant	Northumberland and Durham
Bruce 2	Ontario
Carleton 11	Oxford 1
Essex 3	Peterborough 4
Frontenac 4	Prescott and Russell.
Grey	Simcoe
Halton 1	
Hastings	Thunder Bay
Huron 1	Thunder Bay
Kent	Waterloo
	Wellington 1
1,6110.001	Wentworth 4
Leeds and Grenville	York
Lincoln	
Middlesex	Total 112
Muskoka 2	

Commitments.	Year.	Number	Number at close of year.	Commitn	nents.	Year.	Number	Number at close of year.
Commitments in	1867	55	170	Commitments	iu	1885	51	220
£1.	1868	59	173	6.6	1	1886	64	205
••	1869	47	170	6.6		1887	60	192
4	1870	41	193	6.6		1888	71	193
44	1871	48	155	6.5		1889	85	210
4.	1872	48	158	6 b		1890	63	210
66	1873	31	130	6.6		1891	65	185
**	1874	51	139	6 S		1892	67	168
14	1875	71	173	6.6		1893	62	173
66	1876	47	183	6.6		1894	51	152
54	1877	75	195	6.1		1895	57	147
4.6	1878	69	196	6.6		1896	55	145
£4	1879	57	206	6.4		1897	37	123
66	1880	80	216	6.6		1898	52	125
	1881	96	250	6.6		1899	63	128
	1882	84	263	6.6		1900	66	145
5×	1883	58	245	66		1901	63	141
66	1884	81	242	6.6		1902	40	112

Number of commitments since Confederation :

The Province of Ontario in account with "The Ontario Reformatory for Boys," from October 1st, 1901, to September 30th, 1902.

Service.	Total expenditure for year ending Septem- ber 30th, 1901.	Weekly cost per head.	Yearly cost per head.	Total expenditure for year ending Septem- ber 30th, 1902.	Weekly cost per head.	Yearly cost per head.
	\$ c.	\$ c. m.	8 c.	\$ c.	\$ c. m.	\$ c.
Medicines and medical comforts Butchers' meat, fish, etc Flour, bread, etc Groceries and other provisions Bedding, clothing and shoes Fuel Light and water Laundry, soap and cleaning Furniture and furnishings Farm and garden Feed and fodder Repairs and alerations Printing, postage, stationery and advertising Chapels, schools and Library	$\begin{array}{r} 42 & 08 \\ 843 & 61 \\ 1,766 & 77 \\ 417 & 12 \\ 1,813 & 11 \\ 5,095 & 10 \\ 1,329 & 80 \\ 165 & 30 \\ 495 & 18 \\ 82 & 18 \\ 639 & 04 \\ 375 & 55 \\ 333 & 80 \\ 186 & 38 \end{array}$	$\begin{array}{c} 6\\ 11 \ 6\\ 24 \ 3\\ 5 \ 7\\ 25 \ 0\\ 70 \ 0\\ 18 \ 3\\ 2 \ 3\\ 6 \ 8\\ 1 \ 1\\ 8 \ 7\\ 5 \ 2\\ 4 \ 6\\ 2 \ 6\end{array}$	$\begin{array}{c} 31\\ 6 & 03\\ 12 & 64\\ 2 & 96\\ 13 & 00\\ 36 & 40\\ 9 & 52\\ 1 & 20\\ 3 & 54\\ 57\\ 4 & 52\\ 2 & 70\\ 2 & 70\\ 2 & 39\\ 1 & 35\\ \end{array}$	$\begin{array}{r} 47 & 30 \\ 740 & 19 \\ 1,316 & 01 \\ 350 & 07 \\ 3,316 & 17 \\ 562 & 96 \\ 1,610 & 48 \\ 291 & 55 \\ 352 & 63 \\ 163 & 27 \\ 477 & 86 \\ 428 & 49 \\ 393 & 15 \\ 206 & 06 \end{array}$	$\begin{array}{c} 7\\ 11 \ 7\\ 20 \ 7\\ 5 \ 5\\ 51 \ 1\\ 8 \ 9\\ 25 \ 2\\ 5 \ 6\\ 2 \ 6\\ 7 \ 5\\ 6 \ 8\\ 6 \ 1\\ 3 \ 2\end{array}$	$\begin{array}{c} 39\\ 6 & 02\\ 10 & 70\\ 2 & 84\\ 26 & 96\\ 4 & 58\\ 13 & 09\\ 2 & 37\\ 2 & 87\\ 1 & 33\\ 3 & 88\\ 3 & 48\\ 3 & 19\\ 1 & 67\end{array}$
Workshop, tools, etc	$\begin{array}{ccc} 60 & 02 \\ 10 & 00 \end{array}$	8	42 05	101 83 68 50	17 11	83 56
Rent allowance to guards Freight and express Officers' travelling expenses Miscellaneous Salaries and wages	$\begin{array}{r} 45 & 00 \\ 130 & 77 \\ 139 & 35 \\ 1,327 & 89 \\ 14,173 & 49 \end{array}$	$egin{array}{c} & & 6 \\ & 1 & 7 \\ & 1 & 9 \\ & 18 & 2 \\ 1 & 94 & 7 \end{array}$	31 88 99 9 46 101 24	87 95 96 95 1,309 80 13,246 37	$ \begin{array}{r} 1 & 4 \\ 1 & 6 \\ 20 & 5 \\ 2 & 07 & 1 \end{array} $	$\begin{array}{r} 72\\79\\10\ 65\\107\ 69\end{array}$
	29,471 54	4 04 8	210 48	25,167 59	3 93 5	204 61
Average number of inmates, 1901						

SCHOOL EXAMINATIONS.

ORILLIA, Oct. 18th, 1902.

SIR,—I have the honor to offer for your consideration, the Annual Report of my Inspection of the schools at the Reformatory for Boys, Penetanguishene. During the present year I visited the schools there twice, once in April and again in October. At both my visits I examined all the classes in most of the subjects usually taught. Of course I spent most of my time on the important subjects, such as arithmetic, composition, reading, spelling, writing and literature. I tried to find out not only what the boys were taught but how they were taught, the discipline, and order maintained. In fact I tried to find out whether they were being educated in an intelligent manner so that when they may leave the Institution they shall be equipped as well as under the circumstances they can be to meet the varied circumstances of life. I asked: "Are these boys being trained to control themselves better,—to control their desires, their passions, their bodies as well as their minds?" Unless they are, the school room life is nearly a failure.

At both my visits I left the building satisfied that the boys' time was not being lost. The same teachers are there now that were there last year, viz. Messrs. Wright and Lonergan. I believe these are two conscientious men who are doing their duty as well as they can and with very good success. Both of them are good scholars, the possessors of provincial certificates of high grade. Both have had long and varied experience as teachers.

With such teachers there, the boys that are capable of progress make progress just about as fast as children do in the public schools. In such subjects as writing, composition, spelling and literature, the results were quite satisfactory. In arithmetic the results were fair.

> I am, Sir, Your obedient servant,

> > ISAAC DAY, B.A., Inspector of Public Schools.

JAMES NOXON, ESQ.,

Inspector of Prisons, etc., Toronto.

ROMAN CATHOLIC SCHOOL MASTER'S REPORT.

PENETANGUISHENE, Oct. 1st., 1902.

S1R,—I have the honor to submit my second annual report of Catholic School for year ending September 30th, 1902.

During the year twenty were received and forty-one discharged. Out of those received thirteen were below the senior second, and out of the forty-one discharged only one was lower. In every case, those received had not been attending school immediately before being sent here. Hence we see that idleness is a precursor of crime.

The behavior of the boys in school is very good. Not one boy has refused to obey. When new boys start to school, it is only natural for them to imitate the example of the others attending; consequently when the conduct of those attending is good, it is not a hard task to have new comers do likewise.

The discipline exercised in the Institution trains a boy to do right. He becomes obedient and industrious. The neglect of cultivating these qualities outside leads a boy into trouble. The Public School programme is closely followed here, but subjects which will be of the most practical use to them are given especial attention. Christian doctrine is taught to all.

The enclosed tabulated statement shows the attendance, changes, and position in classes during the year.

I have the honor to be, Sir,

Your obedient servant,

JAS. LONERGAN, Catholic Teacher.

Statement showing number in each class September 30th, 1901, and same in classes September 30th, 1902.

	Number in		Position in classes September 30th, 1902.							
	each class September 30th, 1901.	Junior first.	Senior first.	Junior Lecond.	Senior second.	Junior third.	Senior third.	Fourth .	Went out.	
Fourth Senior third Junior third Senior second Junior second Part II Part I Total	$ \begin{array}{r} 7 \\ 15 \\ 10 \\ 10 \\ 10 \\ 13 \\ 5 \\ \hline 70 \\ \end{array} $								$ \begin{array}{r} 7 \\ 11 \\ 4 \\ 9 \\ 1 \\ 5 \\ \dots \\ 40 \\ \end{array} $	

PROTESTANT SCHOOL MASTER'S REPORT.

ONTARIO REFORMATORY FOR BOYS,

PENETANGUISHENE, Oct. 22nd, 1902.

SIR,—I have the honor to submit my third annual report in connection with the Protestant School for the year ended Sept. 30th, 1902.

The year has been marked as one of progress in our school work. Since assuming my present position I have never had more encouraging results. It is gratifying to notice that the number of cases of punishment has been smaller than in any of the past three years.

The curriculum for Public Schools in Ontario is adhered to. General information, likely to be of use to the boys in after years, is imparted. The interest of the majority of the boys themselves take in their work is shown by their eagerness to learn and the attention which they pay. But the more I study our work, the more I am convinced, that, while a common school education is of great advantage to any boy, it does not supply all the elements of a successful reformative plan, and unless supplemented by faithful and prolonged industrial training no lasting benefit has been derived to the inmate committed to an institution of this kind.

The high standard of discipline of the Institution maintained from year to year is of invaluable assistance to the teacher in his work.

Your obedient servant,

MR. JAMES NOXON, Inspector of Prisons, Toronto. DAVID T. WRIGHT, Protestant Teacher.

	in each Oct. 1st, 901.		Pos	ition in	Classe	s Sept.	30th, 1	.902.		out.
	Class 19	Jr. I.	Sr. I.	Jr. II.	Sr. II.	Jr. III.	Sr. III.	IV.		Went
Fourth Senicr Third Junior Third Senior Second	12	••••				••••	1	4 3 3		4 8 2
Junior Second Senior First Junior First	$\begin{array}{c} 24 \\ 20 \\ 2 \end{array}$		6 2	8	9 4	6	•••••	1	· · · · · · · ·	82
Total	71		8	8	13	6	1	11		24

Statement showing the number in each class Oct. 1st, 1901, and the same in classes Sept. 30th, 1902.

ROMAN CATHOLIC CHAPLAIN'S REPORT.

PENETANGUISHENE, Nov. 23rd, 1902.

TO THE INSPECTOR OF THE ONTARIO REFORMATORY FOR BOYS.

SIR,—I have the honor to submit my report as Catholic Chaplain of the Ontario Reformatory for Boys for the year 1902.

I may say that as far as the routine of the work is concerned, it was regularly and faithfully performed; saying Mass for the boys on Sundays and holidays, giving religious instructions on Sunday afternoons, etc., etc.

I must give testimony to the boys that during Mass and any other religious service I have only praise to give them for their devout and attentive behavior. Both their spirit of faith and religion and the discipline under which they are trained make it easy for them to conduct themselves with decorum and reverence at the religious services, and even at religious instruction, outside of Mass, where more freedom is allowed, I have had no cause to send any of the boys for punishment.

I do not forget that the purpose of this Institution is the reformation of boys. Then, besides the duties mentioned above, I make it a practice to see the boys individually and collectively at other times and when they arrive and when their time expires, endeavoring to cooperate with the authorities more especially in charge of the Institution.

The boys are the better to have been here for a certain time, better for them than to have been left at large in the world. They are here under strict, thorough parternal discipline of order and obedience, there is method and rule in the way they are trained, and they cannot but contract good habits of life, and as the surveillance is constant and continuous, day and night, the possibility of contracting bad habits is reduced to a minimum.

I am satisfied that the boys are well disposed and that there is nothing to raise the cry of *Delenda est Carthogs* we have heard more than once in the press. I am sure that when they leave the Reformatory they purpose to lead a good and useful life, and I am satisfied that a large majority of them persevere in their purpose that they become useful and law-abiding citizens of this or any country, and I am satisfied they can compare not unfavorably with any boys of the same class.

I, as Catholic Chaplain, resent the denunciations made this year in the press by certain individuals as unjust, not founded on facts by men who have no opportunity to know, is it perhaps, as it was mentioned in some interview in some paper, because the head of this Institution being a Catholic there is fear of undue influence towards non-Catholic boys. This could not be done without my being a party to it, and I denounce it as a vile, slanderous insinuation. If such apprehension exists or is pretended to exist in the minds of a certain class of people the men that denounce the Reformatory should be, and I am sure, are above this.

Be this as it may, I will continue to do my duty towards the boys under my charge, and I hope and trust that, though they may not be saints, they may compare favorably with any class of boys that had a better opportunity.

I have the honor to be, Sir,

Your obedient servant,

TH. F. LABOUREAU,

Catholic Chaplain.

PROTESTANT CHAPLAIN'S REPORT.

PENETANGUISHENE, November 23rd, 1902.

TO THE SUPERINTENDENT OF THE ONTARIO REFORMATORY FOR BOYS.

DEAR SIR,—I have pleasure in presenting you with my annual report, as the Protestant Chaplain of this Institution, for the year ending September 30th, 1902.

I am glad to be able to say that in my work as the overseer of the moral and religious interests of the boys under my charge, this has been the most satisfactory of any year of my Chaplaincy—during the year over forty boys, of their own accord and unsolicited by me, have come to me asking for special religious instructions, and I have now two large classes with whom I meet weekly to give them instruction and encouragement in religious life. I believe them to be as sincere as the same number of boys gathered anywhere would be. Of course they are young, and exposed to temptations as all are, nevertheless I fully believe that this class training will be of lasting benefit to them. I am the more hopeful because on their part their stand is purely voluntary. There is no excitment about it. Surely God's blessing is with us. Of the other boys I have no fault to find. Some of them are wild and mischievous, a few are bad, but on the whole they are attentive, usually, in religious services, and often seem deeply interested.

Notwithstanding the untrue and unkind things that a few people, who are ignorant of our work, and without experience in handling juvenile criminals, say about this Reformatory fully possessed of the facts as to its management, and discipline as I am and familiar with the course pursued by those who leave here. I know, that it is doing a grand work. Fully seventy-five per cent of those who are discharged go out and live law abiding, consistent, and often Christian lives. Those who fall back into crime after leaving here, are gathered out of this twenty-five per cent, on whom we do not count, but were we to parade in public addresses and in the press, the names and doings of this honored class of seventyfive per cent of our boys who are doing well, in various parts of our Dominion. in the U. S. and even in England, and South Africa, our critics would have a poor showing. But we are content to do our work faithfully, and let them harp away.

Take into account the families that most of our boys come from, and the results of our work are, to say the least exceedingly creditable.

Sincerely Yours, S. CARD, Protestant Chaplain.

SURGEON'S REPORT.

PENETANGUISHENE, Oct. 1st, 1902.

SIR,—In submitting the Medical Report of the Ontario Reformatory for Boys for the year ending Sept. 30th, 1902, I am glad to be able to say that we have had no deaths during the year, and that the health of the boys has been as good as could be expected.

Although we have the ordinary amount of sickness we have had no contagious diseases, except measles and chicken-pox, and this is the fifth year without a death in the Institution.

Measles was brought in by one of the new boys and during the months of February and March we had fourteen cases before the disease was under control. During the months of April and May we had a number of cases of chicken-pox.

We had four cases of rheumatism and one of appendicitis and all made good recoveries.

The other cases of sickness consisted of la grippe, quinsy, sore throats and colds, with the ordinary number of sprains, etc.

It was during the spring and fall months that most cases of la grippe and sore throats occurred, but by being placed at once in the Hospital they were soon attending to their work again.

Small-pox broke out in the two adjoining townships but the boys have been vaccinated when required.

The boys are looking well and strong, and go about their work and play in a manner that shows that they take an interest in the one and fully enjoy the other.

I have the honor to be, Sir,

Your obedient servant,

JAMES NOXON, Esq., Inspector.

Surgeon.

P. H. SPOHN,

ANDREW MERCER ONTARIO REFORMATORY FOR FEMALES.

INTRODUCTORY.

The committeents during the year were 117 as against 130 the previous year. The number in custody at the beginning of the year was 60 and with the committeents including 4 transferred from the Refuge for Girls, the total in custody during the year was 181. There was discharged during the year 104, two of the number being paroled, one on payment of fine and one pardoned, transferred to public hospital one, to insane Asylum 3, to the Refuge for Girls 2, returned to gaol as unfit for work 2, and 69 remained in cusody at end of year.

Of the total number committed 87 were sentenced direct, 34 were committed to and transferred from county gaols, and as regards social condition 54 were married, 20 widowed, and 47 single, 47 were temperate, 74 intemperate, 70 could read and write, 31 read only, and 20 were illiterate.

The ages were, 10 under eighteen years: 9 between eighteen and twenty: 38 between twenty and thirty; 33 between thirty and forty: 18 between forty and fifty: 8 between fifty and sixty, and five were over sixty years of age.

The number of girls in Refuge for Girls at the beginning of the year October 1st, 1901, was 75, sentenced direct during the year 21, transferred from Reformatory 3, and the total number in custody during the year was 99. Of the total number 11 were discharged by expiration of sentence, 10 by remission of remainder of sentence, 4 were transferred to the Reformatory, 1 was apprenticed out and 1 was transferred to the department of Dependent and Neglected Children, leaving 72 remaining at close of year September 30, 1902. Of the total number admitted 22 could read and write and 2 were illiterate.

The combined daily average population of the Reformatory and Refuge was 141 as against 136 the preceding year.

The renewal of plumbing to improve sanitary conditions throughout the institution has been completed, but much remains to be done to reconstruct and to refurnish the laundries and work rooms and to equip with more modern furnishings, replacing that now mostly worn out, and obsolete, and this should be carried out the coming year. Laundrying is the chief industry carried on at the institution, and the existing sanitary conditions under which this has to be done, are such, that the health of all engaged in it, both attendants and inmates, suffer severely from it. Further improvements are also necessary for the more complete classification of inmates, and for the isolation of those amongst them who are uncontrollable by ordinary methods of correction and to prevent the subversion of order and discipline. Attention is given to the industrial employment of inmates, not specially on account of the intrinsic advantage in point of greater revenue, although this is certain to follow, but as being conducive to good order and introversion of mind favorable to the reception and growth of reformatory influence, and to the improvement of discipline.

JAMES NOXON,

Inspector.

JAMES NOXON, ESQ.,

Inspector of Prisons.

SIR:—I have the honor to submit the twenty-second annual report of the Andrew Mercer Ontario Reformatory for Females, for the year ending September 30th, 1902.



In the classified tables annexed will be found the figures showing the number of inmates committed, their social condition, class of crime and length of sentence, while other tables set out the methods of employing the women, the amount of work done by them, and the profit resulting therefrom.

I would respectfully beg to draw your attention to the average length of sentences given; to the kinds of employment provided, the character of the women's surroundings, and incidentally the profit of their work.

First—The average length of sentence—Six months and twenty-eight days is the average length of sentence of a woman committed to this institution for reformatory treatment. Consider in conjunction with this that two-fifths of the committals are for drunkenness, or drunk and disorderly. It is submitted that the task of reforming under these circumstances must be well-nigh hopeless. Yet another consideration: Of the 121 females committed during the past year only 53 were sent for the first time. One was committed for the seventeenth time, under sentences varying from 30 days to 6 months. She is now but 38 years of age. Her committals, as you will perceive show a rapid descent from vagrancy to prostitution. Within these extremes we have 22 women sent for the second time; 17 for the third; 8 for the fourth; 3 for the fifth; 2 for the sixth; 4 for the seventh; 3 for the eighth: 4 for the ninth; 3 for the tenth and one for the thirteenth time. The interests of reformation would appear to have been better served had it been possible to commit these women on their first offence for longer periods. It could scarcely fail to prove a deterrent did each fear that a second committment would mean a yet longer period of confinement, and a third a still more prolonged period of incarceration for such habitual offender. The offender who is returned again and again is evidently not a fit person to be allowed full liberty. An indeterminate sentence, with a good system of probation, would, there is good reason to believe, benefit the cause of reform in this province as it is claimed to have done in other countries where that system has been tried.

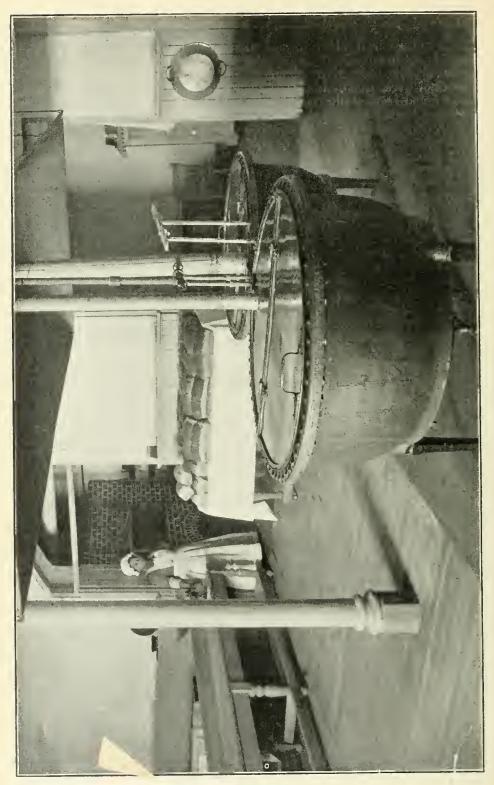
The classification of our inmates has been very much discussed and were the average sentence for a longer term, would certainly be most desirable in the interest of the inmates themselves as well as in that of discipline. Until, however, certain required and important structural changes can be made in the building and provision for securing an increased staff of attendants be made, no complete system of classification can possibly be adopted. The best substitute is the careful supervision of the women at all times, the adoption of a general rule of silence that there may be no opportunity for "gossipping," or recalling events better forgotten, no chance for the instructing of those less hardened in vice by older offenders, or the luring of young women to ways of vice by the keepers of improper houses.

In the last report of the Sherborn (Mass.) Reformatory Prison for Women —the model institution of the United States—the very capable superintendent, Mrs. Morton, states : "The abolishing of the daily recreation has passed the experimental stage and is recognized even by returned women as of great benefit. I am convinced it simplifies the management of dealing with the prisoners."

I hope to be able soon to do away with our last recreation. I am postponing the date only until I can replace it with some system of relaxation for the women which may be improving.

MEANS OF EMPLOYMENT.

All sentences to the Andrew Mercer Reformatory read "with hard labor." It is miversally admitted that the greatest help in improving the condition of those committed to any reformatory or prison is labor Equally to le is it that the labor should be profitable. It should be surely the aim of this istitution to



help every inmate to acquire, not only habits of cleanliness and order, but also to attain such domestic skill as may enable her to obtain an honest living when restored to liberty. With the means at our command, ordinary housework occupies many, and cooking a limited number. The labor of some of the women has also been made available by me during the past year, in whitewashing and painting the interior of the prison and with satisfactory results. The women themselves appeared to take a personal interest in this work. The ceiling and woodwork, the furnishings and such walls of five wide corridors containing from 12 to 16 cells as were not whitewashed were painted. The whitewashing throughout the building including the laundries was renewed; the workroom, scullery and dining room including tables were painted. The walls, ceiling, furniture, etc., of five of the attendants' rooms were decorated. The entire basement was painted and whitewashed including both staff and inmates' kitchens, meat-house, boiler-room, etc. In fact the grimy and faded walls of the prison interior were transformed into bright and attractive surroundings. The labor expended in doing all this was considerable and is worth hundreds of dollars to the institution. A small garden in the airing yard was also tended by the women. I propose to continue the work in this direction, and to increase the garden plot and improve the appearance of the airing yard generally.

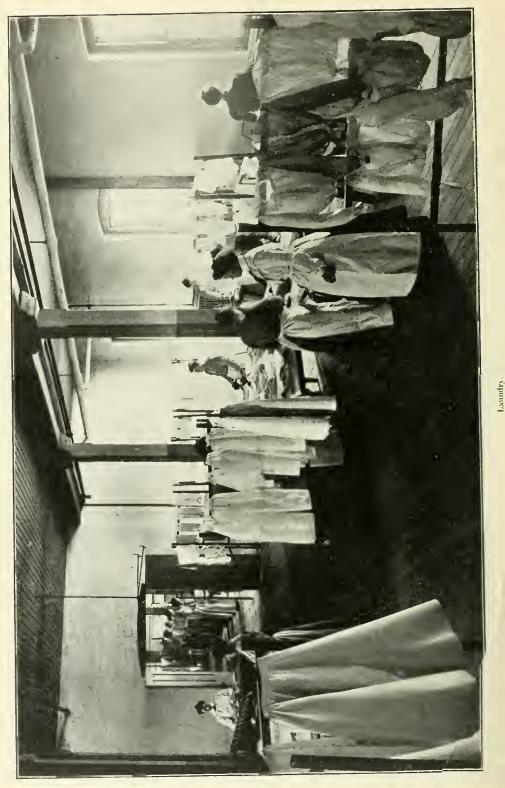
Other necessary alterations in the administrative portion of the building, which could not be done by prison labor, were necessarily items of expense for such work as had to be done by outside skilled labor. Some of the alterations were required to ensure the safety of the prison, as there existed doors of communication between the officers' apartments and the prison. These were all bricked up and added considerably to the expense by making redecoration a necessity. The removal of the dry goods store-room to another part of the building and the refitting of same; the decorating and furnishing of the new staff dining-room supplying a dumb waiter, etc., all of this added to the expense. The adoption of the practice prevailing in all other government institutions, of a table allowance for the superintendent necessitated the providing of a kitchen and dining-room, the appointments of which are yet to be completed.

The plumbing of the institution in both Reformatory and Refuge was put into a thoroughly sanitary condition, an entirely new set of stacks being found necessary. The old fixtures which had been placed in the centre of the building were removed, and the new system installed in such manner as to secure outside ventilation. Much needed lavatories were provided for the staff, and both hospital and nursery equipped with up-to-date conveniences. The painting of all partitions and all lavatories, etc., was done most satisfactorily by the women.

The chief employment for our women, however, is laundry work. Unfortunately our facilities for the purpose are too limited to permit the acceptance of all the work of this character that could be obtained. Many desired improvements in the laundry are absolutely necessary for the health of those working there and their instructors, and these structural changes and fittings I would most earnestly urge upon your immediate attention.

Besides the grave necessity for such changes from a sanitary standpoint, the means of supervision of the women would be infinitely better, a larger amount of work could be accomplished, and considerable space would be economized which might be devoted to the proper isolation of newcomers, or of those not amenable to discipline, and for whom at present we have no suitable place of confinement.

Sewing and knitting, both by machine and hand, are most suitable employments for the inmates—the fashioning of underclothing for ladies and children, and the making of all kinds of children's clothing would be a most desirable industry. These latter could, I am well satisfied, be carried on



successfully were the necessary sewing machines and a couple of knitting machines supplied. It would be necessary, too, to appoint an additional instructor. At present we have in the sewing room thirty-three women—all under one attendant. This attendant in charge has not only to maintain discipline, but also to prepare the work for each person, see that the work is properly done, and be vigilant in seeing that all are constantly employed. All articles from the wash have also to be carefully looked over by her, and carefully mended under her instruction.

When it is remembered that the majority of these women are unwilling to work, that they must be constantly watched to prevent their shirking the work, that the many have never known or been taught what it was to be useful, it will be evident that the duties are altogether too many to be well-performed by one attendant, and that from economic motives even it would pay to employ additional help.

I have spoken of the profit of the work of the women. Hand labor by preference is used entirely; yet our laundry makes a fair showing. Had we conveniently arranged wash houses, suitable wringers and drying kilns and an up-to-date mangle we could accomplish double the amount of work. With proper equipment in laundry and sewing room a fair income would be assured. As matters stand now with but two sewing machines, and both of these timeworn, and all knitting done by hand, we cannot look for large returns from the workroom, neither can the work be made as interesting, nor as useful for those whom we are striving to make wage-earners.

The spiritual welfare of the women has been carefully attended toreligious services being held twice on Sundays and three times during the week.

The Prisoners' Aid Association generously provided us with a teacher for four evenings each week during the school year. The school is greatly appreciated by the women and is largely attended both by the illiterate and those already possessing some knowledge of reading and writing. Good work is being done and the satisfactory showing should be a help in the work of reformation.

There is much difficulty in securing suitable situations for discharged prisoners. For the discharged inmate who is sent back among her old companions there is invariably but small hope of permanent improvement. When we can get one a place removed from the old haunts there is always a fair chance of the girl doing well. It is the discharged prisoner who needs to be looked after—those within the prison are being carefully trained to cleanly and useful habits, and have more attention and actual comforts than the honest and deserving poor.

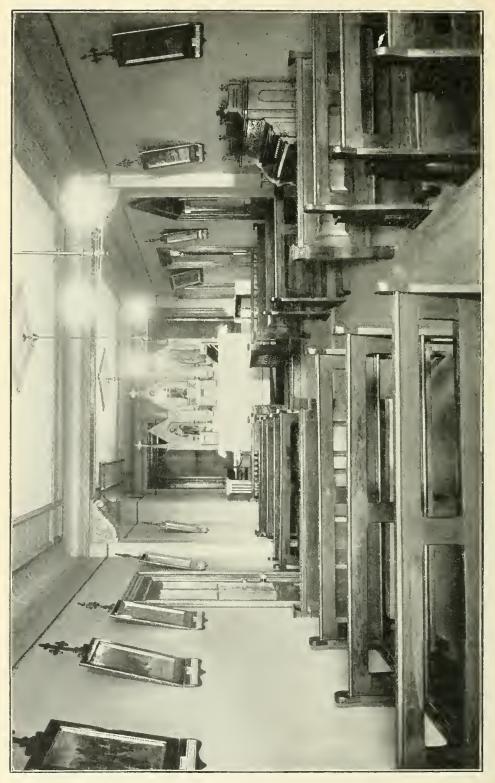
The carpenter's shop was moved during the past year from the main building to a portion of the stable now devoted to repairing.

A good crop of vegetables was grown in the garden, the table being supplied with early vegetables in abundance. The grounds have also been carefully looked after and an excellent showing made for the money expended.

The population of the Reformatory has been steadily increasing, and it will be necessary to supply our store-rooms more liberally.

I desire to mention my appreciation of the unsparing efforts and devotion of the staff to the interests of the institution. The hours of labor are long, the strain exacting and the remuneration not as large as could be wished for.

Some changes have taken place in the staff: The capable Secretary, Mrs. Kavanagh, for so long identified with this institution, resigned her position in December, 1901, greatly to my regret and that of the staff. Chief Engineer Rankin, who had grown old in the service of the institution, has retired and is succeeded by Assistant Engineer Kelly. Mr. J. Lang has succeeded to Mr.



Catholic Chapel.

Kelly's position. Miss Evans, for many years a valued member of the staff, retired in the beginning of the year.

Much valuable information was acquired by me while in attendance during the past year at the National Convention of Charities and Correction at Detroit, and the Canadian Convention of Charities and Correction at Hamilton. I am sure Miss Elliott, Principal of the Refuge for Girls' branch of the Reformatory, who likewise attended these conventions, will bear testimony with me to the value of these assemblies. It was my privilege at the Hamilton convention to draw attention to the subject of "Some Reformatory Needs." I should also memtion in this connection my visit to the National Prison Congress, held at Philadelphia, at which the wardens and superintendents of 'penal and corrective institutions meet annually for the interchange of opinion and mntual information and at which I was pleased to find yourself and Mr. Warden Gilmour taking a prominent part.

I feel it my duty to thank the Department for the privilege I enjoyed of visiting United States institutions, similar in character to the Andrew Mercer Reformatory, during the past year. I found these institutions working under different systems, greatly favored by the long sentence, or by indeterminate sentences, and well equipped for teaching, in addition to housework, cooking, laundrying, hand-sewing, weaving, dairying, gardening, shirt-making, etc. They possess also the advantages of situation in a locality not in too close proximity to a large city. The discipline is excellent, the system of commutation of sentence for good conduct and the indeterminate sentence simplifying greatly the government of the institution.

I am striving to put in practice such points in prison discipline and management as I found commendable and adapted to our system. I must admit that I found the American institutions object lessons in penology, and feel greatly indebted to the different superintendents for their generous hospitality, the interest shown in my work, and the facilities afforded me for seeing and acquiring useful information in every department of their institutions.

A personal visit and examination was the best, in fact, the only means of acquiring the information which I expect to be productive of so much practical good hereafter. I should also, if permissible, ask to bear testimony to the great assistance afforded me by yourself, Sir, when I was honored by your company in the inspection of Sherborn Prison near Boston, Mass.

Before closing, I would respectfully beg to add a word regarding a class termed "incapable" in our books. A reformatory seems scarcely the right place for such women. Their presence is not conducive to good discipline, and, alas! when their sentences terminate and they are without the protecting walls of the prison, it too often follows that they become the mothers of offspring yet more helpless and incapable than themselves.

I have the honor to be,

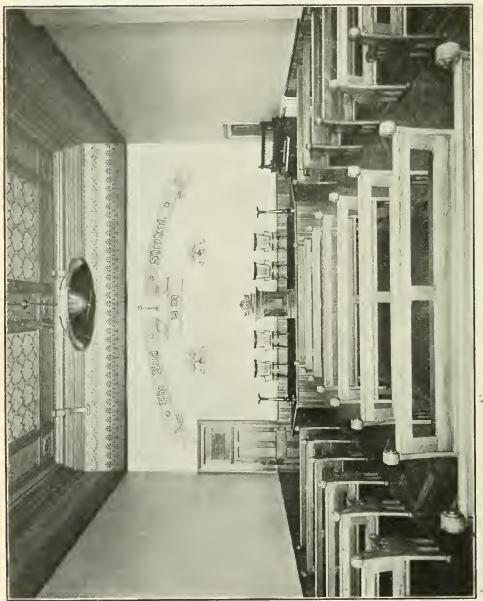
Sir.

Your obedient servant,

EMMA O'SULLIVAN, Superintendent.

REFORMATORY.

	1901	1902
Number of inmates at beginning of year	58	60
" " since admitted	130	117
" " transferred from Refuge		4
	188	181



Protestant Chapel.

81

REFORMATORY. Con,

REFORMATORY. Con,		
	1901	1902
Discharged on expiration of sentence	112	100
" by order of His Excellency the Governor-General		1
" on payment of fine	11	1
" on parole		2
Transferred to General Hospital, Toronto		1
" St. Michael's Hospital, Toronto	2	
" Toronto Asylum	1	1
" Mimico Asylum		2
" Toronto Gaol unfit for work		2
"Refuge for Girls		2
	128	112
In custody at close of year (30th September)	60	69

INDUSTRIAL DEPARTMENT.

The operations of this department are shown in the subjoined statement.

Laundry Department.

Number of days worked, 3 364. Total revenue Less cost of fuel, water, soap, soda, etc	
Net revenue	\$1,122 71

Sewing Department.

Number of days worked, 151, Total revenue	
Total revenue 19 00	
Net revenue	\$19 00
Daily earnings from net revenue, 12 cents	

Knitting Department.

Number of days worked, 606. Total revenue Less needles			\$22 93 50		
Net revenue	••••			\$ 22	43
Casual revenue Clothing given to inmates leaving				$53 \\ 356$	$\frac{23}{89}$
Making clothing, laundrying, knitting, baking	. cooking, hou	isework for	-	1,574	26
the Institution, 11,464 days, 25c				2,866	00
Total revenue Gross and net revenue of different department		• • • • • • • • • •		\$4,440	26
· · · · ·	Gross	Net.			
Laundry		\$1,122 71			
	$19 \ 00$	19 00			
Knitting	22 93	22 43			
		\$1,164 14			
Casual revenue					
Clothing given to inmates leaving Making clothing, etc		$\begin{array}{c} 356 & 89 \\ 2,866 & 00 \end{array}$			
		\$4,440 26			

ANDREW MERCER ONTARIO REFORMATORY FOR FEMALES AND REFUGE FOR GIRLS.

STATEMENT OF MAINTENANCE EXPENDITURE FROM 1st OCTOBER, 1901, TO 30th SEPTEMBER, 1902.

	Total expenditure for year ending Septem- ber 30th, 1901.	Weekly cost per head.	Yearly cost per head.	Total expenditure for year ending Septem- ber 30th, 1902.	Weekly cost per head	Yearly cost per head.
	\$ c.	c. m.	\$ c.	8 c.	c. m.	\$ c.
Medicines and medical comforts Meat and fish Flour, bread and meal Butter Groceries. Potatoes and vegetables. Bedding, clothing and shoes. Fuel Gas, oil, candles and matches Laundry and cleaning appliances Stationery, printing, postage and advertising Library, schools and religious services. Furniture and furnishings. Grounds and garden Fuel and fodder Repairs and alterations Unenumerated Water supply Stable furnishings. Salaries and wages. Total maintenance expenditure Manufacturing operations	$\begin{array}{c} 154 & 89\\ 1,424 & 66\\ 874 & 86\\ 589 & 96\\ 1,299 & 84\\ 162 & 34\\ 2,033 & 94\\ 1,540 & 89\\ 806 & 66\\ 440 & 35\\ 263 & 68\\ 476 & 74\\ 529 & 64\\ 565 & 05\\ 591 & 94\\ 604 & 39\\ 764 & 94\\ 476 & 26\\ 264 & 62\\ 11,963 & 68\\ 25,829 & 33\\ 802 & 57\\ \end{array}$	$\begin{array}{c} 2 & 17 \\ 20 & 00 \\ 12 & 36 \\ 8 & 32 \\ 18 & 36 \\ 2 & 28 \\ 28 & 75 \\ 21 & 78 \\ 11 & 40 \\ 6 & 52 \\ 3 & 71 \\ 6 & 75 \\ 7 & 34 \\ 7 & 98 \\ 8 & 36 \\ 8 & 53 \\ 10 & 80 \\ 6 & 73 \\ 3 & 73 \\ 167 & 23 \\ \hline \end{array}$	$\begin{array}{c} 1 & 13 \\ 10 & 48 \\ 6 & 43 \\ 9 & 57 \\ 1 & 21 \\ 14 & 96 \\ 11 & 33 \\ 5 & 93 \\ 3 & 22 \\ 1 & 95 \\ 3 & 51 \\ 3 & 82 \\ 4 & 16 \\ 4 & 36 \\ 4 & 46 \\ 4 & 46 \\ 5 & 63 \\ 3 & 51 \\ 1 & 95 \\ 87 & 97 \\ \hline 189 & 92 \\ \hline \end{array}$	$\begin{array}{c} 108 \ 57 \\ 1,516 \ 35 \\ 920 \ 53 \\ 837 \ 15 \\ 1,812 \ 29 \\ 259 \ 22 \\ 1,947 \ 16 \\ 1,720 \ 51 \\ 933 \ 37 \\ 625 \ 42 \\ 430 \ 69 \\ 510 \ 71 \\ 689 \ 85 \\ 604 \ 57 \\ 659 \ 67 \\ 662 \ 43 \\ 664 \ 99 \\ 748 \ 16 \\ 144 \ 68 \\ 12,148 \ 18 \\ 12,148 \ 18 \\ 27,744 \ 25 \\ 1,034 \ 45 \\ \end{array}$	$\begin{array}{c} 1 & 48 \\ 20 & 68 \\ 12 & 56 \\ 11 & 43 \\ 24 & 72 \\ 3 & 54 \\ 26 & 53 \\ 23 & 46 \\ 12 & 72 \\ 8 & 52 \\ 5 & 87 \\ 6 & 96 \\ 9 & 42 \\ 8 & 23 \\ 6 & 28 \\ 8 & 97 \\ 9 & 04 \\ 10 & 32 \\ 1 & 97 \\ 165 & 68 \\ \hline \hline & 378 & 38 \\ \hline \end{array}$	$\begin{array}{c} 78\\ 10\ 77\\ 6\ 55\ 96\\ 12\ 87\\ 1\ 86\\ 13\ 82\\ 12\ 21\\ 6\ 35\\ 4\ 45\\ 3\ 07\\ 3\ 63\\ 4\ 90\\ 4\ 31\\ 3\ 27\\ 4\ 68\\ 4\ 73\\ 5\ 32\\ 1\ 04\\ 86\ 19\\ \hline 196\ 76\\ \hline \end{array}$

Number of days	1901.	1902.
Reformatory Infants Refuge for Girls	$22,606 \\ 639 \\ 26,285$	$23,640 \\ 1,576 \\ 26,511$
Average number of inmates	$\frac{49,530}{126}$	51,727 141

ANNUAL STATISTICAL REPORT OF THE ANDREW MERCER ONTARIO REFORMATORY, FOR THE YEAR ENDING SEPTEMBER 30th, 1902.

Number of	Inmates o	on October 1st	, 1901	 	60
6.6	66	since receiv	ed	 	. 121

1902

ANNUAL STATISTICAL REPORT.-Con.

Discharged by expiration of sentence 10 "" order of His Excellency the Governor-General	0
" order of His Excellency the Governor-General	1
" on parole	2
" " payment of fine	1
Transferred to Toronto General Hospital	1
··· ·· Asylum	1
	2
" " Refuge for Girls Dept	2
R-turned to Toronto Gaol	
Remaining in custody September 30th, 1902 6	9
	-181

Nature of Sentences.

Sentenced direct to the Reformatory 87 to common gaols	Read and write
Social Condition.	— 121

Married 54 Single 47 Widowed 20 -121

Temperate or Intemperate.

Temperate	,										47	
Intemperate		-									74	
											-	191

Ages. Under 18 years From 18 years to 20 10 - 9 .. 20 6.6 30 .. 40 50 18 .. 50 8 4.6 Over 60 5 121

Education.

Occupations.

Charwoman	17	Nursemaid 2
Cook	1	Peddler 1
Domestics	56	Seamstress 3
Factory girl	1	Tailoress 2
Housekeepers	23	Waitress 2
Laundress		12
No occupation	8	

Crimes.

 $\mathbf{2}$ 3 $\overline{\mathbf{5}}$

3

Abandoning infant	2
Disorderly	- 3
Disorderly and vagrancy	5
Drunkenness	-34
Drunkenness and disorderly	6
Drunkenness and theft	1
Frequenting disorderly house	2
Inmate of disorderly house	2
Inmate of house of ill-fame	8
Inmate of house of ill-fame and larceny	1
Keeping disorderly house	2

Keeping house of ill-fame	11
Larceny	12
Loose, idle person	5
Loose, idle and disorderly	1
Perjury	1
Prostitution	7
Theft and receiving	2
Vagrancy	
Vagrancy and prostitution	2
- agrandy and provintation	101

Sentences.

For	50	days.													
	-60) days .							+			-			
6.6	3	months													
6.4	4	6.6													
6.6	5	6.6													
**	-6	6.6												Ì	
4.6	8	6.6													
6.6	12	a 4													

For	18 months			 1	
6.6	20 "			 1	
	21 ''				
8.6	1 year and	360	days	 2	
5.4	1	364	6 5	 	
6 4	$2 \text{ years} \dots$			 1	
					121

8;

THE REPORT OF THE INSPECTOR

Counties.	Sentenced direct to Re- formatory.	Sentenced to Common Gaols and transferred to Reform- atory.	Total.	Counties.	Sentenced direct to Reformatory.	Sentenced to Common Gaols and transferred to Reform- atory.	Total.
Brant Carleton Frontenac Frontenac Grey Hastings Kent Lambton Lanark Leeds and Grenville. Leenox and Addington Lincoln Middlesex	$ \begin{array}{c} 1 \\ 1 \\ 2 \\ 3 \\ 3 \\ 6 \\ 2 \\ 6 \\ 1 \\ 3 \\ 3 \\ 3 \end{array} $	11 2 1 	$ \begin{array}{c} 1 \\ 12 \\ 2 \\ 3 \\ 4 \\ 6 \\ 2 \\ 2 \\ 1 \\ 3 \\ 3 \end{array} $	Muskoka District Northumberland and { Durham	$ \begin{array}{c} 1\\1\\2\\1\\7\\44\\\hline87\end{array} $	$ \begin{array}{c} 1 \\ 1 \\ \dots \\ 1 \\ 16 \\ \hline 34 \end{array} $	$ \begin{array}{c} 1 \\ 1 \\ 2 \\ 1 \\ 8 \\ 60 \\ \hline 121 \end{array} $

Counties from which Inmates were received.

NUMBER OF DAYS' WORK DONE BY INMATES DURING THE YEAR.

Industrial Department.

Knitting to fill orders Laundry (city) Sewing to fill orders	$\begin{array}{r} 606 \\ 3,364 \\ 151 \end{array}$	days
Domestic Labor.	4,121	days
Cooking, baking and dining room	2,915	days

Cleaning	3,423 (lays
Laundry (inmates and staff)	2,472	• •
Learning to wash and iron	967	66
Sewing and mending for Ref'ty	1,122	4.6
Learning to sew	927	6.6
Knitting for Ref'ty		6 G
Nursery and Hospital		6.6
•		

13,358 days

WORK ACCOMPLISHED BY INMATES DURING YEAR.

Laundry Department.

Number of articles laundried		129,577
------------------------------	--	---------

Sewing Department.

Number of	articles	manufactured	 	 	 		 	 2,102
4.1								1.811
		repaired	 	 	 	· •	 • •	 1,011

Knitting Department.

Number of articles	knitted	606
6	repaired	1,129

REPORT OF THE SURGEON.

TORONTO, 1st Oct., 1902.

JAMES NOXON, ESQ.,

Inspector.

SIR,—I have the honor of herewith submitting my twenty-second annual report, as Surgeon of the Andrew Mercer Ontario Reformatory for Females, and the Industrial Refuge for Girls, for the year ending 30th September, 1902.

THE REFORMATORY FOR FEMALES.

I am pleased to be able to report that another year has closed without a death, or any very serious illness in any department of the institution whether official staff, Reformatory, Refuge or Nursery inmates.

Among the admissions during the year were six or seven women of unsound mind, three of whom were wholly unfitted for work or amenable to discipline, and required constant watching and eventually were admitted to asylums.

Two cases were admitted in an advanced stage of pregnancy, and several others were unable for more than very light work on account of disease or debility.

Two inmates were transferred to hospitals for operative treatment, one for appendicitis, near the termination of her sentence, and the other for removal of cancer. The latter was brought back after the operation and is still serving the term of her sentence.

The number of incapables who should be sent to insane asylums, hospitals and homes for the aged, rather than to a reformatory, appears to gradually increase rather than decrease from year to year.

There was less severe sickness than for many years past among the inmates.

The various improvements connected with the plumbing system throughout the building including changed positions of lavatories and improved drainage and ventilation has enhanced the health of all in the building.

As a means of preventing the introduction of smallpox or other contagion into the building through inmates coming from infected sections of the Province the precaution was inaugurated of disinfecting the clothing left off the inmates, and vaccinating those not vaccinated recently, with the result that no single case of contagious disease developed during the year.

The syphilitic inmates are on arrival consigned as in all previous years to the Isolation or Specific ward, where they are kept at work and live entirely separate from other inmates so long as they are under treatment.

No complaints were made to me during the year regarding food or clothing. and with the view of preventing ground for complaint at being kept at the heavy work all the time, change of work was given for limited periods with satisfactory results. In the assignment of work to inmates their health and physical condition are always considered.

The carpenter received leave of absence for an extended period on account of rapidly failing health and resumed his duties much improved as a result.

THE REFORMATORY HOSPITAL.

Five inmates occupied the hospital during a portion of the year. The hospital record was unusually light. Two eases were childbirth. One boy baby was born in January and one in May. The time spent by the mothers in the hospital was 25 and 18 days respectively. The remaining cases were one of caries for 26 days, and one of rheumatism for 25 days, and one of nervousness 2 days.

THE REFORMATORY AND REFUGE STAFF.

The health of the staff was exceptionally good the past year, with a single exception referred to elsewhere.

THE SYPHILITIC WARD CASES.

The number of isolated inmates in this department under treatment the past year was 9. The year opened with four inmates who had spent some time the preceding year, and one whose total previous treatment extended over a period of one year and 103 days. One of the 10 occupying the ward left by expiry of sentence and was recommitted, leaving the actual number of individuals treated at 9. Of the total only 3 were discharged cured, the other 6 leaving on account of expiration of sentence. The largest number under treatment at one time was 6. The smallest number was 2, while the last month of the year the ward was empty. The time each of the 9 was under treatment the past year was:—1, 328 days; 2, 258 days; 3, 213 days; 4, 178 days; 5, 171 days; 6, 158 days; 7, 37 days; 8, 2 days; 9, 2 days.

INDUSTRIAL REFUGE FOR GIRLS.

The general health of the staff and inmates of the Refuge has been excellent, but few cases requiring to take to bed. An exception to the above existed in two cases of consumption which were removed, one girl dying at her home a few weeks after being liberated, and the other transferred to the care of friends in a hospital, was still under treatment at the close of the year.

I have the honor to be, Sir,

Your obedient servant,

John S. King, M.D.,

Surgeon.

REFUGE FOR GIRLS.

INTRODUCTORY.

The course of training pursued in the Refuge for Girls is reflected in the appearance of greater brightness and intelligence of the inmates, and in the practical and methodical manner in which they perform the duties assigned to them. In the school of letters distinct and creditable progress has been made, and the same may be said as to all classes in domestic science in which they are taught the things which they will need to put in practice in their future lives. It is the aim to teach them, that if a girl marries, she will be capable of keeping a good home for her husband, and therefore they are taught by actual experience the care of such a house as she will be apt to live in. To be able to do this she is taught how to cook for a small family, the best method of laundry work, to care for flowers, small fruits, and as room is provided the care of a small kitchen garden. She is taught also how to preserve fruit and vegetables, that she may, having the opportunity, add to the income of her family. In addition to all she is taught the care of all household apartments and the special duties pertaining to them. This work however has been carried on under many adverse and trying conditions. The surrounding environment of the institution is bad. Within a few hundred feet of its walls, are on the two sides a base ball and other amusement grounds, while on other two sides at an equally short distance are large factories overlooking the grounds, and where large numbers of work people are employed. It is difficult to conceive of a situation worse, than it, in which



to undertake the reformation of young girls just entering on womanhood. The pity of it is, the situation admits of no prospect of being improved, but tends rather to become more and more objectionable. During the summer and autumn months when out door games are in full swing, the minds of the inmates are kept in a state of excitement, and their attention distracted from their duties, by the shouting and boisterous merriment within distinct hearing, around them. It is even difficult to give the inmates sufficient open air recreation to maintain them in health, and to afford them occupation, and instruction in kitchen gardening is likewise made difficult and inconvenient. The Refuge is owing to its construction necessarily conducted on the congregate system, which is not favorable to secure the highest good. Under it there is much to be desired that it is impossible to accomplish in the way of creating home life and feeling, which is the best influence for securing real and permanent reform for wayward girls. The cottage system with the family home life established in each cottage under discreet and well qualified teachers, and with not more than twenty in the family, is the approved modern plan in carrying on reformatory work. An institution of this class is an urgent present necessity if the State is to discharge its highest duty to this class of its wards and to the future well being of society. The institution should not be located nearer than twenty miles of the city, on not less than thirty acres of land, and where the surroundings are not obtrusive to cause the situation to be in any way disturbed. An institution so located would admit of nature study being added to the course of instruction, which being most interesting, would be a potent influence in breaking up the ill formed habits of life, which it is the object to reform, while it would also admit of instruction being given in the rearing of fowl and domestic animals in contributing to its maintainence. To those unacquainted with the character of the girls to be dealt with, and their past history and surroundings, it may seem unwise and unnecessary to keep them in the Refuge for so long a period (5 years) as the indefinite sentence permits. All who are engaged in this kind of work, and follow up the girls who go forth from such institutions, realize how meagre and temporary are the results for good, where the institution is made simply a house of detention for one or two or even three years.

The past life with all its evil associations must be forgotten, a new character must be formed, habits of industry cultivated, and a course of instruction and training given, that will fit them for a life of intelligent, independent efforts to gain a livelihood in new surroundings. The more complete this transformation is made before the girl is put to test, the more permanent and beneficial will be the results. This transformation cannot be made in a few years, many young people who are blessed with good homes, and opportunities for the best training of life, do not appreciate them until it is too late. Is it then a matter of wonder that some of these unfortunate ones, fail to realize their opportunities, and must be detained in the institution for their own good, longer often, than is the dcsire of the management? The necessity and wisdom of a longer period of detention and of supervision, has been realized in many of the neighboring States where a more intense and enlightened public sentiment prevails, in juvenile reformatory work, and methods, and which has found expression in their more recent legislation by making the term of committment to end at 21 years of age instead of 18 as it had been. Although the age limit is extended, it does not of necessity prevent an earlier discharge if the qualifications exist, but if non existent, then until they marry by consent obtained of the legal guardian, or reach the age of 21 they remain under supervision. It is by the record to say, that girls who are committed to the Refuge after having entered on an immoral life, and are discharged at the end of two or three years, as a rule, relapse into the old way of living, while there is not a case on record, where any have done



so, who have remained until near the end of the indefinite term, which may be a full period of five years. The instruction and training given, will do much to establish moral strength of will, but not all that is necessary in every case, and it requires the aid of advancing time to carry them beyond the adolescent age and to develop in them the full womanly character to safe guard their future. How pathetic, in some instances, has been the appeal to have a daughter taken back, after having been released from the Refuge on the assurance of parents and sympathetic friends of the better home conditions, and of more careful exercise of parental authority for her protection, when parental control has again been thrown off, and the child has reentered upon her past shameful life. If there is to be a reformation, it can more surely be effected by pursuing the course of training for the period of time experience has proved necessary to its accomplishment, short of which there is nothing to expect, but failure, and the perpetuation of a more extended social evil in society.

It will bear repeating what has been expressed in previous reports, that it should be distinctly understood the Refuge for Girls is in no sense a place of punishment, but a school to train girls, to lead them into proper channels of thought, and to give them a correct standard of life.

Herewith are transmitted the report of the Principal, the Inspector of Schools, and the statistical tables in connection with the work and management of the refuge.

JAMES NOXON,

Inspector.

TORONTO, October, 1902.

REFUGE FOR GIRLS.

JAMES NOXON, ESQ.,

Inspector :

SIR,—I have the honor to present the Annual Report of the Refuge for Girls for the year ending 30th September, 1902.

The course of instruction outlined in last year's Report has been continued in each department.

Aprons . Bakers caps . Bath gloves . Blankets . Bread covers . Chemises . Collars . Cuffs prs Curtains . Drawers . Drawers . D'oyleys . Dusters .	8,586 68 2,446 425 452 3,798 3,646 180 4,347 3,794 4,347 3,794 10,279	Quilts . Sheets . Stand covers . Skirts . Shirt waists . Stocking prs . Table cloths . Table cloths . Table napkins . Tray covers . Underwaists . Towels hand	$583 \\ 4,595 \\ 354 \\ 704 \\ 517 \\ 4,513 \\ 735 \\ 1,972 \\ 393 \\ 4,755 \\ 10,156 \\ 18,600 \\ 207 \\ 307 \\ 100 \\ 10$
Dusters Mattress covers Nightdresses Pillow cases Pillow shams	$\begin{array}{r} 422\\ 10,279\\ 211\\ 4,223\\ 4,633\\ 743 \end{array}$	Sideboard covers Miscellaneous	207 2,885

BAKERY.

Bread made	24,299 lbs
Buns **	720 doz.
Gingerbread	578 lbs.



[91]

Dining Room.

KITCHEN.

The food for both officers and girls is cooked by the girls under the instruction of a graduate of the School of Domestic Science.

SEWING ROOM, ARTICLES MENDED.

Aprons	1,926	Quilts	31
Blankets	175	Shirt waists	12
Bags	15	Shawls	26
Chemises	1,030	Skirts	168
Drawers	1.222	Sheets	11
House dresses	2.187	Stockings, prs	2.222
Night dresses	490	Towels	89
Mattresses	25	Window shades	17
Mitts, prs	13		
Under waists	1.247	Total	10.923
Pillow cases	8		,•_~

40 Yds crotched lace.

18 Toques and Tam'o shanters.

8 D'oyleys.

2 Pairs slippers.

DRESS MAKING ROOM, CLOTHING MADE.

Aprons	75	Night dresses	64
Belts	18	Skirts	60
Bathrobe	1	Shirt waists	33
Books covered	149	Sleeves, prs	137
Chemises	22	Tray covers	20
Collars	19	Towels	82
Cuffs	4	Under waists	75
Curtains	17	Wrapper	I
Drawers	186	Miscellaneous	687
House dresses	119	-	
Tailor made	12	Tctal	1,785
Fichues	4		

SCHOOL.

Under Instruction
Number in Fourth Reader
Number in Third Reader
Number in Second Reader
Number in First Reader
Number in Spelling and penmanship. 72
Number in Arithmetic (graded) 72
Number in English and Canadian History. 20
Number in Physiology
Number in Grammar, Class A
Number in Grammar, class A
Number in Geography " A
Number in Geography "A 20 Number in "B. 32 Number in "C. 15
Number III B. B. B. B. B. B. B. B. B. B. B. B. B.
Number in " C 15
Number in Language lessons
Number in Supplementary Reading
Number in Current History
Number in Map Drawing
Number in Literature and memory work
Number in Every Day Science
Number in Nature Study

In addition to these subjects a singing class is held in which voice culture and sight-reading are taught weekly.

In the library are one hundred and eighty volumes, in addition to the following periodicals and papers :- The Globe, The Mail and Empire, Home

No. 39



Sewing Room.

Chat, The Girls' Own, Ladies' Home Journal, Womens' Journal, Methodest Magazine, The Wide World, The Illustrated London News, twelve copies of "Onward" and twelve copies "Pleasant Hour."

The Semi-Annual Reports of the School have been forwarded you by the Public School Inspector, Mr. David Fotheringham.

Having submitted these tables showing the amount of work done in training the girls in domestic and school work it would be unfair to leave unnoticed other important factors for developing the moral and spiritual life of the girls of the Refuge.

Every Sunday morning a number of ladies from Parkdale meet here to teach the Sunday School lessons as arranged in the International Series. A religious service is held every Sunday afternoon and a week-night service every Friday evening by one of the clergymen of Parkdale—Episcopal, Presbyterian, Methodist, Baptist, or Salvation Army.

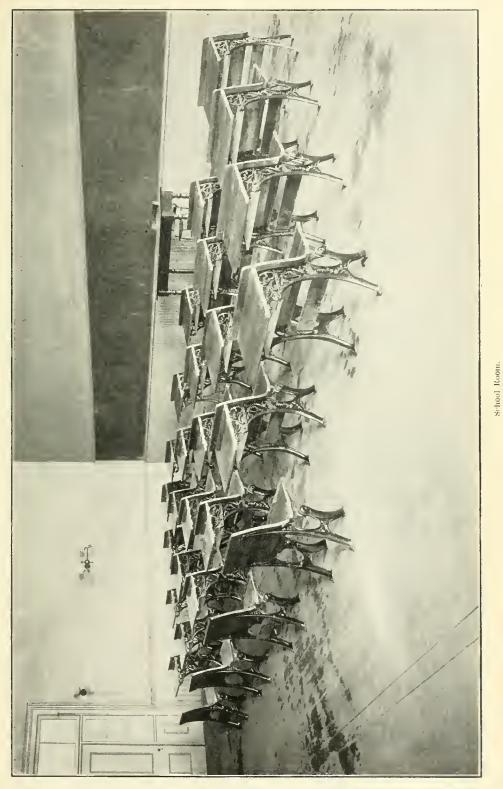
Rev. Father Walsh, Roman Catholic Chaplain, holds elasses for religious instruction on Thursday and Saturday of each week in addition to holding Mass every Sunday morning.

The voluntary services of these kind friends are supplemented by the daily instruction of the staff whose constant effort is to hold before the girls the true ideal of womanhood and thus fit them to become acceptable eitizens. It is said that our girls are kept too long in the Refuge. If we consider their lives before committal, their freedom of action, and their age at entrance to the Refuge when restraint and discipline are most irksome to youth it is no matter of surprise that a long time must elapse before they become interested either in work or study. Our surroundings too add to this unrest. What was an open field twenty years ago is now the centre of factories and baseball grounds. When a game is on during the baseball season the teacher's voice is drowned by the shouts of enthusiastic merrymakers among whom are the relatives and friends of many of our girls now shut in from pleasures they once enjoyed. During the winter months the bands at the open-air skating rinks makes the night one of unalloved misery to her who once enjoyed these amusements.

Here within sight and sound of all that recalls the joys of former days is it strange that some time must elapse before other and more sedate occupations take root and under fostering care a new ideal of life be developed? A proof that this has been accomplished may be seen any day during the out door recreation when the older girls—girls longest in the Refuge—walk around with book in hand intent upon their studies. Again during evening recreation when games are provided these girls prefer books from our library.

With much to encourage it is to be regretted that failures have occurred. Among those who left during the year were four released at eighteen years of age. Two of these whose sentences were "until eighteen years old" left on expiration of sentence and at once returned to their evil ways. Another after having refused a "Tieket of Leave," was discharged unconditionally by order from the Department of Justice, Ottawa, upon the persistent appeals of a mother who had served the longest possible term in the Reformatory. In a short time her friends made every effort to have her returned, for causes not necessary to repeat, to complete her indefinite sentence of five years. The fourth was released on recommendation for good conduct, placed at service in an excellent family and in six weeks left and voluntarily entered upon a life of shame.

Without any legal restraint resting upon them they left at an age when girls of this class most need a wise head and kind heart to tide them over the shoals and quicksands of youth.



I cite these cases with the hope that such facts may come under the notice of him who commits young girls to the "Refuge" and that those interested in the reclamation of young girls may learn that it is necessary to protect them until they have acquired the knowledge and appreciation of the dignity of womanhood.

There is not one case of failure to record where a girl remained the full term of an indefinite sentence.

REFUGE

I have the honor to be, Sir,

Yeur obedient servant.

M. C. Elliott,

Principal.

No. of inmates beginning of year (Oct. 1st) since admitted transferred from Reformatory	$1901. \\ 72 \\ 19 \\ 2$	$1902. \\ 75 \\ 21 \\ 3$
	93	99
Discharged on expiration of term " by Order	16 . . 1 1 75	$ \begin{array}{c} 11 \\ 10 \\ 4 \\ 1 \\ $
	93	

The following tables give the statistical information concerning the Refuge for the year ending September 30th, 1902.

Total number sentenced direct to Refuge since opening in 1880 Total number transferred from Reformatory since opening in 1880	$\begin{array}{c} 331 \\ 68 \end{array}$	
Total number in Refuge since opening	:	399
Number of girls in Refuge 1st October, 1901 sentenced direct during year transferred from Reformatory	$\begin{array}{c} 75\\21\\3\\\end{array}$	99
Discharged by expiration of sentence "By Order". Transferred to Reformatory Apprenticed. Transferred to Department of Dependent and Neglected Children Remaining in Refuge 30th Sept., 1902.	$\begin{array}{c}11\\10\\4\\1\\1\\72\end{array}$	
Education at Entrance.		99
Can read and write	22 2	24
Ages at Entrance.		
Sevenyears1SixteenyearsEleven"1Seventeen"Thirteen"5Eigteen"Fourteen"1Twenty"Fifteen"77	$ \begin{array}{ccc} $	24

	Offend	268.	
Loose and disorderly Theft, stealing, larceny Vagrancy Uncontrollable, incorrigible Inmate house of ill-fame Housebreaking Came voluntarily	$ \begin{array}{c} 2 \\ 4 \\ 4 \\ 6 \\ 2 \\ 1 \\ 1 \end{array} $	"Expedient to deal with under the Act" 1 Leading a dissolute life 1 Without parental control 1 False pretences I	24
	Senten	ces,	
Three months Six " Two years	1 5 3	Five years	24
Counties	from which	girls were sent.	
Carleton Grey Hastings Kent Muskoka Northumberland	6 1 2 1 1 1 1	Wentworth6Waterloo1Wellington1York4	24

SCHOOL INSPECTIONS.

TORONTO, May 10, 1902.

JAMES NOXON, Esq., Inspector of Prisons and Charities :

DEAR SIR,—This week I made a careful inspection of the educational work and conditions of the Refuge for Girls and beg to report that as a whole it is in a promising condition.

The inmates, who just now number 70, are divided into one IV., one III., one II., and one Senior Part II. of the I. class. This classification, though some in each class are considerably behind others, enables the teachers who only teach for half a day to deal more effectively with the work than were the number of classes increased. The, work as formerly reported, is thorough, modern, and intelligent, though, of course, owing to the absence of one of the regular teachers taking a Normal course, the substitute will require some time to get her classes as thoroughly in hand and responsive as one whose term has been long enough to secure the confidence and attachment of her pupils.

In most of the studies I am again able to report a high percentage of correct work under as rigid an examination as public school scholars of corresponding classes would be subjected to In five of these 90 per cent. or over was secured; in seven 70 to 84 per cent.; and in two 60 and 63 per cent. In only one (arithmetic in IV. class) did the percentage fall to a disappointing degree. In all classes, but especially in the III., has handwriting greatly improved. This is to be attributed in part to the special attention given, but more to the introduction of the sloping system of writing instead of the vertical.

To form a just estimate of the work done and of the skill and success of the teaching staff it should be borue in mind that the average age of inmates of the Kefuge is greater by four or five years than in corresponding public school classes, and that the great majority are taken in hand without the advantages of good home training or of good primary work under experienced teachers. Minds and habits have been allowed to become shaped or warped by the life

7 G.

from which this class of citizens has been removed to the Refuge for their own and society's good.

This last consideration suggests another, viz., that after mental discipline and self-control have at the cost of great labor and much anxiety been begun it seems a misfortune to a girl for friends through influence or otherwise to obtain her removal from the Refuge to apprenticeship or on other pretext when as a rule such training and development will cease. Much better would it be for her and society that she should remain till in the judgment of the principal and her assistants this course were reasonably safe and she gave evidence of being fitted for true womanhood and good citizenship.

And this thought leads naturally to another, viz., whether the present buildings and their location are adequate, appropriate, and fitted to promote the most rapid and complete transformation of vagrants and illiterates into true and good Canadians. Would not a building erected especially to meet and correct the conditions, habits, and associations of lawless girls miles away from city or town, with spacious recreation grounds, large garden plots and orchard and shrubbery grounds for diversion and work be far better? With all the development of Ontario in resources, in education and charitable enterprises, I would that our rulers could see the wisdom—even necessity—of such an institution where all the conditions would strongly contribute to the blotting out of the past and building up for the future, and where evil associates could not reach the weak and erring ones.

I was pleased to find a large hall under preparation for a school and assembly room. Permit me to suggest that modern, single school-room desks be introduced and that everything possible be done to provide sufficient light as that I fear will be seriously inadequate. A modern map of the Empire should be added to those already on the walls.

It would be a great injustice did I close this report without stating that in my opiniou very much of the present efficiency of the Refuge is due to the ubiquitous, wide-awake, efficient and lady-like principal who greatly facilitated and lightened my work, and seemed to be able to place her finger on every weak spot in the management or conditions, and who gave ample credit to all that was creditable and efficient in the institution.

I have the honor to be, Sir,

Your obedient servant,

D. FOTHERINGHAM, P. S. I.

TORONTO, December 23, 1902.

JAMES NOXON, Esq., Inspector of Prisons and Charities, Toronto :

DEAR SIR,—Yesterday I made my third half-yearly inspection of the Refuge for Girls, and have the honor to report that I found the accommodation in the condition formerly reported—unsuitable, inadequate, and incomplete so far as educational facilities are concerned. Having called your attention to these matters and urged the pressing need of modern buildings with the best appliances and surroundings for the reclamation of the unfortunate class confined here I need merely direct your attention to my report of last May.

The work proper of the school-room I found going on quite as efficiently as formerly. Miss Nash having completed her course at the Normal School is at her post again if anything more energetic and thorough than before, while Miss Parrott is also thoroughly in earnest and doing good work. In the classes of the former the value of the lessons heard ranged from 67 per cent. to 94—the former being in grammar and the latter in dictation. In the classes of the latter the range was from 60 to 91 per cent.—60 in arithmetic and 91 in spelling.

When we consider the disabilities under which instructions are given the standard of work attained is astonishingly high. The students these ladies instruct come into their hands with anything but studious habits—nay, their lives have unfitted them in a marked degree for consecutive application or thought, and without doubt their intellectual powers have been beclouded and warped, so that the intelligence, accuracy and extent of their attainments give unquestionable evidence to the patience, fidelity, skill and success of the teachers.

At the same time the wisdom of seeking to reclaim and educate this class of unfortunates is abundantly proven by the evident recovery of intellectual power—memory and reason—that so many of the girls are able to show for the short time they have been in the Refuge.

What may be accomplished by thorough earnestness and effort even under adverse conditions I found clearly shown in the marked improvement in writing since the Spencerian system was adopted and a reward offered for good results.

I found Miss Elliott, the Principal, on hand everywhere, with thorough grasp of the situation and resource for emergency; at the same time, tender towards the erring and ready to throw the weight of long experience and broadminded study of the conditions and possibilities of the submerged into the scale for their uplifting and salvation.

> Respectfully Yours, D. Fotherinham, P. S. I.

• • •

THIRTY-THIRD ANNUAL REPORT

OF THE

INSPECTOR OF PRISONS AND PUBLIC CHARITIES

UPON THE

HOSPITALS AND CHARITIES, ETC.,

OF THE

PROVINCE OF ONTARIO.

BEING FOR THE YEAR ENDING 30TH SEPTEMBER,

1902.

PRINTED BY ORDER OF THE LEGISLATIVE ASSEMBLY OF ONTARIO.



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WARWICK BRO'S & RUTTER, PRINTERS. TORONTO.

OFFICE OF THE

INSPECTOR OF PRISONS AND PUBLIC CHARITIES, ONTARIO,

PARLIAMENT BUILDINGS, TORONTO, DECEMBER, 1902.

SIR,—I have the honor to transmit herewith, to be presented to His Honor the Lieutenant-Governor, the Thirty-third Annual Report upon the Hospitals, Refuges, etc., for the official year ending 30th September, 1902.

I have the honor to be, Sir,

Your obedient servant,

T. F. CHAMBERLAIN,

Inspector.

THE HONORABLE J. R. STRATTON, M.P.P.,

Secretary of the Province of Ontario,

Toronto.

PARLIAMENT BUILDINGS,

TORONTO, DECEMBER, 1902.

To the Honorable SIR OLIVER MOWAT, Knight Commander of the Order of St. Michael and St. George, member of the King's Privy Council for Canada and Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOR :

I beg to submit herewith the Thirty-third Annual Report upon the Hospitals, Refuges, etc, of Ontario, being for the official year ending 30th September, 1902

I have the honor to be,

Your Honor's most obedient servant,

J. R. STRATTON,

Provincial Secretary.

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											1
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Hotel dieu Hospital, Cornwall.											
eneral Hospital, Cornwall		 	 	 	 		 				
National Sanatorium, Gravenhur	st	 	 	 	 	 	 			 	
The General Hospital, Rat Porta		 	 	 	 		 				
eneral Hospital, Parry Sound.		 	 	 		 		 		 	
eneral Hospital, Sault Ste, Mar	ie	 	 	 	 	 				 	
ictoria General Hospital, Renf:	rew	 	 	 	 	 	 			 	
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Sex, previous residence, etc., of the children	
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Girl's Home, Toronto	• • • • • • • • • • • • • • • • • •
Boy's Home, Toronto	•••••
The Working Boys' Home, Toronto	
Infants' Home, Toronto	•••••••••
St. Nicholas Home, Toronto	
Rescue Home for Women, Toronto	
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Protestant Orphan Asylum, Hamilton	
Boy's Home, Hamilton	
Girl's Home, Hamilton	
Home for the Friendless, Hamilton	
Salvation Army Rescue Home, Hamilton	
Orphan's Home, Kingston	
House of Providence Orphanage, Kingston	
Hotel Dieu Orphanage, Kingston.	
Orphan's Home, Ottawa	
St. Patrick's Orphan Asylum, Ottawa	
St. Joseph's Orphan Asylum, Ottawa	
Rescue Home and Children's Shelter, Ottawa	
Infants' Home, Ottawa	•••••••
Roman Catholic Orphans' Home, London	
Protestant Orphans' Home, London	
Women's Refuge and Infants' Home, London	
Rescue Home for Women, London	
Protestant Home, Orphanage Branch, St. Catharines	
St. Agatha Orphan Asylum, St. Agatha	
Orphans' Home, Fort William	
Berlin Orphanage, Berlin	

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HOSPITALS, REFUGES, ETC.

In submitting the thirty-third annual report on Hospitals, Houses of Refuge, Orphan Asylums, Homes for Incurables, Convalescent Homes and Magdalen Asylums for the year ending 30th September, 1902, I have to state that I have made the usual inspections during the year, as required by the statute. The various institutions included in this report have given evidence of good management and improved administration, and many improvements have been made during the year. This satisfactory condition is, no doubt, largely due to the interest taken in these institutions by the citizens of the Province.

Two new Hospitals have been put in operation and placed upon the list during the past year, namely, the Royal Alexandra Hospital, Fergus, and the Ross Memorial Hospital, Lindsay, both of which compare most favorably with the best hospitals in the Province. No addition has been made in the number of Homes for old people during the year, and only one application has been made for aid to Orphanages under the Charity Aid Act, namely, the Royal True Blue Orphanage, Picton. All the Homes for the different classes are very generally distributed over the Province.

Two more County Houses of Refuge have been established during the year, namely, at Perth, in the County of Lanark and at Whitby, in the County of Ontario. There are still many counties in the Province without any institution of this kind, or other proper facilities for caring for their deserving poor. The grant of four thousand dollars offered by the Government to each county establishing such a Home, does not seem to have the effect which it was hoped to accomplish, and I think the time has come when this offer should be withdrawn and in lieu thereof a law be placed upon the Statute Book compelling the counties (or union of counties) to make suitable provision for the care of their poor people.

The number of patients in the Hospitals of the Province on the 1st October, 1901, was 2,287; number admitted during the year, 29,833; total number of patients treated during the year, 33,113.

These figures do not include the thousands who received treatment at the various Hospitals as out-door patients. The number of deaths in the Hospitals during the year was 1,705: the total number of days' stay of patients in the Hospitals was 817.822.

The revenue of Hospitals from all sources, other than the Government grant, was \$581,585.56, and the Provincial grant for last year was \$110,000. There was expended for the maintenance of Hospitals during the year \$673,909.21; the average cost per patient per day was \$0.83 4-5; the percentage of the Provincial grant to the total expenditure for maintenance was .16. The tables will be found to contain full particulars as to the patients, their diseases, the receipts and expenditures, etc.

There are about 100 Homes for old people, Orphanages, Magdalen Asylums, Convalescent Homes and Homes for Incurables in the Province, having an aggregate population of 9059 ; and the annual expenditure for maintenance, apart from the Governmert grant, was \$345,044.22. The Provincial grant to these institutions for the past year is \$74,502.83. This class of institutions is managed by charitable and other organizations, trustee boards, municipalities, etc. In the various tables will be found particulars as to receipts and expenditure, and other information in connection with their management.

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gainismer redamX fromtsert robun 2001.1958/d308/no	성조장훈동으므었ICZ운영방공교수당원로의단원의 수수국수수공 문 8
Хирьег who died лигілд the year.	힆낹હ힟훉ᆜ듔≈ㅎ륹뜡훉눎닟픵쑫ᅙ묏%읭읭잂귟, 옘뜷듡휭쁙 긝윉 귍
Хитьег discharged during the year.	8.1.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.
Total number under treatment during the year ending 30th Sept., 1902.	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2
Rumber of births in Hospitals during the year.	11 11 11 11 11 11 11 11 11 11 11 11 11
Xumber admitted during the year ending 30th Sept. 1902.	7.00,1 2.12,12,12 2.12,12,12 2.12,12,12 2.12,12,12 2.12,12,12 2.12,12,12,12,12 2.12,12,12,12,12,12,12,12,12,12,12,12,12,1
Xumber remaining under treatment on 1st Oct., 1901.	288 97 17 88 8 1 98 18 18 18 18 19 19 18 18 18 18 18 18 18 18 18 18 18 18 18
Location.	Toronto
Hospituls.	General Hospital Grace Homocpathic Hospital Hospital for Sick Children Sk. Michael's Hospital Wosten Hospital The Ortholopedic Mospital City Hospital City Hospital City Hospital St. Joseph's Hospital General Protestant Hospital General Protestant Hospital Si. Joseph's Hospital Sisk Children's Hospital Maternity Hospital Sisk Children's Hospital Sisk Children's Hospital Maternity Hospital St. Juke's General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital General Hospital St. Joseph's Hospital St. Joseph's Hospital St. Joseph's Hospital St. Joseph's Hospital St. Joseph's Hospital St. Joseph's Hospital St. Joseph's Hospital St. Joseph's Hospital St. Joseph's Hospital St. Joseph's Hospital St. Joseph's Hospital St. Joseph's Hospital St. Joseph's Hospital St. Joseph's Hospital St. Joseph's Hospital

No. 40

	56	46	100	21	x	1.5	5	+	£	÷	10	1.51	13	36		104	21	17	65		1-	ວົງ		2,41x	0.65,5
18	5	-07 77	16	=	=	21	=	x	_	ŝ	10	ร้า	13	ũ.	19	9	X		22	13	-	00		1,705	1,631
967	156	134	248	162	238	152	127	368	312	119	135	270	114	991	263	라 [66	153	692	26	30	100		28,990	29,008
336	508	500	589	121	267	121	306	390	332	156	1221	317	011	212	305	251	100	165	189	101	38	651 671		33,113	32,929
	() ?	30	6	11	+	•			er:	• • • • • • • •	10	10	[•		•		÷1	• • • • • • • • • •		•	65		993	137
313	166	011	240	161	540	164	167	::77	315	147	139	293	121	480	165	190](1))	156	746	8	36	1-26		29,833	29,730
6	66	30	55	<u>टा</u>	14	1-	15	10	13	6.	1	19	10	31	14	19	6	1-	÷	9	01	* * * * * * * * *		2,287	2,262
Windsor	Chatham		Stratford	St. Thomas	Owen Sound	Sudbury		Huntsville	(¢	Woodstock	Berlin	Samia	Barrie	Cornwall	61	Gravenhurst	Rat Portage	Parry Sound	Sault Ste. Marie.	Renfrew	Thessalon	Pergus			
Hotel Dicu Hospital	St. Joseph's Hospital	General Hospital	(teneral Hospital	Amasa Wood Hospital	General and Marine Hospital	General Hospital	St. Joseph's Hospital	General Hospital	Huntsville Hospital.	Woodstock Hospital	Berlin and Waterloo Hospital	ceneral Hospital	Royal Victoria Hospital	Hotel Dieu Hospital	General Hospital	National Sanatorium Hospital	General Hospital	General Hospital	General Hospital	Victoria Hospital	Victorian Hospital	Royal Alexandra Hospital		1 Otals for 1902.	Totals for 1901

TABLE No. II.—Detailed analysis of the diseases or ailments for which patients received treatment for the year ending 30th September, 1902.

treatment for the year ending soth September, 1902.											
Disease.	Male.	Female.	Total,	Disease,	Male.	Female.	Total.				
			1								
Ailmentary Canal. Colic	40	42	82	Bones,							
Constipation	63	71	134	Auchylosis	32	-4	36				
Dysentery Diarrheea	68 91.	58 66	126 157	Caries Exostosis	75 10	50° 6	125				
Dyspepsia	146	141	287	Necrosis.	130	67	197				
Enteritis	43	42	55	Ostitis	35) 30	15 28	50 58				
Fistula-in-ano Gastrodynia	82 26	45 35	$\frac{127}{61}$	Periostitis Rickets	11	25	22				
Gastritis	269	214	483	Tubercular arthritis	32	20	52				
Hæmorrhoids Hæmatemesis	$\frac{193}{10}$	128	321 	Osteo-myelitis Other bone diseases	53	21.21	75				
Intestinal Worms.	11	11	22			`-					
(Esophagus (diseases of) Pharyngitis.	$\frac{16}{37}$	18 22	34 59	Total	363	205	568				
Ptvalism	3	6	9	Civentation.							
Peritonitis Quinsy	52 49	133 29	185 78	Augina matoria	18	17	35				
Stomatitis	23	29	45	Abgina pectoris	18	13	31				
Tonsillitis	150	202	352	Atheroma of vessels	14	-1	18				
Typhlitis Ulceration of Stomach	<u>- 221</u> - 40	133 69	$\frac{354}{109}$	Cyanosis Disease of aortic valves	3) 45	1 23	$\frac{4}{68}$				
Appendicitis	305	274	579	** mitral valves	-99	55	154				
Intestinal obstruction Other diseases of ailmentary	15	9	24	 tricuspid valves. pulmonary artery 	-5 10	12	6				
canal	8	12	20	Endocarditis	45	32	74				
Total	1.001	1 -00		Heart, dilation of	47	22	(9 23				
rotar	1,961	1,796	3,757	 hypertrophy degeneration 	24	11	35				
Brain and Nerrous System.				Nævus	5	5	10				
Apoplexy	36.	17	-53	Pericarditis	30 13	$\frac{18}{21}$	48 34				
Chorea,	16	52	68	Phlegmasia dolens	5	12	17				
Catalepsy Concussion of brain	3 42	41 6	$\frac{7}{48}$	Varicose veins Heart failure	112	116	228 2				
** spine	13	7	20	Tobacco heart	1.		1				
Compression of brain	8	3		· Total	506	373	879				
Delirium tremens	7.0	6	81	rotat	entry	*****					
Epilepsy.	55	47	102	Dislovations,							
Hemiplegia Hysteria.	$\frac{60}{44}$	$\frac{51}{189}$	$\frac{111}{233}$	Ankle	38	24	62				
Inflammation of brain,	19	12	31	Bones of the hand	18	5	23				
Insolation Insomnia,	$\frac{3}{40}$	42	3. 82	foot	$\frac{15}{29}$	12	- <u>22</u> - 41				
Insanity	36	81	117	Elbow	13	8	21				
Locomotor Ataxia Nyelitis	33 10	9. 10	42 20	Femur Humerus	26 25	15	41 32				
Neuralgia	121	137	258	Knee	10	ŝ	18				
Neuroma	$\frac{7}{70}$	15 44	$\frac{22}{114}$	Lower maxilla Patella	5	· · · ·	8.2				
Paraplegia	-46	-22	68	Vrist	13	3 7	20				
Paralysis agitans	5	2 6	17								
Softening of the brain Spina bifida	5	2	15	Total	200	96,	296				
Sciatica	77.	43.	120	Ear.							
Spinal curvature Tubercular meningitis	29 22	$\frac{27}{36}$	56 58	Cophosis.	7	6.	13				
Tetanus	-4	- 6	10	Otorrhea	16	15	31				
Neurasthenia		194	282	Otitis media Mastoid abscess	70	63 16	133 24				
Other nervous diseases	17		26	Other diseases of the ear.	i.		1				
Total	998	1,086	2,084		102	100	202				
10(4)	110	1,000	=1.10.3	100000 · · · · · · · · · · · · · · · · ·	117-1	1000	-''-				

TABLE No. II.-Continued.

Disease.	ೆ	Female.	ıl.	Disease.	đ	Female,	rl.
A PAIDL CALCE I	Male.	Peth	Total.	a fact terres	Male.	m-2	'otal,
Eye.				Nose and Face,			
•	-						
Amaurosis Amblyopia	53	2	9-5-	Catarrh	82 12	73	155 21
Blepharospasmus.	2	3	5	Epistaxis	24	8	32
Cataract	146	113 6	$\frac{259}{13}$	Liyoma	8	4	12 9
Entropion	$\frac{7}{4}$	2	9	Ozœna Polypus	6 43	3 49	92
Foreign body in the eye	72	4	76	Adenoids and tonsils	- 88	114	202
Glaucoma Iritis	$\frac{23}{72}$	35. 53	$\frac{58}{125}$	Hair lip and cleft palate. Other diseases of nose & face	18	9	27 13
Keratitis	28	23	51	order diseases of hose & face			
Leucoma	5	2	7	Total	290	273	563
Ophthalmia catarrhal	35 38	$\frac{21}{20}$	56 58	Poisons.			
" purulent	14	8	22				
granular gonorrhœal	22 23	$\frac{17}{17}$	$\frac{39}{40}$	Gases .	17	1	18 42
Pterygium			-10	Irritant Lead poisoning	21 12	21	12
Retinitis	17	217	24	Narcotic	10	10	20
Sclerotitis	$\frac{10}{9}$	$\frac{5}{4}$	15	Narcoto-irritant	6	2	8
Strabismus	22	33	55	Total	66	34	100
Trichiasis Ciliorum	$\frac{2}{79}$	1	3				
Errors of Refraction	12	50 2	$\frac{129}{9}$	Respiratory Organs,			
Epiphora	-4	5	9	Asthma	- 92	81	173
Other diseases of the eye.	9	3	12	Bronchitis, acute	294	207 691	$\frac{501}{183}$
Total	664	442	1,106	" chronic Croup	28	32	60
Proved a set				Emphysema of lung	25	23	48
Fractures.				Empyema Hydrothorax	66 5	$\frac{38}{2}$	104
Bones of the head and face.	77	11	- 88	Pneumonia	323	209	532
** hand ** foot	36 53	$\frac{14}{13}$	$\frac{50}{66}$	" pleuro	63 23	52	$\frac{115}{52}$
" pelvis	6	8	14	typho broncho	35	29 32	67
Claviele	27)		35	Pleurisy	182	116	298
Femur Fibula	$\frac{130}{79}$	$\frac{76}{17}$	$-206 \\ -96$	Phthisis Pleurodynia	$\frac{142}{16}$	131	$273 \\ 29$
Humerus	54	23	77	Tuberculosis	317	258	575
Patella Ribs.	$\frac{24}{57}$	$\frac{2}{15}$	26	Laryngitis	12	12	24
Radius	38	$\frac{10}{20}$	72 58	Hæmoptysis Other diseases	3 5	27	5 12
Seapula	14	6.	20				
Sternum	138	$\frac{1}{20}$	$\frac{1}{158}$	Total	1,745	1,313	3,058
Ulna	21	3	24	Spileen.			
Vertebra	8	1	9	Sulanitia	-		-
Total	762	238	1,000	Splenitis Waxy spleen	3		3
				(T)			
Liver. Abscess of liver	14	15	29	Total	10	•••••	10
Acute atrophy of liver	6	-4	-10^{4}_{1}	Skin.			
Cirrhosis	26	24	50	1		_	
Fatty liver Gall stones	26	$\frac{11}{57}$	$\frac{18}{83}$	AcneBoils	6 37	5 9	$\frac{11}{46}$
Hepatitis	30	18	48	Burns and scalds	67	51	118
Hydatids of liver Jaundice	$\frac{2}{36}$		$\frac{2}{69}$	Chilblams Carbuncle	$\frac{18}{33}$	10	28
Waxy liver			5	Corns and Bunions	33 6	$\frac{13}{13}$	46 19
Total		169		Channel of the			
L'Ut di L	151	163	314	Carried forward			• • • • •

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TABLE No II.-Continued.

	1						
Disease.	le,	J ⁷ emale.	al.	• Disease.	e.	Female.	al,
	Male.	Jen	Total.		Male.	Fen	Total.
Skin Continued.				Women.			
Brought forward				Amenorrhœa		33	33
				Abortion		108	108
Elephantiasis	1 - 130		-219	Dysmenorrhœa Erosion of Os Uteri		98 147	98
Erythema	7	11	18	Fistula Recto-Vaginal		43	-43
Frost Bites Herpes	36 11	57	$\frac{41}{18}$	" VesicoVaginal Metritis and Endometritis.		$\frac{20}{582}$	20 582
Impetigo	6	6	12	Menorrhagia		89	89
Intertrigo	$\frac{2}{21}$	$\frac{5}{10}$	7 31	Ovarien Disease		$\frac{442}{70}$	442 70
Lichen	21	2	4	Salpingitis Parturition		841	841
Onychia Pruritus	3	75	10	Premature Labour		77	$\frac{77}{18}$
Pediculi	13	3	8 16	Ectopic Gestation Uterus, anteversion of		$\frac{18}{45}$	45
Pityriasis	2	1	3	retroversion of		154	154
Psoriasis Roseola	12 4	10	22	" anteflection of		$\frac{24}{39}$	24 39
Rupia	3	1	4			10	10
Ringworm Scables	$\frac{36}{22}$	61	$\frac{42}{31}$	" prolapsus of Womb, polypus of		85 53	85 53
Sycosis	18	6	24	" fribroid of		158	158
Urticaria	$\frac{8}{27}$	9 10	$\frac{17}{37}$	" cancer of		$-121 \\ -109$	$\frac{121}{109}$
Jehthyosis		1	1	Laceration of cervix		126	126
Pemphigns Other diseases of the skin	2 5		21.8	Other diseases		66	66
				Total		3,558	3,558
Total	541	310	551	Zymotic and General,			
Urinary Organs,			j	Anæmia	112	262	374
Bright's Disease, acute	99	70	169	Anasarea	$\frac{11}{4}$	$\frac{7}{6}$	18 10
" chronic .	58	41	99	Cholera, Asiatic	· · · · · · ·		
Balanitis Bubo	$\frac{8}{29}$	13		" morbus	8	9. 12	$\frac{17}{23}$
Cystitis	137	114	251	Chlorosis		59	59
Condyloma Diabetes Mellitus	$\frac{1}{25}$	$\frac{6}{21}$	$\frac{7}{46}$	Diphtheria Dropsy	$\frac{281}{53}$	377 47	658 100
" Insipidus	-0	6	7	Erysipelas	91	50	141
Enlarged Prostate Epididymitis	59- 36		59 36	Fever, intermittent	21 7	28 9	49 16
Gonorrheea	136	64	-200	" searlet	276	- 380	656
Gleet Hydrocele	1	· · · · · ·	$\frac{1}{77}$	· pernicious	$\frac{1}{48}$	2 34	$\frac{3}{82}$
Hæmatocele.	77	$\frac{2}{2}$	10	" typho-malarial " typhoid	1.328	739	2,067
Incontinence of Urine Pyelitis	27	26 61	$\frac{53}{15}$	" typhus	1	4	5 14
Phymosis	115		115	 cerebro-spinal puerperal 		23	23
Paraphymosis	8		8	" continued	11 9	3 1	$\frac{14}{10}$
Retention of Urine Suppurative Nephritis	$\frac{37}{40}$	27 35	$\begin{array}{c} 64 \\ 75 \end{array}$	Gont	216^{9}	178	394
Stricture	108	111	119	Lencocythemia	101	107	$\frac{2}{208}$
Spermatorrhœa Urinary Calculus	$\frac{5}{66}$	20)	5 86	Measles Mumps	$\frac{101}{84}$	$\frac{107}{12}$	208
Ectopia Vesica	4	1	5	Pyæmia, septicæmia	87	105	$\frac{192}{23}$
Floating Kidney Varicocele	$\frac{2}{75}$	54	$\frac{56}{75}$	Purpura Rheumatism, acute	322	$\frac{16}{177}$	499
Congenital defects	3	1	- 4	· chronie	193	117	$\frac{310}{36}$
Other diseases	1	õ	6	" gonorrheal .	29	7	
Total	1,175	523	$1,698^{[]}$	Carried forward			

TABLE No. II. - Concluded.

Disease.	Male.	Female.	Total.	Disease.	Male.	Female.	Potal.
Zymotic and General.—Cont. Brought forward Small pox Serofula. Syphillis, primary '' secondary '' tertiary '' tertiary '' hereditary Vaccination Whooping cough Anthrax Chaneroid. Tuberenlar disease, n. e. s. Hodgkins disease Marasmus	⁸ 8 18 62 26 5 17 10 1 1 23 1	4 4 21 37 41 26 6 13 15 15 15 15 11 300 1 1		Miscellaneous, not otherwise classed.—Continued. Bronght forward Bursitis Genu Valgum Loose cartilage in knee Coccygodynia Frost bite Bell's paralysis Cellulitis Coxalgia Debility. Goitre Gangrene Gunshot wounds.	6 3 2 1	1 2 3 1 1 50 32	$ \begin{array}{c} 13\\ 1\\ 5\\ 1\\ 1\\ 2\\ 104\\ 68\\ 336\\ 79\\ 59\\ 68 \end{array} $
Total Miscellaneous, uot otherwise classed.	3,524	2,975	6,499	Hernia Injuries not otherwise class d Sprains Tumors—fibroid —fatty. —cartileginous		$215 \\ 37 \\ 128 \\ 63$	887 (148 147 78
Abcess, general psoas of breast Alcoholism Amputations	$283 \\ 21 \\ 2 \\ 616 \\ 195$	188 11 42 40 39	$471 \\ 32 \\ 44 \\ 656 \\ 234$	" —eystie. " —other Tetanus Talipes Ulcers	$ \begin{array}{r} 75 \\ 10 \\ 75 \\ 219 \end{array} $	$126 \\ 7 \\ 21 \\ 168$	$ \begin{array}{r} 121 \\ 201 \\ 17 \\ 96 \\ 387 \end{array} $
Cancer, epithelial Enecphaloid schirrus Contusions Synovitis	$ \begin{array}{r} 135 \\ 75 \\ 13 \\ 2 \\ 251 \\ 30 $	$ \begin{array}{r} 100 \\ 64 \\ 18 \\ 3 \\ 42 \\ 20 \\ 20 \end{array} $	235 139 93 5 293 50	Sinns Morphinism Sarcoma. Prolapsus ani. Cocainism Lumbago	5 2 9 2 1 8	5 7 4 1	16 6 1 9
Adenitis Uraemia Orchitis Arthritis Ingrown toe nail. Pott's Disease	10 5 38	$\begin{array}{c} 26\\11\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $		Fissure of anus Collapse Deformities and diseases of joints, n. e. s	27		2 1 139 68
Torticollis Hip joint disease Carried forward	23	2 16	39	Total Grand total	$\begin{vmatrix} 3,801 \\ 16,859 \end{vmatrix}$	2,301 15,786	6,102 32,645

No. 4	
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Name of Hospital.	Location.	Number of pa- tients, includ- ing infants born.	Collective stay of infants under one year of age.	Collective stay of adult patients.	Total collective stay of adults and infants.	Average stay of each patient, including the infants.
General Hospital Grace Homeopathie Hospital Hospital for Sick Children St, Michael's Hospital. Western Hospital. The Orthopedic Hospital. City Hospital St. Joseph's Hospital General Hospital Hotel Dieu Hospital General Protestant Hospital Misericorde Maternity Hospital. Sick Children's Hospital Maternity Hospital St. Luke's General Hospital General Hospital General Hospital St. Joseph's Hospital General Hospital General Hospital General Hospital General Hospital St. Joseph's Hospital General Hospital St. Joseph's Hospital General Hospital St. Joseph's Hospital St. Joseph's Hospital General Hospital St. Joseph's Hospital St. Joseph's Hospital General Hospital St. Joseph's Hospital General Hospital St. Joseph's Hospital St. Joseph's Hospital General Hospital St. Joseph's Hospital St. Joseph's Hospital St. Joseph's Hospital St. Joseph's Hospital St. Joseph's Hospital St. Joseph's Hospital St. Vincent de Paul Hospital. St. Vincent de Paul Hospital. St. Vincent de Marine Hospital. St. Joseph's Hospital	Toronto	3,432 1,188 749 2,425 929 278 1,411 456 1,470 1,475 1,374 1,374 1,374 1,374 1,374 1,374 1,374 1,374 1,475 333 949 1,422 573 341 341 725 394 404 * 469 511 456 770 501 200 504	$\begin{array}{c} 2.114\\ 325\\ 700\\ 1,625\\ 471\\ 18\\ 533\\ 63\\ 230\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$\begin{array}{c} 91,767\\ 24,713\\ 39,801\\ 58,213\\ 24,384\\ 11,927\\ 31,483\\ 11,102\\ 25,739\\ 33,979\\ 30,495\\ 40,202\\ 11,290\\ 3,438\\ 2,330\\ 12,896\\ 7,376\\ 6,803\\ 20,079\\ 10,327\\ 9,901\\ \dots\\ 9,590\\ 12,515\\ 7,874\\ 18,198\\ 12,342\\ 3,985\\ 7,568\\ 7,568\\ 12,785\end{array}$	$\begin{array}{c} 93,881\\ 25,038\\ 40,501\\ 59,838\\ 24,855\\ 11,945\\ 32,016\\ 11,165\\ 25,969\\ 33,979\\ 30,584\\ 40,223\\ 11,683\\ 3,485\\ 4,140\\ 18,236\\ 33,650\\ 13,178\\ 7,572\\ 20,661\\ 10,404\\ 9,901\\ 12,550\\ 8,109\\ 12,550\\ 8,109\\ 12,550\\ 8,109\\ 12,770\\ 4,216\\ 7,609\\ 12,785\end{array}$	$\begin{array}{c} 27\\ 21\\ 54\\ 25\\ 27\\ 43\\ 24\\ 17\\ 23\\ 224\\ 17\\ 23\\ 24\\ 17\\ 23\\ 24\\ 21\\ 23\\ 220\\ 28\\ 26\\ 24\\ 21\\ 24\\ 17\\ 23\\ 25\\ 21\\ 27\\ 21\\ 27\\ \end{array}$
St. Joseph's Hospital Hotel Dieu Hospital General Hospital Amasa Wood Hospital General and Marine Hospital General and Marine Hospital General Hospital St. Joseph's Hospital General Hospital Huntsville Hospital Woodstock Hospital Berlin and Waterloo Hospital General Hospital Hotel Dieu Hospital General Hospital	Windsor Chatham Stratford St. Thomas Owen Sound Sudbury Huntsville Woodstock Berlin Sarnia Barrie Cornwall Gravenhurst Rat Portage Parry Sound Sault Ste, Marie. Renfrew Thessalon Fergus	$\begin{array}{c} 336\\ 508\\ 500\\ 289\\ 184\\ 267\\ 171\\ 306\\ 390\\ 332\\ 156\\ 155\\ 317\\ 140\\ 517\\ 305\\ 251\\ 109\\ 165\\ 789\\ 101\\ 38\\ 129\\ \end{array}$	$\begin{array}{c} & & & & \\ & & 432 \\ & & 440 \\ & & 170 \\ & & 139 \\ & & 88 \\ & & & \\ & & 43 \\ & & 209 \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & &$	$\begin{array}{c} 13,785\\6,759\\9,803\\12,970\\6,651\\3,645\\6,466\\2,898\\4,882\\7,669\\7,135\\3,724\\3,559\\7,009\\3,492\\14,102\\8,391\\24,439\\2,605\\2,480\\15,452\\1,452\\2,480\\15,452\\1,452\\2,480\\15,452\\2,480\\15,452\\2,480\\15,452\\2,474\\2,$	$\begin{array}{c} 13,785\\ 6,759\\ 10,235\\ 13,410\\ 6,821\\ 3,784\\ 2,898\\ 4,882\\ 7,712\\ 7,344\\ 3,724\\ 3,645\\ 7,064\\ 3,515\\ 14,102\\ 8,391\\ 24,439\\ 2,611\\ 2,520\\ 15,452\\ 1,493\\ 902\\ 2,576\\ \end{array}$	$\begin{array}{c} 20\\ 20\\ 27\\ 23\\ 20\\ 24\\ 16\\ 16\\ 20\\ 22\\ 24\\ 23\\ 22\\ 25\\ 27\\ 27\\ 97\\ 24\\ 16\\ 20\\ 14\\ 23\\ 19\\ \end{array}$
Total for 1902 Total for 1901		$33,113 \\ 32,929$	13,510 13,401	$\frac{804,312}{761,822}$	817,822 780,613	24 25

TABLE III.—Shewing the collective stay in days of the adult and infant patients ; also the average length of time each patient was under treatment.

*Hospital and records destroyed by fire.

coming within these classes c	my seven cents p			
Name of Hospital.	Location.	Collective days' stay, exclusive of infauts, under one year of age.	Deduct for incurables and lying-in cases, for which only Re- finge rate is allowed, also deduct the days' stay of patients who puil \$3 and over per week, also infants under one year.	Number of days' stay for which Hospital allowance is to be made.
General Hospital	Toronto	$\begin{array}{c} 91,767\\ 24,713\\ 39,801\\ 58,213\\ 24,384\\ 11,927\\ 31,483\\ 11,102\\ 25,739\\ 33,979\\ 40,202\\ 11,290\\ 3,438\\ 2,330\\ 18,221\\ 33,030\\ 12,896\\ 7,376\\ 6,803\\ 20,079\\ 10,327\\ 10,323\\ \end{array}$	$\begin{array}{r} 22,217\\ 8,949\\ 738\\ 2,243\\ 1,122\\ 17,742\\ 3,403\\ 7,913\\ 3,037\\ 16,069\\ 15,307\\ 5,650\\ 920\\ 78\\ 1,219\\ 14,054\\ 8,486\\ 2,919\\ 3,033\\ 4,957\\ 3,520\\ 3,520\\ \end{array}$	$\begin{array}{c} 69,550\\ 15,764\\ 39,063\\ 55,970\\ 23,262\\ 11,927\\ 13,741\\ 7,699\\ 17,826\\ 30,942\\ 14,426\\ 24,895\\ 5,640\\ 2,518\\ 2,252\\ 17,002\\ 18,976\\ 4,410\\ 4,457\\ 3,770\\ 15,122\\ 6,804\\ 7,723\\ \end{array}$
General Hospital. General Hospital. J. H. Stratford Hospital. St. Joseph's Hospital. Belleville Hospital. General Hospital. General Hospital. St. Joseph's Hospital. Hotel Dien Hospital. General Hospital.	Mattawa. Brantford. Port Arthur Belleville Collingwood Peterborough. Windsor Chatham Stratford. Stratford. Stratford. Sudbury	9,901 9,590 12,515 7,874 18,198 12,342 3,985 7,568 13,785 6,759 9,803 12,970 6,651 3,645 6,466 2,898 4,892	$\begin{array}{c} 2,178\\ 3,056\\ 3,650\\ 2,087\\ 5,101\\ 6,941\\ 1,603\\ 4,018\\ 4,627\\ 3,354\\ 5,885\\ 2,945\\ 3,988\\ 398\\ 1,006\\ 108\\ 91\\ \end{array}$	$\begin{array}{c} 6,534\\ 8,865\\ 5,787\\ 13,097\\ 5,401\\ 2,382\\ 3,550\\ 9,158\\ 3,405\\ 3,918\\ 10,025\\ 2,663\\ 3,247\\ 5,460\\ 2,790 \end{array}$
St. Jos ph's 'riospital General Hospital. Huntsville Hospital Berlin and Waterloo Hospital General Hospital Royal Victoria Hospital Hotel Dien Hospital. General Hospital Sational Sanatorum Hospital General Hospital General Hospital General Hospital General Hospital Victoria Hospital Victoria Hospital Royal Alexandra Hospital	Huntsville Woodstock Berlin Sarnia Barrie Cornwall Gravenhurst. Rat Portage Parry Sound Sault Ste. M	$\begin{array}{c} 4,882\\ 7,669\\ 7,135\\ 3,724\\ 3,559\\ 7,009\\ 3,492\\ 14,102\\ 8,391\\ 24,439\\ 2,605\\ 2,480\\ 15,452\\ 1,452\\ 902\\ 2,474\end{array}$	$91 \\ 68 \\ 72 \\ 189 \\ 285 \\ 247 \\ 240 \\ 68 \\ 2,819 \\ 5,893 \\ \dots \\ 2 \\ 89 \\ 82 \\ 19 \\ 106$	$\begin{array}{c} 4,791\\ 7,601\\ 7,063\\ 3,535\\ 3,274\\ 6,762\\ 3,252\\ 14,034\\ 15,572\\ 18,546\\ 2,605\\ 2,478\\ 15,363\\ 1,370\\ 883\\ 2,368\\ 2,368\end{array}$
			201 - 01	

TABLE IV. -Shewing the deductions which have to be made from the collective stay of patients, for the protracted residences of incurables, and lying-in-cases, etc. For persons coming within these classes only seven cents per day is allowed.

* Hospital and records destroyed by fire.

804.312

204,794

599,518

			a			
		Amount received from municipalities as a grant, and for pati- ents' maintenance.	mount received from patients for hoard.	Amount received as income from pro- e pertyorinvestments helonging to Hospi- tal.	ubscription and do- nations of private individuals and in- cidental receipts.	Total receipts from all sources other than the Gov ernment grant.
		d.	l fi	Te de la constante de la const	d d.	n ti
	k -	for	P S	ive m F	and priv and eipts.	fr er n r
		in tein	5 E	tree tree	ecels a	t li
Name of Hospital.	Location.	ain a	s f c	in the second	l'r	v eip
1		Amount received from municipalities a grant, and for performant ents, maintenant	nount received fro patients for board	gi or t	Subscription and nations of priv- individuals and cidental receipts.	ital recei sources the Gov grant.
		un turi (s,	tie	un vio	eri eri	ntal rec source the G grant.
		- nu son -	bu Da	al period	bs brid	the
		An	An	Ā	7	E
		8 c.	\$ c.	. Т. 8° с.	S c.	8 c.
General Hospital	Toronto	14,283 95	35,357 0		4,219 01	73,444 24
Grace Homeopathic Hosp.		3,701 20	15,353 19		936 00	
Hospital for Sick Children		10,527,75	4,264 56		12,666 75	
St. Michael's Hospital	64	12,849 85	-15,285 01	Barre a la	1,631 00	
Western Hospital.		-3,918 00	9,986-60)		13,904 60
The Orthopedic Hospital.	**		10,694 54			
City Hospital.	Hamilton	33,099-26	10,381 73			33,480 99
St. Joseph's Hospital	** ***	138 85	4,854 6			5,969 95
General Hospital	Kingston	2,980.00)	-3,201 03	
Hotel Dien Hospital		900-00	-477500			
General Protestant Hosp.	Ottawa	5,896 05	9,570 99		7,364 45	
Roman Catholic Hospital .	66	2,362,00	7,942 36		1,431 46	
Misericorde Maternity Hos		250 00)	6,215 48	7,438 48 3,306 47
Sick Children's Hospital.	· · · · · · · · · · · · · · · · · · ·	250,00 225,00	-1,222 31 -2,271 23		1,834 16 939 90	
St. Luke's GeneralHospit'l	** ***	499 98	10.265 92		3,971 14	14,937 04
General Hospital	London	18,110 31	13,802 82			32,357 41
St. Joseph's Hospital			7,844 01		1,544 75	9,388 76
General and Marine Hosp.	St. Catharines		3,855 53	3 200 00	3,422 19	9,217 72
Galt Hospital	Galt	2,100,00	3,393-39		532 80	6,026 19
General Hospital	Guelph	3,285.00	9,012-56		2,724 93	15,029 95
St. Joseph's Hospital		1,000,00	-4,588.79		$150 \ 75$	5,739 54
General Hospital	Pembroke	200_00	1,903 40		1,907.88	4,011 28
General Hospital	Mattawa	*				
J. II. Stratford Hospital	Brantford	3,250,00	-3,762 40			7,012 40
St. Joseph's Hospital	Port Arthur	400,00			2,069 00	5,348,93
Belleville Hospital	Belleville	614 75			2,064 22	5,523 58
St. Vincent de Paul Hosp.	Brockville	700-00	4,943 61		-3,858,70	9,622 31
General Hospital	G-IV- A	850-00	-6,278 87		-2,473 21	10,021 40
General and Marine Hosp.	Collingwood	700-00	$^{-2,360}_{-2,759}$ 00		$942 22 \\ 4,035 00$	4,002 67 10,866 00
Nichol's Hospital	Peterborough.	75 00		+	1,995 00	4,544 50
St. Joseph's Hospital Hotel Dieu Hospital	Windsor	376 91			37 35	3,443 05
St. Joseph's Hospital	Chatham		-6,812 25		12 50	6,894 75
General Hospital	"	420 00			5 00	6,673 42
General Hospital	Stratford		4,710 58		1,212 46	6,692 79
Amasa Wood Hospital	St. Thomas		2,309-00			5,892 80
General and Marine Hosp.	Owen Sound		-2,571 24	132 54	855 57	4,784-35
General Hospital	Sudbury		1,665.68		-1,629 40	3,295 08
St. Joseph's Hospital .	G				-2,470 59	4,183 88
General Hospital	Huntsville				2,997 38	3,353 38
Huntsville Hospital			-592.00		-3,250,24	3,937 74
Woodstock Hospital	Woodstock		-3,130 15		474 45	4,804 60
Berlin and Waterloo Hosp	Berlin		-1,764 87 5 1 (2 87		$752 02 \\ 1,551 53$	5,343 37 7,965 40
General Hospital	Sarnia Barrie		= 5,143 87 = 1,785 10		$422 \ 30$	2,757 40
Royal Victoria Hospital.		575 00		100 00	1,662 58	4,189 70
Hotel Dieu Hospital General Hospital	Cornwall	800 00			1,894 46	4,770 79
National Sanitarium Hosp		338 00			13,484 69	38,315 71
General Hospital	Rat Portage.	423 45			1,101 21	3,289 79
General Hospital	Parry Sound.	75 00			1,888 95	2,846 45
General Hospital	Sault St. Marie	300-00			360 75	7,632 04
Victoria Hospital	Renfrew	593 33	734 00		585 39	1,912 72
Victorian Hospital	Thessalon		219 50		388 50	608 00
		400 00	2,718 26		2,835 19	5,953 45
		1000 800 000		20 102 12	1	
Total		136,755 95	293,098-33	26,487 55	108,992 96	381,585 56

TABLE V.--Relative to Income of Hospitals.

* Hospital and records destroyed by fire.

TABLE VISP	lowing the basis				granteu.	
		stay ospi- sed	Collective days' stay upon which compu- tation of R e f u g e rate is hased.	at a star	rant for Hospital	Amount payable to cach Hospital from appropriation by the Legislature.
		ollective days' stay upon which Hospi tal grants are based	st m	efa trol		e fre
		days' nich H Is are b	ef.	1 and a sol	grant Hosp	A a a
		ar Ha	S-LAR	F SC H	50	e ioi
N CITE IN 1	T time	P in S	h f f	ne rati		bal ba
Name of Hospital.	Location.	Collective npon wh tal granti	e who d	mputation perday,be rates for cases for treatment	Amount of proper cases,	House
		ti a E	tiv n	uta s s tm	z. It	Amount cach 1 approf Legisl
		201	ec tri	up Pre- tre Use Ca	L L L	eg ben
		E E E	llo lla su	E S E S T	2 A S	Las en
		<u> </u>	0		<	· <
,				8 c.	\$ c.	S 0
General Hospital	Toronto	69,550	6.226	435 82	12,088 65	12,524 41
Grace Homeopathic Hospital.	** ****	15,764	712	49 84	-2.740 07	-2,789 9
Hospital for Sick Children		39,063			6,789 65	
St. Michael's Hospital	16	= 55.970	2,243	157-01	9,628-30	9,785-3
Western Hospital		-23,262	1,122	78 54	4,038 80	4,117 34
The Orthopedic Hospital	** ***	11,927	1,332	93 24	2.073 16	2,166 40
City Hospital	Hamilton	13,741	3,701	259.07	2,388 45	-2,647 5:
St. Joseph's Hospital		7,699	589	41 23	1,338 30	1,379 5
General Hospital	Kingston	17.826	1,688	118 16	3,098 45	3,216 6
Hotel Dieu Hospital		30,098	2,132	149 24	5,231 44	5,380 6
General Protestant Hospital.	Ottawa	14,426	9.711	679 77	2,507 52	
Roman Catholic Hospital	**	24,895		736 61	4,327 10	5,063 71
Misericorde Maternity Hospit'l	**	5,620		362-95	976 90	1,339 8.
Sick Children's Hospital	66	2,518		64 40	437 73	502 13
Maternity Hospital	44 · · · · · · ·	2,252	78	5 46	-401.50	406 90
St. Luke's General Hospital	**	17,002		85-33	-2,955 25	3,040 58
General Hospital	London	-18,976	4.157	290-99	-3,318 35	3,609 3-
St. Joseph's Hospital	**	4,410	66	4 62	766 65	771 2
General and Marine Hospital.	St. Catharines	4,457	517	36-19	774 80	\$10.99
Galt Hospital	Galt	3,770		8 54	655 33	663 8
General Hospital	Guelph	15,122	1,104	77-28	-2.628 50	2,705 78
St. Joseph's Hospital	G	6,804	321	22 47	-1,182 70	-1,205 17
General Hospital	Pembroke	7.723	281	19-67	1,342 43	1,362 10
General Hospital	Mattawa				675 00	675 00
J. H. Stratford Hospital	Brantford	6,534	887	62-09	1,132 80	1,194 89
St. Joseph's Hospital	Port Arthur	8,865	498	34 86	1,540 80	1,575-66
Belleville Hospital	Belleville	5,787	487	34 09	-1,005/82	-1.039 9
St. Vincent de Paul Hospital.	Brockville	13,097	1,196	83-72	-2,276 52	-2,360,2
General Hospital	••• ••••	-5,401	905	63-35	938 83	-1,002 18
General and Marine Hospital	Collingwood	2,382	226	15/82	414 10	429 9
Nichol's Hospital	Peterborough.	3,550	816	57.12	617 10	674 2:
St. Joseph's Hospital	• 6	9.158	-2,163	$151 \ 41$	1,591 93	1,743 34
Hotel Dieu Hospital	Windsor	3,405	89	6 23	591 90	598 1:
St. Joseph's Hospital	Chatham	3,918	341	23 87	$-681 \cdot 05$	704 9:
General Hospital	G	10,025	-2.945	206.15	1.742.58	1,948 73
General Hospital	Stratford	2,663	75	5 25	462 95	468 20
Amasa Wood Hospital.	St. Thomas	3,247	398	27 86	564 44	592 30
General and Marine Hospital.	Owen Sound	5,460	1,006	70-42	949-08	1,019 50
General Hospital	Sudbury	2,790	108	7-56	485 00	492 50
St. Joseph's Hospital	6 T	4,791	91	6 37	832 80	839 17
General Hospital	Huntsville	7,601	68	4 76	1,321-25	-1,326 01
Huntsville Hospital	* 6	1,003	72	5 04	1,227 75	1,232 79
Woodstock Hospital	Woodstock	3,535	189	13 23	614 30	627 53
Berlin and Waterloo Hospital.	Berlin.	3,274	285	19 95	-569.15	589 H
General Hospital	Sarnia	6.762	247	17 29	-1,175 40	1,192 69
Royal Victoria Hospital	Barrie	3,252	240	16-80	565-30	
Hotel Dieu Hospital	Cornwall	14,034	68	4 76	-2,439 40	2,444 10
General Hospital	55	5.572	2,819,	197-33	968 55	1,165 88
National Sanitarium Hospital.	Gravenhurst	18,546	5,893	412 51	3,223 65	3,636 10
General Hospital	Rat Portage	2,605			452 84	452 84
General Hospital	Parry Souud	2,478	2	14	430 80	430 94
General Hospital	Sault St. Marie	15,363	89	6 23	2,670 40	2,676 6:
Victoria Hospital	Renfrew	1.370	82	5 74	238 15	243 89
Victorian Hospital.	Thessalon	\$83	19	1 33	153 55	154 88
Royal Alexandra Hospital	Fergus	2,368	106	7 42	411 65	419 07
Totals for 1902		598,654	76,359	5,345 13	104,654 87	110,000.00
·· ·· 1901		603,559	74,013		104,819.09	
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TABLE VI.-Showing the basis upon which statutory aid is granted.

2 H.

Name of Hospitals.	Location.	Collective day stay, exclusive infants, under o year of age.		Salavies, fuel, ligh medicine, beddin and all other of penditures on mai tenance account.	Total expenditu for maintenane	Average cost of ea patient per day
General Hospital	Toronto	91,767	\$ 0. 30,965-52	\$ c. 54.875 82	\$ c. 85,841 34	.93
Grace Homeopathie Hospital.		24,713	7,049 82	13,265 02	20,314 84	.82
Hospital for Siek Children		39,801	8,796-71	26,919 29	-35,716.00	.89
St. Michael's Hospital		58,213	18,933 71	20,290 19	39,223 90	.67
Western Hospital	**	24,384	4,943 03	11,740 90	16.683 96	.68
The Orthopedic Hospital City Hospital	Hamilton	11,927 31,483	-2,208 11 -9,348 08	11,235 29 23,023 75	13,443 40 32,371 83	$1.12 \\ 1.02$
St. Joseph's Hospital		11,102	4,306 49		8,153 61	.73
General Hospital	Kingston	25,739	7,035 17	10,274 99	17,310 16	.67
Hotel Dieu Hospital		33,979	9,311 21	10,226 49	19,537 70	.57
General Protestant Hospital.		30,495	-9,467-69	17,18F 34	26,649 03	.87
Roman Catholie Hospital Misericorde Maternity Hospital		40,202 11,290	-9,317 00 -2,924 91	-11,230 66 6,085 84	20,547 66 9,010 75	.51 .79
Sick Children's Hospital		3,438	1,057 95	-2,420.55	-3,478 50	1.01
Maternity Hospital		2,330	1,231 05	2,382 77	3,613 82	-1.55
St. Luke's General Hospital	** ******	18,221	4,905 44	11,414 42	16,319-86	.89
General Hospital	London	33,030	11,549,00	25,633 51	37,182 51	1.12
St. Joseph's Hospital	St Cathanines	$12,896 \\ 7,376$	3,740 54 2,357 31	6,226 95 4,320 33	9,967 49 6,677 64	.77 .90
Galt Hospital		6,803	1,708 44	4,515 44	6,223 88	.91
General Hospital		20,079	4,083 86	10,993-82	15,077 68	.75
St. Joseph's Hospital		10,327	3,458-22	3,772 16	7,230 38	.60
General Hospital	Pembroke	9,901	1,858 05	3,259/38	5,117 43	.51
General Hospital	Mattawa	9,590	2,219 40	7,769 43	9,988 83	1.04
J. H. Stratford Hospital St. Joseph's Hospital	Port Arthur	12,515	3,008 45	4,873 00	7,881 45	.62
Belleville Hospital		7,874	1,961 78	4,517 93	6,479 71	.82
St. Vincent de Paul Hospital.	Broekville	18,198	4,237 84	7,167 22	11,405 06	.62
General Hospital		12,342	3,126 34	8,124 74	11,251 08	.91
General and Marine Hospital.		3,985 7,568	1,243 87 2,503 10	$\begin{array}{c} 3,231 & 78 \\ 8,820 & 71 \end{array}$	$\begin{array}{c} 4,475 & 65 \\ 11,323 & 81 \end{array}$	$1.12 \\ 1-49$
Nichol's Hospital St. Joseph's Hospital	1 eter borougn	13,785		[-4,677,10]	-6,917 10	.50
Hotel Dieu Hospital	Windsor	6,759	1,689 55	2,810 96	4,500 51	.66
St. Joseph's Hospital	Chatham	9,803	2,658 27	5,423 35	8,081 62	.82
General Hospital		12,970	2,939 49	4,701 85	7,641 34	.58
General Hospital		6,651	1,702 27	$4,481 \pm 00$	6,183 27 5 161 58	.93 1.41
Amasa Wood Hospital General and Marine Hospital.		$3,645 \\ 6,466$	1,427 87 1,286 62	3,736 71 2,985 54	5,164 58 4,272 16	.66
General Hospital		2,898	846 90	2,122 95	2,969 85	1.02
St. Joseph's Hospital		4,882	$1,431 \ 10$	-2,567 90	3,979-00	.81
General Hospital	Huntsville	7,669		2,865 45	5,182 56	.67
Huntsville Ĥospital	** · · · · · · · · · · · · · · · · · ·	7,135 3,724	2,157 85 1,594 37	3,214 50	5,372 35 5,440 30	$.75 \\ 1.46$
Woodstoek Hospital Berlin and Waterloo Hospital.	Rerlin	3,559	1,394,37 1,111,24	$ \begin{array}{r} 3,845 & 93 \\ 4,204 & 07 \end{array} $	5,315 31	1.40
General Hospital		7,009	3,088 19	5,317 75	8,405 94	1.20
Royal Victoria Hospital		3,492	1,379 20	-2,232 68	3,611 88	1.03
Hotel Dieu Hospital	Cornwall	14,10?	3,183 28	2,973 57	6,156 85	.43
General Hospital National Sanatorium Hospital.		8,391	2,109 62	3,916 43	$\begin{array}{c} 6,026 & 05 \\ 37,020 & 12 \end{array}$	$.71 \\ 1.51$
General Hospital	Bat Portage	$24,439 \\ 2,605$	12,970 88 939 58	24,049 $242,502$ 54	3,442 12	1.32
General Hospital		2,480	1,144 94	1,987 12	3,132 06	1.26
General Hospital		15,452	3,453 17	4,306 14	7,759-31	.50
Victoria Hospital	Renfrew	1,452	450 98	1,625 26	2,076 24	1.43
Vietorian Hospital		902	239-98	700 53	940-51 5 700-22	$1.04 \\ 2.34$
Royal Alexandra Hospital	rergns	2,474	1,442 83	4,356 39	5,799 22	2,04
Totals for 1902		804,312	232,663 38	441,245 83	673,909 21	84
·· 1901		762,467	216,127 54	399,105-28	615,232 82	$87\frac{1}{2}$

TABLE VII .- Shewing the cost of maintaining the Hospitals ; also the average daily cost per patient, etc.

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* Hospital records destroyed by fire.

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		it to a	i i	for	ಲೆ ಪಿ	Percentage of Gov't grant to total for maintenance.
		svenues on muni- tenance account exclusive of flov- erument grant.	grant main-		expenditure. maintenance.	3
		n cco f (20 2	e ne	na	ot:
Name of Hospitals.	Location.	0 0	of .	en ac	nte	e e
Manie of Hospitals.	Locación.	es es ente	d d	Lev Sen	ex)	to to
		Revenues of tenance exclusive erument	éovernment in aid of tenance.	Total revenue maintenace	_ <u>=</u> =	int
		exe exe exe	in ter	ma	Total for t	rret gra
		Re	3		To	Pe
		S c.	\$ c.	<u>\$</u> с,	S C.	
General Hospital	Toronto	73,444 24	-12,303 61	85,747 85	85,841 34	.14
Grace Homeopathie Hospital,		19,984 39	2,737 00	22,721 39	20,314 84	
Hospital for Sick Children		27,709 77	7,159 61	34,869 38	35,716 00	
St. Michael's Hospital		29,765 86	9,588 39	39,354 25	39,223 90	
Western Hospital The Orthopedie Hospital		13,904 60 10,814 93	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	18,040 34 11.805 82	16,683 96	
City Hospital		33.48099	2,719 27	$\left\{ \begin{array}{c} 11,805 \\ 36,200 \\ 26 \end{array} \right\}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
St. Joseph's Hospital	66	5.969 95	1,579 95		8.153 61	
General Hospital		14,728 72			17,310 16	
Hotel Dieu Hospital		9,743 38	5,599 44		19,537 70	
General Protestant Hospital .	Qttawa	22,831 49	-3,549 92		26,649 03	.13
Roman Catholic Hospital	· · · · · · ·	11,835 82			20,547 66	
Miserieorde Maternity Hosp'l.	46 66	7.438 48		9,003 75	9,010 75	
Sick Children's Hospital		3,306 47	362 49		3,478 50	
Maternity Hospital		-3,436 13 -14.027 04			3,613 82	
General Hospital		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	= 2,864,77 = 3,614,77	17,801 81 35,972 18	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$.16
St. Joseph's Hospital		9,388 76		9,973 67	9,967 49	
General and Marine Hospital.		6,555-58	921 05			
Galt Hospital		6,026 19			6,223 88	
General Hospital	Guelph	15,029 95	-2,863.90	-17,893 85	15,077 68	.16
St. Joseph's Hospital		5,739 54	1,346 17	7.085 71	7,230 38	
General Hospital	Pembroke	4,011 28	1,330 34	5,341 62	5,117 43	.24
General Hospital		- 013 10	899 07	899 07	0.000.00	1
J. H. Stratford Hospital St. Joseph's Hospital	Port Authur	$\begin{array}{c} 7,012 \ 40 \\ 5,348 \ 93 \end{array}$	1,334 60 1,323 61	8,347 00 6,672 54	9,988 83 7,881 45	
Belleville Hospital		5,523 58	1,040 02			
St. Vincent de Paul Hospital.		9,622 31	1,857 23		-11,40506	
General Hospital	6.6	10.021 40	1,200 50			
General and Marine Hospital	Collingwood	4,002 67	534 28	4,536-95	4,475 65	.12
Nichol's Hospital	Peterborough	10,866 00		11,625 88	11,323-81	
St. Joseph's Hospital		4,544 50	1,482 39			
Hotel Dieu Hospital		3,443 05	1,151 23			
St. Joseph's Hospital General Hospital	Chatham	6,894 75 6,673 42		8,294 26		
General Hospital	Stratford	6,692 79		$ 8,584 26 \\ 7,706 81 $	7,641 34 6,183 27	
Amasa Wood Hospital	St. Thomas	5,892 80	592 70	6,485 50		
General and Marine Hospital.		4,269 35	700 88	4,970 23	-4,272 16	
General Hospital	Sudbury	3,295 08	494 75	3,789 83	2,969 85	
St. Joseph's Hospital		4,183 88	872 05	5,055-93	3,999-00	.17
General Hospital	Huntsville	3,353 38	1,433 35		5,182 56	
Huntsville Hospital	66 337	3,937 74	1,215,06	5,152 80	5,372 35	1
Woodstock Hospital		4,804 60	61776	5,422 36	5,440 30	
Berlin and Waterloo Hospital. General Hospital	Sarnia	5,343 37 7,965 40	$873 \ 35 \\ 1,678 \ 38$	$ \begin{array}{r} 6,216 & 72 \\ 9,643 & 78 \end{array} $	5,315 31 -8,405 94	
Royal Victoria Hospital	Barrie	2,757 40	706 83	3,464 23	3,611 88	
Hotel Dieu Hospital	Cornwall	4,189 70	1,976 73	6,166 43	6,156 85	
General Hospital		4,770 79	1,428 84	6,199-63	6,026 05	
National Sanatorium Hospital.		38,315 71	2,508 15	40,823-86	37,020 12	.06
General Hospital	Rat Portage	3,289 79	393 18	-3,682/97	3,442 12	
General Hospital	Parry Sound .	2,846 45	352 61	3,199.06	3,132 06	
General Hospital	Sault Ste. Marie	7,632 04	2,488 64	10,120 68	[-7,759,31]	.24
Victorian Hospital	Renfrew	$\begin{array}{r} 1,912 \hspace{0.1cm} 72 \\ 608 \hspace{0.1cm} 00 \end{array}$		1,978 92 825 48	2,076 24 940 51	.03
Royal Alexandra Hospital	Fergns	5,953 45	217 48	5,953 48 5,953 45	5,799 22	
Totals for 1902		578,408 42	110,000 00	688,408 42	673,909 21	.16
·· 1901		489,857 37	110,000 00	583,098 17	615,317 68	.19
		J				

TABLE VIII. - Shewing the proportion of maintenance of Hospitals paid by the Government.

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TABLE	IXShewing	the	comparative	cost	per	patient	daily in	the	different	Hospitals	in
			perio	ds of	five	years.				-	

Hospitals.	Location.	1890,	1895,	1900,	1902.
		cents.	cents.	cents.	cents.
General Hospital	Toronto	78.98 99.70	75.49 .84.92	.91	.93 .82
Hospital for Sick Children	6 L		74.91	.82	.89
St. Michael's Hospital	64 - · · · · · · · · · · · · · · · · · ·		51,53	.66	.67
Western Hospital The Orthopedic Hospital	6			1.39 1.16	$.68 \\ 1.12$
City Hospital	Hamilton	74.24	89.61	1.	1.02
St. Joseph's Hospital	Kingston	53,60	72.75 75.58	.58 .61	.73 .67
Hotel Dieu Hospital	Kingston	48.83	52,20	.43	.57
General Protestant Hospital		73.02	74.22	.83	.87
Roman Catholic Hospital Misericorde Maternity Hospital			$48.94 \\ 49.95$.64 .70	.51 .79
Sick Children's Hospital	55 · · · · · · · · · · · · · · · · · ·		76.53	.76	1,01
Maternity Hospital St. Luke's General Hospital	66 66			1.97 .84	1.5/
General Hospital		88.29	85,32	.84	1.15
St. Joseph's Hospital	66		57.88	.98	.77
General and Marine Hospital Galt Hospital	Galt.	81.06	65.85 88.10	.82 1.11	.90 .91
General Hospital	Guelph	77.69	82.68	.69	.78
St. Joseph's Hospital	Pembroke	$43.57 \\ 67.00$	$\begin{array}{c} 32.28\\ 61.63 \end{array}$.91 .49	.60 .51
General Hospital	Mattawa		54.51	.45	
I. H. Stratford Hospital	Brantford		77.06	.75	1.04
St. Joseph's Hospital Belleville Hospital	Port Arthur		1.20.71 92.70	.39 .78	.6. .8:
St. Vincent de Paul Hospital	Brockville	28.23	53.50	.59	.6:
General Hospital General and Marine Hospital	Collingwood		$1.21.66 \\ 71.02$.66 1.14	.91 1,15
Nichol's Hospital	Peterborough	. 2.11.00	88.65	1.29	1.49
St. Joseph's Hospital	u		74.07	$.72 \\ .65$.50
The Hotel Dieu Hospital St. Joseph's Hospital	Windsor Chatham		$37.85 \\ 76.17$.55	.8:
General Hospital	1.6		56.20	.53	.55
General Hospital Amasa Wood Hospital	Stratford St. Catharines	••••	$\frac{80.38}{1.23.65}$.95 1.24	.93 1.41
General and Marine Hospital	Owen Sound'		1.00.90	.63	.66
General Hospital	Sudbury		1.36.41	.77	1,02
General Hospital	Huntsville		• • • • • • • • • • •	$1.05 \\ .57$.67
Huntsville Hospital	8.6			.63	.7
Woodstock Hospital Berlin and Waterloo Hospital	Woodstock		• • • • • • • • •	$1.23 \\ 1.13$	1.40
General Hospital	Sarnia			1.05	1.20
Royal Victoria Hospital	Barrie			.84 .42	1.0 .4
Hotel Dieu Hospital	••• •••			.71	.71
National Sanatorium Hospital	Gravenhurst			1.29	1.51
General Hospital				$1.16 \\ 1.05$	$1.32 \\ 1.20$
General Hospital	Sault St. Marie			.54	.50
Victoria Hospital Victorian Hospital	Renfrew				$1.43 \\ 1.04$
Royal Alexandra Hospital	Fergus	· · · · · · · · · · ·			2.34

SEPARATE REPORTS.

GENERAL HOSPITAL, TORONTO.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients.

Number under treatment in all de-	
partments of the Hospital 1st Oct,	267
ber, 1901	
Admitted	3,027
Births in the Hospital	138
Total number under treatment.	2 120
Total number under treatment	0,400
Discharges including infants	2,981
Died	201
Under treatment, 30th Sept., 1902	250
Total	3,432

Of the 3,432 persons treated during the year, 159 males and 109 females were inmates of the Andrew Mercer Eye and Ear Infirmary, and 152 in the Burnside Lying-in branch. The latter number includes 73 male and 69 female children born in the Institution.

Ser.

Male Female.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	$1,902 \\ 1,530$
																											3,432

The following table gives a summary of certain diseases treated in the Toronto General Hospital during the year :

Typhoid	fever					÷													1	1	6
Typhus							•														
Puerperal		,	٠	•		•	•	•	·	•	•	•	÷	•	•	•	•	•	•	•	
Cerebro Spin	al "	٠	٠	٠	٠	•	٠	•		٠	٠	٠	٠	٠	•	٠	*	٠	•		
Diphtheria		٠		٠	٠		٠		•	٠						~					3

Revenue.

From the Province of Ontario\$12,30)3 61
From the City of Toronto in pay-	
ment of patients' maintenance. 13,83	$38 \ 70$
From the County of York in pay-	
	77 30
From other municipalities of the	
Province	37 95

From paying patients themselves.	35,357	00
Income from property belonging		
to Hospital Trust	17.932	84
Subscriptions, donations and be-		
quests of private individuals	-386	06
From all other sources not above		
enumerated	-5,484	39
Total	\$35.747	85

Expenditures.

Butchers' meat, poultry and fish .	\$10.001	98
Butter	3.974	96
Eggs	1.504	30
Flour, bread and meal	2.984	39
Milk	3,774	09
Tea and coffee	1.359	00
Potatoes and other vegetable	3,513	46
Groceries and provisions, not		
enumerated	3,853	34
Drugs and medicines	4.544	20
Medical and surgical appliances.	1,441	70
Bandages and dressings	2,691	58
Surgical instruments, ordinary	1,156	82
Beer, wine and spirits	562	04
Bedding, napery and general		
house furnishing	3,991	00
Brooms, brushes, mops, soap and		
cleaning appliances	896	93
Fuel	4,983	31
Light—gas, oil and candles	2,605	41
Water supply	484	30
Hay and straw		
Nurses' uniforms, badges, etc	753	14
Ice supply	424	23
Salaries and wages	24,887	80
Insurance	202	30
Rent and taxes (emergency		
branch, etc.)	830	00
Contingencies	37	38
Repairs, ordinary	4,053	68
Telephone and elevator service	330	00
Total	385,841	34
	,011	
· · · · · · · · · · · · · · · · · · ·		

Government grant for 1902\$12,524 47

No. 40

GRACE (HOMCEPATHIC) HOSPITAL, TORONTO.

The following summaries show the operations of this Hospital during the official year:

Movements of Patients.

Number under treatment in the Hos-	
pital, 1st October, 1901	66
Admitted	1,000
Births in the Hospital	122
Total number under treatment	1,188
Discharges, including infants	1,047
Died	57
Under treatment, 30th Sept., 1902	84
	1,188
Ser.	
Male	424
Female	764
	1,188

The following table gives a summary of certain cases treated in the Homepathic Hospital, Toronto, during the year :

No. of cases

																U.	rea	te	σ	-	
Typhoid	fever																			6	2
Typhus	6.6																			•	
a doi portai	4.6																				
Cerebro spina																					
Diphtheria		•	•	•	•	•	•	•	•	÷	•	•	•	•	•	•	•			•	

Revenue.

From the Government of Ontarios	2,737	00
From the City of Toronto, in pay-		
ment of patients' maintenance.	-3,701	20
From paying patients themselves."		19
Income from endowments or		
other property of the Hospital		
Subscriptions, donations and be-		
quests of private individuals	930	00

From all sources				
merated	• • •	• • • • •	\$ 53	30

Total		\$22,774	69
-------	--	----------	----

Expenditures.

Butchers' meat	3 2,184	11
Butter	827	94
Flour, bread and meal	734	61
Milk	1,259	42
Tea and coffee	208	73
Potatoes and other vegetables .	467	46
Groceries, provisions not enumer-		
ated	1,367	55
Drugs and medicines	1,018	90
Medical and surgical appliances	666	18
Surgical instruments	32	88
Beer, wine and spirits	149	76
Bedding, napery and general	1.40	
house furnishings	566	32
Brooms, brushes, mops, soap and	000	
cleaning appliances	318	25
Fuel	1,683	27
Light-gas, oil and candles	337	33
Water supply	133	52
Hay and straw	9	00
Clothing for patients, including	v	0.0
boots and shoes	22	10
Ice	221	94
Salaries and wages	5,375	38
Taxes and insurance	418	00
Contingencies	505	24
Repairs, ordinary	1,615	07
Advertising, stationery, etc	191	88
marching, stationery, etc		00
Total	\$20.314	84
Government grant for 1902	\$2,789	91

HOSPITAL FOR SICK CHILDREN, TORONTO.

The following summaries show the operations of the Institution during the year:

Movements of Inmates.

Under treatment, 1st Oct., 1901 Admitted	$\begin{array}{c} 128 \\ 621 \end{array}$
Total number under treatment	749
Discharged Died Under treatment, 30th Sept., 1902	$568 \\ 59 \\ 122$
Sex. Male Female	749 402 347 749

The	following	table	gives	a summa:	ry of
certain	diseases	treated	in the	Hospital	dur-
the yea	r:				

														I				f c ite			
Typhoid	fever														•					1	4
Typhus	66																		•		
Cerebro spina																				1	.1
Diphtheria		•	٠	•	•	•	•	4	•	٠	•	•	•	•	•	٠	•				•

Revenue.

From the Province of Ontario\$	7,159 61
From the County of York	
From other municipalities	3,027 75
From the City of Toronto	7,500 00

1902		OF I
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From patients themselves for maintenance and treatment\$ 4,264 56 From property belonging to the	Medical and surgical appliances\$805-96 Surgical instruments Bedding, napery and general
Hospital 250 71	house-furnishing
From subscriptions, donations,	B ooms, brushes, maps, soap and
and bequests from private in-	eleaning appliances 157 66
dividuals 11,877 75	Fuel
From all other sources not enu-	Light—gas, oil and candles 829 60
merated 789 00	Water supply 955-39
	Clothing for patients, including
Total	boots and shoes 1,853 05
Expenditures.	Ice
Butchers' meat and fish \$1,925-30	Salaries and wages 12,062 31
Butter 1,169 54	Insurance and taxes 303 25
Flour bread and meal 690 78	Contingencies
Milk	Repairs, ordinary 418 11
Tea and coffee	Advertising, stationery, etc 3,107 73
Potatoes and other vegetables 606 05	Telephone and electricity 308 63
Groceries and provisions not enumerated	Total\$35,716 00
Drugs and medicines 1,531 14	Government grant for 1902 \$6,789 65
·	

ST. MICHAEL'S HOSPITAL, TORONTO.

The following summaries show the operations of this Hospital during the official year:

Movements of Patients.	
Number under treatment 1st Oct., 1901	171
Admitted	2,174
Births in the Hospital	80
•	
Total number under treatment.	2,425
Discharges, including infants	2,135
Died	124
Under treatment 30th Sept., 1902	166
Ser.	2,425
Male	1,241
Female	1,184
-	
	2,425
The following table gives a summ	ary of
certain cases treated in St. Michael's	Hos-
pital, Tovonto, during the year :	
	of cases
	ated.
Typhoid fever	
Typhus Puerperal	
Cerebro spinal fever	
Diphtheria	
Revение.	• •
From the Government of Ontario. \$ 9.5	588-39
From the City of Toronto in pay-	100 00
ment of natient's maintenance 12.7	20 40

1 ne	TOHOWING	tane give	s a summ	ary or
ertain	eases tre	ated in St.	. Michael's	Hos-
		uring the y		
ucai, s	coronico, u	uning me j	cal .	

Typhola lever		90
Typhus		
Puerperal		
Cerebro spinal fever		
Diphtheria		
- Вечение.		
From the Government of Ontario. \$	9,588	39
From the City of Toronto in pay-		
ment of patient's maintenance.	12,720	40
From County of York	- 98	
From other municipalities	- 30	65
From paying patients themselves	15,285	01
Subscriptions, donations and be-		
quests of private individuals	705	00
From all other sources not above		
enumerated	926	00
8	39,354	Зð

Expenditures.

La penarecares.		
Butcher's meat, poultry and		
fish	8 5,014	58
Butter and eggs	-3,004	03
Flour, bread and meal	-2.185	-86
Milk	-3,361	97
Milk Tea and coffee	-692	27
Potatoes, other vegetables and		
fruit	2,244	41
Groceries and provisions not		
enumerated	-2,430	59
Drugs and medicines		54
Medical and surgical appliances.	1,875	75
Surgical instruments	72)	80
Beer, wine and spirits	175	32
Bedding, napery, and general		
house furnishing	2,079	75
Brooms, brushes, mops, soap and		
eleaning appliances Fuel	567	
Fuel	2,342	10
Light-gas, oil, candles and elee-		
trie light	1,215	
Water supply	288	08
Clothing for patients, including		
boots and shoes	47	
Iee	204	85
Salaries and wages	5,744	00
Taxes and insurance	360	64
Contingencies	41	03
Repairs, ordinary	1,676	26
Telephone service	65	20
Advertising, printing, stationery,	0	0.0
ete , etc	220	03
Total	\$39,223	90

Government grant for 1902\$ 9,785-31

WESTERN HOSPITAL, TORONTO.

The following summaries show the operations of this Hospital during the official year:

Movements of Patients.

Number under treatment, 1st October.	
1901	63
Admitted	844
Births in Hespital	22
- · ·	
Total number under treatment.	929
Discharged	775
Died	- 66
Under treatment 30th September,	
1902	-88
-	
	929

Sex.

Male . Female																										$-343 \\ -586$
T CHIMIC	Î	ľ	ľ	Ĩ	Ĩ	ľ	Ì	ľ	Ì	Ĩ	'	Ì	Ì	Ĩ	Ċ	Ĩ	Ì	Ĩ	Ì	Ì	Ĩ	Ĩ	Ĭ	Ĩ	- -	

929

The following table gives a summary of certain cases treated in the Western Hospital, Toronto, during the year :

	of cases eated.
Typhoid fever	 . 60
Typhus fever	
Cerebro spinal fever	
Diphtheria	

Revenue.

From the Province of Ontario	\$3,686 44
From the City of Toronto	3,918 00
From the County of York	
From the patients for mainten-	
ance and treatment	9,986,60

From subscriptions, donations and bequests from private individ-

uais		• •	• •				• •			٠			٠	٠	6	٠
From other	sources	•	•••	•••	• •	• •	•	•	•	•	•	•	•	•	•	•

\$17,591 04

Expenditure.

Butchers' meat	906	59
Butter and eggs	413	84
Flour, bread and meal	351	32
Milk	807	17
Tea and coffee	80	25
Potatoes and other vegetables	131	84
Groceries and provisions not enu-		
merated	2,252	02
Drugs and medicines	1,087	59
Medical and surgical appliances.	643	41
Surgical instruments	66	70
Beer, wine and spirits	117	65
Bedding, napery and general		
house furnishings	477	51
Brooms, brushes, mops, soap and		
cleaning appliances	19	06
Fuel	1,095	20
Light-gas, oil and eandles	627	65
Water.	153	57
lee supply	27	00
Salaries and Wages	-3,752	62
Taxes, insurance and rent	1.686	38
Contingencies	-1,680	59
Repairs, ordinary	- 306	00
Total	\$16.683	96
	420,000	
	· · · · · ·	01

Government grant for 1902 § 4,117 34

THE ORTHOPEDIC HOSPITAL, TORONTO.

The following summaries show the operation of this Hospital during the official year:

Movements of Patients.

Number under treatment IstOct.,1901 Admitted Births in the Hospital	30 248 \cdots
Total number under treatment.	278
Discharges	246
Died Under treatment 30th Sept., 1902	1 31
Sex.	278
Male	167
Female	111
	278

The following table gives a summary of certain cases treated in the Orthopedic Hospital, Toronto, during the year :

DOW legs	
Club-foot and other deformities of feet	87
Congenital dislocation of the hips	2
Curvature of spine	80
Hip disease	27
Elbow. ankle and knee-joint disease.	18
Deformity from spastic paralysis	14
Knock knee	3

From the Government of Ontario	60	990	90
From the City of Toronto in pay-			
ment of patients' maintenance.			
From paying patients themselves	10	,694	54

Subscriptions, donations and be-		1	Brooms, brushes, mops, soap and		
quests of orivate individuals \$	- 93	23	cleaning appliances	-50	59
From all other sources not above			Light-gas, oil and candles	-396	36
enumerated	27	16	Water supply	18	70
·			Clothing for patients	4	51
81	1,805	83	Ice	5	80
	1,000	00	Salaries and wages	5,212	
Expenditures.		1	Taxes and insurance	157	
Butchers' meat \$	346	67	Repairs, ordinary		76
	302	•	Contingencies	10	
Butter	200		Walanhona agrica		
Flour, bread and meal			Telephone service	891	83
Milk	417		Advertising, printing, station-		
Tea and coffee	58		ery, etc., etc		
Potatoes and other vegetables	242	26	Clothing for nurses and em-		
Groceries and provisions, not			ployees	56	67
enumerated	-640	18	Manufacturing dept., material		
Drugs and medicines	291	40	and wages	2,802	71
Medical and surgical appliances }	4.04*	10			
Surgical instruments	486	10			
Beer, wine and spirits	4	90	/TL + 1	9 4 4 9	40
Bedding, napery and general	_		Total	.0,440	40
house furnishing	388	19			
Fuel	422		Government grant for 1902\$	9.166	40
ruei	1 44	00	Covernment grant for 1802	m*100	-10

CITY HOSPITAL, HAMILTON.

The following summaries show the operations of this Hospital during the official year:

Movements of Patients.	
Number under treatment, 1st October,	
1901	
Admitted 1,273	
Births in the Hospital 37	
Total number under treatment. 1,411	
Discharged 1.233	
Under treatment 30th September, 1902 64	
1,411	
Ser. 1,411	
Male	
Female	
1,411	
The following table gives a summary of cer-	-
tain diseases reated in the City Hospital,	
Hamilton, during the year :	
Typhoid fever	•
Typhus fever	
Puerperal fever	
Cerebro spinal fever	
Diphtheria	2
Revenue.	
From the Province of Ontario . \$ 2,719 27	
From the City of Hamilton 23,099-20	;
From the County of Wentworth.	
From other municipalities	
From paying patients themselves 10,381 73	
From all other sources	
Total	-
100al	*

Expenditure.

Butchers' meat	\$2,070	73
Butter	2,568	88
Flour, bread and meal	772	92
Milk	1,004	14
Tea and coffee	417	55
Potatoes and other vegetables	654	64
Groceries and other provisions		
not enumerated	1,859	22
Drugs and medicines	1,797	32
Surgical instruments and ap-	,.	
pliances	851	50
Beer, wine and spirits	218	18
Bedding, etc	1,072	80
Brooms, brushes, mops, soap and	, i	
cleansing apphances	297	34
Fuel	4,365	72
Light-gas, oil and candles	1,726	04
Water supply	350	00
Hay and straw	27	33
Clothing for patients, including		
boots and shoes	29	50
Ice	325	15
Salaries and wages	-8.748	94
Taxes and insurance	850	04
Advertising, printing, stationery,		
etc	191	04
Contingencies	-1,673	05
Repairs ordinary	499	80
Total	\$20.271	83
Total	\$02,011	00

Government grant for 1902 \$ 2,647 52

ST. JOSEPH'S HOSPITAL, HAMILTON.

The following summaries show the operations of this Hospital during the official year:

Movements of Pacients.	
Number under treatment 1st October, 1901	32
Admitted	424
Total number under treatment.	456
Discharged	386
Died Under treatment 30th September, 1902	31 39
	456
Sev.	
Male	190
Female	266
	456
The following table gives a summa certain diseases treated in St. Joseph's	ry of Hos-

pital, Hamilton, during the year :

											1	Ńi	э,	of -	ca	86	s
														eat			
Typhoid fev	er.,															2	2
Typhus feve	r																
Puerperal fe	ever .																
Cerebro spin	nal fe	ver						Ì									
Diphtheria.			Ť						Ĩ		Č.						
Smallpox		• • •	•		• •			1	۰	1	•	1	• •				
Summers		• • •	•	• •	• •	1	• •	•	•	•	•	•	•••			1	٠
		1.5															

Recentle.

From the Province of Ontario \$ 1,579	95
From the City of Hamilton 120	60 (
From the County of Wentworth 18	85
From paying patients themselves 4,854	
Income from endowments, etc.,	
or other property belonging to	
the Hospital	00

Subscriptions, donations and be-		0.6
	15	
Received from other sources 1	85	50
Total	49	90
Expenditure.		
Butchers' meat \$ 1,0	80	75
	56	50
	6I	74
	30	15
	75	80
	84	49
Groceries and other provisions		
not enumerated 1,1	17	06
	97	11
	52	46
Surgical instruments	32	59
Beer, wine and spirits 2	13^{-1}	71
	$\frac{13}{93}$	63
6,	00	05
Brooms, brushes, mops, soap and	27	63
S of framework and the second s		
	87	71
Buel Buel on the state of the s	29	05
		00
Hay and straw	• • •	• •
Clothing for patients, including		
	17	99
	23	55
Strattes the heges the first term	96	15
	35	02
Contingencies 2	17	17
Repairs, ordinary 4	83	35
Total \$ 8,1	53	61

Government grant for 1902 \$ 1,379 53

GENERAL HOSPITAL, KINGSTON.

The following summaries show the operations of this Hospital during the official year :

Morements of Patients.	
Number under treatment 1st of Octo-	
her, 1901	73
Admitted	1,356
Births in Hospital	41
Tatul much en under treatment	1.450
Total number under treatment.	1,470
Discharged	1,353
Died	40
Under treatment 30th September, 1902	77
	1,470
Sex	*****
Male	706
Female	764
	1,470

The following table gives a Summary of cer- tain diseases treated in the General Hos- nical Kingston during the year
pital, Kingston, during the year.
No. of cases
treated
Typhoid fever
Typhus fever
Pueperal fever I
Cerebro and Spinal fever
Diphtheria
Revenue.
From the Province of Ontario\$ 3,200 73
From the Dominion Government.
From the County of Frontenae 600 00
From the City of Kingston 1,500 00
From other Municipalities of the
Province 880.00
Province

From Patients themselve for treatment	Surgical instruments and appli- ances
umerated 1,287–75	Fuel
9	Light—Gas, oil and candles 567-25
Total 17,929 45	Water supply and ice 120 50
Expenditure, Butchers' meat \$\$1,559 98 Butter 933 56 Flour, bread and meal 605 21 Milk 690 06 Tea and Coffee 246 08 Potatoes and other vegetables 372 98	Clothing for patients
Groceries and Provisions. not enumerated	Total 17,310 16
Drugs and medicines	Government grant for 1902\$ 3,216 61

HOTEL DIEU HOSPITAL, KINGSTON.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients.

Nunber under treatment, 1st October, 1901	90
Admitted	
Total number under treatment	1,475
Discharged Died	$1,341 \\ 47$
Under treatment, 30th September, 1902	87
Sea.	1,475
Male	$\begin{array}{c} 674 \\ 801 \end{array}$

1,475

The following table gives a summary of certain diseases treated in the Hotel Dieu Hospital, Kingston, during the year :

	o of ca treated	
Typhus fever.	* 4	
Puerperal fever.	• •	$\frac{1}{2}$
Cerebro spinal fever		$\frac{2}{3}$
Diphtheria		10
Revenue.		
From the Province of Ontario \$	5,599	44
From the City of Kingston	500	00
From the County of Frontenac.	400	00
From patients themselves for		
maintenance and treatment	4,775	-00^{-}
Income from investments	444	-00
Subscriptions, donations and be-		
quests	1,861	65

From other	sources not enumer-	
ated		1,762 73

Total..... \$15,342 82

Expenditure.

The T is a second secon	A. 000	c 0
Butchers' meat	\$1,997	80
Butter	1,500	56
Flour, bread and meal	950	69
Milk	1,187	90
Tea and coffee	- 334	84
Potatoes and other vegetables	507	64
Groceries and provisions not enu-		
merated	2,831	78
Drugs and medicines	698	97
Medical and surgical apppliances	82	63
Surgical instruments	136	58
Beer, wine and spirits	183	87
Bedding, napery and general	100	0.
house furnishings	534	68
Brooms, brushes, mops, soap and	004	00
cleaning appliances	223	16
Fuel	2,900	00
Fuel Light—gas, oil and candles	791	33
Water supply	90	00.
Water supply		
Hay and straw	168	43
Clothing for patients, including	1.1*	00
boots and shoes	445	09
Ice	34	53
Salaries and wages	1.077	00
Taxes and insurance	1,763	00
Coffins and funerals	34	00
Contingencies	211	85
Repairs, ordinary	851	27
Total	\$19,537	60

Government grant for 1902 \$ 5,380 68

27

GENERAL PROTESTANT HOSPITAL, OTTAWA.

The following summaries show the operations of the Hospital during the official year :

Movements of Patients.	
Number under treatmenf, 1st October,	
1901	76
Admitted	1,298
Births in the Hospital	• •
	1.084
Total number under treatment.	1,374
Discharged	1,219
Died	59
Under treatment, 30th September,	
1902	96
	1,374
, Sex.	
Male	711
Female	663
-	1,374
The following table gives a summ	

ertain cases treated in the General Protestant Hospital, Ottawa, during the year :

Ne. of cas	68
treated.	
	2
Typhus fever	
Peurperal fever	
Diphtheria 15	30
Revenue.	
From the Province of Ontario . \$3,549 9)2
From the City of Ottawa 5,081 ()5
From the County of Carleton 600 (00
From other municipalities 215 (00
From patients themselves for	
maintenance and treatment 9,570 9	99
Income and endowments, invest-	
ments, etc	
Subscriptions, donations and be-	
quests of private individuals 5,653 §	97

	From other sources not enumer-	1 510	40
	ated	1,710	40
	Total	\$26,381	41
	Expenditure.		
	Butcher's meat	\$ 2,405	38
	Butter and eggs	2,037	85
	Flour, bread and meal	802	46
Ì	Milk	1039	
	Tea and Coffee	245	
	Potatoes and other vegetables	397	28
	Groceries and provisions not enu-		
	merated	2,539	
	Drugs and medicines	1564	12
	Medic 1 and surgical appliances	1,067	27
	Surgical instruments	3	33
	Beer, wine and spirits	118	77
	Bedding, napery and general		
	house furnishings	187	38
	Brooms brushes, mops, soaps and		
	cleaning appliances	186	69
	Fuel	-2,124	49
	Light-gas, oil, candles and elec-		
	tric light	1,062	
	Water supply	1,232	
ļ	Hay and straw	19	00
	Printing and stationery	261	64
	Ice	91	13
	Salaries and wages	-8,380	56
	Taxes, insurance and interest	-63	10
	Contingencies	-261	19
	Repairs, ordinary	459	05
	Postage, telegraphing, telephone,		
	express, stationery, etc	98	22
	Total	\$26.649	03

Government grant for 1902 \$ 3,187 29

ROMAN CATHOLIC HOSPITAL, OTTAWA.

The following summaries show the operations of this Hospital during the official year:

Morements of Patients. Number under treatment, 1st October, 1901	$\frac{116}{1,667}$	
Total number under treatment.	1,783	
Discharged Died Under treatment, 30th September,	$1,555 \\ 96$	
1902		
Seze,	1,783	
Male	$933 \\ 850$	
	1,783	.

The following tables give a summary of
certain diseases treated in the Roman
Catholic Hospital, Ottawa, during the year:
No. of cases
treated.
Typhoid fever 82
Typhus
Puerperal fever
Cerebro spinal fever
Diphtheria
Revenue.
From the Province of Ontario\$ 5,735 20
From the City of Ottawa 2,062 00
From the County of Carleton 300 00
From other municipalities
From patients themselves for
maintenance and treatment 7,942 36
manntenance and treatment 1,342 Jo

Income from property\$ 100 00 Subscriptions, donations and be-	Bedding, napery and general nouse furnishings\$ 928 49
quests of private individuals. 431 79	Brooms, brushes, mops, soap and
From other sources not enum-	cleaning appliances 175 00
erated	Fu-1
	Light—gas, oil, candles
\$17,571 02	Water supply
Expenditure.	Clothing for patients, including
Butchers' meat\$ 3,049 49	boots and shoes
Butter 1,349 89	Ice
Flour, bread and meal	Salaries and wages and interest. 1,884 63
	Taxes and insurance 1,986 37
	Coffins and funerals
Tea and Coffee	
Potatoes and other vegetables 242 43	Contingencies
Groceries and provisions not enu-	Repairs, ordinary 210 00
merated	
Drugs and medicines 1,205 60	
Medical and surgical appliances . 977 75	Total\$20,547_66
Surgical instruments	
	Covernment grant for 1909 © 5.062 71
Beer, wine and spirits 203 59	Government grant for 1902\$ 5,063 71

MISERICORDE MATERNITY HOSPITAL, OTTAWA.

The following summaries show the operations of this Hospital during the official year:

Movements of Patients.

N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Number under treatment, 1st October, 1901	39
Admitted	170
Births in Hospital	158
Total number under treatment.	367
Discharged	318
Died Under treatment, 30th September,	16
1902	33
	367
Ses.	
Male Female	$\frac{70}{297}$
-	367
Revenue.	
From the Province of Ontario\$ 1,50	

F rom the Province of Untario\$	1,000 27
From the City of Ottawa	$200 \ 00$
From the County of Carleton	50.00
From paying patients themselves	$973 \ 00$
From subscriptions and donations	2,490 36
From other sources	3,725 12
_	

Expenditure.

	Butchers' meat\$	854	-91
	Butter	475	74
	Flour, bread and meal	437	90
	Milk	307	-99
	Tea and coffee	96	4.4
	Potatoes and other vegetables.	-319	
	Groceries and provisions not enum-		
	erated	431	-65
	Drugs and medicines	- 95	-93
	Medical and surgical appliances.	- 50	75
	Surgical instruments		
	Beer, wine and spirits	51	40
	Bedding, napery and general		
	housefurnishings	929	98
	Brooms, brushes, mops, soap and		
	cleaning appliances	255	92
	Fuel	510	
	Light—gas, oil and candles	209	
	Water supply	-101	
	Hay and straw	56	29
	Clothing for patients, including		
	boots and shoes	57	20
	Advertising, stationery, etc	269	00
	Salaries and wages	974	60
	Taxes, insurance	1,599	07
	Coffins and funerals	53	00
•	Contingencies	272	65
	Repairs, ordinary	486	
	Ice supply	23	
	Travelling expenses	90	00
	TotalS	9,010	75
	0		

\$ 9,003 75

Government grant for 1902 \$ 1,339 85

HOSPITAL FOR SICK CHILDREN, OTTAWA.

The following summaries show the operations of this Hospital during the official year:

Movements of Patients. Number under treatment, 1st October,	
1901	8 60
Total number under treatment	68
Discharged	56
Died Under treatment, 30th September,	-1
1902	8
Sex.	68
Male	- 36
Female	32
	68

The following table gives a summary of certain diseases treated in the Hospital for Sick Children, Ottawa, during the year :

N	0.	of	cas	es

													eat				
Typhoid fever													. `				3
Typhus																	
Puerperal					• •			•									
Cerebro spinal fever																	
Diphtheria	•	• •	٠	•	• •	• •	٠		٠	*	•	•	•	•	•	٠	•

Revenue.

From the Province of Ontario\$	362 49
From the City of Ottawa	200 00
From the County of Carleton	50.00
From other municipalities	
From patients themselves for	
maintenance and treatment.	1,222 31

Income from endowments	
Subscriptions, donations and be-	
quests from private individuals \$ 1,787	04
From other sources not enum-	
erated	12
Total\$ 3,668	96
Expenditures.	
Butchers' meat\$ 129	97
Butter	85
Flour, bread and meal 75	14
Milk 141	68
Tea and coffee 19	18
Potatoes and other vegetables 37	48
Groccries and provisions not enu-	
merated	65
Drugs and medicines)	
Medical and surgical appliances 318	37
Surgical instruments	
	55
Bedding, napery and general	
house furnishings	
Brooms, brushes, mops, soap and	
cleaning appliances	92
Fuel	82
Light-gas, oil and candles 97	32
Water supply 12	68
Ice	00
Salaries and wages 1,303	09
Taxes, insurance and interest. 9	00
Contingencies	15
Repairs, ordinary 226	65
Total\$ 3,478	50
Government grant for 1902\$ 502	13

MATERNITY HOSPITAL, OTTAWA.

The following summaries show the operations of this Hospital during the efficial year :

333

Movements of Patients.

Number under treatment from 1st Oc-	
tober, 1901	13
Admitted	171
Births in hospital	149
Total number under treatment	333
Total humber under treatment	000
Discharged	301
Died	19
Undertreatment 30th September, 1902	13

A36.C.	
Male	77
Female	256
	333
Revenue.	
From the Province of Ontario\$	328 49
From the City of Ottawa	175 00
From the County of Carleton	50 00
From paying patients themselves	2,271 23
From subscriptions and donations	939 90
From other sources	
-	\$3,764 62

Ser

Expenditure.		Fuel\$	569-90	0
Butchers' meat\$	298 58	Light-gas, oil, candles and elec-	130-48	e
Butter	$171 \ 18$	trie light		
Flour, bread and Meal	62_ó0	Water supply	70 18	G
Milk	87 76	Ice	9 50	0
Tea and Coffee	53 16	Salaries and wages	869 17	7
Potatoes and other vegetables	166 57	Taxes and insurance		
Groceries and provisions not enu-	100 01	Contingencies	-150/23	7
merated	391 20	Repairs, ordinary	38 67	7
Drugs and medicines	197 22	-		-
Medical and surgical appliances.	187 59	Total\$	3,613 8	2
Bedding, napery and general				
house furnishings	$159\ 82$	Government grant for 1902\$	403-96	6

ST. LUKE'S GENERAL HOSPITAL, OTTAWA.

The following summaries show the operations of this Hospital during the official year :

Movements of Putients

Number under treatment, 1st Octo-	
ber, 1901	43
Admitted	906
Total number under treatment.	949
Discharged	867
Died	37
Under treatment, 30th September,	45
- 1902	40
	949
Sex.	
Male	471
Female	478
	949
The following table gives a summary of tain diseases treated in the St. Lu General Hospital, Ottawa, during year:	ke's
No. of o	ases
treate	d.
Typhoid fever	28
Typhus fever	• •
Peurperal fever	
Cerebro spinal fever	
Diphtheria	
Revenue.	
From the Province of Ontario \$2,864	77
From the City of Ottawa 499	
From the County of Carleton	
From paying patients themselves 10,265	92

d

Income from investments	$200 \ 60$
From subscriptions and donations	3,720 64
From other sonrces	250 50

\$17,801 81

Expenditure.

Butchers' meat	\$1,183	84
Butter	837	23
Flour, bread and meal	351	61
Milk	848	21
Tea and coffee	300	16
Potatoes and other vegetables	251	19
Groceries and provisions, not enu-		
merated	1,133	20
Drugs and medicines	917	11
Medical and surgical appliances	600	30
Surgical instruments	135	85
Beer, wine and spirits	87	98
Bedding, napery and general house-		
furnishings	444	03
Brooms, brushes, mops, soap and		
cleaning appliances	244	28
Fuel	1,287	_
Light-gas, oil, candles and elec-	-,=-,	
tric light	363	40
Water supply	208	
Clothing for patients, including	200	
boots and shoes	125	00
Ice	131	20
Salaries and wages	5,252	90
Taxes and insurance	37	50
Contingencies	1,273	81
Repairs ordinary	305	64
Total	\$16,319	86
Government grant for 1902		

GENERAL HOSPITAL, LONDON.

The following summaries show the operations of this Hospital during the official year.

Movements of Patients.	
Number under treatment, 1st October, 1901 Admitted Births in the Hospital	$111 \\ 1,276 \\ 35$
Total number under treatment.	1,422
Discharged Died Under treatment, 30th September, 1902	1,230 100 92
Sex.	1,422
Male Female	688 734
	1,422
The following table gives a summary of tain diseases treated in the Genera pital, London, during the year ;	

 No. of cases

 treated.

 Typhoid Fever
 63

 Typhus fever
 63

 Puerperal fever
 63

 Cerebro spinal fever
 129

Revenue.

From the Province of Ontario	3,614	77
From the City of London	26,150	67
From the County of Middlesex,		
in payments for patients	1,865	
From paying patients themselves	13,802	82

inve	inco ne stments iptions,				. 8	444	28
ques	ts	• • • • •	• • • • • •	• • • •	••••	• • • •	• •
Te	otal				\$45	878	34

Expenditure.

Enclience encourses		
Butchers' meat	\$3,129	72
Butter	1,447	63
Flour, bread and meal	825	04
Milk	1,447	57
Tea and coffee	711	10
Potatoes and other vegetables	500	64
Groceries and provisions not		
enumerated	3,487	30
Drugs and medicines	3,039	23
Surgical instruments		
Medical and surgical appliances	915	78
Beer, wine and spirits	-313	11
Bedding, napery and general		
house furnishing	2,536	53
Brooms, brushes, mops, soap and		
cleaning appliances	343	
Fuel	2,508	
Light-gas, oil and candles	1,215	
Water	4 0	00
Hay and straw		
Clothing for patients		
Ice	176	
Salaries and wages	9,374	
Taxes and insurance	603	
Contingencies	2,136	
Repairs, ordinary	1,020	91
•		
Total	\$37,182	,51

Government grant for 1902 \$3,609 34

ST. JOSEPH'S HOSPITAL, LONDON.

The following summaries show the operations of this Hospital during the official year :

Movements of Patients.	
Number under treatment, 1st October,	
1901	38
Admitted	519
Births in Hospital	16
Total number under treatment	573
Discharged	507
Died	28
Under treatment, 30th September,	
1902	38
Sex.	573
Male	190
Female	383
-	573

The following table gives a summary of certain diseases treated in the St. Joseph's Hospital, London, during the year :

	No. of cases treated.
Typhoid fever	15
Typhus fever	
Puerperal fever,	
Cerebro spinal fever	
Diphtheria	
Revenue.	

From	the Province of Ontario	S	584	91
From	the City of London			
\mathbf{From}	the County of Middlescx			
From	paying patients	-7	844	01

Income from property	 	Bedding, napery and general	638-52
Subscriptions, donations, etc	§ 980-00	house furnishings	009 03
Other sources	564 75	Brooms, brushes, mops, soap and	
Other sources	004 10		44.0
-		cleaning appliances	66 55
The first of the second	\$9,973 67	Fuel	985 32
Total	¢2'519 01		
Expenditures.		Light, gas, oil and candles	386 56
			160.32
Butchers' meat	\$1,036 09	Water	
	432 75	Telephone	46 90
Butter			
Flour, bread and meal	418 77	Clothing for patients	
	696 57	lce	34 31
Milk			1,595 35
Tea and coffee	103 80	Salaries and wages	
	111 05	Taxes and insurance	-274 00
Potatoes and other vegetables	111 00		370 53
Groceries and provisions, not		Contingencies	
	941 51	Repairs, ordinary	655 25
enumerated			
Drugs and medicines	826 69		
		Total\$	9.967 49
Surgical instruments		20002 000000000000000000000000000000000	-,
Medical and surgical appliances	144 60		
	42 05	Government aid for 1902	771 97
Beer, wine and spirits	43 00	Government and for 1994	111 41

GENERAL AND MARINE HOSPITAL, ST. CATHARINES.

The following summaries show the operations of this Hospital during the official year :

Movements of Patients.	
Number under treatment 1st October,	
1901	26
Admitted	304
Births in Hospital	11
Total number nnder treatment.	341
Discharged	284
Died	38
Under treatment, 30th September,	
1902	19
	341
Sez.	
Male	180
Female	161
•	341

The following table gives a summary of certain diseases treated in the General and Marine Hospital, St..Catharines, during the year :

	No. of cases
	treated.
Typhoid fever	47
Typhus fever	
Puerperal fever	
Cerebro spinal fever	
Diphtheria	
Dipiteiteita	• • • • • • • • •
Revenue.	
From the Province of Ontario	\$ 921 05
From the Dominion Government	
From the City of St. Catharines	1,000 00
From the County of Lincoln	600-00
From patients themselves for	
maintenance and treatment	3,855 53
From endowments, investments	,
or other property belonging to	
the Hospital	200 00
3 н.	
0 11.	

From subscriptions, bequests and	
donations of private persons	• • • • • •
From all other sources not above	900 05
enumerated\$	300 00

\$7,476 63

Expenditures.

Butchers' meat and fish	S	767	45
Butter and eggs		472	61
Flour, bread and meal		198	65
Milk		351	20
Tea and coffee		122	61
Potatoes and other vegetables			
and fruit		129	12
Groceries and provisions not			
enumerated		315	67
Drugs and medicines		413	94
Medical and surgical appliances		375	12
Surgical instruments and dress-			
ing materials		17	98
Beer, wine and spirits		41	60
Bedding, napery and general			
housefurnishings		214	70
Brooms, brushes, mops, soap and			•
cleaning appliances		110	71
Fuel		364	80
Light-gas, oil and candles		169	83
Water supply		30	00
Boots and shoes (nurses)		75	00
Ice		35	00
Salaries and wages	1.	969	
Taxes and insurance	-,	19	60
Contingencies		316	70
Repairs, ordinary		166	25
L			
Total	\$6,	677	64
Government grant for 1902	\$	810	99

33

GALT HOSPITAL, GALT.

The following summaries show the operations of this Hospital during the official year:

£/	
Movements of Patients.	
Number under treatment 1st October,	
1901	23
Admitted	314
Births in Hospital	4
Total number under treatment	341
Discharged	300
Died	20
Under treatment 30th September,	
1902	21
	341
Sex.	
.Male	142
Female	199
	341

The following table gives a summary of certain diseases treated in the Galt Hospital, Galt, during the year :

-N	0		0	f.	Ċ	8	8	e	8
	ŧ.	• •	22	÷	0	ħ			

	DIOA	ocu.
Typhoid fever		26
Typhus fever	• •	• • • •
Puerperal fever	• •	• • • •
Cerebro spinal fever.	• •	• • • •
Diphtheria	• •	

Revenue.

From	the	Province of Ontario\$	393	96
From	the	Town of Galt	1,000	00
From	the	County of Waterloo	1,000	-00
From	payi	ing patients themselves.	3,393	39

From subscriptions, bequests and donations of private individuals\$ From other sources	$\begin{array}{c} 532 \\ 100 \end{array}$	
Total \$	6,420	15
Butchers' meat\$	472	51
Butter	235	9 2
Flour, bread and meal	237	13
Miłk	-109	76
Tea and coffee	12	50
Potatoes and other vegetables	107	66
Groceries and provisions not enu-		
merated	532	96
Drugs, medicines and surgical ap-		
pliances, etc	-503	96
Beer, wine and spirits	-32	35
Bedding, napery and general		~ /
house furnishings	151	74
Brooms, brushes, mops, soap and	0.0	0.0
cleaning appliances	92	26
Fuel	222	57
Light—gas, oil and candles	215	
Water	124	
Hay and straw	110	90
Clothes for patients, including	<u>co</u>	05
boots and shoes	60	
Ice	47	
Salaries and wages	$1,961 \\ 26$	
Taxes and insurance Contingencies, advertising, post-	20	40
age, etc	163	07
Repairs, ordinary	803	
Total\$	6,223	88
Government aid for 1902	663	87

GENERAL HOSPITAL, GUELPH.

The following summaries show the operations of this Hospital during the official year:

Movements of Patients.	
Number under treatment, 1st October,	
1901	57
Admitted	642
Births in the Hospital	26
Total number under treatment.	725
Discharged	642
Died	26
Under treatment, 30th September,	
1902	57
- Sex.	725
Male	353
Female	372
-	725

The following table gives a summary of certain diseases treated in the General Hospital, Guelph, during the year :

-			
	ΰI	eate	d.
			35
	• •		
• •	• •		õ
	•	tr	

Received from the Province of On-		
tario	\$2,863	90
From the City of Guelph	2,000	00
From the County of Wellington.	1,200	00
From other municipalities of the		
Province	85	00

From paying patients9,01256Subscriptions, donations, etc2,51796From sources not enumerated21445
Total
Expenditure.
Butchers' meat \$ 1,350 26 Butter 659 94 Flour, bread and meal 400 44
Mull. 90. 91

MIIK	29	31
Tea and coffee	168	60
Potatoes and other vegetables	86	38
Groceries and provisions not		
enumerated	1,388	93
Drugs and medicines	1.204	7.4
Surgical instrum'ts & appliances (1,204	14

Beer, wine and spirits\$	-213	84
Bedding, napery and general house furnishings	288	18
Brooms, brushes, mops, etc	3,317	
Fuel Light—gas, oil and candles	- 639	
Water supply	40	
Hay and straw	109	
Ice Salaries and wages	40	
Contingencies	987	
Repairs, ordinary	1,035	27
 Total\$1	5,077	68
Government aid for 1902\$	2,705	78

ST. JOSEPH'S HOSPITAL, GUELPH.

The following summaries show the operations of this Hospital during the official year:

Movements of Patients.

Number under treatment, 1st October, 1901	31
Admitted	363
Births in the Hospital	
Total number under treatment	394
Discharged	340
Died	24
Under treatment, 30th September,	
1902	30
 Sex.	394
	100
Male	169
Female	225
-	394

The following table gives a summary of certain diseases treated in the St. Joseph's Hospital, Guelph, during the year :

No. of treat	ed.
Typhoid fever	14
Typhus fever	
Puerperal fever	
Cerebro spinal fever	
Diphtheria	2

Revenue.

From the Province of Ontario	\$1,346	17
From the City of Guelph	200	00
From the County of Wellington.	800	00
From other municipalities of the		
Province		

From paying patients\$	4,588 79
Income from property	
Subscriptions, donations, etc	150 75
Other sources	
_	
Total §	7,085 71
Expenditure.	
Butchers' meat\$	975 00
Butter	455 40
Flour, bread and meal	324 00
Milk	575 50
Tea and coffee	239 22
Potatoes and other vegetables	222 10
Groceries and provisions not enu-	~~~ 10
monstud	667 00
merated	007 00
Drugs and medicines and surgical	276 03
appliances	
Beer, wine and spirits	175 00
Bedding, napery and general	0.00 05
house furnishings	663 05
Brooms, brushes, mops, soap and	
cleaning appliances	153 53
Fuel	904 00
Light—gas, oil and candles	220 00
Stationery	42 06
Clothing for patients, including	
boots and shoes	
Water supply	50 00
lce	
Salaries and wages	2 6 00
Taxes and insurance and interest.	
Coffins and funerals	59 50
Contingencies	243 00
Repairs, ordinary	769 99
	.00 00
Total\$	7,230 38
Government grant for 1909	

Government grant for 1902.....\$ 1,205 17

GENERAL HOSPITAL, PEMBROKE.

The following summaries show the operations of this Hospital during the official year:

Movement of Patients.	
Number under treatment, 1st October, 1901 Admitted	$\frac{30}{374}$
Total number under treatment	404
Discharged Died Under treatment 30th September, 1902	$364 \\ 18 \\ 22$
	404
Male Female	$227 \\ 177$
_	404

The following table gives a summary of certain diseases treated in the General Hospital, Pembroke, during the year :

									1		ot cs eater	
Typhoid fever												74
Typhus "												
Puerperal "												
Cerebro spinal	fev	er					•	• •			•	
Diphtheria	• •					•					•	

Revenue.

From	the Province of Ontario	 \$1,330-34
From	the County of Renfrew	 200 00
From	patients themselves	 1,903 40

From subscriptions, bequests and	0.000	0.1
donations of private individuals	\$ 839	
From all other sources	1,067	97
Total	\$5,341	62
Expenditures.		
Butchers' meat	\$ 315	00
Butter	325	40
Flour, bread and meal	340	00
Milk	120	90
Tea and coffee	128	20
Potatoes and other vegetables	52	75
Groceries and provisions, not		
enumerated	375	80
Drugs, medicines and surgical		
appliances	371	
Beer, wine and spirits	83	00
Bedding, napery and general		
house furnishings	440	15
Brooms, brushes, mops, soap and		
cleaning appliances	88	
Fuel	250	
Light-gas, oil and candles	125	
Water.	80	
Hay and straw	125	00
Clothing for patients, including		
boots and shoes	28	
Ice	22	
Salaries and wages	1.240	
Contingencies	250	00
Repairs, ordinary	135	00
	\$5,117	43
Government grant for 1902	\$ 1,362	10

THE JOHN H. STRATFORD HOSPITAL, BRANTFORD.

The following summaries show the operations of this Hospital during the official year:

Movements of Patients.	
Number under treatment, 1st October,	
1901	40
Admitted	401
Births in the Hospital	· 28
Total number under treatment	469
Discharged	401
Died	27
Under treatment, 30th September,	
1902	41
-	469
Sex.	~ • •
Male	219
Female	250
-	4/0
•	469

The following table gives a summary of certain diseases treated in the John H. Stratford Hospital. Brantford, during the year :

]	No. of cases treated.				
Typhoid fever					 							68	
Typhus "												• •	
Puerperal "				÷	 		•		•				
Cerebro spinal	fever												
Diphtheria			•	•	• •		•			•		13	

From the	e Province of Ontario	\$1,334 60)
From the	e City of Brantford	-2,500.00	
From the	e County of Brant	750 00)
	atients for maintenance		
and tre	eatment	3,762 40)

From subscriptions, donations and bequests from private individ- uals	3	Beer, wine and spirits\$ Bedding, napery and general house furnishings	98 864	66 22
		Dreame head a starting	004	-)-)
From all other sources	• • • • • • • •	Brooms, brushes, mops, soap and	-	0.0
		cleaning appliances	79	
Total	\$8,347 00	Fuel	1,629	75
France diteres		Light—gas, oil and candles	342	04
Expenditure.		Hay and straw	27	90
Butchers' meat	\$ 749 44	Clothing for patients, including		~ ~
Butter	329 03 (boots and shoes		
Flour, bread and meal	252 48	Tas	 45	
Milk	377 75			
	69 78	Salaries and wages	2,819	
Tea and coffee		Taxes and insurance	- 83	60
Potatoes and other vegetables	125 09	Contingencies	282	36
Groceries and provisions not en-		Repairs, ordinary	557	77
umerated	315 83		007	
Drugs and medicines	$938 \ 25$	Thetal	20 000	00
Medical and surgical appliances.		Total	29,900	00
Survial instruments		Concomment amont for 1009	1.104	00
Surgical instruments		Government grant for 1902	1,194	09

ST. JOSEPH'S HOSPITAL, PORT ARTHUR.

The following summaries show the operations of this Hospital during the official year:

Movements of Patients.

Number under treatment 1st October,	
1901	40
Admitted	468
Distha in Hamital	3
Births in Hospital	0
-	
Total	511
Discharged	437
Dial	
Died	- 33
Under treatment 30th September,	
1902	41
	511
Sex.	
26.1	
Male	387
Female	124
	1 1 1
	* 1.1
	511

The following table gives a summary of certain diseases treated in the St. Joseph's Hospital, Port Arthur, during the year :

No. of treat	⊦d.
Typhoid fever	140
Typhus	1
Puerperal	
Cerebro spinal fever	
Diphtheria	- 9
Smallpox	4

Revenue.

From the Province of Ontario	\$1,323	61
From the Town of Port Arthur.	400	00
From the Town of Ft. William		
From other municipalities in the		
Province		

From paying patient From subscriptions, c		
From other sources.		00

	T	otal							,														\$6.	6	72	5	4
--	---	------	--	--	--	--	--	--	---	--	--	--	--	--	--	--	--	--	--	--	--	--	------	---	----	---	---

37

Expenditures.

Butchers' meat	\$ 632	00
Butter	348	00
Flour, bread and meal	612	00
Milk	466	45
Tea and coffee	102	00
Potatoes and other vegetables	208	00
Groceries and provisions, not		
enumerated	640	0)
Drugs and medicines	550	00
Surgical instruments and appli-		
ances	139	00
Beer, wine and spirits	97	
Bedding, etc	185	
Brooms, brushes, mops, soap and	100	00
cleaning appliances	90	00
Fuel	750	
Light-gas, oil and candles	160	
Water supply	80	
Ice supply	30	
Hay and straw	170	
Clothing for patients. including	110	00
boots and shoes	60	00
Salaries and wages	-1,092	
Taxes and insurance	1,052	
Coffins and funerals		
Contingencies	1.040	
Repairs, ordinary	280	
repairs, ordinary,	280	00
• Total	0 7 001	45
TOTAL CONSTRUCTION CONTROL	\$ 1,001	40
Government grant for 1902	\$ 1,575	66

BELLEVILLE HOSPITAL, BELLEVILLE.

The following summaries show the operations of this Hospital during the official year:

omonti your.	
Movements of Patients.	ł
Number under treatment, 1st October,	
1901	
Admitted	F
Births in Hospital	
Total number under treatment 456	
Discharged 421 Died 17	
	I
Under treatment, 30th September,	E
1902 18	ŀ
	N
456 Sec.	'T
	F
	C
Female	
	I
456	N
The following table gives a summary of	E
certain diseases treated in the Belleville	E
Hospital during the year :	
No, of cases treated.	E
Typhoid fever	
Typhus "	F
Typhus " Puerperal "	I
Cerebro spinal fever	F
Diphtheria 8	C
	I
Revenue.	S
From the Province of Ontario \$1,040 02	T
From the City of Belleville 549 25	C
From the County of Hastings 65 50	H
From patients for maintenance	
and treatment 2,844 61	
Income from endowments, invest-	
ments, etc	G

From subscriptions, donations and bequests from private individu-		
als From other sources	$1,829 \\ 234$	
-		

Total																							S	6	, i	51	6	3	6	50)
-------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	---	-----	----	---	---	---	----	---

Expenditure.

1		
Butchers' meat	369	93
Butter	355	02
Flour, bread and meal	196	95
Milk.	289	60
Tea and coffee	82	50
Potatoes and other vegetables	183	04
Groceries and provisions, not en-		
umerated	484	74
Drugs and medicines	585	12
Mecical and surgical appliances.	324	49
Beer, wine and spirits	- 34	55
Bedding, napery & general house		
furnishings	-269	96
Brooms, brushes, mops, soap and		
cleaning appliances	62	47
Fuel	929	10
Light—gas, oil and candles	367	2 9
Hay and straw		
Clothing for patients	-31	
Ice supply	- 34	00
Salaries and wages	1,411	87
Taxes and insurance	127	50
Contingencies	150	70
Repairs, ordinary	189	05
· · · -		
Total	6,479	71
Government grant for 1902	1,039	91

ST. VINCENT DE PAUL HOSPITAL, BROCKVILLE.

The operations of this He spital during the period under report are indicated in the following summary:

Remaining under treatment, 1st Octo-	
ber, 1901	49
Admitted	721
Number of births in the Hospital	
Total number under treatment	770
Discharged	694
Died	29
Under treatment on 30th September,	
1902	47
	770
Male	368
Female	-402
-	
	770

The following table gives a summary of	
certain diseases treated in the St. Vincent de	
Paul Hospital, Brockville, during the year :	
No. of	
cases treated.	
Typhoid fever 35	
Typhus "	
Puerperal "	
Cerebro and spinal fever	
Diphtheria	
Smallpox	
Revenue.	
nevenue.	
From the Province of Ontario \$1,857 23	
From the Town of Brockwille 400.00	

From the Province of Ontario	\$1,857 23
From the Town of Brockville	400 00
From the Counties of Leeds and	
Grenville	300 00
From paving patients	4.943 61

From property belonging to the	
Hospital \$ 120 (00
From subscriptions, bequests and	
donations of private individuals 1,009	14
From other sources, not enumer-	
ated 2,849 :	.6
Total	5.1

Expenditures.

Butchers' meat	\$1,090 16
Butter	451 45
Flour, bread and meal	454 46
Milk	571 - 30
Tea and coffee	247 78
Potatoes and other vegetables	$361 \ 17$
Groceries and provisions, not en-	
umerated	1,061 51
Drugs and medicines	876 - 58

Medical and surgical appliances.	\$ 590	28
Beer, wine and spirits	252	88
Bedding, napery & general house		
furnishings	1,053	54
Brooms, brushes, mops, soap and	- ,	
c eaning appliances	149	21
Fuel.	840	
Light-gas, oil and candles .	298	
Water supply	29	
Clothing for patients, including		
boots an 1 shoes	60	41
Ice supply	30	00
Salaries and wages	231	90
Taxes, insurance and interest	629	17
Contingencies	424	83
Repairs, ordinary	1,700	52
Total	\$11,405	06
Concernment Smart for 1009	@a 900	0.4

Government grant for 1902 \$2,360 24

THE BROCKVILLE GENERAL HOSPITAL.

The following summaries show the operations of this Hospital during the official year:

Number under treatment on the 30th September, 1901 Number admitted Number of births	$35 \\ 455 \\ 11$
it inder of births	
Total number under treatment	501
Discharged	428
Died	31
September, 1902	42
	501
Se.r.	
Male	190
Female	311
	501

The following table gives a summary of certain diseases treated in the Brockville General Hospital during year :

Typhoid fever	47
Typhus "	
Puerperal " Cerebro spinal fever	• •
Diphtheria	4
Smallpox	

From	the	Prov	ince of	Ontari	08	\$ 1,200	50
						400	
From	the	Coun	ties of	Leeds	and		
Gre	nvil	le				450	00
From	the	Coun	ties of		and		

From other municipalities of the		
Province		
From paying patients	\$ 6.278	87
From property belonging to the		~.
Hospital	419	32
From subscriptions, bequests and		
donations of private individuals		52
From other sources, not enumer-		
erated		69
Total	\$11.221	90
Expenditure.		
Butchers' meat	\$ 840	18
Butter and eggs	486	54
Flour, bread and meal	365	47
Milk	267	15
Tea and coffee	160	00
Potatoes and other vegetables	267	21
Groceries and Provisions, not		
enumerated		79
Drugs and medicines	832	59
Medical and surgical appliances	426	19
Bedding, napery and general		
house furnishings	772	62
Brooms, brushes, mops, soap and		
cleaning appliances	1.108	
Fuel	1,127	00
Light-gas, on and candles	532	
Water supply	29	
Ice supply	3,376	
Salaries and wages	3,310	00
Taxes and insurance	765	
Contingencies		
Repairs, ordinary	262	91
Total	\$11,251	08
Government grant for 1902	\$ 1,002	18

GENERAL AND MARINE HOSPITAL, COLLINGWOOD.

The following summaries show the operation of the Hospital during the official year:

Movements of Patients.	From t
Under treatment 1st October, 1901 9	From
Admitted 181	Subscr
Number of births 10	From s
Total number under treatment 200	То
Discharged 170	
Died	Butche
Under treatment, 30th Sept., 1902. 18	Butter
	Flour,
20	Milk .
Se.c.	Tea and
Male 172	Potatoe
Female	Groceri
	umer
200	Drugs
	Surgica
The following table gives a summary of	Beer, v
certain cases treated in the General and	Hay ar
Marine Hospital, Collingwood, during the	Beddin
year :	hous
No. of cases treat-d.	Brooms
Typhoid fever	Fuel
	Light-
Pnerperal	Waters
Cerebro spinal fever	Ice
	Salarie
Smallpox	Conting
Revenue.	Repairs
Received from the Province of	710
Ontario \$ 534 28	То
From the Town of Collingwood 200 00	Govern

From the County of Simcoe From paying patients Subscriptions, donations, etc From sources not enumerated	\$ 500 2,360 783 158	45 49
Total	\$1,536	95
E.rpenditures.		
Butchers' Meat	\$ 322	27
Butter	95	18
Flour, bread and meal	89	60
Milk	111	06
Tea and coffee	- 33	
Potatoes and other vegetables	32	
Groceries and provisions, not en-	0.	0.
umerated	559	84
Drugs and medicines	327	83
Surgical appliances	68	40.44
Beer, wine and spirits	11	
Hay and straw	26	91
Bedding, napery and general	20	01
	558	87
house furnishings	11	00
Brooms, brushes, mops, etc	403	64
Fuel	405	48
Light-gas, oil and candles	24	40 00
Water supply	24	00
Ice	~	05
Salaries and wages	1.376	
Contingencies	234	59 20
Repairs, ordinary	20	28
Total	\$4,475	65
Government grant for 1902	\$ 429	92

THE NICHOL'S HOSPITAL, PETERBOROUGH.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients.

Number under treatment, 1st Octo' er 1901 Admitted Births in hospital	$28 \\ 331 \\ 1$
Total number under treatment.	360
Discharged	318
Died	26
1902	16
-	360
Sex.	188
Female	172
-	360

The following table gives a summary of certain cases treated in the Nichol's Hospital, Peterborough, during the year :

	No. (f Cases
	treated.
Typhoid fever	
Typhus fever	
Puerperal fever	
Cerebro spinal fever	
Diphtheria	
Smallpox	Ł

From the Province of Ontario	S	759.88
From the Town of Peterborough.		
From patients themselves for		
maintenance and treatment.	- 2	2,759-00
From property belonging to the		
Hospital endowments, etc	4	4,072 00

1902	
------	--

From subscriptions, donations, and bequests from private individuals,	Beer, wine and spirits
From other sources	Brooms, brushes, mops, so p and cleaning appliances
Total	Fuel
	Light—gas, oil and candles 534 77
Expenditure.	Water supply 282 52
Butchers' meat \$ 455-23	Clothing for patients
Butter	Ice
Flour, bread and meal	Salaries and wages 3,107 32
Milk 194-40	Taxes and insurance 163 50
Tea and coffee	Hay and straw 19 42
Potatoes and other vegetables 200–67	Contingencies
Groceries and provisions not en-	Repairs, ordinary 1,215 50
umerated 415 13	
Drugs and medicines	Total\$11,323-81
Surgical instruments and appli-	
ances	Government grant for 1902 \$ 674 22

ST. JOSEPH'S HOSPITAL, PETERBOROUGH.

The following summaries show the operations of this Hospital during the official year:

Movements of Patients.

2	
Number under treatment, 1st October	
	29
	175
Disthe in heavited	•
Births in hospital	•••
Total number under treatment	504
Total number under treatment	9U4
Discharged 4	55
Died	14
Under treatment, 30th September,	
1902	35
i e e e e e e e e e e e e e e e e e e e	04
Ser.	
	26
	278
remate	10
	504
The following gives a summary of certa	
cases treated in the Sr. Joseph's Hospit	al
Peterboro, during the year :	ar,
reterooro, during the year : No, of ca	
treated	
Typhoid fever	
Typhus fever	4
Puerperal fever	
Complete spinal for an	
	$\frac{1}{60}$
Diphtheria	00
Revenue.	
From the Province \$ 1,482	40
From the Town of Peterborough 75	
From other municipalities of the	00
	• •
From patients themselves for	EA
maintenance and treatment 2,474	90
From property belonging to the	

Hospital	 	

From subscriptions, donations and bequest from private individu- als From all other sources	1,310	00
Total	\$ 6,026	90
Expenditure.		
Butchers' Meat	\$ 468	00
Butter and eggs	-204	00
Flour, bread and meal	347	00
Milk	104	00
Tea and coffee	215	00
Potatoes and other vegetables	-200	00
Groceries and provisions, not enu-		
merated	702	00
Drugs and medicines	409	00
Surgical instruments and appli-		
ances	- 90	00
Beer, wine and spirits	- 80	00
Bedding, napery and general		
house furni-hings	-369	65
Brooms, brushes mops, soap and		
Cleaning appliances	100	00
Fuel	765	75
Light-gas, oil and candles	150	00
Water supply	65	00
Hay and straw	50	00
Clothing for patients	5×	00
Ice	18	00
Salaries and wages	1,212	00
Taxes and insurance	130	00
Coffins and funerals	45	00
Contingencies	365	00
Repairs, ordinary	778	70
Total	- в. €,917	10
	· ·	
Government grant for 1902	3 1,743	34

HOTEL DIEU HOSPITAL, WINDSOR.

The following summaries show the operations of this Hospital during the official year :

Managements of Patients	From other sources not enumer-
Movements of Patients.	ated \$ 7.35
Number under treatment. 1st October	ateu
1901 23 Admitted 313	Total\$ 4,594 28
Admitted 313	10(01,
Total number under treatment 336	Expenditure.
Discharged 296	The second second second second second second second second second second second second second second second se
Died 18	Butchers' meat \$ 410 16
Under treatment, 30th September,	Butter
1902	Flour, bread and meal
336	
Sex.	a charte de la del control construction de la del construction de la
Male 162	Groceries and provisions not en- umerated
Female 174	Drugs and medicines
	Medical and surgical appliances 170 22
336	Surgical instruments
The following table gives a summary of	Beer, wine and spirits 102 47
certain diseases treated in the Hotel Dieu	Bedding, napery and general
Hospital, Windsor, during the year :	housefurnishing 200 00
No. of case treated.	Brooms, brushes, mops, soap and
Typhoid fever	cleaning appliances 152-31
Typhus fever	Fuel
Puerperal fever	Light—gas. oil and candles 59 53
Cerebro spinal fever	Water supply 12 00
Diphtheria	Hay and straw 124 75
	Clothing for patients, including
Revenue.	boots and shoes 44 75
From the Province of Ontario\$ 1,151 23	Ice
From the Town of Windsor 347 77	Salaries and wages 201 90
From the County of Essex 29 14	Taxes and insurance 573 72
From patients themselves for	Contingencies
maintenance and treatment 3,028-79	Repairs ordinary 281 75
From endowments, invesments,	Total\$ 4,500 51
etc	100ai
Subscriptions, donations and be-	Government grant for 1902 \$ 598 13
quests 30 00 '	Corerament grane ter avagentit ter avagenter

ST. JOSEPH'S HOSPITAL, CHATHAM.

The following summaries show the operations of this Hospital during the official year:

Movements of Patients.	
Number under treatment, 1st October,	
1901	22
Admitted	466
Births in Hospital	20
Total under treatment	508
Discharged	456
Died	26
Under treatment, 30th September,	
1902	26
	508
Sex.	
Male	217
Female	291
	508

The following table gives a summary of
certain cases treated in the St. Joseph's
Hospital, Chatham, during the past year :
No. of cases treated.
Typhoid fever
Typhus fever
Puerperal fever
Cerebro spinal fever
Diphthería
Revenue.
From the Province of Ontario. \$ 1,399 51
From the Town of Chatham 40 00
From the County of Kent 30 00
From patients for maintenance
and treatment

.

		AF. 31 1	00	
From endowments, investments,		Medical and surgical appliances .\$	68	
etc		Beer, wine and spirits	35	35
From subscriptions, donations		Bedding, napery and general		
and bequests from private in-		house furnishings	798	07
dividuals	$12 \ 50$	Brooms, brushes, mops, soap and		
From other sources		cleaning appliances	47	06
		Fuel	462	96
Total \$	8.294 26	Light-gas, oil and candles	244	34
		Telephone		
E.cpenditures.		Lee apprily	26	
	695 83	Ice supply		
Butchers' meat\$		Salaries and wages	1,050	90
Butter	$322 \ 30$	Taxes and insurance	907	50
Flour, bread and meal	$322\ 18$	Contingencies	333	97
Milk	412 68	Coffins and funerals	22	
Tea and Coffee	$139 \ 31$	Repairs, ordinary	1,250	
Potatoes and other vegetables	136 52	repairs, orumary	1,290	10
Groceries and provisions not	100 02		00.000	
	000 12	Total	\$8,081	b2
enumerated	629 45			
Drugs and medicines	$174 \ 96$	Government grant for 1902	\$ 704	92

GENERAL HOSPITAL, CHATHAM.

The following summaries show the operations of this Hospital during the official year:

Movements of Patients.

Number under treatment, 1st October,	
1901	- 30
Admitted	440
Births in Hospital	30
Total number under treatment.	500
Discharged	434
Died	20
Under treatment, 30th September,	
1902	46
-	500
Sex.	
Male	168
Female	332
_	
	500

The following gives a summary of certain cases treated in the Chatham Hospital during the year :

	No. of cases treated.	
Typhoid fever		
Typhus fever	••••	
Puerperal fever Cerebro spinal fever	••••	
Diphtheria	16	

Revenue.

From the Province	1,910	84
From the Town of Chatham		
From the County of Kent	384	00
From patients themselves for		
maintenance and treatment	6,248	42

From	subs	riptio	ns,	dor	atio	ns		,	
	beque								
	als							~	00
From	other	sourc	es			••	•		
T	otal						\$ 8	584	26

Espenditure.

Butchers' meat\$	715	89
Butter	395	99
Flour, bread and meal	258	16
Milk	-409	10
Tea and coffee	140	00
Potatoes and other vegetables	265	61
Groceries and provisions, not		
enumerated	754	74
Drngs and medicines	111	00
Surgical instruments and appli-		
ances	77	12
Beer, wine and spirits	21	69
Bedding, napery and general		
house furnishings	628	44
Brooms, brushes, mops, soap and		
cleaning appliances		
Fuel	155	27
Light-gas, oil and candles	582	19
Water supply	57	60
Ice	- 30	00
Salaries and wages	1,850	50
Taxes and insurance	- 93	10
Contingencies	846	00
Repairs, ordinary	248	94
Total\$	7,641	34

Government grant for 1902.... \$1,948 73

GENERAL HOSPITAL, STRATFORD.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients.	Inc
Number under treatment, 1st Oct.,	Sub
1901 31 Admitted 249	Fro
Number of birth during the year 9	
Total number under treatment. 289	
Discharged 248	But
Died	But
Under treatment, 30th Sept , 1902 25	-Flo
289	Mil Tea
Sex. 140	Pot
Female	Gro
	Dru
	Sur
The following table gives a summary of ertain diseases treated in the General Hos-	a Bee
ital, Stratford, during the year :	Bec
No. of cases treated.	h
Pershaid forces 75	Bro
Typhoid rever 75 Typhus " " Puerperal " " Oerebro spinal " "	Fue Lig
Puerperal "	Wa
Diphtheria 1	Ha
Smallpox	Clo
Revenue.	Ice Sal
Received from the Province of	Ta
Ontario	Col
From the City of Stratford 500 00 From the County of Perth	Re
From other municipalities of the	
Province	C
From paying patients 4,710 58	Go

Income from endowments, in	
vestments, etc	
Subscriptions, donations, etc From other sources	
r rom other sources	. 040 10

7,706 81

Expenditures.

Butchers' meat	\$ 558 58
Butter	224 56
Flour, bread and meal	155 09
Milk	149 56
Tea and coffee	80 97
Potatoes and other vegetables	30 48
Groceries and provisions not en-	
umerated	503 03
Drugs and medicines	$439 \ 41$
Surgical instruments and appli-	
auces	314 50
Beer, wine and spirits	68 53
Bedding, napery and general	
house furnishings	218 25
Brooms, brushes. mops, etc	106 34
Fuel	3 37
Light-gas, oil and candles	269 85
Water supply	$50 \ 00$
Hay and straw	31 72
Clothing	
Ice	25 00
Salaries and wages	2,122 35
Taxes and insurance	29 50
Contingencies	537 32
Repairs, ordinary	264 86
Total	\$ 6,183 27
Cl	0 100 00

Government grant for 1902 \$ 468 20

AMASA WOOD HOSPITAL, ST. THOMAS.

The following summaries show the operations of this Hospital during the official year:

Movements of Patients.	
Number under treatment, 1st Oct.,	
1901	12
Admitted	161
Births in the Hospital	11
– Total number under treatment	184
Discharged	162
Died	10
Under treatment, 30th Sept., 1902	12
– Se.c.	184
Male	115
Female	69
-	184

The following table gives a summary of eertain diseases treated during the year :

Typhoid	fever											•						1	3
Typhus		•	•	•	•	•	•	• •	•	•	•		•	•	•	•		•	•
Puerperal Cerebro spina	,]							• •										•	
Diphtheria .								•										•	
Dipitementer i		•	•	°	°		•					1	Ť						

From the Province of Ontario	
From the City of St. Thomas	3,500 00
From the County of Elgin	
From property belonging to Hos-	
pital	83 80
From paying patients themselves	2,309 00

Subscriptions, donations and be-			Beer, wine and spirits	\$ 40	95
quests of private individuals in			Bedding, etc	303	34
cash			Brooms, brushes, mops, soap and		
Other sources			cleansing appliances	- 39	50
			Fuel	696	
Total	\$6,485	50	Light-gas. oil and candles	231	
Expenditures.			Water supply		00
Butchers' meat	\$ 261	09	Clothing for patients		35
Butter	315		Ice	_	50
Flour, bread and meal	80	0.0	Salaries and wages	1,597	
	168		Taxes and income		12
Milk	33				
Tea and coffee			Contingencies	151	
Potatoes and other vegetable	85	56	Repairs, ordinary	44	70
Groceries and other provisions			_		
not enumerated	484	18	Total	\$5 164	58
Drugs and medicines	285	38		40,101	00
Surgical instruments and appli-					
ances	288	0	Government grant for 1902	8 592	30

GENERAL AND MARINE HOSPITAL, OWEN SOUND.

The following summaries show the operations of this Hospital during the official year:

. Movements of Patients.

Number under treatment, 1st October,	
1901	14
Admitted	249
Births in Hospital	4
Total number under treatment.	267
Discharged	238
Died	11
Under treatment, 30th September,	
1902	18
	267
Sex.	
Male	180
Females	87
	267

The following table gives a summary of certain diseases treated in the General and Marine Hospital during the year :

	No. of cases
	treated.
Typhoid fever	42
Typhus fever	
Puerperal fever	
Cerebro spinal fever	
Diphtheria	1

Revenue.

From the Province of Ontario	\$ 700 88
From the Dominion Government	
From the Town of Owen Sound	$500 \ 00$
From the County of Grey	500 00
From other municipalities	$225 \ 00$
From patients themselves for	
maintenance and treatment	2,571 24

From endowments, investments	
or other property belonging to	
the Hospital	132 54
From subscriptions, bequests and	TOP OX
	121 87
donations of private persons	
From all other sources not	
enumerated	$218 \ 70$
	\$ 4,970 23
Expenditure.	
Butchers' meat	\$ 303 25
	216 41
Butter	
Flour, bread and meal	169 24
Milk	29 25
Tea and coffee	$48 \ 16$
Potatoes and other vegetables	34 70
Groceries and provisions not enu-	
merated	485 61
Drugs and medicines	70.05
Medical and surgical appliances	307 01
Beer, wine and spirits	14 20
Bedding, napery and general	
house furnishings	189 07
Brooms, brushes, mops, soap and	
cleaning appliances	40 86
Fuel	299 00
Light—oil and candles	180 36
Water supply	25 00
Hay and straw.	108 59
Olathing for nationts	
Clothing for patients	· · · · · · · · ·
Ice	1,372 23
Salaries and wages	
Insurance and interest	73 95
Contingencies	126 66
Ronaire ordinary	179 56

Total \$ 4,272 16 Government grant for 1902 \$ 1,019 50

178 56

Repairs, ordinary.....

GENERAL HOSPITAL, SUDBURY.

The following summaries show the operations of this Hospital during the official year:

Movements of Patien's.

Number under treatment on the 1st October, 1901 Number admitted	7164
	151
Total number under treatment	171
Discharged	152
Died	12
Remaining under treatment on 30th	
September, 1902	7
	171
Sex.	
Male	164
Female	7
	171

The following table gives a summary of certain diseases treated in the Sudbury General Hospital during the year :

No. of cases
treated.
Typhoid fever 11
Typhus fever
Puerperal fever
Cerebro spinal fever
Diphtheria 2
Smallpox 1
Revenue.
From the Province of Ontario \$ 494 75
From the Town of Sudbury
From the District of Nipissing, etc
From paying patients 1,665 68
From property belonging to the
Hospital

From subscriptions, bequests and		
donations of private individuals	\$ 1,629	40
From other sources not enumer-		
ated	• • • • •	•••
Total	\$ 3 789	83
10.001	\$ 0,100	00
Expenditure.		
Butchers' meat		50
Butter	85	35
Flour, bread and meal	98	70
Milk	160	30
Tea and coffee	50	25
Potatoes and other vegetables	- 90	05
Groceries and provisions, not enu-		
merated	160	75
Drugs and medicines	109	00
Medical and surgical appliances	45	15
Beer, wine and spirits	15	00
Bedding, napery and general		
house furnishings	:0	50
Brooms, brushes, mops, soap and		
cleaning appliances	16	75
Fuel	327	05
Light-gas, oil and candles	79	00
Water supply	- 33	00
Hay and straw	17	50
Ice supply	.8	00
Salaries and wages	1,310	00
Taxes and insurance	-,	
Coffins and funerals	15	
Contingencies	15	00
Repairs, ordinary	92	00
Total	\$ 2,969	85
Government grant for 1902	\$ 492	56

Goronmony grant for recently 4 ----

ST. JOSEPH'S HOSPITAL, SUDBURY.

The following summaries show the operations of this Hospital during the official year :

Number under treatment on the 1st	
October, 1901	15
Number admitted	291
Total number under treatment.	306
Lotal humber under treatment.	500
Discharged	271
Died	10
Remaining under treatment on the	05
30th September, 1902	25
	306
Sex.	
Male	284
Female	22
-	306

The following table gives	a summary of
certain diseases treated in the	e St. Joseph's
Hospital, Sudbury, during the	year :
	NT- of course

	o, or cas	
	treated.	
Typhoid fever		16
Typhus fever		• •
Puerperal fever		
Cerebro Spinal fever	 	
Diphtheria		• •
Smallpox		1

From the Province of Ontario	\$ 872 05
From the Town of Sudbury	
From the County of Nipissing in	
payment for patients	

From paying patients themselves \$ 1,713 29 From income from property or investments	Beer, wine and spirits
quests	Brooms, brushes, mops, soap and
Other sources 2,470 59	0 11
PE 055 05	
\$5,055 93	
1°	Water
Expenditure.	Clothing for patients
Butchers' meat \$ 405 20	lce
Butter	
Milk	Repairs, ordinary
Tea and coffee	
Potatoes and other vegetable 95 60	
Groccries and provisions not	Total \$ 3 999 00
enumerated	
Drugs and medicines 294 00) ' Government grant for 1902 \$ 839 17

GENERAL HOSPITAL, HUNTSVILLE.

The following summaries show the operations of this Hospital during the official year:

Movements of Patients.

Number under treatment from 1st January, 1901 Admitted	$\frac{10}{377}$
Number of births	3
· · -	390
Discharged	368
Died	8
Under treatment, 30th September, 1902	14
-	390
Se.c.	
Male	342
Female	48
-	390

The following table gives a summary of certain diseases treated in the General Hospital, Huntsville, during the year :

	No. of cases treated.
Typhoid fever	
Typhus " Puerperal "	
Puerperal **	
Cerebro spinal fever	
Diphtheria	
Smallpox	••••••••

Revenue.

From	the	Province of Ontario	\$1,433	35
		Village of Huntsville		

From the District of Muskoka	
From other municipalities	
From patients for maintenance	
and treatment.	\$ 356 00
From subscriptions, bequests and donations of private individuals	2,617 71
From all other sources	379 67
	010 01

Total \$4,786 73

Expenditure.

Butchers' meat	\$ 441	97
Butter	316	-00
Flour, bread and meal	388	24
Miłk	222	25
Tea and coffee	111	35
Potatoes and other vegetables	227	80
Groceries and provisions not enu-		
merated	609	50
Drugs, medicines and surgical		
instruments	485	90
Beer wine and spirits	40	00
Bedding, napery and general		
house furnishings	124	95
Brooms, brushes, etc	- 34	65
Fuel	500	00
Light-gas, oil and candles	75	00
Water supply	60	35
Ice	53	95
Salaries and wages	-1,210	00
Taxes and insurance	125	00
Repairs, ordinary	50	00
Contingencies	105	65
-		
Total	\$5,182	56

Government grant for 1902.... \$ 1,326 01

HUNTSVILLE HOSPITAL.

The following summaries show the operations of this Hospital during the official year:

Movements of Patients.	
Number under treatment from 1st January, 1901 Admitted Number of births	$\begin{array}{c}13\\316\\3\end{array}$
Total number under treatment	332
Discharged	312
Died	1
Under treatment, 30th September,	
1902	19
-	
	332
Sex.	
Male	221
Female	111
-	332
The following table gives a summa	ry of
certain diseases treated in the Hunt	
Hospital during the year :	
No. of	cases
treal	ted.
Typhoid fever	17

040	aucu.
Typhoid fever	17
Typhus fever	
Puerperal fever	
Cerebro-spinal fever	
Diphtheria	
Smallpox	

Revenue.

From	the Province of Ontario	\$1,215 06	
	the Village of Huntsville		
	the District of Muskoka		
From	other municipalities		

From patients for maintenance		
	\$ 592	00
Income from endowments, invest-		
ments, etc	95	50
From subscriptions, bequests and	0.070	24
donations of private individuals	3,250	
From all other sources		••
Total	\$5,152	80
Expenditures.		
	\$ 505	15
Butter	289	20
Flour, bread and meal	245	05
Milk	188	30
Tea and coffee	120	15
Potatoes and other vegetables	185	00
Groceries and provisions not enu-		
merated	625	00
Drugs, medicines and surgical in-	= co.	05
struments	560 49	
Beer, wine and spirits	42	20
Bedding, napery and general house furnishings	121	10
Brooms, brushes, etc.	40	55
Fuel.	235	00
Light-gas, oil and candles	75	25
Water supply	40	20
lce		25
Salaries and wages	1,662	00
Taxes and insurance	40	00
Repairs, ordinary	300	00
Contingencies	60	00
Total	\$5.372	35
Government grant for 1902	\$ 1,232	13

THE WOODSTOCK HOSPITAL.

The following summaries show the operations of this Hospital during the official year:

Movements of Patients.	
Number under treatment, from 1st October, 1901 Admitted Births	9 147
Total number under treatment	156
Discharged Died Under treatment 30th September,	$\begin{array}{c} 119\\ 23 \end{array}$
1902	14
8e.c.	156
Male Female	$\begin{array}{c} 76\\ 80 \end{array}$
-	156

The following table gives a summary of certain diseases treated in the Woodstock Hospital during the year :

	IN			ases
		ţı	reate	Jd.
Typhoid fever				21
Typhus fever				
Puerperal fever	• •	•	-	• •
Cerebro-spinal fever				• •
Diphtheria	• •	•	•	1.1

From the Province of Ontario	\$ 617	76
From the Town of Woodstock	600	
From the County of Oxford	600	00
From paving patients themselves.	-3,130	15
Subscriptions, donations and be-		
quests in cash	465	0

Income from endowments, etc.,	Surgical appliances \$ 172-22
or other property belonging to	Beer, wine and spirits 19-90
the Hospital	Bedding, etc
Received from other sources \$ 9 43	Brooms, brushes, mops, soap and
	cleaning appliances 73 75
Total \$5,422 36	Fuel
T1	Light—gas, oil and candles 467 42
Expenditures.	Water supply
Butchers' meat \$ 418 01	lce
Butter 184 85	Salaries and wages 1,735 80
Flour, bread and meal 106-10	Taxes and insurance
Milk	Contingencies 320 63
Tea and coffee	Repairs, ordinary 131 72
Potatoes and other vegetables	
Groceries and other provisions	Total \$5,440 30
not enumerated	
Drugs and medicine 299–99	Government grant for 1902 \$ 627 53

BERLIN AND WATERLOO HOSPITAL, BERLIN.

The following summaries show the operations of the Hospital during the official year:

Movements of Patients.

-	
Number under treatment from 1st	
October, 1901	11
Admitted	139
Births in Hospital	5
Total number under treatment	155
Discharged	135
Died	10
Under treatment, 30th September,	±0
1902	10
1904	TO
	155
a	100
Sex.	
Male	84
Female	71

155

The following table gives a summary of certain cases treated in the Berlin and Waterloo Hospital during the year :

	NO OF Cases
	treated.
Typhoid fever	16
Typhus fever	
Puerperal fever	
Cerebro spinal fever	
Diphtheria	5

Revenue.

E d D : co : :	0 050 05
From the Province of Ontario	\$ 813 30
From the Town of Berlin	1,000 00
From the County of Waterloo	1,000 00
From the Town of Waterloo	800-00
From patients for maintenance	
and treatment	1,764 87
1 11	

From endowments, investments,

etc	6 8	26 48
From subscriptions, donations,		
and bequests from private in-		
dividuals		-15 00
From other sources		737 02

Total	5,216 72
-------	------------

Expenditures.

Butchers' meat	\$ 321 25
Butter	114 00
Flour, bread and meal	108 64
Milk	202 72
Tea and coffee	23 45
Potatoes and other vegetables	
Groceries and provisions not	
enumerated	$341 \ 18$
Drugs and medicines	380 66
Medical and surgical appliances .	165 56
Beer, wine and spirits	28 00
Bedding, napery, and general	20 (11)
house furnishings	226 28
Brooms, brushes, mops, soap and	220 20
	37 60
cleaning appliances	272 73
Fuel	
Light—gas, oil and candles	317 80
Water	108 18
Ice supply	60 00
Salaries and wages	1,855 69
Taxes and insurance	15 75
Contingencies	519 73
Repairs, ordinary	$216 \ 09$
$T \rightarrow 1$	05.015.01
Total,	\$9,315 31
Government grant for 1902	\$ 589 10

H.

GENERAL HOSPITAL, SARNIA.

The following summaries show the operations of this Hospital during the official year:

Movements of Patients.	
Number under treatment, Ist Octo- ber, 1901 Admitted Births in Hospital	$19 \\ 193 \\ 5$
Total number under treatment.	317
Discharged Died Under treatment, 30th September, 1902	$270 \\ 20 \\ 27$
	317 148
Female	$\frac{169}{317}$

The following gives a summary of certain cases treated in the Hospital during the year:

No. of cases	
treated.	
Typhoid fever	
Typhus fever	
Puerperal fever	
Cerebro spinal fever	
Diphtheria	
Revenue.	
From the Province	
From the Town of Sarnia 500 00	
From patients themselves for	
maintenance and treatment 5,143 87	
From property belonging to the	
Hospital	
10 00	

From the County of Lambton From Subscriptions, donations, and bequests from private indi-	\$ 500	0 0
viduals	97	28
From all other sources	1,454	
	1,101	=0
Total	\$ 9,643	78
Expenditures		
Butchers' meat	\$ 821	32
Butter and eggs	563	74
Flour, bread and meal	198	72
Milk	472	04
Tea and Coffee	112	
Potatoes and other vegetables.	201	
Groceries and provisions, not	201	-1
enumerated	719	30
Drugs and medicine	367	
Drugs and medicine	904	00
Surgical instruments and appli-	000	0.
ances	639	
Beer, wine and spirits	11	95
Bedding napery and general		
house furnishings	261	85
Brooms, brushes, mops, soap and		
cleansing appliances	6	
Fuel	86	93
Light-gas, oil, candles	422	25
Laundry, etc	897	31
Ice		
Salaries and wages	2,076	
Taxes and insurance		
Contingencies	271	
Repairs, ordinary	210	
repares or and services and s		
Total	\$8,405	94
Government grant for 1902	\$ 1,192	69

ROYAL VICTORIA HOSPITAL, BARRIE.

The following summaries show the operations of this Hospital during the official year:

Movements of Patients.	
Number under treatment, 1st Octo-	
ber, 1901	15
Admitted	124
Births in Hospital	1
- Total number under treatment	140
Discharged	114
Died	13
Under treatment, 30th September, 1902	13
Sex.	140
Male	76
Female	64
-	140

The following table gives a summary of certain cases treated in the Royal-Victoria
Hospital during the year :
No. of cases treated.
Typhoid fever 16
Typhus fever
Puerperal fever
Cerebro spinal fever
Diphtheria 1
Revenue.
From the Province of Ontario. \$ 706 83
From the Town of Barrie 200 00
From the County of Simcoe 250 00
From patients for maintenance
and treatment 1,785 10

100 00

From endowments. investments,

ete

194)2
-----	----

From subscriptions, donations and bequests from private indi-	Beer, wine and spirits\$ 3 70 Bedding, napery and general
viduals \$ 255 00	house furnishings 113 68
From other sources 167-30	Brooms, brushes, mops, soap and
	cleaning appliances $\dots \dots
Total \$3,464 23	Fuel
	Light—gas, oil and candles 85 16
E.cpenditures.	Water 19 00
Butchers' meat \$ 345 49	Clothiag for patients
Butter 119 98	Ice supply 6 00
Flour, bread and meal 113 00	Salaries and wages 1,010 29
Milk	Taxes and insurance 47 25
Tea and coffee 29 04	Contingencies 389 07
Potatoes and other vegetables 97 83	Repairs, ordinary
Groceries and provisions, not	
enumerated 521 34	Total \$ 3,611 88
Drugs and medicines 164 81	
Medical and surgical appliances 74 28	Government grant for 1902 \$ 582 10
0 .1	

HOTEL DIEU HOSPITAL, CORNWALL.

The following summaries show the operations of this Hospital during the official year:

Movements of Patients.

Number under treatment, 1st Octo- ber, 1901	$\frac{31}{486}$
Births in the Hospital	• • • •
Total number under treatment	517
Discharges, including infants	466
Died	15
Under treatment, 30th September,	10
1902	36
	517
Se.r.	
Male	230
Female	287
-	517
The following table size	6
The following table gives a summary o	I cer-
tain cases treated in Hotel Dieu Hos	pital,
Cornwall, during the year : No. of	
	ted.
Typhoid fever	
Typhus	
Puerperal	
Cerebro spinal fever	
Diphtheria	

Revenue

From the	Province of Ontario	\$ 1,976	73
From the	Town of Cornwall	200	00
	Counties of Stormont,		
Dundas	and Glengarry	300	00

From other municipalities in the	
Province	\$ 75 00
From paying patients themselves	1,952 12
From subscriptions, donations, etc	880 14
From other sources	782 44

Total \$6,166 43

Expenditures.

Butchers' meat and fish \$	
Butter	396 00
Flour, bread and meal	412 60
Milk	367 42
Tea and coffce	121 18
Potatoes and other vegetables	$204 \ 14$
Groceries and provisions, not	
enumerated	921 74
Drugs and medicines	261 14
Medical and surgical appliances.	280 04
Sungieal instruments	2 51
Surgical instruments	36 40
Beer, wine and spirits	50 40
Bedding napery and general	
house furnishings	484 00
Brooms, brushes, mops, soap and	
cleaning appliances	80 10
Fuel	780 00
Light—gas. oil and candles	246 24
Clothing for patients, including	
boots and shoes	
Tao	14 00
Ice	
Salaries and wases	290 00
Taxes and insurance	174 00
Contingencies	260 14
Repairs, ordinary	65 00
Total	6,156 85
Government grant for 1902	2,444 16

No, 40

GENERAL HOSPITAL, CORNWALL.

The following summaries show the operations of this Hospital during the official year:

305

Movement of Patients.	
Number under treatment 1st October,	
1901	14
Admitted	291
Births in the Hospital	
Total number under treatment.	305
Discharged	263
Died	19
Under treatment 30th September, 1902	23
-	305
Sev.	
Male	157
Female	148

The following table gives a summary of certain cases treated in the General Hospital, Cornwall, during the year :

			reat		
Typhoid fever]	11
Typhus fever					
Puerperal	• •	• •	•	•	
Cerebro spinal fever					
Diphtheria	• •	• •	•	•	•••

Revenue.

From the Province of Ontario	\$1,428	84
From the Town of Cornwall	-400	00
From counties of Stormont, Dun-		
das and Glengarry	300	00
From other municipalities in the		
Province	100	
From paying patients themselves	2,076	33

From subscript	ions, c	lonations,
----------------	---------	------------

etc		 \$	1,881 82
From other	sources.	 	$12 \ 64$

\$6,199 63

Espenditure

Butchers' meats	\$ 595	98
Butter	240	22
Flour, bread and meal	268	79
Milk	272	02
Tea and coffee	96	58
Potatoes and other vegetables	163	97
Groceries and provisions, not		
enumerated	472	06
Drugs and Medicines	208	56
Medical and surgical appliances	119	82
Surgical instruments	4	08
Beer, wine and spirits	29	13
Bedding, napery and general		
house furnishings	310	95
Brooms, brushes, mops, soap and		
cleaning appliances	70	17
Fuel	631	
Light-gas, oil and candles	221	
Clothing for patients, including		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
boots and shoes		
Grounds, etc	248	02
Salaries and wages.	1,785	
Insurance		
Contingencies	89	29
Repairs, ordinary		84
Printing, stationery, postage, tele-	- 1	U .
phone, etc	150	40
phone, etc	100	-10
Total	\$6.026	05
A \$7.001 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	#11,0 2 0	00
		00

Government grant for 1902 \$ 1,165 88

NATIONAL SANATORIUM FOR CONSUMPTIVES, GRAVENHURST.

The following summaries show the operations of this Hospital during the official year:

M F

Morement of Patients.

Number under treatment 1st October,	
1901	61
Admitted	190
Total number under treatment.	251
Discharged	142
Died	õ
Under treatment 30th September, 1902	104
	251

Ser.

Iale		
		251
Revenue.		
from the Province of Ontario	\$2	508 15

From the Province of Ontario... \$2,508 15 From the City of Toronto in payment of patients' maintenance 338 00 From paying patients themselves. 24,493 02

12 A suit di un la successione d	Draw law has a	
From subscriptions, bequests and		
donations of private individuals \$10,189		
From other sources 3,295	48 Fuel	$\dots 1,824 57$
	- Light-oil, candles and elect	
Total		
Expenditure.	Travelling expenses	
Butchers' meat \$4,994	TT C 1	768-04
But er and eggs 1,792		
Flour bread and meal		
Milk 1,801	T	
Tea and coffee	T3 * 1 / 1	
Potatoes and other vegetables 1,617		etc 2,728-66
Groceries and provisions, not	Contingencies	$\dots 1.321 \ 26$
enumerated 1,822		601 65
Drugs, medicines and surgical		··
appliances, etc 994	75 Total	\$37 020 12
Disinfectants	01	
Beer, wine and spirits 1	70	
Bedding, napery, and general		
house furnishings 1,715	91 Government aid for 1902	\$3,636-16

GENERAL HOSPITAL, RAT PORTAGE.

The following summaries show the operations of this Hospital during the official year:

1

Movement of Patients.

idocement of i attento.
Number under treatment 1st October, 901 Admitted 100
Total number under treatment. 109
Discharged
108 Ser.
Male
109 The following table gives a summary of certain diseases treated in the General Hos- pital, Rat Portage, Rainy River District : No. of cases treated
Typhoid fever
Revenue.
From the Province of Ontario. \$393 18

From the	Province of Ontario	\$393 18
From the	Town of Rat Portage	423 45
From oth	er municipalities	

From paying patients	
Income from property	
Subscriptions, donations, etc	
Other sources	130 00

Total \$ 3,682 97

Expenditure.

Butchers' meat	\$ 161 45
Butter	105 15
Flour, bread and meal	80 09
Milk.	81 83
Tea and coffee	70 80
Potatoes and other vegetables	50 10
Groceries and provisions, not	
enumerated	390 16
Drugs and medicines and surgical	
appliances	$239 \ 45$
Beer, wine and spirits	36 35
Bedding, napery and general	
house furnishings	193 81
Brooms, brushes, mops, soap and	
cleaning appliances	45 00
Fuel	160 96
Light-gas, oil and candles	93 20
Water supply	
Ice	41 75
Salaries and wages	$1,509\ 10$
Contingencies	103 25
Repairs, ordinary	79 67
A · · · · · · · · · · · · · · · · · · ·	
Total	\$ 3,442 12
Government grant for 1902	\$ 452 84

GENERAL HOSPITAL, PARRY SOUND.

The following summaries show the operations of this Hospital during the official year:

Movements of Patients.

Number under treatment 1st October,	H
1901	7
Admitted.	156
Births in Hospital	2
· · · ·	
Total number under treatment.	165
Discharged	158
Died	5
Under treatment 30th September, 1902	7
-	165
Sex.	

Male Female														-	25 40	
														1	65	

The following table gives a summary of certain diseases treated in the General Hospital, Parry Sound, during the year :

No. of cases

	treatu	eu.
Typhoid fever		24
Typhus fever		
Puerperal fever	• •	• • • •
Cerebro spinal fever		
Diphtheria	• •	• • • •

Rerenue.

From the Province of Ontario	s	352	61
From the District of Parry Sound		75	00
From paying patients themselves		882	50

From subscriptions, bequests and donations of private individuals

From other sources..... \$ 1,888 95

Total \$ 2,199 06

Fxpenditure.

Butchers' meat	S	266	24
Butter		176	80
Flour, bread and meal		163	00
Milk		100	00
Tea and coffee		49	40
Potatoes and other vegetables		37	35
Groceries and provisions, not			
enumerated		352	15
Drugs, medicines and surgical			
appliances, etc		293	$\overline{50}$
Surgical instruments		100	22
Beer, wine and spirits		12	50
Bedding, napery and general			
house furnishings		52	00
Brooms, brushes, mops, soap and			
cleaning appliances		65	60
Fuel		280	00
Light-gas, oil and candles		111	80
Water		22	00
Ice		17	50
Salaries and wages	1	.007	00
Repairs, ordinary		25	
Total	\$ 3	.132	06
•			
Government aid for 1902	\$	430	94

GENERAL HOSPITAL, SAULT STE. MARIE.

The following summaries show the operations of this Hospital during the official year:

Movements of Patients.	
Number under treatment, 1st October,	
1901	43
Admitted	746
Total number under treatment.	789
Discharged	692
Died	32
Under treatment, 30th September,	
1902	65
-	789
Sex.	050
Male	656
Female	133
-	789

The following table gives a summary of certain cases treated in the General Hospital, Sault Ste. Marie, during the year :

				case	
		tı	eat	ed	
Typhoid fever				18	$\mathbf{\tilde{5}}$
Typhus fever	•	••	•	• • •	•
Puerperal fever					
Cerebro spinal fever					
Diphtheria	• •	• •		•••	•

From the Province of Ontario	
From the City of Sault Ste. Marie	300 00
From other municipalities	
From patients themselves for	
maintenance and treatment	6,971 29

Income and endowments Subscriptions, donations and be- quests of private individuals \$ 360-75	Surgical instruments	
From other sources not enumer- ated.	house furnishings	75
	cleaning appliances 63 (00
Total \$10,120 80	Fuel 438 4	47
	Light—gas, oil and candles 92 (00
Expenditure.	Water supply 43 (00
*	Hay and straw	29
Butchers' meat § 1.102 15	Clothing for patients, including	
Butter 593 87	boots and shoes	35
Flour, bread and meal 408 50	1ee	00
Milk	Salaries and wages 1,558 2	29
Tea and coffee	Contingencies	
Potatoes and other vegetables 56 40	Repairs, ordinary 50 8	
Groceries and provisions not		_
enumerated	Total	31
Drugs and medicines		-
Medical and surgical appliances (709-33	Government grant for 1902 \$ 2,676 6	63

VICTORIA GENERAL HOSPITAL, RENFREW

The following summaries show the operations of this Hospital during the official year:

Movements of Patients. Number under treatment, 1st October, 1901 ā Admitted 93 Births in Hospital - 3 Total under treatment 101 Discharged -92 Died 5 Under treatment, 30th Sept., 1902... 4 101 Ser. Male -52Female 49 101 The following table gives a summary of certain cases treated in the Victoria General Hospital, Renfrew. during the past year

		No. of treat	cases ed.
Typhoid fever			7
Typhus fever	• • • • • • • • •		• • •
Puerperal fever	• • • • • • • • •	• • • •	• • • •
Cerebro spinal fever Diphtheria	• • • • • • • •		• • • •
Dipititetta			

Revenue.

From the Province of Ontario	\$ 66 20
From the Town of Renfrew	300 00
From the County of Renfrew	$283 \ 33$
From other municipalities	10 00
From patients for maintenance	
and treatment	$734_{-}00$

From subscriptions, donations and bequests from private individ-		
uals From all other sources	\$ 515 2	
Total	\$ 1,978 9	-

Expenditure.

Butchers' meat	\$ 106 10
Butter	54 34
Flour, bread and meal	30 91
Milk	54 00
Tea and coffee	18 49
Potatoes and other vegetables	$20 \ 37$
Groceries and provisions, not	20.01
enumerated	166 77
Drugs and modicines	
Drugs and medicines	74 97
Medical and surgical appliances	74 83
Beer, wine and spirits	$1 \ 50$
Bedding, napery and general	
house furnishings	42 83
Brooms, brushes, mops, soap and	
cleaning appliances	$26 \ 45$
Fuel.	191 19
Light-gas, oil and candles	50 73
Water supply	20 73
Ice supply.	
Salarias and wages	957 14
Salaries and wages	
Clothing for patients	75
Contingencies	$69 \ 16$
Repairs, ordinary	114 98
Total	\$ 2,076 24

Government grant for 1902 \$ 243-89

VICTORIAN HOSPITAL, THESSALON.

The following summaries show the operations of this Hospital during the official year:

Movements of Patients.

Number under treatment, 1st October. 1901 Admitted Births in Hospitals	2 36
A	
Total number under treatment	00
Discharged	30
Died	$\frac{1}{7}$
Under treatment, 30th Sept., 1902	
	38
Svd^* .	
Male	29
Female	9
	38

The following gives a summary of certain cases treated in the Thessalon Hospital during the year:

		treat	
Typhoid fever			
Typhus fever			
Puerperal fever	 		• • • •
Cerebro spinal fever	 		
Diphtheria	 		• • • •

Revenue.

From the Province	\$ 217 48
From the Town of Thessalon	
From patients themselves for	
maintenance and treatment	219 50

From subscriptions, donations, and bequests from private indi- viduals From other sources	\$159-50 229-00
Total	\$ 825 48
Expenditure.	
Butchers' meat Butter	- 00

Dutchers meat	5 02 04
Butter	29 01
Flour, bread and milk	$16 \ 11$
Milk	26 5 0
Tea and coffee	8 23
Potatoes and other vegetables	$11 \ 95$
Groceries and provisions, not	
enumerated	95 54
Drugs and medicines	6.90
Surgical instruments and appli-	
ances	10 55
Beer, wine and spirits	
Bedding, napery and general	
house furnishings	41 92
Brooms, brushes, mops, soap and	
cleaning appliances	275
Fuel	180 82
Light—gas, oil and candles	3 20
Water supply	15 00
Clothing for patients	
lee	15 75
Salaries and wages	$180 \ 03$
Taxes and insurance	
Rent	168 00
Contingencies	73 21
Repairs, ordinary	2 40
– Total	\$ 940 51
1.5.Cli	C CIO DI
Government grant for 1902	\$ 154 88

ROYAL ALEXANDRA HOSPITAL, FERGUS.

The following summaries show the operations of this Hospital during the official year:

ŀ

Movements of Patients.

Number under treatment. 1st October,	
1901	
Admitted	126
Births in Hospital	3
Total number under treatment.	129
	100
Discharged	106
Died	3
Under treatment, 30th September,	
1902	20
	129

						Å	Se	2	c.									
Male Female																	70 59	
																1	29)

The following table gives a summary of certain cases treated in the Royal Victoria Hospital during the year :

											1			. oi rea					
Typhoid fever .					•	•			•	•		•	•	•				2	
Typhus fever																•	•	•	
Puerperal fever	•	•			•	•	•	•		٠	٠	٠	٠	•	•	•	•		

Cerebro spinal fever Diphtheria Rerenue.	Groceries and provisions, not enumerated
From the Province of Ontario,	Beer, wine and spirits
From the County of Wellington \$ 400 00 From patients for maintenance and treatment	Bedding, napery and general house furnishings
From endowments, investments,	cleaning appliances
	Fuel
From subscriptions, donations	Light—gas, oil and candles 200 00
and bequests from private indi-	Light—gas, oil and candles 200 00 Water
viduals 184 40	Clothing for patients 5 25
From other sources	Ice supply
From other sources 2,050 75	Salaries and wages 2,648 97
\$ 5,953 45	Taxes and insurance
Expenditure.	Contingencies
Butchers' meat \$ 311 75	Repairs, ordinary
Butter	Hay and straw
Flour, bread and meal 185 46 Milk 142 00 Tea and coffee. 50 46	Total \$ 5,799 22
Potatoes and other vegetables 60 37	Government grant for 1902 \$ 419 07

HOUSES OF REFUGE.

The usual information obtained from each Refuge, in respect of sex, and previous residence of the inmates has been summarized as under:

Se.c.

Male	 1,769
Female	 3,105
	4,874

Previous Residence.

Received from cities and towns in which Refuges are located	3,568	
Received from counties in which the Refuges are located	600	
Received from other counties in the Province		
Immigrants and foreigners	67	
		4,874

TABLE No. 1.

SCHEDULE B.-Table I gives a summary of the operations of each Refuge during the year.

Name of Refuge.	Location.	Number of persons in the Refuges on 1st October, 1901,	Number admitted to Refuges during the year.	Total number under lodge ment during the year end- ing the 30th Sept., 1902.	Number discharged duing the year.	Number of deaths during the year.	Number of persons remain- ing in Refuge on 30th Sept., 1902.
Home of Industry	" Guelph Guelph St. Thomas Dundas Chatham Brantford Belleville Peterborough. " Windsor Lindsay Conwall	$\begin{array}{c} 126\\ 455\\ 133\\ 18\\ 13\\ 23\\ 84\\ 25\\ 89\\ 20\\ 45\\ 102\\ 32\\ 26\\ 42\\ 171\\ 02\\ 32\\ 26\\ 42\\ 171\\ 102\\ 32\\ 20\\ 39\\ 154\\ 19\\ 112\\ 32\\ 209\\ 39\\ 154\\ 19\\ 61\\ 18\\ 70\\ 10\\ 10\\ 12\\ 10\\ 10\\ 17\\ 37\\ 15\\ 8\\ 8\\ 17\\ 44\\ 7\end{array}$	$\begin{array}{c} 176\\ 317\\ 422\\ 167\\ 208\\ 591\\ 8\\ 49\\ 10\\ 23\\ 37\\ 8\\ 18\\ 60\\ 90\\ 39\\ 64\\ 21\\ 29\\ 27\\ 8\\ 62\\ 185\\ 8\\ 62\\ 185\\ 8\\ 62\\ 117\\ 20\\ 4\\ 11\\ 12\\ 26\\ 66\\ 10\\ 27\\ 32\\ 12\\ 12\\ \end{array}$	$\begin{array}{c} 302\\ 772\\ 175\\ 185\\ 221\\ 28\\ 475\\ 33\\ 138\\ 68\\ 139\\ 40\\ 44\\ 102\\ 261\\ 59\\ 261\\ 59\\ 261\\ 59\\ 261\\ 59\\ 28\\ 101\\ 339\\ 27\\ 111\\ 23\\ 187\\ 30\\ 16\\ 21\\ 29\\ 103\\ 25\\ 10\\ 10\\ 24\\ 76\\ 19\\ \end{array}$	$\begin{array}{c} 164\\ 289\\ 11\\ 160\\ 199\\ 5\\ 369\\ 6\\ 41\\ 3\\ 5\\ 34\\ 1\\ 16\\ 54\\ 75\\ 32\\ 13\\ 28\\ 9\\ 23\\ 45\\ 21\\ 7\\ 78\\ 28\\ 9\\ 23\\ 45\\ 21\\ 7\\ 78\\ 129\\ 2\\ 41\\ 6\\ 66\\ 20\\ 3\\ 9\\ 8\\ 43\\ 6\\ 4\\ 4\\ 3\\ 25\\ 11\\ 1\end{array}$	$\begin{array}{c} 26\\ 53\\ 40\\ 7\\ \\ \\ 1\\ 8\\ 3\\ 1\\ 4\\ 9\\ 15\\ 5\\ 2\\ 24\\ 8\\ 14\\ 6\\ \\ 11\\ 24\\ 4\\ 3\\ 1\\ 1\\ 6\\ 4\\ 2\\ 6\\ \\ \\ 2\\ 2\\ 2\\ 5\\ 4\\ \\ 1\\ 8\\ 2\\ \end{array}$	$112 \\ 430 \\ 124 \\ 30 \\ 124 \\ 8 \\ 22 \\ 28 \\ 8 \\ 24 \\ 96 \\ 23 \\ 54 \\ 90 \\ 36 \\ 23 \\ 46 \\ 162 \\ 23 \\ 106 \\ 73 \\ 3 \\ 3 \\ 3 \\ 3 \\ 77 \\ 154 \\ 42 \\ 209 \\ 196 \\ 66 \\ 15 \\ 115 \\ 10 \\ 11 \\ 10 \\ 15 \\ 15 \\ 6 \\ 20 \\ 43 \\ 6 \\ 10 \\ 11 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 $
Totals for 1902		2,412 1,069	2,555 2,427	4,967 4,786	2,072 2,040	333 402	2,562 2,413

TABLE No. 2.

.

Shows the aggregate stay of inmates, upon which the amount of aid to be granted by the Government to each Refuge is based. The average stay per inmate is also given.

Name of Refu _s e.	Location.	The number of inmates during the year.	Total stay in days during the year.	Average stay per inmate in days.
Honse of Industry Honse of Providence. Home for Incurables. St. John's Hospital Convalescent Home. The Church Home. The Church Home. The Haven Old Folk's Home Good Shepherd Female & fuge Aged Men's Home Aged Women's Home. House of Refuge Home for Aged Women St. Peter's Home House of Provideoce Home for Friendless Women Roman Catholic House of Refuge Home for Aged People. Convalescent Home. Home for Incurables St. Patrick's R-fuge St. Charle's Hospice. Home for the Aged Home for Friendless Women The Refuge of Our Lady of Charity. Home of Providence. Home for Incurables. The Home for Friendless The Mome of Providence. Home for Incurables. House of Providence. Home for the Aged The Thomas Williams' Home. House of Providence. Home for the Friendless. The Widows' Home. Home for the Friendless. The Protestant Home. House of Providence. Home for the Aged and Infirm. Home for the Aged and Infirm.	Toronto	$\begin{array}{c} 302\\ 772\\ 175\\ 185\\ 221\\ 28\\ 475\\ 33\\ 138\\ 30\\ 68\\ 139\\ 40\\ 44\\ 102\\ 261\\ 59\\ 152\\ 92\\ 31\\ 131\\ 223\\ 59\\ 28\\ 101\\ 339\\ 27\\ 111\\ 23\\ 187\\ 30\\ 16\\ 21\\ 29\\ 103\\ 25\\ 10\\ 24\\ 76\\ 19 \end{array}$	50,192 161,154 46,018 6,563 8,687 32,477 9,633 33,802 8,370 12,538 9,050 15,762 67,823 7,450 37,006 27,239 1,754 7,387 35,546 51,839 13,434 6,906 14,432 66,242 4,309 3,784 6,730 36,242 4,309 3,784 6,712 18,071 5,215 2,931 6,936 17,922 2,821	$\begin{array}{c} 166\\ 209\\ 263\\ 308\\ 68\\ 292\\ 245\\ 279\\ 297\\ 253\\ 313\\ 206\\ 454\\ 260\\ 126\\ 243\\ 296\\ 57\\ 194\\ 271\\ 232\\ 226\\ 243\\ 296\\ 57\\ 194\\ 243\\ 271\\ 232\\ 228\\ 247\\ 143\\ 178\\ 267\\ 2277\\ 293\\ 194\\ 144\\ 275\\ 180\\ 232\\ 175\\ 209\\ 293\\ 289\\ 236\\ 148\\ 148\\ \end{array}$
Total for 1902		4,967	934,526	181
Totals for 1901		4,786	898,476	187

TABLE No. 3.

Shows the cost of maintaining the Refuges.

Name of Refuge.	Location.	Aggrugate stay of inmates.	Co.t of dietaries	Expenditure for fuel, salaries and wages and all general ex- penses.	Total expenditure, ex- clusive of extr ordin- ary expenses.	Average cost per inmate per day.
Home for the Friendless The Widows' Home The Home for the Friendless Howe of Providence. Home for the Friendless Home for the Aged and Infirm St. Paul's Home for the Aged Home for the Aged and Infirm Totals for 1902	Guelph Guelph		$\begin{array}{c} 3,510 \ 44\\ 1,528 \ 11\\ 742 \ 77\\ 1,348 \ 73\\ 6,680 \ 76\\ 505 \ 76\\ 505 \ 76\\ 505 \ 76\\ 505 \ 70\\ 1,300 \ 76\\ 5,555 \ 21\\ 4,898 \ 25\\ 1,087 \ 31\\ 1,874 \ 12\\ 1,388 \ 53\\ 5,265 \ 73\\ 1,125 \ 36\\ 2,468 \ 18\\ 794 \ 12\\ 3,369 \ 80\\ 449 \ 92\\ 319 \ 13\\ 208 \ 47\\ 696 \ 96\\ 2,257 \ 66\\ 613 \ 22\\ 517 \ 88\\ 689 \ 42\\ 1,762 \ 52\\ 245 \ 86\\ \hline \hline 106, 525 \ 95\\ \hline \end{array}$	$\begin{array}{c} \$ & c. \\ 4,378 & 45 \\ 15,124 & 26 \\ 11,193 & 02 \\ 4,267 & 611 \\ 2,146 & 23 \\ 1,251 & 90 \\ 4,342 & 48 \\ 2,305 & 50 \\ 4,465 & 19 \\ 2,251 & 24 \\ 3,781 & 66 \\ 5,532 & 44 \\ 2,212 & 59 \\ 1,639 & 87 \\ 1,329 & 21 \\ 8,479 & 38 \\ 991 & 44 \\ 7,582 & 60 \\ 3,185 & 57 \\ 348 & 90 \\ 2,485 & 27 \\ 4,247 & 05 \\ 4,754 & 611 \\ 1,848 & 97 \\ 2,239 & 17 \\ 2,335 & 22 \\ 4,143 & 79 \\ 6,532 & 22 \\ 2,239 & 17 \\ 1,243 & 67 \\ 2,239 & 17 \\ 1,243 & 57 \\ 6,532 & 44 \\ 7,584 & 97 \\ 7,2335 & 22 \\ 4,143 & 79 \\ 6,532 & 22 \\ 2,697 & 62 \\ 2,239 & 17 \\ 1,243 & 57 \\ 1,243 & 57 \\ 1,243 & 57 \\ 6,532 & 85 \\ 5,57 & 66 \\ 4,476 & 25 \\ 1,610 & 03 \\ 611 & 71 \\ 229 & 41 \\ 666 & 23 \\ 1,248 & 57 \\ 684 & 98 \\ 599 & 55 \\ 873 & 66 \\ 978 & 04 \\ 390 & 46 \\ \hline 131,777 & 25 \\ \end{array}$	$\begin{array}{c} \$ & c. \\ * & 9,599 & 35 \\ $32,494 & 21 \\ $18,800 & 56 \\ $7,106 & 68 \\ $4,004 & 14 \\ $2,339 & 27 \\ $7,300 & 57 \\ $3,906 & 77 \\ $46,770 & 40 \\ $3,333 & 63 \\ $5,552 & 10 \\ $9,342 & 88 \\ $3,740 & 70 \\ $2,382 & 64 \\ $2,677 & 94 \\ $2,677 & 94 \\ $15,160 & 14 \\ $1,496 & 80 \\ $13,637 & 10 \\ $6,554 & 88 \\ $546 & 06 \\ $3,736 & 03 \\ $9,802 & 26 \\ $9,552 & 86 \\ $2,937 & 68 \\ $4,209 & 34 \\ $5,532 & 32 \\ $1,798 & 55 \\ $2,037 & 91 \\ $7,846 & 05 \\ $2,037 & 91 \\ $7,846 & 05 \\ $2,037 & 91 \\ $7,846 & 05 \\ $2,059 & 95 \\ $930 & 84 \\ $4,707 & 35 \\ $2,059 & 95 \\ $2,059 & 95 \\ $930 & 84 \\ $427 & 88 \\ $1,298 & 20 \\ $917 & 43 \\ $1,298 & 20 \\ $1,298 & 20 \\ $1,100 & 2$	cents. .1912 .2016 .4085 1.0820 6078 .2248 .4045 .2002 .2983 .2661 .2983 .2983 .2983 .2983 .2983 .2983 .2064 .2169 .2088 .2235 .2008 .2235 .2406 .3113 .555 .2406 .3133 .555 .2406 .3833 .1552 .5501 .1876 .2069 .2114 .1156 .2060 .2114 .1565 .2060 .2144 .2255 .2549
Totals for 1901		897,459	101,326 18	139,615 47	240,941 65	. 3201

* House of Industry, Toconto-Exclusive of outdoor relief, \$11,830.11. * Home for the Incurables, Windsor- do \$1,430.78.

TABLE No. 4.

Shows the basis upon which statutory aid is granted.

Name of Refuge.	, Location.	Collective days' stay upon which computation of Refuge rates is based, exclusive of infants under 1 year old.	Collective days' stay upon which computation of Orphan- age rates is based, exclusive of infants under I year old.	Amount recsived from all sources other than Govern- ment.	Computation at 7 cents per day.	Computation at 2 cents per day.	Total Government allowance to each House of Refuge for the year 1902.
House of Industry	Toronto	7,387	2,268 3,693 	$\begin{array}{c} 8 & {\rm c}, \\ 17,609 & 50 \\ 20,856 & 55 \\ 20,110 & 611 \\ 7,025 & 43 \\ 4,240 & 45 \\ 2,040 & 37 \\ 6,551 & 47 \\ 3,338 & 95 \\ 4,856 & 75 \\ 4,856 & 75 \\ 2,709 & 23 \\ 5,416 & 23 \\ 7,700 & 23 \\ 5,416 & 23 \\ 7,700 & 23 \\ 5,416 & 23 \\ 7,700 & 23 \\ 9,292 & 30 \\ 1,471 & 26 \\ 2,301 & 39 \\ 9,806 & 25 \\ 1,800 & 59 \\ 1,471 & 26 \\ 2,301 & 39 \\ 9,806 & 25 \\ 1,800 & 59 \\ 1,658 & 52 \\ 1,800 & 59 \\ 1,658 & 65 \\ 4,368 & 011 \\ 2,306 & 36 \\ 1,714 & 56 \\ 4,367 & 38 \\ 4,805 & 83 \\ 9,230 & 30 \\ 2,970 & 32 \\ 2,554 & 67 \\ 2,104 & 97 \\ 2,583 & 66 \\ 2,432 & 56 \\ 959 & 99 \\ 9 \end{array}$	$\begin{array}{c} 633 50\\ 1,103 34\\ 4,747 61\\ 2,590 42\\ 1,906 73\\ 122 78\\ 517 09\\ 2,488 22\\ 3,621 87\\ 940 38\\ 488 62\\ 3,621 87\\ 940 38\\ 488 62\\ 3,71 3,371 34\\ 504 77\\ 1,758 61\\ 471 10\\ 2,536 94\\ 504 77\\ 1,758 61\\ 471 10\\ 2,536 94\\ 504 77\\ 2,536 94\\ 307 79\\ 264 88\\ 446 32\\ 871 29\\ 305 05\\ 205 17\\ \end{array}$	45 36 	$\begin{array}{c} \$ & c. \\ 3,513 \ 44 \\ 11,280 \ 78 \\ 3,212 \ 78 \\ 3,221 \ 78 \\ 3,221 \ 78 \\ 45 \\ 447 \ 34 \\ 604 \ 50 \\ 1,805 \ 38 \\ 674 \ 31 \\ 2,252 \ 79 \\ 1,329 \ 23 \\ 2,457 \ 63 \\ 877 \ 66 \\ 633 \ 50 \\ 1,329 \ 23 \\ 2,457 \ 63 \\ 877 \ 66 \\ 633 \ 50 \\ 1,03 \ 34 \\ 4,747 \ 61 \\ 1,703 \ 34 \\ 4,747 \ 61 \\ 1,22 \ 78 \\ 517 \ 09 \\ 2,488 \ 22 \\ 3,623 \ 83 \\ 748 \ 81 \\ 3,616 \ 58 \\ 504 \ 77 \\ 1,758 \ 61 \\ 471 \ 10 \\ 2,566 \ 61 \\ 307 \ 79 \\ 264 \ 83 \\ 453 \ 04 \\ 976 \ 05 \\ 365 \ 05 \\ 205 \ 17 \end{array}$
Home for the Aged St. Paul's Home for the Aged Home for the Aged & Infirm. Totals for 1902. Totals for 1901	Lindsay Cornwall Bowmanville .	6,936 17,922 2,821 896,225 858,270	30,466	$1,146 09 \\1,729 10 \\581 08 \\200,533 38 \\147.049 06$	485 52 1,254 54 197 47 64,130 73 60,578 58	535 46	485 52 1,254 54 197 47 64.666 19 61,229 18

HOUSE OF INDUSTRY, TORONTO.

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movements of Inmates.	Receipts.
In residence, 1st October, 1901 126 Admitted 176 Total number of inmates 302	From the Province of Ontario\$ 3,665 13 From the City of Toronto 14,000 00 From Inmates
Discharged 164 Died 26 In residence, 30th September, 1902 112	to the House
205 Places Received from	2 Total\$21,274 63 Expenditures.
From the City of Toronto	Other expenditures,
30.	2 Government aid for 1902 \$ 3,513 44

HOUSE OF PROVIDENCE, TORONTO.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.

In residence, 1st October, 1901 455 Admitted	
Total	772
Discharged	
Places Admitted from.	772
City of Toronto	
Other counties in Ontario	
Sex.	772
Male	
Receipts.	772

From the Province of Ontario...\$11,623 08

From the City of Toronto Other Municipalities	$ 6,000 \ 00 \\ 184 \ 50 $
Income from property belonging to the House	1,000 00
From Inmates, in payment of board Subscriptions, donations and be-	3,626 00
quests of private individuals From other sources	7,069 10 2,976 95

\$32,479 63

Expenditures.

Food of all kinds	\$17,369 95
Clothing, furniture and furnish-	*HYS0
ings	3,075 29
Fuel, light and cleaning	3,998 56
Wages	970 75
Ordinary repairs	2,553 77
Livestock and feed for same	811 49
Other expenditures	
Total	\$32,494 21

Government aid for 1902......\$11,280-78

HOME FOR INCURABLES, TORONTO.

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movements of Inmates.	
In residence 1st October, 1901 133 Admitted 42	
	175
Discharged 11	
Died 40	
In residence, 30th September, 1902 124	
	175
Places Admitted from.	
From the City of Toronto 154 From the County of York and other	
counties 21	
Immigrants, foreigners, etc	
	175
Sex.	
Male	
Female	
	175
Receipts.	
From the Province of Ontario\$ 3,20	6 42

From other municipalities		
Payments from inmates	4,093	08
Income from property belonging		
to the house	1,642	20
Subscriptions, donations and in-		
come	4,595	47
Other sources	100	00
Total	\$16,637	17

Expenditures.

Food of all kinds\$	7.607 54
	1,058 41
	3,162 42
Salaries and wages	4,975 63
Repairs, grounds, etc	537 79
Medicine and medical comforts.	931 76
Other expenses	527 01
Total	8,800-56

Government aid for 1902 \$ 3,221 26

AGED WOMEN'S HOME, TORONTO.

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movements of Inmates.

From the City of Toronto 3,000 00

In residence 1st October, 190145Admitted23	
Total	68
Died	
	68
Sex. • 68	
	68
Places Admitted from.	
City of Toronto	
County of York and other counties. 16	
Immigrants, foreigners. etc 2	
	68

Receipts.

A	
From the Government of Ontario\$	
From the City of Toronto	150 00
From the County of York	
From payments made by inmates	4,990 25
Subscriptions, donations, etc	$269 \ 03$
Received from other sources	6 95
—	
Total\$	5,416 23
Expenditures.	
Food of all kinds\$	1.770 44
Clothing and furnishings	1,009 77
11 1 1. 1. 1.	200.00

LOOM OF GHE VINGE FEE SEES SEES	11110 11
Clothing and furnishings	1,009 77
	732 23
Salaries and wages	1,578 50
Repairs	173 88
Other expenses	287 28
_	
Total\$	5,552 10
a	

Government aid for 1902..... \$ 1,329-23

ST. JOHN'S HOSPITAL, TORONTO.

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movements of Inmates.

In residence 1st October, 1901 18 Admitted	From the Government of Ontario\$1,06815From the City of Toronto30120From other municipalities6,28975Subscriptions16548Other sources16900
Died	Total\$7,993 58
Places Admitted From.	Expenditures.
City of Toronto	Food of all kinds. \$2,839 67 Furniture and furnishings 212 93 Fuel, gas, etc. 1,138 44 Salaries and wages 1,869 08 Repairs, ordinary 287 20 Medicine, medical comforts. 486 65 Other expenses 273 26 Total \$7,106 68
Female 185 —— 185	Government aid for 1902 \$ 984 45

THE CONVALESCENT HOME, TORONTO.

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movements of Patients.

In residence 1st October, 1902 14 Admitted 207	
Total number of inmates	221
Discharged	221

Places Admitted From.

City of Toronto	194
County of York	
Other counties	4
Immigrants, foreigners, etc	8
immigranto, toroignoro, ecorritere	991

Sex.

Male Female	•	•	•	•		•	•	•	•	•	•	•	•	•	,	•	•			•	$\frac{27}{194}$	
		Ĩ		·	·																	

Receipts.

From the Province of Ontario From the City of Toronto	\$ 393 390	
Payment from inmates	3,178	
Income from property belonging to the Home	93	
Subscriptions and donations Other sources		60 00
	@4 000	

Total..... \$4,633 71

Expenditure.

Food of all kinds Furnishings, etc. Fuel, light and cleaning Salaries and wages Ordinary repairs. etc Other expenses	229 82 483 22 \$1,041 00 200 14
Total	\$4,004 14
Government aid for 1902	\$ 447 34

Receipts.

CHURCH HOME FOR THE AGED, TORONTO.

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movements of Inmates.

Discharged5Died1In residence 30th September, 1902.22	28 From the Government of Ontario From the City of Toronto From the County of York From other municipalities From payments made by inmates Income from property belonging to the Home Subscriptions, donations, etc	130 0 1,591 a 318 8	50 57
Places admitted from.	Espenditures.		
City of Toronto	Food of all kinds Clothing and furnishings Fuel, light, cleaning, etc Salaries and wages Repairs Other expenses	$$1,087 3 \\ 135 8 \\ 491 6 \\ 395 8 \\ 125 7 \\ 102 8$	9 6 3 0
Male	Total		

THE HAVEN, TORONTO.

The following summaries show the operations of this Asylum during the year

Movements of Inmates.

In residence 1st October, 1901 84 Admitted	
Total number of inmates	475
Discharged	475
Male (Infants)	475
City of Toronto	475

Receipts.

Receipts.

From the Province of Ontario From the City of Toronto From Inmates Income from laundry Subscriptions and donations From other sources	$\begin{array}{r} \$1,709 \ 11 \\ 1,420 \ 00 \\ 850 \ 04 \\ 2,920 \ 66 \\ 1,295 \ 72 \\ 65 \ 05 \end{array}$
Total Expenditures.	\$8,260 58
Food of all kinds Clothing and Furnishings, etc Fuel, light, cleaning etc. Salaries and wages Repairs Other expenses	
Total Government aid for 1902	

65

THE OLD FOLKS' HOME, TORONTO.

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movement of Inmates.		Receipts.
In residence 1st October, 1901 25 Admitted		From the Province of Ontario\$ 686 21 From the City of Toronto 300 00 From other municipalities
Total number of inmates	33	Payments for inmates
Discharged 6 Died 3		to the Honse
In residence 30th September, 1902 24	33	come 1,079 75 Other sources
Places Admitted From.		Total \$ 4,025 16
City of Toronto		Expenditures
County of York	33	Food of all kinds\$ 1,60124Clothing and furnishings26923Fuel, light and cleaning60695Salaries and wages99340
Sex.		Repairs 322 23 Other expenses 113 69
Females		Total
	33	Government and for 1902 \$ 674-31

GOOD SHEPHERD FEMALE REFUGE, TORONTO.

The following summaries show the operations of this Refuge during the year :

Movements of Inmates.		
	89 49	
Total number of Inmates		138
Discharged Died In residence, 30th September, 1902 —	41 1 96	138
Places Received From.		
From the City of Toronto 1 From the County of York and other counties	3	
Immigrants and foreigners	8	138
Sex.		
Female 1	38	138

Receipts.

From the Province of Ontario\$	1,912 7:	3
From the City of Toronto	-300.00	9
From inmates	$25 \ 00$)
Subscriptions and donations	- 300-00	0
From other sources	4,231 78	ō.
Total\$	6,769 48	8

Expenditures.

Food of all kinds	2,3058921,044520571,950	30 46 00 63
Total\$	6,770	40
Government and for 1902\$	2,252	74

No. 40

AGED MEN'S HOME, TORONTO.

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movement of Inmates.

In residence 1st of October, 1901 . Admitted	20 10	
Total		30
Discharged Died In residence 30th September, 1902.	$\frac{3}{4}$ 23	30
Se.c.		00
Male	30	30
Places Admitted From. City of Toronto County of York and other counties Immigrants, foreigners, etc	27 2 1	

1.0			٠		,		
R	PI	P	1	n	t	S	

From the Government of Ontario554From the City of Toronto150From payments made by inmates1,959Subscriptions, donations, etc596Received from all other sources2	$\begin{array}{c} 00\\75\end{array}$
Total\$ 3 263	84
Expenditures.	

Food of all kinds\$	1,082 39
Clothing and furnishings	297 29
Fuel. light, cleaning, etc	506 37
Salaries and wages	1,023 75
Repairs	175 56
Other expenses	$248 \ 27$
Total	3,333-63
Government aid for 1902 \$	\$ 585 90

HOUSE OF REFUGE, HAMILTON.

30

• Full particulars of the operations of this Institution will be found in the annexed summaries :

Movements of Inmates.

In residence 1st October 1901 102 Admitted	
Total number of inmates	139
Discharged	139
Places Admitted From.	
City of Hamilton	13)
Sex.	
Male	139

Receipts.

From the Government of Ontario	\$2,705	08
From the City of Hamilton	7,365	59
From the inmates	223	00
Subscriptions, donations of pri-		
vate individuals	100	00
From all other sources	13	00
-		
Total	10.405	67

Expenditures.

Food of all kinds\$	3,510 44
Clothing, furnishings, etc	546 95
Fuel, gas, etc	1,906 77
Salaries and wages	2,019 00
Ordinary Repairs	633 87
Other expense, taxes, etc	725 8)
_	
Total \$	9,342 83
Government aid for 1902 \$	2,457 63

HOME FOR AGED WOMEN, HAMILTON

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movements of Patients.			Income from property belonging		
In residence 1st October, 1901	32		to the Honse	1,120	
Admitted	8		From the inmates		• • •
			Subscriptions, donations of pri-		-
Total number of inmates		40 -	vate individuals	1,409	
Number discharged	1		From all other sources	100	00
Number of deaths	3				
In residence, 30th September, 1902	36 -		Total\$	3,732	99
		40	Expenditures.		
Places Admitted from.					
City of Hamilton	40		Food of all kinds	1,528	11
			Clothing, furnishings, etc	125	48
		40	Fuel, gas, etc	547	60
Sex.			Salaries and wages	962	16
Female	40		Ordinary repairs		
			Other expenses	-577	-35
		40			
Receipts.			Total \$	3,740	70
A	809	<u>eu</u>			
	293		Government aid for 1902 \$	877	66
From the City of Hamilton	400	99	Objernment and for 1002		

ST. PETER'S HOME, HAMILTON.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.

in folidence, for occoper, for the second se	26 18
Total number of inmates	44
Disonargou	$\frac{16}{5}$
Diogeneration	23
In Testdence, soch Septemori, 1002	
	-44
Places Admitted from.	
Oldy of Hammicon,	21
County of Wentworth and other	23
counties	23
Immigrants, foreigners, etc	
	44
Ses.	
Diffico	28
Female	16

Receipts.

Fiom the Ontario Government	\$	831	39
From the City of Hamilton		528	31
From the County of Wentworth.		300	00
From the inmates		542 9	95
From subscriptions, donations, etc.			
From other sources		100	00
Total	\$2,	302^{-1}	65

Expenditures.

Food of all kinds Clothing, furnishings, etc Fuel, light and cleaning Salaries and wages Ordinary repairs. Live stock and farm grounds Other expenses	$\begin{array}{cccc} 742 & 77 \\ 12 & 90 \\ 105 & 80 \\ 394 & 00 \\ 251 & 69 \\ 306 & 34 \\ 569 & 14 \end{array}$
Total	\$2,382 64
Government aid for 1902	\$ 633 50

44

No. 40

1902

HOUSE OF INDUSTRY, KINGSTON

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movements of Patients.		Receipts.		
In residence, 1st October, 1901	102	From the Province of Ontario From the City of Kingston County of Frontenac Payments from inmates Subscriptions and donations	1,550 75 103 293	00 00 00 00
Died 2 In residence, 30th September, 1902 46 ————————————————————————————————————		Other sources Total <i>Expenditures</i> .	280 \$3,323	
City of Kingston		Food of all kinds Clothing, furniture and furnish-	1,348	73
Other counties of Ontario 15		ings	109	91
Immigrants, foreigners, etc 4		Fuel and light.	442	
	100	Salaries and wages	540	
Se.c.	102	Repairs, ordinary	90 145	76
Male		Other expenses	149	91
Female		Total	\$2,677	94
	102	Government aid for 1902	\$1,103	34

HOUSE OF PROVIDENCE, KINGSTON.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates

In residence, 1901	171	
Admitted	90	
Total number of inmates		261
Discharged		
Died.	24	
In residence, 30th September, 1902	162	

261

Places Admitted from.

City of Kingston	
County of Frontenac	 . 51
Other counties	 . 125
lmmigrants, foreigners,	

Se.r.

Male. : .																127
Female.	-	•	•	•	•	•	•	•								134

261

261

Receipts.

From the Province of Ontario From the City of Kingston	
From the County of Frontenac	$100 \ 00$
From other municipalities	$255 \ 00$
Income from property	336 00
Payment from inmates	2.092 85
Subscriptions and donations	3,063 58
Sisters' carnings, etc	2,237 20
Other sources	1,721 62

\$15,208 46

Expenditures.

Food of all kinds	\$6,680 76
Clothing and furnishings, etc	2,318 51
Salaries and wages	
Fuel, light and cleaning	2,332 86
Repairs, ordinary	948 04
Live stock and farm grounds	246 85
Taxes and insurance	1,106 05
Other expenses	1,527 07
	\$15 160 14

69

Government aid for 1902......\$ 4,747 61

HOME FOR FRIENDLESS WOMEN AND INFANTS, KINGSTON.

Full particulars of the operations of the Institution will be found in the annexed summaries :

Movements of lumates.

In residence, 1st October, 1901 . Admitted			From the P From the C
Total number of inmates		59	From the C From inmat
Discharged Died	$\frac{28}{8}$		Subscription Other sourç
In residence 30th September, 1903 –	23	59	Total
Places Admitted From.			
From the City of Kingston From the County of Frontenac Other counties in Ontario Immigrants, foreigners, etc	32 20 7		Food of all Clothing and Fuel, light,
Sea.		59	Salaries and Repairs
	19		Other expen
Female	40	59	Total .

Receipts.

From the Province of Ontario	\$217 31
From the City of Kingston	175 00
From the County of Frontenac.	50 00
From inmates	720 50
Subscriptions and donations	195-68
Other sources	659 41
·	
Total	\$2,017 90

Expenditure.

Food of all kinds	505 36
Clothing and furnishings.	42 60
Fuel, light, cleaning, etc	161 - 63
Salaries and wages	$452 \ 75$
Repairs	$54 \ 61$
Other expenses	279 85
Total	\$1.496.80

Note-Receipts for year being greater than expenditure, not entitled to government grant.-63 Vic. Cap. 59.

ROMAN CATHOLIC HOUSE OF REFUGE, LONDON.

Full particulars of the operations of this Institution will be found in the annexed summaries.

Movements of Inmates

In residence, 1st Cctober, 1901 88 Admitted 64	
Total number of inmates	152
Discharged 32 Died 14 Inresidence, 30th September, 1902 106	152
Places Admitted From.	1.72
City of London	
Other counties in Ontario 95 Immigrants, foreigners, etc	
Sex.	152
Male	152

Receipts.

From the Province of Ontario \$2,903 78	
From the City of London 200 00	
Payments from inmates 2 376 02	
Subscriptions and donations 7,982 50	
Other sources	
T ()	

Expenditure.

Food of all kinds	\$6,054	50°
Clothing, furniture & furnishings.	2,206	19
Fuel, light and cleaning	1,787	69
Salaries and wages	697	76
Repairs, ordinary, medicine, tax-		
es, etc	1,354	85
Live stock and farm grounds	551	06
Other expenses	985	05
Total	13,637	10
Government aid for 1902	\$2,590	42

HOME FOR AGED PEOPLE, LONDON

Full particulars of the operations of this Institution will be found in the annexed summaries :

Morements of Inmates.

In residence 1st October, 1901	$\frac{71}{21}$	
Total number of inmates		92
Discharged Died In residence 30th September, 1902.	$ \begin{array}{c} 13 \\ 6 \\ 73 \end{array} $	
Places Admitted From.		92
City of London County of Middlesex Other counties of Ontario Immigrants, Foreigners, etc	$\begin{array}{c} 81 \\ 6 \\ 4 \\ 1 \end{array}$	92
Sec.		02
Male	$\frac{49}{43}$	

Receipts.

From the Province of Ontario	\$1,834 21
From the City of London	3,239-08
Payments for inmates	-2,210 84
Subscriptions and donations	95 00
Other sources	23 13
-	

Total 7,402 26

Expenditure.

Food of all kinds	3,369 31
Clothing, furniture & furnishings	402 04
Fuel, gas, candles, etc	621 68
Salaries and wages	I,388 75
Repairs, ordinary	244 66
Other expenses and taxes	528 44
Total	\$6,554_8⊀
Government aid for 1902	\$1,906 73

CONVALESCENT HOME, LONDON.

92

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movements of Patients.

In residence 1st of October 1901 2 Admitted	
Total number of Inmates	31
Discharged 28 Died	
In residence, 31st September, 1902 3	31
Places Admitted From.	
City of London	31
Sex.	
Male 12 Female 19	
	31

Receipts.

From the Province of Ontario	108 85
From the City of London	100 00
Payments from inmates	75 50
Subscriptions and donations	221 70
Other sources	10 81

Total \$516 86

Expenditu e.

Food of all kinds	197	16
Fnel, gas, etc	$\frac{94}{216}$	00
Repairs, ordinary Other expenses	$\frac{14}{24}$	
Total	\$ 546	06
Government aid for 1902	\$ 122	78

HOME FOR INCURABLES, LONDON.

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movements of Inmates		Receipts.
In residence 1st October, 1901 21 Admitted 17 Total number of inmates 9 Discharged 9 Died 6 In residence 30th September, 1902. 23	38	From the Province of Ontario\$ 633 22From the City of London1,153 85From the County of Middlesex1,019 75Payments from inmates1,019 75Subscriptions, donations and income125 28Other sources7 50
·	38	\$2,939 58
Places Admitted From. City of London	38	Expenditures.Food of all kinds.\$1,30076Clothing and furnishings.43717Fuel, light and cleaning.39580Salaries and wages.1,11175Repairs.6050Other expenses.43005
Male 15 Female 23		Total
	38	Government aid for 1902 \$ 517 09

ST. PATRICK'S REFUGE, OTTAWA.

Full particulars of the operations of this Institution are shown in the annexed summaries:

Movements of Inmates.

In residence 1st October, 1901 91	
Admitted 40	
Total number of inmates	131
Discharged 23	
Died 11	
In residence, 30th September, 1902. 97	
	131
Ses.	
16.1	
Male	
Female	
	131
Places Admitted From.	
014	
City of Ottawa	
County of Carleton 22	
Immigrants 8	
Other counties in Ontario 11	4.01
	131

Receipts.

From the Government of Ontario	2,689 200	
From the City of Ottawa From the County of Carleton	75	00
From other municipalities From payments made by inmates		
Subscriptions, donations, etc Other sources	4,288	
Total		6 9

Expenditures.

Foods of all kinds	\$5,555	21
Clothing and furnishings	861	37
Fuel, light, cleaning, etc	332	49
Salaries and wages	1,150	47
Repairs, ordinary	284	06
Live stock and farm grounds	742	07
Other expenses	650	95
Taxes, printing and insurance	225	64
Total	\$9,802	26
Government aid for 1902	\$2,488	22

ST. CHARLES' HOSPICE, OTTAWA.

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movements of Inmates.

In residence, 1st October, 1901 Admitted		
Total number of inmates		223
Discharged Died In residence, 30th September, 1902	24	223

Sex.

Male													84	
Female.													139	
														223

Places Admitted From.

City of Ottawa	. 122
County of Carleton	. 49
Other counties	. 44
Immigrants, foreigners, etc	
	223

2.3			1
I_{1}	ece	111	S.

53 37	7
50 00	0
92-9:	2
25 - 30	0
$02 \ 20$	0
	-
82 63	3
98^{-2}	5
20 + 07	7
66 2	9
89 07	1
52 8	~
	53 3 50 00 92 9: 25 30 25 8 8 98 2: 20 07 666 22 98 2: 20 07 666 24 71 9: 48 4: 89 07 57 66

Government aid for 1902..... \$3,623 83

HOME FOR THE AGED OTTAWA.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.

In residence, 1st October, 1901	$\frac{32}{27}$	
Total number of inmates		59
Discharged Died In residence, 30th September, 1902	$\frac{21}{4}$	
		59
Sex.		
Male Female		
Places Admitted From.		
City of Ottawa	34	
County of Carleton.	25	
Other counties		
Immigrants, foreigners, etc		59

Receipts.

From the Government of Ontario	\$1,009	33
From the County of Carleton	300	00
From other municipalities	75	00
From payments made by inmates	106	00
Subscriptions, donations, etc	527	13
Other sources	706	43
f11 / 1	60 800	00

Totał \$2,723-89

Expenditures.

Food of all kinds	\$1,087	31
Clothing and furnishings		
Fuel, light, cleaning, etc	482	38
Salaries and wages	1,061	00
Repairs, ordinary, farm, printing	120	74
Other expenses	185	65
-		_
Total	\$2,937	08
Government aid for 1902	\$940	38

REFUGE BRANCH, ORPHANS' HOME. OTTAWA.

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movement of Patients.	Places Admitted From.
In residence, 1st October, 1901 20 Admitted	City of Ottawa
Discharged 7 Died 3 In residence, 1st September, 1902 18 28	Ser. Female

The receipts and expenditure of this charity are shown in the report upon Orphans' Home, Ottawa.

THE HOME FOR FRIENDLESS WOMEN, OTTAWA.

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movements of Inmates.

Number under treatment, 1st Octo- ber, 1901 Admitted.	39 62	
Total number of inmates		101
Discharged. Died In residence 30th Sept., 1902	58 1 42	101
Places admitted from.		
Citeria & Otto ma	69	

Ulty of Ottawa	. O.
County of Carlton	. 38
Other Counties in Ontario	
Immigrants, etc	
	101

Sec.

Male Female .	•	•••	•	•		,	•	•	•	•	•	•			$\frac{17}{84}$	
	Ť		ľ													101

Receipts.		
From the Province of Ontario8	836	93
From the City of Ottawa From County of Carlton	50	00
Payment from inmates Subscriptions and donations	180	
Income from laundry From all other sources	$4,488 \\ 87$	
_	5,642	76
Expenditures.		
Food of all kinds	1,388	53
Fuel, light and cleaning appli-	54	55
ances	850	02
Salaries and wages	1,886	
Repairs, ordinary	88	
Other expenses!	1,263	- 66
	5,532	32
Government aid for 1902\$	774	81

74

THE REFUGE OF OUR LADY OF CHARITY, OTTAWA.

The following summaries show the operations of this Refuge during the year.

Movement of Inmates.

In residence 1st October, 1901		
Admitted	185	
Total number of inmates		339
Discharged.		
Died		
In residence, 30th September, 1902	209	
-		339
Sec		

F	emale	۰.	• •								•	•			339	
																330

Places Admitted From.

City of Ottawa	
County of Carleton	- 33
Other counties in Ontario	57
1mmigrants, foreigners, etc	2
	339

Rece	Dts.	

From the Government of Ontario	\$3,518	43
From the City of Ottawa		
County of Carleton	50	
From payments made by inniates	875	
Subscriptions, donations, etc	1,875	
	6,430	
Other sources	0,400	10
Tetal	19 749	170
Total,	1.0,140	10
Expenditure.		
*		
Food of all kinds	5,265	73
Clothing and furnishings	1,020	06
Fuel, light, cleaning. etc	1.796	00
Salaries and wages	695	00
Repairs, ordinary	493	
Live stock and farm grounds	1,032	
Other expenses	835	49
Teres and incurrences		12
Taxes and insurances	001	12
1 /D - 1	011 700	
Total	\$11,798	99
Government aid for 1902	\$ 3.616	58

HOME FOR INCURABLES, OTTAWA.

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movements of Inmates.

	19 8	
Fotal Discharged Died	··· 2 6	27
	19	07
Sea .		27
Male	11 16	
Places Admitted From.		27
City of Ottawa	27	

Receipts.

From the Government of Ontario	\$401 94
From the City of Ottawa	500 00
From payments made by inmates	431 00
Subscriptions, donations, etc	1,570 75
Other sources	495 68
-	

Total \$3,399-37

Expenditures.

Food of all kinds \$1,1	125	36
Clothing, Furniture & furnishings	71	77
	173	$7\tilde{0}$
Salaries and wages	958	70
Repairs, ordinary	26	38
Other expenses, including taxes		
and insurance (567	02
Total\$3,	822	98
Government aid for 1902 \$	504	77

 27^{-}

HOUSE OF PROVIDENCE, GUELPH.

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movements of Inmates.

In residence, 1st October, 1901 61 Admitted 50	Province of Ontario	$1,617 \\ 749$	
Total number of inmates III	County of Wellington and other municipalities	200	00
Discharged		1,412	
Died 4 In residence, 30th September, 1902 66	Income from property Subscriptions, donations, and be-	400	
— = Total 111	quests	58 	
Places Admitted From.	Total\$	4 438	13
	Familytown		
From the City of Guelph 28	Expenditures.		
From the City of Guelph	Food of all kinds 8		
	Food of all kinds \$ Clothing and furnishings	898	35
From the County of Wellington 35 Other Counties of Ontario 48 Foreigners, etc	Food of all kinds \$ Clothing and furnishings Fuel, light and cleaning	898 710	$\frac{35}{59}$
From the County of Wellington 35 Other Counties of Ontario 48	Food of all kinds Clothing and furnishings Fuel, light and cleaning Salaries and Wages	898 710	35 59
From the County of Wellington 35 Other Counties of Ontario 48 Foreigners, etc 111	Food of all kinds Clothing and furnishings. Fuel, light and cleaning. Salaries and Wages. Ordinary repairs.	898 710	35 59
From the County of Wellington 35 Other Counties of Ontario 48 Foreigners, etc	Food of all kinds Clothing and furnishings Fuel, light and cleaning. Salaries and Wages Ordinary repairs. Other expenses	898 710 630	35 59 23
From the County of Wellington 35 Other Counties of Ontario 48 Foreigners, etc	Food of all kinds	898 710 630	35 59 23
From the County of Wellington 35 Other Counties of Ontario 48 Foreigners, etc	Food of all kinds	898 710 630	35 59 23
From the County of Wellington 35 Other Counties of Ontario 48 Foreigners, etc	Food of all kinds	898 710 630	35 59 23 35

THE THOMAS WILLIAMS' HOME, ST. THOMAS.

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movements of Inmates.

In residence, 1st October, 190118Admitted.5	
Total number of inmates	23
Discharged	23

Places Admitted From.

City of St.	Tho	mas		 $. \frac{23}{23}$
			Sex.	
Male Female				

									٠	4	+			10	
e														17	
														 _	-23

Receipts.

Receipts.

From the Province of Ontario	\$ 535	43
From the City of St. Thomas	67	86
From payments by inmates	44	00
From other sources, subscriptions		
etc	1,212	40
Income from property	255	66
/TI - + - 1	80 115	05

Total \$2,115 35

Expenditures.

Food of all kinds	\$	794	41
Clothing and furnishings		179	19
Fuel, light, cleaning. etc		255	40
Salaries and wages		546	60
Repairs, ordinary		158	32
Other expenses.		103	99
-			
Total	82	,037	91
Government aid for 1902	4	8471	10

HOUSE OF PROVIDENCE, DUNDAS.

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movements of Inmates.

In residence, 1st October, 1901 70 Admitted 117	
Total number of inmates	187
Discharged	
In residence, 30th September, 1902 116	187

Places Admitted From.

City of Hamilton	79
County of Wentworth	36
Other Counties in Ontario	72
Immigrants, foreigners, etc	

Sex.

Male	 	 	72	
Female	 	 	115	
				187

- 15.	01	ρ	21	n	ts.

From the Province of Ontario	\$1,890 84
From the County of Wentworth.	400 00
From other municipalities	889 90
From inmates	1.092 77
Income from property	350 00
Subscriptions and donations of	
private individuals	2,112 00
Other sources	1,110 00
-	
Total	\$7.845 51

Expenditures.

Food of all kinds	\$3,369	80
Clothing, furniture, furnishings.	1,492	30
Fuel, light and cleaning	840	
Salaries	328	21
Repairs, ordinary	84	
Other expenditures	1.113	86
Live stock and farm grounds	617	25
Total	\$7,846	05
Government aid for 1902	\$2,536	94

THE HOME FOR THE FRIENDLESS, CHATHAM.

Full particulars of the operations of this Institution will be found in the annexed summaries :

30

Morements of Inmates.

In residence, 1st October, 190110Admitted20	
Total number of inmates	30
Discharged. 20 Died In residence, 30th September, 1902 10	30
Places Admitted From.	
Town of Chatham	

I C WILL CI COMMUNICATION CONTRACTOR CONTRA TOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRAC	*
County of Kent	1
Other counties 1	2
Immigrants, foreigners, etc	3
	- 30

Sex.

Males Female	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	$\frac{22}{8}$

Receipts.

From the Province of Ontario	\$ 309	54
From the City of Chatham	2,000	00
From inmates themselves		
From other sources, income and		
subscriptions	97	97
· · ·		
Total	\$2,414	51

Expenditures.

Food of all kinds	\$ 449 92
Clothing and furnishings	27 23
Fuel, light, cleaning, etc	538 83
Salaries and wages	368 28
Other expenses	662 34
Repairs, ordinary	13 35
-	
Total	\$2,059 95
Government aid for 1902	\$301 63

THE WIDOWS' HOME, BRANTFORD.

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movements of Inmates.		Receipts.		
In residence 1st October, 1901 12 Admitted 4 Total number of inmates	16	From the Province of Ontario From inmates Subscriptions and donations From other sources and income.	316 230 360 66	01
Discharged		Total	\$972	74
Died	16	Expenditure.		
Places Admitted From.		Food of all kinds	319	13
City of Brantford	16	Clothing and furnishings Fuel, light, cleaning, etc Salaries and wages Repairs, ordinary, etc	$112 \\ 149 \\ 205 \\ 52$	06 89 50 63
Sex.		Other expenses		63
		Total	\$ 930	84
Female	16	Government aid for 1902	\$307	79

THE HOME FOR THE FRIENDLESS, BELLEVILLE.

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movements of Inmates.

In residence 1st October, 1901 10 Admitted 11	
Total number of inmates	$\overline{21}$
Discharged 9 Died 2 In residence 30th September, 1902 10	21
Places Admitted From. From the City of Belleville 20 From the County of Prince Edward From other counties, and foreigners 1 Sex.	

Male Female.		•	•	•						•			•	•	•	•	$\frac{9}{12}$	
																		21

Receipts.

From the Province of Ontario	\$2 27 64
From the City of Belleville	300 00
From inmates	$52 \ 00$
Subscriptions and donations	
	0570 61
Total	\$579 64

Expenditure.

Food of all kinds Clothing and furnishings Fuel, light and cleaning Salaries and wages Other expenses	\$208 47 8 36 120 43 84 00 13 28 3 34
Repairs, ordinary Total Government aid for 1902	\$437 88 \$264 88

THE PROTESTANT HOME, PETERBOROUGH.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates.

In residence, 1st October, 1901 17 Admitted 12	
Total number of inmates	29
Discharged	29
Places Admitted From.	
From the Town of Peterborough 19 From the County of Peterborough	
and other counties, 10	29
Sex.	
Male	29

Receipts.

From the Province of Ontario	\$ 375 85
From the Town of Peterborough	
From inmates	
Other sources	1,008 37

Total \$1,775 72

Expenditure.

6		
Food of all kinds	\$696	96
Clothing and furnishings	82	36
Fuel, light and cleaning	196	35
Repairs, ordinary	4	40
Salaries and wages	254	20
Other expenses	148	92
Out door relief	82	81
Total	\$1,466	00

Government aid for 1902 \$ 453 04

HOUSE OF PROVIDENCE, PETERBOROUGH.

Full, particulars of the operations of this Institution will be found in the annexed summaries :

Movements of Inmates.

In residence 1st October, 1901 Admitted	$\frac{37}{66}$	ę
Total number of inmates		103
Discharged Died In residence 30th September, 1902 Places Admitted From.	43 5 55	103
From the Town of Peterborough From the County of Peterborough From other counties Immigrants, foreigner, etc Se.r.	37 57 9	 103
Male	53 50	103

Receipts.

From the Province of Ontario	1,006	76
From municipalities for board of	76	
inmates		
From inmates	697	
Subscriptions and donations	361	
Other sources	1,447	56
Total	\$3 590	19

Expenditure.

Food of all kinds	
Clothing and furnishings	$632 \ 32$
Fuel, light and cleaning	416 83
Repairs, ordinary	100-60
Other expenses	198 05
Total	\$3,605 46
Government aid for 1902	\$ 976 05

HOME FOR THE FRIENDLESS, WINDSOR.

Full particulars of the operations of the Institution will be found in the annexed summaries:

Movements of Lumutes.		Receipts.	
In residence 1st October, 1901 15 Admitted 10 Total number of inmates	25	From the Province of Ontario\$ From the City of Windsor From inmates Subscriptions and donations Other sources	$\begin{array}{r} 414 & 75 \\ 2,100 & 00 \\ 102 & 50 \\ 76 & 96 \\ 153 & 10 \end{array}$
Discharged	25	Total <i>Expenditures</i> .	
Places Admitted from.	25	Food of all kinds Clothing and furnishings Fuel, light and cleaning Repairs, ordinary Salaries and wages Other expenses Outdoor relief	$\begin{array}{cccc} 613 & 22 \\ 40 & 56 \\ 120 & 01 \\ 44 & 38 \\ 42 \pm & 00 \\ 56 & 03 \\ 1, 430 & 78 \end{array}$
Male 11 Female 14	25	Total Government aid for 1902 \$	2,723-98 365-05

HOME OF THE AGED AND INFIRM, COBOURG.

Full particulars of the operations of this Institution will be found in the annexed summaries:

Movements of Inmates. In residence 1st October, 1901 8 Admitted	From the From the land Payment Subscrip Other so Tota
Places Admitted From. Town of Cobourg	Food of a Clothing, ings Fuel, gas Salaries Repairs, Other ex Total.
From the Province of Ontario \$204 40	Governm

From the Town of Cobourg	25	00
From the County of Northumber- land	75	00
Payments from inmates	387	00
Subscriptions and donations Other sources	472	
other sources		
Total	1,164	39

Expenditures.

Food of all kinds Clothing, furniture and furnish-	517	88
ings	25	
Fuel, gas, etc	129	
Salaries and wages	153	
Repairs, ordinary	51	94
Other expenses	39	88
Total	\$917	43
Government aid for 1902	\$205	17

1902

HOME FOR THE AGED, LINDSAY.

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movements of Inmates

In residence 1st October, 1901 17 Admitted		From the Province of Ontario From the Town of Lindsay	\$455 326	45
		Payment from inmates	163	
Total number of inmates	24	Subscriptions, donations, etc		00
		From the County of Victoria	200	
Discharged 3		From other municipalities	446	
Died 1		From all other sources	3	50
In residence 30th September, 1902. 20	24	Total	\$1,602	07
		Expenditures,		
Places Admitted From.		<u>^</u>		_
		Foods of all kinds	\$689	
Town of Lindsay 10		Clothing and furnishings	78	
County of Victoria 14		Salaries and wages	358	
	24	Fuel, light and cleaning Repairs, ordinary, and printing,	165	11
Sex.		etc	37	45
		Other expenses	233	98
Male				
Female		Total	\$1,563	08
	24	Government aid for 1902	\$485	52

St. PAUL'S HOME FOR THE AGED, CORNWALL.

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movements of Inmates.

In residence, 1st October, 1901 44 Admitted 32	
Total number of inmates	76
Discharged	76
Places Admitted From.	
Town of Cornwall. 16 County of Stormont. 24 Other Counties. 36	76
Sex.	
Male 43 Female 33	76
6 н.	

Receipts.

Receipts.

From the Province of Ontario\$	1.041 3	39
From the Town of Cornwall		
From other Municipalities	170 ()()
From inmates themselves	97 (00
From other sources, income and		
subscriptions	1,120 1	10
From all other sources	42 ()0
	0.880	_

Total...... \$ 2,770 49

Expenditures.

Food of all kinds\$	1,762 52
Clothing and furnishings	262 20
Fuel, light, cleaning, etc	340 84
Salaries and wages	48 00
Repairs, ordinary, and medicine.	137 00
Other expenses	190 00
-	
Total\$	2,740 56
Government aid for 1902\$	1,254 54

HOME FOR THE AGED AND INFIRM, BOWMANVILLE.

Full particulars of the operations of this Institution will be found in the annexed summaries :

Movements of Inmates.

In residence, 1st October, 19017 Admitted12 Total	19	From the Province of Ontario\$ From the Town of Bowmanville From the Counties of Northum- berland and Durham Payments from inmates		
Discharged		Subscriptions and donations From all other sources	-	61 37
In residence, 30th September, 1902 6	19	Total	697	70
Places Admitted From. Town of Bowmanville	19	Food of all kinds	$245 \\ 33 \\ 95 \\ 138 \\ 34 \\ 88$	99 28 00 68
Male 10 Female 9	19	Total	636 197	

ORPHAN ASYLUMS.

The statistical tables on the following pages of this report show a considerable increase in the contributions to several of the institutions, while in some cases there is a slight falling off as compared with the past year.

The total number of children cared for in the Orphanages during the year was 4,092 as compared with 3,952 in 1901.

In the tables will be found full details.

The statistics relating to the sex and previous residence of the inmates are given in the following summary ·

Ser.	Previous Residence.
Male	Received from cities in which Orphanages are located 3,056Received from counties in which Orphanages are located 363Received from other counties in the Province
,	4,092

Receipts.

TABLE No. 1.

SCHEDULE C.-Orphanages.

Name of Orphanage.	Location.	Collective days' stay upou which computation of Orphanage rates is based.	Collective days' stay upon which computation of Refuge rates is based.	Amount received from all Fources.other than Gov- ernment.	Computation at 2 cents per day.	Computation at 7 cents per day, being Refuge rates for adults.	Total Government grant for the year 1902.
Remark Catholia Ourbon Arr				8 c.		\$ c.	\$ c.
Remon Catholic Orphau Asy- lum. Protestant Orphans' Home. Girls' Home. Boys' Home. The Working Boys' Home. Infants' Home. St. Nicholas' Home. Rescue Home for Women. Childrens' Shelter. Industrial Refuge St. Mary's Orphan Asylum. Protestant Orphan Asylum. Boys' Home. Home for the Friendless. Salvation Army Rescue Home Orphans' Home. Honse of Providence. Hotel Dieu Orphanage. Orphans' Home. St. Patrick's Orphan Asylum. St. Joseph's Orphan Asylum. St. Joseph's Orphan Asylum. Rescue Home and Children's Shelter. Totant's Home. Roman Catholic Orphans' Home.	Toronto	5,931 10,813 25,862 1,095 23,244 9,480 9,166	9,552	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 1,136 \ 82\\ 616 \ 52\\ 571 \ 18\\ 324 \ 60\\ 415 \ 40\\ 466 \ 22\\ 197 \ 90\\ 118 \ 62\\ 216 \ 26\\ 517 \ 24\\ 219 \ 60\\ 464 \ 88\\ 189 \ 60\\ \dagger \ \dots \ 67\\ 103 \ 40\\ 75 \ 00\\ 854 \ 56\\ 468 \ 48\\ 1,240 \ 98\end{array}$	668 64	$\begin{array}{c} 2,116 \\ 38 \\ 1,136 \\ 82 \\ 616 \\ 52 \\ 571 \\ 18 \\ 324 \\ 60 \\ 1,084 \\ 04 \\ 466 \\ 22 \\ 108 \\ 216 \\ 26 \\ 216 \\ 26 \\ 21$
Women's Refuge and Infants' Home	44	6,303	1,505	677 44	126 06	105 35	231 41
Rescue Home for Women Protestant Home, Orphanage Branch St. Agatha Orphan Asylum Orphans' Home Berlin Orphanage Totals for 1902	St. Catharin's St. Agatha . Fort William Berlin	6,191 10,210 19,140 14,099 3,672		1,845 35 2,459 60 1,994 99 1,104 00 211 94	$ \begin{array}{r} 123 82 \\ 382 80 \\ 281 98 \\ 73 44 \\ \overline{12,615 06} \end{array} $		467 87 382 80 281 98 73 44
Totals for 1902		666,369 675,628		94,094 72, 110,314 27		1,118 09 1,354 78	13,733 10 15,067 34

* * Included with Refuge Branch.

* Receipts for the year being greater than expenditure, not entitled to Government grant -- Vic. 63, chap. 59.

TABLE No. 2.

Schedule C.—Orphanages.

\ddot{z} z								
Protestant Orphans' Home """ 156 70 223 77 144 Girls' Home """ 85 71 156 69 3 8 Boys' Home """ 82 53 135 61 1 7 The Working Boys' Home """ 46 143 180 151 33 Infants' Home """ 28 35 63 38 22 62 Children's Shelter "" 28 12 40 7 1 33 31 31 Industrial Refuge "" 28 12 40 7 1 33 52 31 3 11 Industrial Refuge "" 32 66 22 88 29	Name of Orphanage,	Location.		admitted r ending : 1902.	Total number maintained during the year.	Number discharged during the year.	Number of deaths during the year.	Number remaining in resi- dence on 30th September, 1902.
Rescue Home and Children's Shel- ter " 20 134 154 113 7 3.4 Infants' Home. " 20 134 154 113 7 3.4 Infants' Home. " 20 134 154 113 7 3.4 Roman Catholic Orphans' Home " 20 199 228 99 94 33 Protestant Orphans' Home " 41 20 61 24 1 84 Women's Refuge and Infants' " 20 40 60 35 3 22 Branch " 30 111 141 107 2 33 St. Agatha Orphan Asylum St. Catharines. 28 21 49 15 3 Griphans' Home St. Agatha 49 21 70 14 35 21 50 Portestant Home Totals for 1902 Its agatha 14 21 35 21 10 Infants' Home Its agatha 14 21 35 21 10 14	Protestant Orphans' Home Girls' Home Boys' Home The Working Boys' Home Infants' Home St. Nicholas' Home Children's Shelter Industrial Refuge St. Mary.s Orphan Asylum Bops' Home Girls' Home Home for the Friendless Salvation Army Rescne Home. Orphans' Home House of Providence Hocel Dieu Orphanage Orphana' Home.	Hamilton	$\begin{array}{c} 156\\ 85\\ 82\\ 46\\ 51\\ 62\\ 28\\ 19\\ 28\\ 72\\ 3\\ 66\\ 32\\ 8\\ 66\\ 34\\ 8\\ 66\\ 50\\ 41\\ 50\\ 41\\ 50\\ 67\\ \end{array}$	$\begin{array}{c} 70\\ 71\\ 53\\ 143\\ 85\\ 63\\ 35\\ 39\\ 12\\ 74\\ \\ \\ \\ \\ \\ 74\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	$\begin{array}{c} 226\\ 156\\ 135\\ 189\\ 136\\ 125\\ 63\\ 52\\ 40\\ 146\\ 3\\ 88\\ 64\\ 103\\ 116\\ 63\\ 113\\ 107\\ 116\\ 117\\ \end{array}$	$\begin{array}{c} 77\\ 69\\ 61\\ 151\\ 53\\ 62\\ 38\\ 31\\ 7\\ 59\\ 49\\ 41\\ 68\\ 100\\ 23\\ 65\\ 59\\ 65\\ 59\\ 65\\ 48\\ \end{array}$	3 3 32 32 33 1 2 32 31 2 3 1 3 1 2 3 1 1 3 3 1 2 1 1 3 1 1 3 1 1 3 2 1 1 3 2 3 1 1 3 2 3 1 2 1 3 1 2 3 1 3 1	$\begin{array}{c} 284\\ 149\\ 84\\ 73\\ 38\\ 51\\ 63\\ 25\\ 18\\ 32\\ 85\\ 32\\ 23\\ 24\\ 13\\ 40\\ 47\\ 48\\ 49\\ 68\\ 161 \end{array}$
Branch	Rescue Home and Children's Shel- ter Infants' Home Roman Catholic Orphans' Home. Protestant Orphans' Home Women's Refuge and Infants' Home Rescue Home for Women.	London	20 29 83 41 20	134 199 52 20 40	$ \begin{array}{r} 154 \\ 228 \\ 135 \\ 61 \\ 60 \\ \end{array} $	$ \begin{array}{r} 113 \\ 99 \\ 61 \\ 24 \\ 35 \end{array} $	7 94 6 1 3	34 35 68 56 22 32
	Branch St. Agatha Orphan Asylum Orphans' Home	St. Agatha Fort William	49 34 14	$\begin{array}{r} 21\\ 33\\ 21\\ \hline \end{array}$	70 67 35	$\begin{array}{r}14\\12\\21\end{array}$		34 56 55 14
Totals for 1901 1,811 2,141 3,952 1,884 225 1,84	Total + for 1902	••••••	1,832	2,260	4,092	2,069	200	1,823
	Totals for 1901		1,811	2,141	3, 95 2	1,884	225	1,843

TABLE No. 3.

SCHEDULE C.-Orphanages.

Name of Orphanages.	Location.	Aggregate stay of inmates.	Total expenditure on main- tenance account for the year ending 30th Septem- ber, 1902.	Average cost per inmate per day.
			8 c.	cts.
Roman Catholic Orphan Asylum . Protestant Orphans' Home. Girls' Home Boys' Home. The Working Boys' Home Infants' Home. Rescue Home for Women. Children's Shelter Industrial Refuge St. Nary's Orphan Asylum Protestant Orphan Asylum Protestant Orphan Asylum Boys' Home Home for the Friendless Salvation Army Rescue Home Orphans' Home House of Providence Orphanage Hotel Dien Orphanage. Orphans' Home St. Jaseph's Orphan Asylum St. Joseph's Orphan Asylum Recue Home and Children's Shelter Infaints' Home. Rescue Home and Children's Shelter Infaints' Home. Protestant Orphans' Home. Protestant Orphans' Home. Protestant Home, Orphanage Branch. St. Agatha Orphan Asylum. Orphans' Home Brownen's Refinge and Infants' Home. Rescue Home for Women. Protestant Home, Orphanage Branch. St. Agatha Orphan Asylum. Orphans' Home Berlin Orpha	Toronto	$\begin{array}{c} 105,819\\ 56,841\\ 30,826\\ 28,559\\ 16,230\\ 30,322\\ 23,311\\ 9,885\\ 5,931\\ 10,813\\ 25,682\\ 1,095\\ 23,244\\ 9,480\\ 11,311\\ 5,170\\ 16,240\\ 9,480\\ 11,311\\ 5,170\\ 16,240\\ 9,480\\ 11,53\\ 3,750\\ 17,728\\ 23,244\\ 62,049\\ 11,153\\ 11,050\\ 17,728\\ 23,424\\ 62,049\\ 11,153\\ 11,050\\ 10,210\\ 19,140\\ 14,598\\ 11,105\\ 10,210\\ 19,140\\ 14,099\\ 3,672\\ \hline\end{array}$	$\begin{array}{c} 14,271 \ 43\\ 8,400 \ 73\\ 6,305 \ 22\\ 6,634 \ 50\\ 5,425 \ 86\\ 5,352 \ 97\\ 6,77\\ 4,172 \ 67\\ 5,113 \ 49\\ 4,188 \ 19\\ 4,188 \ 19\\ 4,188 \ 19\\ 1,266 \ 22\\ 2 \ 874 \ 15\\ 1,183 \ 00\\ *\\ *\\ 9,030 \ 21\\ 20,062 \ 42\\ 3,174 \ 26\\ 2,501 \ 39\\ 1,266 \ 22\\ 2 \ 874 \ 15\\ 1,183 \ 00\\ *\\ *\\ 9,030 \ 21\\ 20,062 \ 42\\ 3,174 \ 26\\ 2,902 \ 72\\ 1,384 \ 74\\ 2,927 \ 22\\ 3,87 \ 79\\ 1,722 \ 48\\ 2,387 \ 79\\ 2,201 \ 72\\ 647 \ 20\\ \hline 106,741 \ 02\\ \end{array}$	$\begin{array}{c} 13.48\\ 14.77\\ 20.45\\ 23.23\\ x7.87\\ 17.89\\ 22.95\\ 21.47\\ 16.82\\ 38.57\\ 19.77\\ 16.82\\ 38.57\\ 19.77\\ 18.01\\ 22.01\\ 22.11\\ 24.49\\ 17.69\\ 8.60\\ 14.55\\ 18.49\\ 28.72\\ 20.12\\ 17.73\\ 19.68\\ 16.87\\ 12.47\\ 15.61\\ 17.60\\ 15.59\\ 18.29\\ 18.29\\ 18.29\\ 19.20\\ 19.20\\ 19.20\\ 10.$
Totals for 1901	· · · · · · · · · · · · · · · · · · ·	694,982	97,470 30	19 25

* Included with expenditure of Refuge Branch.

SEPARATE REPORTS.

ROMAN CATHOLIC ORPHAN ASYLUM, TORONTO.

The following summaries show the operations of this Orphanage during the year :

Movements of Inmates.	De.c.
In residence, 1st October, 1901 285 Admitted 297	Male
Total number of inmates 582	Places Admitted From.
Discharged 270 Died 28 In residence, 30th September, 1902 284 — 582	City of Toronto 536 County of York 6 Other parts of Ontario 40 582

The receipts of the Institution during the year, including the Government grant of \$2,247.34, were \$14,279.57, and the expenditures were \$14,271.43. Government aid for the year 1902, 2,116.38.

PROTESTANT ORPHANS' HOME, TORONTO.

The following summaries show the operations of this Institution during the past year :

Movements of Inmates.		Sex.	
ln residence, 1st October, 1991 156 Admitted	f	Male	6
Total number of inmates 226		Places Admitted From.	Ű
Discharged		City of Toronto 223 Other parts of Ontario 3	6

The receipts of this Institution during the year, including the Government grant of \$1,291,52, were \$8,286.54, and the expenditures were \$8,400.73. Government aid for the year 1902, \$1,136.82.

GIRLS' HOME, TORONTO.

The following summaries show the operations of this Home during the year:

Movements of Inmates.	In residence, 30th September, 1902 84
In residence, 1st October, 1901 85 Admitted 71	Places Admitted From.
Total number of inmates 156	City of Toronto
Discharged	Aliens

The receipts of this Institution during the year, including the Government grant of \$539.22, amounted to \$6,012.27, and the expenditure \$6,305.22. Government aid for 1902, \$616.52.

BOYS' HOME, TORONTO.

The following summaries show the operations of this Home during the year:

In residence, 30th September, 1902 73 —— 135

Places Admitted From.

City of Toronto						-		122	
Counties of Ontario).							13	
									135

The receipts of the Home during the year, including the Government grant of \$602.74, amounted to \$6,600.73, and the expenditures were \$6,634.56. Government aid for the year 1902, \$571.18.

THE WORKING BOYS' HOME, TORONTO.

The following summaries show the operations of the Home during the year :

Movements of Inmates.	
In residence, 1st October, 1901 4f Admitted 145	
Total number of inmates	189
Discharged	l 3 - 189

The receipts of the Home during the year, including the Government grant of \$310.04, amounted to \$6,368.75, and the expenditures were \$6,066.90. Government aid for the year 1902, \$324.60.

THE INFANTS' HOME AND INFIRMARY, TORONTO.

The following summaries show the operations of this Home during the past year:

Movements of Inmates.	Sex.
In residence, 1st October, 1901 51 Admitted 85	Male
Total number of inmates 136	* Places Admitted From.
Discharged 53 Died 32 In residence, 30th September, 1902 51	City of Toronto

The receipts of the Home during the year, including the Government grant of \$1,405,66, were \$5,336.58, and the expenditures were \$5,423.86. Government aid for the year 1902, \$1,084.04.

ST. NICHOLAS' HOME, TORONTO.

The following summaries show the operations of the Home during the official year:

Movements of Inmates.	Sex.
In residence, 1st October, 1901 62 Admitted	Male
Total number	
Discharged 62	Places Amitted from.
Died	City of Toronto 125
—— 125	—— 125

The revenue the of Home during the year, including the Government grant of \$453.20, was \$5,348.15, and the expenditure was \$5,352.95. Government aid for 1902, \$466.22.

THE RESCUE HOME FOR WOMEN, TORONTO.

The following summaries show the operations of this Home during the year :

Movements of Inmates.	Sex.
In residence, 1st October, 1901 28 Admitted 35	Female
Total number of inmates 63	Places Admitted from.
Discharged 38 Died 35 In residence, 30th September, 1902 25 63	City of Toronto

The revenue of the Home during the year, including the Government grant, amounted to \$2,291.71, and the expenditure to \$2,124.96. Government aid for 1902, \$197.90.

SALVATION ARMY, CHILDREN'S SHELTER, TORONTO.

The following summaries show the operations of this House during the year :

Movements of Inmates.		Sev.	
In residence, 1st October, 1901 . 13 Admitted 39		Male 20 Female 32	52
Total number of inmates	52	Places Admitted from.	
Discharged	52	City of Toronto	52

The revenue of the Shelter during the year, including Government grant, amounted to \$1,137.43, and the expenditure to \$997.67. Government aid for 1902, \$118.62.

INDUSTRIAL REFUGE, TORONTO.

The following summaries show the operations of this Intitution during the year :

Movements of Inmates.	Died In residence, 30th September, 1902	$\frac{1}{32}$	*0
In residence, 1st October, 1901 28 Admitted 12	Places Admitted from. City of Toronto	35	40
Total number of inmates 4	10 From counties in the Province Foreigners	3	
Discharged 7	-		40

The revenue of the Asylum, including the Government great of \$212.06, amounted to \$3,890.54, and the expenditure to \$4,172.67. Government aid for 1902, \$216,26.

ST. MARY'S ORPHAN ASYLUM, HAMILTON.

The following summaries show the operations of this asylum during the year :

Movements of Inmates.	Sex.
In residence 1st October, 1901 72	Male 59
Admitted 74	Female
Total number of mmates 146	Places Admitted from.
Discharged 59	City of Hamilton 122
Died	County of Wentworth 3
In residence, 30th September, 1902 85	Other counties and countries 21
— 146	<u> </u>
Total number of inmatos 146 Discharged	Places Admitted from. City of Hamilton

Including the Government grant of \$458.86, the revenue of the Asylum during the year amounted to \$5,105.27, and the expenditure to \$5,113.49.

Government aid for 1902, \$517.24.

PROTESTANT ORPHAN ASYLUM, HAMILTON.

The following summaries show the operations of this Asylum during the year :

Movements of Inmates.	Sex.
In residence, 1st October, 1901 3 Admitted	Male
Total number of inmates 5 Discharged Deaths	B Places Admitted from
In residence, 30th September, 1902 3	City of Hamilton 3 3

The receipts and expenditures are included in the financial statements of the Aged Women's Home, vide Schedule "B" Refuge Report. Government aid for 1902, \$21.90.

89

No. 40

BOYS' HOME, HAMILTON.

The following summaries show the operations of this Home during the year:

Movements of Immates. In residence, 1st October, 1901 66		Dicd. In residence, 30th September, 1902	 59	88
Admitted		Places Admitted from.		
Total number of inmates	88	Hamilton City County of Wentworth	88	
Discharged				88

The receipts of the Home during the year, including Government grant, were \$4,383.05, and the expenditures were \$4,188.18.

Government aid for 1902, \$464.88.

GIRL'S HOME, HAMILTON.

The following summaries show the operations of this Home during the year:

Movements of Inmates. In residence, 1st October, 1901 32 Admitted 32		Number of deaths In residence, 30th September, 1902		64
Total number of inmates Discharged	64	Ptaces Received from. City of Hamilton	64	64

The revenue of the Home during the year, including Government grant, was \$2,192.35, and the expenditure was \$2,142.63. Government aid for 1902, \$189.60.

HOME FOR THE FRIENDLESS AND INFANTS' HOME, HAMILTON.

The following summaries show the operations of this Home during the year :

Movements of Inmates.	Sex.
In residence, 1st October, 1901 34 Admitted 69	Male (infants) 44 Female 59
Total number of inmates 103	B Places Received from. 103
Discharged	City of Hamilton
In residence, 30th September, 1902 24 — 103	Other places and counties

The revenue of the Home, including Government grant, was 33,125.62, and the expenditures 25,501.39.

Note.—Receipts for year being greater than expenditures, not entitled to Government grant.—Vic. 63, Chap 59.

SALVATION ARMY REFUGE HOME, HAMILTON.

The following summaries show the operations of this Asylum during the year :

Morements of Inmates.	Sex.
In residence, 1st October 1901 8 Admitted 108	Male
Total number of inmates 116	Places Admitted from.
Discharged 100	City of Hamilton
Died	County of Wentworth
In residence, 30th September, 1902 13	Other counties and countries 78
116	116

The revenue of the Home during the year amounted to \$1,235,50, and the expenditure to \$1,266.22. Government aid for 1902, \$103.40.

ORPHAN'S HOME, KINGSTON.

The following summaries show the operations at this Institution during the year :

Movements of Inmates,		Sex.	
In residence, 1st October, 1901 41 Admitted 17		Male	
Total	63	Places Admitted from.	
Discharged	63	City of Kingston. 37 County of Frontenac. 20 Other counties and countries. 6	

The revenue of the Home during the year including the Government grant was \$3,460.71, and the expenditure was \$2,874.15.

Note.—Receipts for the year being greater than expenditure, not entitled to Government grant.—Vic. 63, chap. 59.

ORPHANAGE OF THE HOUSE OF PROVIDENCE, KINGSTON.

The following summaries show the operations of this Orphanage during the year:

Movements of Inmates.	Se.v.	
In residence, 1st October, 1901 50 Admitted 63	Male	
Total 113	Places Admitted from.	
Discharged	City of Kingston	

The receipts and expenditure of the Orphanage are included with those of the House of Providence, and cannot be shown separately. Government aid for 1902, \$457.90.

HOTEL DIEU ORPHAN ASYLUM, KINGSTON.

The following summaries show the operations of this Asylum during the year :

The Occurrent of a manufacture			
In residence, 1st October, 1901 Admitted		Male 5 Female 102	
Total	107		
Discharged Deaths In residence, 30th September, 1902 		City of Kingston 85 County of Frontenac 9 Other counties and countries 13 107	

The income of the Asylum during the year, including the Government grant, amounted to \$1,178.54, and the expenditure to \$1,183 00.

Government aid for 1902, \$275.00.

Movements of Inmutes

ORPHAN'S HOME, OTTAWA.

The following summaries show the operations of this House during the year.

Movements of Inmates.	<i>k</i> [™] , <i>C</i> , <i>I</i> [*] ,	
In residence in October, 1901 53 Admitted 63 Total number of inmates 116	Male	
Discharged	City of Ottawa	

The revenue of the Home, including Government grant, was \$5,372.60, and the expenditures were, Refuge Branch included, \$4,209.34.

Government aid for 1902, \$354.56.

ST. PATRICK'S ORPHAN ASYLUM, OTTAWA.

The following summaries show the operations of this Asylum during the year:

Movements of Patients.

In residence 1st October, 1901 67 Admitted	Male
Discharged	City of Ottawa

The receipts and expenditures of this Institution are included in the financial statement of the Refuge Department vide Schedule B Refuge Report. Government aid for 1902, \$468.48.

92

Sex

Ser.

ST. JOSEPH'S ORPHAN ASYLUM, OTTAWA.

The following summaries show the operations of this Charity during the year:

Movements of Inmates,	Sev.
In residence, 1st October, 1901 176 Admitted	Male
Total number of inmates 352	Places Admitted from.
Discharged 190 Died 1 In residence, 30th September, 1902 161	City of Ottawa

The receipts of the Institution including Government grant were \$9,003.69, and the expenditures 9,030.21. Government aid for 1902, \$1,240.98.

THE RESCUE HOME AND CHILDREN'S SHELTER, OTTAWA.

The following summaries show the operations of this Home during the year:

biocements of inmines.		
In residence, 1st October, 1901 Admitted during the year		Małe Female
Total number of inmates	154	Places A
Discharged Died In residence, 30th September, 1902	7	City of Ottawa County of Carleton Other counties and

The revenue of the Home including Government grant was \$1,957.21 and the expenditures were \$2,062.42. Government aid for 1902, \$223.06.

INFANT'S HOME, OTTAWA.

The following summaries show the operations of this Home during the official year:

Movement of Inmates.

Maxaments of Inmutas

In residence, 1st October, 1901 Admitted	29 199	
Total number of inmates		228
Discharged Died In residence, 30th September, 1902	99 94 35	228

The revenue of the Home during the year, including the Government grant of \$215.64 was \$3,136.88, and the expenditure was \$3,174.26. Government aid for 1902, \$221.00.

De.r.	
Male	154
City of Ottawa. 117 County of Carleton 13 Other counties and countries 24	154

Sev.

ROMAN CATHOLIC ORPHANS' HOME, LONDON.

The following summaries show the operations of this Orphanage during the year

Movements of Inmates.	Sex.
In residence, 1st October, 1901 83 Admitted 52	Male
Total number of inmates 135	Places Admitted From.
Discharged	City of London

The receipts and expenditures are included in the financial statement of R.C. House of Refuge vide Schedule "B" Refuge Report. Government aid for 1902, \$618.54

PROTESTANT ORPHAN'S HOME, LONDON.

The following summaries show the operations of this Orphanage during the year:

Movements of Inmates.	Ser
In residence, 1st October, 1901 41 Admitted 20	Male
Total number of inmates 6	Places Admitted From.
Discharged 24 Died 1 In residence, 30th September, 1902 36	City of London
6	51 - 61

The revenue of the Home, including the Government grant, was \$3,075.29, and the expenditures were \$2,922.72. Government aid for 1902, \$290 52.

WOMEN'S REFUGE AND INFANTS' HOME, LONDON.

The following summaries show the operation of this Charity during the year:

Movements of Inmates.		$h \supseteq C_{\alpha} C_{\beta}$	
In residence, 1st October, 1901 20 Admitted		Male 18 Female	
Total number of inmates	60	Places Admitted From.	
Discharged		City of London	2

The receipts during the year, including the Government grant of \$920.92, were \$983.63, and the expenditures \$1,384.74.

Government aid for 1902, \$231.41.

THE RESCUE HOME FOR WOMEN, LONDON.

The following summaries show the operations of this Asylum during the year

Movements of Inmates.	8e.c.
In residence, 1st October, 1901 30 Admitted	Male
Total number of inmates 141	Places Admitted From.
Discharged 107 Died 2 In residence, 30ch September, 1902 32 — 141	City of London 111 Middlesex and other counties 30

The revenue of the Asylum, including Government grant, was \$2,214.81, and the expenditure \$2,185.67.

Government aid for 1902, \$467.87.

PROTESTANT HOME (ORPHANAGE BRANCH), ST. CATHARINES

The following summaries show the operations of this Charity during the year :

Movements of Inmates.		Se.e.		
In residence, 1st October, 1901 28 Admitted 21		Male Female		.10
Total number of inmates	49	Places Admitted From.		A 14
Discharged 15 Died 15 In residence, 30th September, 1902 34	49	City of St. Catharines County of Lincoln Other countries	7	49

The revenue and expenditure of the House during the year, including the Government grant, amounted to \$2,459.60 and \$1,722,48.

Note-Receipts for the year being greater than expenditure, not entitled to Government grant-Vic. 63., Cap 59.

ST. AGATHA ORPHAN ASYLUM, ST. AGATHA.

The following summaries show the operations of this Asylum during the year :

Movements of Inmates.		Se.c.	
In residence, 1st October. 1901 49 Admitted		Male	70
Total number of inmates	70	Places Admitted From. City of Guelph	
Discharged 14		County of Waterloo	
Died		Other counties 4	
In residence, 30th September, 1902 54		Other countries 1	
	70	1	70

The revenue of the Asylum was \$2,376.67, including the Government grant of \$381.68, and the expenditure \$2,387.69.

Government aid for 1902, \$382.80.

S . .

ORPHANS' HOME, FORT WILLIAM.

The following summaries show the operations of this Charity during the year:

Movements of Inmates.	1	Sev.		
In residence, 1st October, 1901 34 Admitted	67	Male		67
Discharged		Places Admitted From. District of Thunder Bay	67	67

The revenue of the Home, including the Government grant was \$1,760.10, and the expenditure \$2,201.72.

Government aid for 1902, \$281.98.

BERLIN ORPHANAGE, BERLIN.

The following summaries show the operations of this Orphanage during the year:

Movements of Inmates.		Sex.	
In residence, 1st October, 1901 14 Admitted 21		Male Female	35
Total number of inmates	35	Places Admitted From.	00
Discharged		Berlin. Waterloo Other counties in Ontario	35

The revenue of the Home, including the Government grant, was \$606.26, and the expenditures were \$647.20.

Government aid for 1902, \$73.44.

THIRTY-FIRST ANNUAL REPORT

UPON THE

ONTARIO INSTITUTION

FOR THE

EDUCATION OF THE BLIND BRANTFORD

BEING FOR THE YEAR ENDING 30TH SEPTEMBER

1902

PRINTED BY ORDER OF THE LEGISLATIVE ASSEMBLY OF ONTARIO.



T O R O N T O : PRINTED AND PUBLISHED BY L. K. CAMERON, Printer to the King's Most Excellent Majesty 1903



TORONTO: WARWICK BRO'S & RUTTER, PRINTERS.



Parliament Buildings,

Toronto, November, 1902.

Sir,- I beg to transmit herewith the Thirty-First Annual Report upon the Institution for the Instruction and Education of the Blind, at Brantford, for the year ending 30th September, 1902.

i have the honor to be, Sir,

Your obedient servant,

T. F. CHAMBERLAIN, Inspector.

The Honorable J. R. Stratton, M.P.P.,

Provincial Secretary.

Parliament Buildings, Toronto, November, 1902.

To His Honour The Honourable Sir Oliver Mowat, Knight Grand Cross of the Most Distinguished Order of Saint Michael and Saint George. Member of the Queen's Privy Council for Canada, and Lieutenant-Gov ernor of the Province of Ontario.

May it Please Your Honour:

I have the honour to submit herewith the Thirty-First Annual Report upon the Institution for the Education of he Blind, at Brantford, for the year ending 30th September, 1902.

> I have the honour to be. Your Honour's most obedient servant.

> > J. R. STRATTON, Provincial Secretary.

THE INSTITUTION

FOR THE

EDUCATION OF THE BLIND.

In submitting the Thirty-First Annual Report of the Institution for the Education of the Blind, at Brantford, 1 am pleased to be able to state that the past year has been one of progress and harmony in every department. The teachers and instructors of the pupils, and the officers, have performed their respective duties with credit to themselves and in the best interests of the school.

The school opened in September, as usual, with 107 pupils on the roll, namely, 52 males and 55 females. Of these, seventcen entered for the first time; the majority of the others had been in attendance for several sessions. Eight or ten more pupils are expected before the new year, and this will bring up the attendance to about the usual number. It will be seen by the Principal's report that eighteen of the pupils of last year have retired by graduating, or from other causes. The literary work of the school, the music classes, and the industrial work, the latter including piano tuning, willow work, typewriting, sewing, knitting, fancy work, and domestic science, are fully set forth in the report of the Principal. The annual meeting of Instructors of the Blind was held at Raleigh, N.C., during the vacation.

As will be seen by the report of Dv. Varonis, the health of the pupils and officers has been very good during the past year: only one death occurred, that of a little girl of ten years, caused by a tumor pressing upon the brain.

The farm has been more productive than in past years, the fruit being very abundant.

There have been a few changes in the staff of teachers and employees during the year, but these in no way interfered with or impaired the routine work. While every attention has been given to the literary, musical and industrial training of the pupils, their physical condition has been well cared for by exercising at regular intervals in the open air when the weath r permitted, and in the gynnasium. They are obliged to attend service in the chapel of the Institution on Sabbath afternoons, and also in the various churches in the city in the forenoon, as well as week-day services, so that their religious and moral instruction is well provided for.

It will be seen by the report of the examiner in music that the music classes acquitted themselves well, their standing being very creditable. The average marks obtained by the pupils at their literary examination, held by Mr. Wadsworth, Public School Inspector for the County of Norfolk, are quite equal to the marks obtained by sight-seeing pupils in our Public Schools.

The reports of Dr. Marquis, the attending physician, and Dr. Bell. oculist, for the year are very satisfactory.

On the occasion of my inspections during the year. I have found the accounts and records of the Bursar satisfactorily kept. The Principal's office, also, was in good order, and the arrangement of classes, the course of studies, etc., well managed.

The farm stock, and farm implements, have been well cared for during the year.

The average cost per pupil for the year was \$263.31, and the total expenditure \$29,227.98. This will not be materially changed during the coming year. I have to thank the Principal, the teachers, officers and employees for their courtesy to me when making my visits of inspection.

PRINCIPAL'S REPORT.

T. F. Chamberlain, Esq., M.D., Inspector:

Sir,—I have the honor to submit my Report for the year ending September 30th, 1902.

The above date, coming within a fortnight of our pupils reassembling after their long summer vacation, makes the period for preparing this Report somewhat inconvenient in many respects. That so long a time should elapse before, by constitutional usage, the report can be utilized as a means of spreading information regarding the operations of the institution, is also to be regretted.

PUPIL POPULATION.

The session of 1901-2 closed with a pupil population of 113. Of these 57 were males and 56 females. Our numbers on the 30th of September, 1902, were 107, represented by 52 males and 55 females. Of pupils in residence during the past session, 87 had returned, 43 males and 44 females. Seventeen pupils had entered for the first time, 9 males and 8 females. These, with three former pupils who had been absent for a term, made up the total of 107 as above given. Eight pupils who have been temporarily detained at home have signified their expectations of returning at an early date, and two new applicants are on the eve of arriving. Others are in prospect, so that we may anticipate a somewhat increased attendance, as compared with last year. Eighteen pupils who have retired remain to be accounted for, as follows:

	Males.	Females.	Total.
GBADUATED — In Piano Tuning (advanced in music) In Music (artist's diploma A. T. Coll. M, Literary and Industrial). OTHER CAUSES— To take higher course of study preparatory to entering college Secured employment Impaired health Mentally defective	1 1 3 1 1	1	1 1 3 1
Physical infirmity (other than blindness). Domestic requirements Advanced in music and industrial Variors causes	1 2	$\begin{array}{c} 4\\ 2\\ 1\end{array}$	$\begin{array}{c} 1\\ 4\\ 2\\ 3\end{array}$
	10	8	18

The following shows the ages of the newly-admitted pupils:

9

						1			 E.	-																	
Thirty ye	ars	5																						1		Twe	ntv
Twenty-five	44								 						,									1		Fifte	
Nineteen	66								 		 												 Ĵ	1		Twe	lve
Fifteen	6.6											Ĵ.						Ì	Ì					1		Six	
Thirteen	6.6																							1		Five	
Twelve	66								 					į										1			
Eleven	6.6				į											į								. 1			
Ten	6.6				ĺ											ĺ	ĺ							1			
Five	6.9			Ĵ	Ĵ	Ì	_	-					Ĩ		Ĩ		Ĵ		Ĩ.					ī			
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MALES

FEMALES.

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Our disinclination to admit pupils over twenty-one years of age, unless under very exceptional circumstances, has influenced the decisions arrived at in many cases. The two male adults above mentioned could not have been excluded without inflicting upon them cruel hardship, and I have good reason to believe they will repay, by their diligence and good conduct, the waiving of the rule in their behalf.

It may here be noticed that,—our careful discrimination in the lastnamed regard notwithstanding,—the number of new pupils admitted is in excess of that of late years. On our books, too, are the names of several children, whose condition points them out as probable applicants in the near future. The friends of the latter will, from time to time, be communicated with, either by personal visit or correspondence, until the desired result is secured by the children being admitted. The increased number of very young pupils, both present and prospective, is a gratifying evidence of the confidence felt by the public generally in the personal care and the character of the education such receive when placed in our charge. It is always desirable that parents should pay a visit to the Institution, either when the pupils enter or after they are well settled into their new work. The arrangements conducive to the health, comfort and progressive improvement of the pupils are often a matter of agreeable surprise even to those who have been fairly well informed as to the general management. It may be well, however, to mention that, while not. I trust, wanting in hospitality, we cannot undertake to entertain other than immediate relatives, and those only for a few hours. Lodgings, if required, should be secured elsewhere. An electric car service gives ready access to the numerons city hotels.

PROMINENT EVENTS.

Three prominent events of the past year may properly claim attention. They were, the Biennial Convention of American Instructors of the Blind, which met at Raleigh, N.C., in July, and at which the Institution was represented by the Principal and Mr. W. B. Wickens, our senior literary teacher: a conference of all classes of the representatives and friends of the Blind: in London, England, of which a verbatim report has been courteously supplied to us: and the public recognition of the relations of the Institution to the higher schools of Music which marked our closing concert in the month of June. The latter occasion will be noticed later on in connection with the Musical department. On the others, J may make a few remarks.

The constitution of the two gatherings was essentially different, so, to a large extent, was the tone pervading the debates. In many of the experiences narrated, however, there was a similarity. In what might be termed higher conceptions, the Raleigh Convention was decidedly in advance: in the limitations and difficulties encountered, there was a sympathetic consciousness between them. The social conditions in Great Britain are very different from ours, or those surrounding our American co-labourers. The British friend or educator of the Blind evidently looks on them as a naturally dependent class, one in which the means of self-help are rare. On this continent we recognize, of course, the defects under which th blind labor, but our youthful blind population are—with, of course, some exceptions—neither indigent nor helpless. There are in Great Britain, it is true, the Worcester College for the blind sons of the wealthy, who are there trained for professions, and the Royal Normal School at Norwood, under Doctor F. J. Campbell, who received his ideas and inspiration originally at the Perkins Institute, So. Boston. In Dr. Campbell's admirably-

THE REPORT OF THE

conducted school the work is very similar to that of the best institutions in North America. There is a distinctly educational side to many other British institutions, with able administrators at the head. But the eleemosynary atmosphere seems more or less to pervade most of them. whilst many are simply Homes or Asylums, where the blind are sheltered and industrially employed. Legislation has occasioned a decided advance in those of an educational character. Attached to the public or board schools in populous centres, classes for the blind do good work, and the Institutions are also subject to inspection while receiving a per capita grant if the results come up to the specified standard. But the age limit is sixteen years, and there are distasteful references in the discussions of the Convention to that authority, so repugnant to Canadian ideas and habits. "the Board of Guardians," administrators of parochial relief, as the body from which funds for pupils whose ages exceed the maximum have to be collected. The educational training of the blind in the Mother land will never attain full vigour and elasticity until it is less dependent on charity in its various phases on the one hand, and the pauper's dole on the other. Deeply interesting as is the report in question, still, viewed from our more independent point of view, the general effect is not exhibitarating.

The spirit of the Raleigh Convention, on the contrary, was decidedly stimulating. The education of the blind on this side of the Atlantic has been, as a whole, in advance of that of Great Britain. As between Canada and the United States in the education of the blind, political and geographical distinctions do not count. The Convention ten years ago met in Brantford. But for the occurrence of the St. Louis Convention in 1904, it would probably have been entertained at Halifax, N.S., in that year, where Dr. Fraser, himself a blind man, has built up an institution, now receiving the blind youth of the Maritime Provinces and Newfoundland. The funds of the American Printing House for the Blind, which issues from its presses a great mass of Anglo-Saxon literature of the highest and purest type, are supplemented by a provision of Congress representing \$10,000 per annum. This, as affecting the cost of production, is no less an advantage to us than to our co-laborers in the States. The American Bible Society gives us the benefit of its reduced price list, and enables the blind of Canada to possess the Holy Scriptures, or any portions thereof, in embossed type or cipher at the lowest possible cost. Other printing houses main. tained by American capital are also accessible as our needs require. Most beneficial, too, is the interchange of thoughts, ideas and experience, which is obtained by meeting men and women of brilliant minds and strenuous purpose, whose lives have been devoted to the education of the blind. Happily, several of the institutions in the United States are in such hands. Several of these are free from the peruicious system which prevails in too many States of changing Government officials with every political turnover. Such men as I refer to are the "Old Guard" of the service, and their counsels are invaluable.

Another reason for a closer affinity with the American than we are able to enjoy with the British institutions is the different point print or cipher types which they have adopted. The original cipher or "Braille" type has undergone modifications, and is. I observe, the subject of some controversy in Great Britain. But the American "Braille" has been still further amended, while the New York "point," which is used by ourselves and many of the American institutions, and is the system recognized by the American Printing House for the Blind, differs radically from both the English and American Braille. It is a matter of deep regret that one uniform system cannot be agreed upon by all instructors of the blind, at least in English-speaking lands, but the controversies in the United States alone over this vexed question make all hope of common action extremely improbable.

The impression created by the late Convention at Raleigh on the mind of an observer are set forth in a report which appeared in the Toronto Globe, and from this 1 quote somewhat fully:

"The general trend and result of the deliberations may be described pretty nearly as follows: The work of the instructor being with the blind of school age, that is, under 21 years and mainly from 6 to 20, the educa tional idea must always predominate. No institution is complete that does not embrace in its outfit a regular course of physical, literary, musical and industrial training, and these in due proportions, varied in application of necessity, according to the ages, circumstances and conditions at which or under which pupils are admitted. The building up of a healthy body and well-stored mind by these united influences is to be the prime and everpresent object of the educator, not in the first place the preparation of the student for some particular trade or profession in life. That may come incidentally, as it does to sighted youths, from instruction received, and is by no means to be discouraged, but is an incidental rather than the main purpose of education. This view does not conflict with the line of instruction in any of the best managed institutions of the day, but the educational iden should always predominate. Concurrently with this is the high place neusic is regarded as taking in the mental training of the blind. Music is in fact the right arm of the instructor from the time the pupil enters the kindergarten to his graduaion with ability to become either a vocal or instrumental performer or a teacher of others. But here again music is not to be measured in its effects exclusively by artistic results. Its even greater usefulness, both in a moral and social aspect, is fully recognized. The same remark applies to the several industries in which the blind receive instruction. They are necessary to the cultivation of good habits, if never turned to account as a means of livelihood. The beneficial effects. too, of systematic training are in no case more to be desired than in that of the blind youth. Their influence for good, both in relation to the growth of the body and the healthy development of the mind were strongly emphasized. The adoption, so for as the circumstances admit, of an educational standard in the literary branch was also regarded as essential and is becoming very general. Several instances were cited, in answer to a demand for information, of students of institutions for the blind having taken higher courses or fought their way to literary distinction. But these have been owing rather to some innate personal characteristics than to a merely academic career. Here, again, responsibility for laying the foundations for such successes rather than for exceptional assistance was maintained. The value of particular industries to the blind was also considered under several heads. But some means of employment, if of value to the adult blind, were not regarded as proper or suitable for introduction into the school curriculum, and others, if here and there available, were seen to be likely to be overweighted by sighted competition. Manual training. however, is always attached to a well ordered institution. Closely connected with the study and profession of music is the business of pianotuning. The reputation of the blind piano-tuner, it is gratifying on all hands to learn, has been established beyond a doubt

Summed up in a few words, experience seems to show that, while manual training is essential to proper moral and physical development, and while, in giving effect to this idea, industries may be taught which supply profitable avocations, yet that, as with the sighted, the true resource of the blind man or woman must be found in a well furnished intellect, a sound, moral training, and good physical development. How the individual in which these are combined may apply the result most profitably has to be determined by surrounding conditions."

THE LITERARY CLASSES.

For the state of the literary classes and the aspect of the Institution generally, as it has presented itself to one who came into personal contact with it for the first time. I may refer you to the report of Dr. J. J. Wadsworth, the examiner for the year. If I have any complaint to make of that report it is the, I hope inoffensive one, that in some respects it is too favorable rather than otherwise. The fact is that, unacquainted with our pupils attainments, and prompted by a kindly regard for their feelings. the tests applied were in some cases easier than they might have been. Pupils, in a few instances, even complained that from this cause justice was hardly done to their attainments. We can appreciate the generous consideration which spared them, but our examiners may be well assured that blind pupils can be quite as safely put upon their mettle as sighted ones.

MUSIC CLASSES.

The past session in this department of study was a memorable one. For several years we have adopted the curriculum of the Toronto College of Music for our course, and have had the pleasantest relations with its able and most kindly disposed head. Under the advice of our male music teacher, Mr. E. A. Humphries, who is an enthusiast in his profession, several of our pupils submitted themselves for the College examinations of various grades. Those in pianoforte were conducted by Mr. W. E. Fairclough, who was also the examiner of the Institution for the year, during his visit to Brantford. The papers in theory were sent to Mr. Wellsman, another member of the College staff. The results were as follows :—

1, 3rd year, Piano, first-class honors ; Artist's Diploma (A.T. Coll. M.)

- 1, 2nd year, Piano, second-class honors.
- 2, 1st year, Piano, first-class honors.
- 2, 1st year, Piano, second-class honors.
- 1, 2nd year, Theory.
- 1. 1st year, Theory.

The conferring of the Artist's Diploma was conditional on the performance by the candidate of a concerto with orchestral accompaniment in the presence of Dr. Torrington, the managing-director of the College. The young lady in question underwent this rather trying ordeal successfully at our closing concert, the orchestral part being supplied by the talented members of the Darwin family, of Brantford. The diploma and the several certificates were distributed by Dr. Torrington in person, who also spoke at some length in terms of congratulation of the attainments of the blind pupils and the general character of the musical education provided for them. It is very pleasant to learn that the new A.T. Coll. M. has already met with much encouragement as a music teacher. Her whole course at the Institution had been marked by the most exemplary conduct and persevering attention to her studies. The success of the pupils above mentioned has stimulated others to attempt similar achievements, and the tone of the music classes generally can but be raised by such efforts. The relation of music to the education of the blind is one that must always take a foremost place in the discussions of their instructors. Among most



of these I find the views I have expressed in former reports are very generally held, namely, that music should be taught to the blind wherever a capacity for learning it exists, not merely as a possible means of livelihood, but as giving zest and enjoyment to what are more or less beclouded lives.

PIANO TUNING.

At the London Conference the question how to find profitable employment for the blind may be said to have preponderated, for reasons already suggested. There, as with ourselves, the question is, however, not what can a blind man or woman do. The possibilities for doing are wide enough, the opportunities for doing profitably and successfully have serious limitations. Increased competition accentuates these difficulties. On the other hand it is gratifying to know that in piano tuning blind workmen are preeminently successful. I am able to say, with much satisfaction, that, of the large body of blind youths who have graduated from this Institution in that department during the past twenty-five years, not one has been unsu cessful, save and except for such sufficient reasons as would affect the sighted equally with the blind. Others who have not proceeded to graduation have been able to enter factories where their final qualification has been assured by the practical experience there afforded. One pupil has graduated in piano tuning this year, and two others have retired with the prospect of securing positions as last above mentioned. We have now tworty-four male pupils under instruction in the tuning class.

THE WILLOW SHOP.

This department has undergone a considerable change in its general character during the past three or four years. Where formerly from fifteen to twenty-five more or less advanced workers could be found, a large proportion being adults, we have now four or five. But the willow shop has its usefulness in another sense. The number under instruction is but slightly diminished, being maintained by junior pupils who would otherwise be unoccupied during the later hours of the day. They are thus encouraged in industrious habits, and taught cane chair seating and making light goods in cane or willow, in which art many of them become quite proficient. Some of these will extend the time spent in the shop as their ability to take that course increases, and the necessity for literary studies lessens. In connection with this industry I may again call atention to its value to a certain class of the blind and the causes why some fail to succeed in it. Its adaptability to their condition has again and again been amply demonstrated. The failures are mainly due to one of two causes. First, want of energy, perseverance and moral stamina. These are not peculiar to the blind by any means. Secondly, lack of capital, even on a small scale, and that friendly assistance which sighted, as well as blind beginners, need in their earlier efforts. Graduates from this Institution are liberally treated. They receive an outfit of models, tools and material that gives them a good start. If they have a home and relatives to shelter and help them they usually do well. But if cast at once on their own resources the struggle is hard and the results are doubtful. Before a trade is secured the stock of material is exhausted, principal as well as profits are eaten up and the worker is at a dead-lock; hence disappointment, dis couragement, and often the throwing up of the trade, the waste of the outfit and a resort to peddling or some other possible means of livelihood. A workshop in some populous centre, where blind adults may be instructed and graduates without homes temporarily employed seems to be a necessity. In Great Britain arrangements of this description are almost universal. The blind worker has little or no difficulty in accomplishing the

mechanical part of his business. It is on the commercial side that he fails. And there are thousands of sighted men employed in workshops of various kinds to-day who, while excellent mechanics, would be abject failures if required to face a mercantile venture. Need we then be surprised to find blind man too frequently unsuccessful. One difficulty often presenting itself is the inability to secure a supply of willow just when most needed. The manufacturer on a large scale lays in a store at the season for harvesting the material, but the blind worker often finds it hard to provide a few dollars needful to execute current orders. So he loses the chance of employment and the little connection he has formed. I am of the opinion that, in the absence of bolder measures, it will be well for us to come to the rescue of such as I have just referred to, and to keep a sufficient stock in hand to meet their more urgent needs. In the report of the London Conference a blind man, Mr. Wm. Plater, of Birmingham, who conducts a very large business in willow, cane and the miscellaneous requirements of the basket and chair-making business, gave a very interesting account of his efforts and their happy results. He said :

"When I had learned the trade of basket-making in the Birmingham "Institute I at once started in business on my own account. The thought "of going to work anywhere else, or anything different from that never "occurred to me. I felt that I had learned a trade and I would make the "best use I possibly could of it in the way of improving the general con-"ditions of my life. In the Birmingham district, where I live, we have a "great many nail and screw manufacturers, and nut and bolt people, who "use homoers. I laid poyself out to supply one class of article, packing "haupers,' first. Then I knew that the firms I called on also used nail "bagging: they also used machinery, and, consequently, bought largely in "coal for the getting up of steam, etc. So I set to as soon as I learnt my "trade and started my business. I felt that I must have semething to pay "me for the time spent in getting orders. I waited on a leading coal mer-"chant and got him to promise me a commission of two and a half per "cent, on all business I could bring to him. I also wrote to the different "nail bagging manufacturers in Scotland and Ireland, and secured an "agency with E. G. Duffin & Co., Belfast. The commission was settled, and "I agreed to represent them in the Midland Counties and I may say that at "the end of twelve months all their immense stock of nail bagging was "gone, and the prices had gone up thirty or forty per cent. I represented "them for three or four years, and I never made them a bad debt, and I am "now a customer to them insead of agent. With reference to basket-"making, I strongly recommend an" intelligent man who starts in business "after learning a trade to adopt also commission agencies with the manu-"facturers in that district; a ten oveney might be added too. It was said "that basket making could not be recommended because prices were so "low. Prices as a rule are not low, and the demand increases. During the "vear 1900 I disposed of 150,000 baskets of one kind or another, an average "turnout of 500 per working day, varying in price from 4 s. 6d, per dozen to "£10 10s, eych. I turn out an immense quantity of baskets from £1 to £5 "each, and employ a good number of people in the making of them. If it is "possible for one energetic man, with only moderate ability, to find cus-"tomers for 150,000 baskets in one year, it is possible for any blind man "to get a living. I started without capital, and the first year I worked from "six in the morning till twelve at night. The following year I reduced my "hours of labour to ten at night, and as each year my business increased, "so I reduced by hours of labour. I put very few hours in now. Just to "show the result of what energy and perseverance will do I now go to busi"ness at ten, leave at one, leave home at half-past three and stop at six. "So that I put in five or five and a half hours a day, as a sort of compensa-"tion for the many hours of work previously, when young and strong."

Many another blind man would tell a similar story of success if on a smaller scale, showing "what energy and perseverance may do." But there is a freshness and hopefulness about Mr. Plater's narrative that makes it particularly attractive.

I had almost hoped the Conference in London would have suggested some new and feasible method for the employment of the blind, but, of handicrafts few, if any, beyond those we have already adopted, appear to be generally available. As one trade after another is recited in the report, the objections to it or the difficulties in carrying it on are often so formidable as to remove it from the region of the practicable. This remark, how ever, applies chiefly to the blind worker engaged in independent efforts to earn a livelihood. The workshop or factory often supplies what is wanting. Many of the suggested avocations sound very strangely to our ears "Chimn-y sweeping," is one of them. More practical, but certainly most objectionable, is the course pursued at a Colonial institution we have recently heard of, where pupils are trained for street musicians !!! This, it is fair to say, was not one of the avocations mentioned at the London Conference.

TYPEWRITING.

A large proportion of our pupils now employ the typewriter for their correspondence, and its use will gradually become more general.

SEWING, KNITTING, FANCY WORK AND COOKING CLASSES.

These classes have been conducted with much success, and the results at the end of the session were highly creditable both to pupils and in structors. Bead work, hammock-making and string basket work are included in the list of employments for which our pupils are to be credited.

HEALTH.

The health of the Institution as a whole has been good during the past year. Any cases of a serious nature will be mentioned in the Physician's report. One death has to be recorded—that of a little girl about ten years of age, who passed away suddenly soon after her admission as a pupil. We were not warned that such an event might be expected, but subsequently ascertained that it had been anticipated long before it occurred. The young pupil was a very attractive child, and had at once commanded the warm attachment of her companions and officers.

DISCIPLINE.

I do not recollect a session since my appointment in the year 1881 when less difficulty in maintaining discipline and order has been felt. We have had, with few exceptions, an intelligent, self-respecting body of young people, many of whom, I am led to believe, have exercised a very salutary influence over others.

THE CIRCULATING LIBRARY.

This addition to our means of helping the Blind has proved increasingly useful as time has passed since its establishment. The demand for books in the "Moon" type by blind adults has been comparatively small, although in many instances the facilities it has afforded that class for mental occupation have been gratefully recognized. But to our former pupils and trained readers in line type or cipher, the library has been of the greatest value. That it helps us to keep in touch with these is also a source of much satisfaction.

THE GROUNDS, FARM, ETC.

The ornamental and recreative portion of the grounds becomes more and more beautiful as time passes, although little or nothing has been expended on it for several years. The farm, this year, has been more than usually productive, and results have been shown that would have been creditable to a much more prolific soil. Our orchards, also, to which, much to their gratification, our pupils have had free access, have yielded a heavy crop of apples, an item of no small importance in our domestic arrangements.

THE STAFF.

After ten years of faithful and loyal service as Supervisor of the male pupils, Instructor in physical culture, and, for the past year, teacher of literary classes, Mr. P. J. Padden has retired, in order to pursue his studies for a professional career. His departure is regretted by officers and pupils alike. All join in wishing him success in his future vocation. Mr. P. J. Roney has received the appointment to the vacancy thus created, and has entered actively upon his various duties. Mr. Roney is an experienced Public School teacher, holding a second-class professional certificate, and comes to us highly recommended by those who are best able to judge of his qualifications.

A BLIND TRAVELLER.

As an evidence of calm self-reliance, coupled with a deep sense of Providential care, and illustrating strikingly the facilities afforded for travel in these days, I may mention as an incident of the past session, the journey of one of our female pupils from Brantford to the Antipodes. The young lady, an orphan, had been offered a home by a brother in Sydney, Australia. By arrangements made with the Canadian Pacific Railway, the blind traveller was placed on a tourist car at Toronto, and, accompanied by a guide only as far as North Bay, travelled from that point alone to Vancouver. B.C., was there transferred to the "Moana" steamer, and, without hitch, misadventure or discomfort, arrived in less than a month from the time of leaving the Institution at her new home in Australia. Our old pupil's account of her trip, written in several pages of "point print" is very interesting, and not a little creditable in a literary sense. But I notice the case particularly in order that I may have the opportunity of publicly acknowledging the kindness and attention of every official of the C. P. R. with whom my young friend came in contact, both on railway and steamer. and, at the same time, of recognizing the care and consideration which our pupils invariably receive from all persons employed on our great railway lines, the Grand Trunk and the Canadian Pacific. Children, even of tender years, have travelled many hundreds of miles alone, but always well assured that a protector and helper has been near at hand. These good offices, it is only fair to state, are almost invariably supplemented by kindly acts on the part of fellow-passengers, and. I believe (while the Institution accepts no responsibility in such cases) that, in the charge of the railway hands, no one can travel more safely than a blind child.

ACKNOWLEDGMENTS.

I cannot close without once more acknowledging the continued interest taken in the Institution by our fellow-citizens in Brantford, and the pleasant relations that exist between us. To the clergy, for their regular attendance on Sunday afternoons, my thanks are specially due. I have the honour to be Sir.

Your obedient servant,

Brantford, October 15, 1902.

A. H. DYMOND, Principal.

PHYSICLAN'S REPORT.

October 10th, 1902.

T. F. Chamberlain, Ese., M.D., Inspector of Public Institutions:

Sir,—In presenting my Annual Report, as physician to the Ontario Institution for the Blind, I have pleasure in stating that the health in the building has been, on the whole, satisfactory. The pupils have been free from contagious diseases, and have been able, with few exceptions, to attend classes regularly.

On November 16th, 1901, a female pupil died suddenly of cerebral tumor of long standing. This, fortunately, was the only death during the year.

Early in December a male pupil of delicate frame developed pneu monia of a serious type, however, by careful nursing, he gradually regained his tene, and recovered completely.

The chief difficulty that I have among the pupils is the continued prevalence of colds and acute catarrhal affections, during the fall and winter months. In my opinion, this is caused by the obsolete system of heating used in the Institution. With modern systems of heating and ventilation, the general health would be improved and still more satisfactory work would be deve. I have the honour to be. Sir,

Your obedient servant,

JOHN A. MARQUIS.

OCULIST'S REPORT.

To T. F. Clamberlain, Esq., M.D., Inspector of Public Institutions of Onterio:

Sir,—In reporting on this year's examination of the eyes of the pupils, it does not seem advisable to go into the details of the diseases, as there is practically no enange in the pupils of former sessions, and there have not yet sufficient numbers of new papits entered, in the two years which have elapsed since 1 dwelt at some length on the individual affections, to alter materially the former classification, so, from a statistical standpoint, a longer interval might well be allowed to intervene before doing so again.

There were fifteen new pupils to examine—seven male, eight female all having very defective sight, and, hence, inquestionably eligible.

Concerning the sight of pupils examined before, in a few cases some improvement was evident, but in most of these it seemed to be due to more advanced age, and mental development, giving better attention, and more intelligent answers. In a couple of cases, however, where the defective sight hod been from early childhood, there seemed to be a slight improve ment in the condition of the eyes, with consequent actual increase in sight, and, while not very great, this is of considerable advantage to the pupils both of whom, I must remark, are in excellent general physical condition, which, of course, has a direct bearing on the condition of their eyes.

The good general health of all the pupils who have been in the Institution for a length of time is remarkable. From year to year, I can notice children who came here with drooping heads stooping shoulders and hollow chests, developing into strong, erect youths, and the good general condition thus evidenced has a most beneficial effect in preventing further deterioration of the sight left to those so fortunate as to possess a helpful amount. I have heard it suggested that the use of the Institution was abused by some pupils being educated here, who would do very well at a Public School. During my connection with the Institution I have found only three children, each blind in one eye from accident, the other having been endan gered, but, now having normal sight, rendering them non-eligible. These were at once reported, and retired. So that any such impression is unfounded.

During the year, a few acute eye and ear troubles arose requiring my attention, but, fortunately, none resulted seriously, all recovering their former condition.

Respectfully submitted,

Brantford, May 6th, 1902.

B. C. BELL.

LITERARY EXAMINER'S REPORT.

T. F. Chamberlain, Esq., M.D., Inspector of Public Institutions for Outario:

Sir.—I have the honor of submitting for your consideration the following Report of the Literary Examinations made by me under your instructions at the Ontario Institution for the Blind at Brantford for the academic year 1902. The examinations were held on the 21st, 22nd, 23rd, 26th and 27th days of May. At the request of Principal Dymond, I made a visit to the Institution on May 16th for the purpose of acquiring a definite conception of the work I had been appointed to do as examiner; for I felt sure that an examination of the blind must involve many departures from the methods employed with those possessed of sight.

At this preliminary visit, I was received by the Principal and Teachers with the greatest kindness, and every opportunity was afforded me of lecoming acquainted with the organization and classification of the pupils, the curriculum of studies, and the peculiar methods of imparting, receiving and evincing knowledge necessarily resorted to in the education of the blind. I visited all the divisions, and saw over a hundred young persons seeking intellectual light.

But a visitor is deeply impressed with the wonderful liberality displayed by the Province in its provision for the education of these children on lines of culture as well as practical usefulness. The stately pile that crowns the heights of Brant Avenue, the ample grounds, about a hundred ccres, planted with groves, the winding gravel roads and other approaches, the ornamental shrubberies and flower-beds, the sloping lawns and meadows, the extensive fields devoted to farming purposes, all present a scene of beauty and utility rivalling the claim of any College in Ontario. Nor are the internal arrangements less admirable. The whole building is heated by steam, its corridors and class-rooms, its various offices, dormitories, dining-rooms, kitchens, laundry-rooms, bakery, bathrooms, water and sewage systems, engine-rooms and workshops, all giving evidence of wise and abundant provision on the part of the Government, and the most thorough and efficient attention of those in immediate charge. Were it not that I know you are fully aware of what I am attempting to describe. I should go further; but, as a Canadian, I cannot refrain from expressing the delight and pride I felt during the six days I spent at this noble public institution.

But the work I was instructed to do was to examine the Literary Classes and I cannot do better than follow the lines of previous examiners.

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The marks obtained by each pupil in each subject are given in the accompanying mark sheets.

The following are the general results:

(a) MISS GILLIN'S CLASSES.

(1) Arithmetic—Class C. Twelve in class. Limit, multiplication table review. 20 x 20, money tables, definitions, elementary rules, weights and measures, problems on the same. The class, with one exception, knew the work well. The use of the 20 x 20 table is a great advantage to the blind. There is, of course, great difference in ability, some have high natural intelligence, a few are very dull. When a boy is both blind and slow the teacher has a very difficult task. This remark applies to all the classes, but such cases are not numerous. The necessity of doing all calculations mentally, limits the arithmetical work of the blind. I should think a mechanical calculating machine for the blind could be invented. The class obtained an average of 66 per cent.

(2) Grammar—Class A. Ten in class. Limit, history of language, orthography, analysis and parsing. The class did good work with two exceptions, and showed careful teaching. Average mark, 72 per cent.

(3) English History. Thirteen in class. Limit, from Henry 2nd to Richard 2nd. This class displayed very accurate knowledge of the period, and contrasted its ideals clearly with those of our days. Average 82 per cent.

(4) Writing—Class D. Limit, small and capital letters, short words and a few sentences. Pupils mostly young. The writing is done by means of a pasteboard slate, with transverse grooves on it about half an inch wide, in which the paper is depressed and which guide the hand. Some pupils have attained great dexterity in the use of it. Marks averaged 46 per cent.

(5) English Literature—Seventeen in class. Limit the Elizabethan period, Latin roots, and Shakespeare's Richard the Third. This was a very superior class. The pupils would rank with some of the best High School forms. They had a thorough grasp of the derivation of English words from the Latin, knew the biography of the great dramatist thoroughly, had stored their memories with the finest passages of the play, comprehended the subtle analysis of human passion, were well versed in the history of the time, and evidently appreciated the beauty of the language. I must confess. I was astonished at the degree of mental culture displayed by this class. Average marks, 95 per cent.

(6) Geography—Eleven in class. Limit, United States and South America in detail, outline of Central America and West Indies, products forms of government, political relations. The memory work, with one exception, was very satisfactory. The pupils used the Sectional Maps with surprisine facility, picking out by touch any state or island, and showing the location of cities, rivers, mountain chains, etc. These maps are made of thin slices of wood glued together, with the grain crossed, and are sawn into shapes, like children's puzzle cards, each country forming a block. Brass tacks of various sizes represent cities, etc., grooves representing rivers. The pupils easily distinguished any portion by feeling the outline, and really excelled most of us who have sight. These maps are mostly made in the institution, under the superintendence of Mr. Wickens. They are about four feet square, and lie on tables. The average in this class was 81 per cent.

(7) Ancient History—Seventeen in class. Limit, sketches of the history of Egypt, Chaldaea, Assyria, Babylon, Persia: also of the leading writers of Greece and Rome. The class had been carefully taught and knew much of ancient times.

(8) Canadian History—The same class. Limit, from 1763 to 1812, present form of government. With one exception the pupils knew their Canadian history well, and fully appreciated its bearing on our present liberties, privileges, and duties as citizens. Average 82 per cent.

(9) Bible Class—Class A.—Girls; twenty-three in class. Limit, Old Testament History, Numbers to Ruth, 1st Samuel, Wanderings of Israelites, Conquests, The Judges, etc. As a Public School Inspector, this was a new departure for me. The teacher asked the questions, and covered the whole period. As no one failed to reply promptly and accurately I cheerfully gave the class 100 per cent., and have no doubt they deserved it.

MISS WALSH'S CLASSES.

(1) Arithmetic—ClassA.—Fourteen in class. Limit, measurements, percentage, gain and loss, insurance, taxes, partnership, general problems in High School arithmetic. With two exceptions the class solved all the problems given, and gave clear, logical solutions. This class would compare favorably with the lower forms of a High School. Average marks, 80 per cent.

(2) Reading and Spelling—Class B.—Limit, reading from the 1st, 2nd, 3rd, 4th, 5th and 6th Books. The books are printed in embossed type or raised letters. The pupils read with great ease, the rate of utterance not being any slower than a careful reader should employ. The utterance was very distinct, the inflection and emphasis in most eases decidedly good. The teaching had evidently been of the most thorough kind. I tested the pupils in reading disconnected words and in reading sentences backwards. But in nearly every case word-recognition was correct and prompt. The average mark was 89 per cent. This included the spelling tests.

(3) Writing—Class C.—Thirteen in class. Limit, words, capitals, sentences. Good work, careful teaching. Average 58 per cent.

(4) Geography—Class D.—Limit, Ontario, counties, lakes, rivers, railways, products, definitions, etc. This class comprised several sections of different degrees of advancement, but they all did themselves credit, the seniors taking 81 per cent. and the juniors 65 per cent.

(5) Grammar—Class B.—Thirteen in class. Limit, definitions, inflections of nouns, verbs, parsing. All but two did very good work. Average, 82 per cent.

(6) Natural History—Seventeen in class. This was a very interesting class. The pupils described the chief points of interest in the specimens before them, the kangaroo, weasel, mole, monkey, seal, eagle, owl, etc. They also gave full accounts of cotton, silk, and other materials, and their manfacture, exhibiting the specimens. Both Miss Walsh and her pupils take great pleasure in this study.

(7) Bible Class—Fourteen in class. Limit, Gospel of St. Luke. History of the Passion, the leading miracles, parables, first chapter memorized. The pupils had been very carefully instructed in the course prescribed, and could narrate the miracles and parables and repeat the Canticles, the Beatitudes, the Lord's Prayer, and other portions of the Gospel. These pupils are Roman Catholics, and use the Douay version of the Bible Average marks, 95 per cent.

MR. WICKENS' CLASSES.

(1) Arithmetic—Class B. Limit, fractions, problems. Eleven in class. A very intelligent class. Average marks, 78 per cent.

(2) Geography—Sixteen in class. Limit, detailed study of Europe physical features, peoples, products, etc. The work was exceedingly well done, especially the map work, in which many of the pupils were remarkably expert, showing a minute knowledge of the Continent of Europe. Average, 74 per cent.

(3) Reading—Class A. Eight in class. Limit, Enoch Arden, in Point Print, and spelling. This is a new kind of print, not generally known to the public, but of vast use to the Blind. It is done by the pupil puncturing pap r with a pointed steel pencil. The paper, of a special kind, is laid on a sort of frame called a slate, and the hand is guided by a transverse frame, containing three parallel rows of square holes about an eighth of an inch wide. This enables the writer to punch letters, or, rather, combinations of dots, that, as in telegraphy, represent letters, with great rapidity. They write from right to left, and when the paper is turned over, the trained fingers read the words with ease, from left to right. Mr. Wickens is a master of this art, and has a fine class. Average, S5 per cent.

(4) Typewriting. Here Mr. Wickens has a most surprising class. Nine teen of the blid are learning typewriting, in addition to a large number who had already learned it. A number of machines of different make, but with standard keyboard, are employed. The skill of some of the young men and girls is remarkable. It adds greatly to their interest in study, and they are delighted to be able to write English in a form that can be read as easily as print by others, though not by themselves. This last consideration is a source of discouragement, as the inability to read and correct their own work lessens their opportunity for profitable employment. It was impossible to average this class in marks, although several won 100 per cent.

(5) Bible Class—Boys, A. Twenty present. Limit, numbers to Ruth inclusive. The class showed accurate remembrance of their lessons, and quoted passages with ease. Average marks, 74 per cent.

Mr. Padden's Classes.

(1) Arithmetic—Class D. Twenty-five in class. Limit, tables. fundamental rules, problems. Two divisions form this class. The seniors took 79 per cent., the juniors 67 per cent. Mr. Padden teaches with much energy and success.

(2) Grammar—Class C. Limit, parts of speech, analysis and parsing. Twenty-one in class. Work well done. Average, 80 per cent.

(3) Geography—Class C. Sixteen in class. Limit, definitions, Dominion of Canada, Ontario, political conditions, etc. With one exception, all did well. Average, 73 per cent.

(4) Reading—Class C. Twenty in class. The reading was from the embossed print in First to Fourth Books. The development of the sense of touch, as evinced in reading these books was wonderful. The reading was as rapid as reading should be, and with few errors. Word recognition was very satisfactory. Average marks, 91 per cent.

(5) Writing—Class B. Fourteen in class. Limit, capitals, sentences, figures. Good work done by all, except two. Average, 68 per cent.

(c) Gymnastics. In the Gymnasium, I was delighted beyond measure. The hall is a large and thoroughly equipped building, and, under Mr. Padden's direction, a class of about thirty girls went through their marching evolutions and their Indian club exercises. The precision, grace and beauty of this work I shall never forget. This was followed by a number of athletic feats of agility and strength on the part of a large class of boys, their performance also reflecting great credit on Mr. Padden.

It was also my privilege to examine the Bible Classes of Miss Moore, Miss Haycock and Miss Messmore, all averaging about 70 per cent., and all carefully instructed.

Miss Haycock also has a class in Reading, in which are a number (12) of very interesting little children, who, in the main, did very well.

l also visited the Kindergarten, conducted by Miss Messmore. It is surprising how much Kindergarten work can be done by the blind. The room was adorned with the beautiful products of the children's skill.

Mr. Truss, the veteran Master of the Trades at the Institute, showed me his boys at work at basket-making, and chair-seating.

Not a few of the students have gained a good start in life by the skill acquired in this Department. Still, I was told machinery has, to a large extent, shut out even the blind from this resource, and less of this work is taken than formerly, with a view to earning a livelihood.

On the last day of my visit. I attended the opening exercises in the College Hall, where the whole body of pupils and teachers assemble a little after eight every morning for the opening religious exercises. It is a very beantiful and spacieus room, or, rather, Hall, with a wide dais, at the back of which is a magnificent organ. The solemn bearing of the children, their excellent discipline, the elegance of the service, conducted by the Principal, and the thrilling melody of the chants and hymns, under the direction of the organist, were very impressive. Music and devotion are very important elements in the lives of those young people.

"An infant crying in the night. An infant crying for the light, And with no language but a cry."

In conclusion, I heartily thank the Principal and the teachers and other officers for their kindness to me during my visit.

Respectfully submitted,

Your humble servant,

J. J. WADSWORTH, P. S. Inspector, Co. Norfolk.

Simcoe, June 9th, 1902.

REPORT ON MUSICAL INSTRUCTION.

T. F. Chamberlain, Esq., M.D., Inspector of Public Institutions:

Sir.—The Musical Department of the Ontario Institution for the Blind. Br entford, was examined by me on June 3rd and 4th, 1902. The number of pupils studying music is 53, and each student was heard separately. The examination was conducted under the following heads : Theory of music. (including Harmony), Counterpoint and Musical History, Piano, Organ, Senior and Junior Choral Classes, and Congregational Singing. The class in Piano Tuning was also examined.

Two papers were set for the Theory classes, with the result that all of the pupils in the Senior class obtained more than 75 per cent. of the marks, and, of the pupils in the Junior class, two obtained 75 per cent, and over; two "6 per cent, and over, and only one under 50 per cent, of the marks obtainable. The class in Musical History was given an oral examination on their year's work, and the questions were fairly well answered by most of the members of the class. From the above statement, it will be seen that the Theory classes are in a satisfactory condition.

In Piano Playing, the work of the pupils was, on the whole, very good, showing careful work and good methods on the part of the teachers. The classes are divided into five grades, with sub-divisions. The three pupils in the highest grade play excellently; and through all the grades there were found several talented students, whose progress was being carefully looked after. The Junior pupils are being given the necessary attention with regard to their touch and ear training—a most important matter for young players.

The playing of the pupils in the Organ class is generally good. One of them has a good command of the organ key-board, and two of the junior pupils give promise of becoming good players.

The singing of the Choral Classes was quite good, and, in the Senior class, the parts are better balanced than they were last year. The fresh ness and brightness of the girls' voices was noticeable. The Junior Choral Class answered the rudiments questions very well and sang two or three two-part songs with much spirit.

The Congregational Singing of the students at the morning devotional exercises was hearty and bright.

The work of the Class in Piano Tuning was examined, and found most satisfactory. This important department of the institution is being well cared for by its capable instructor, Mr. Hayter.

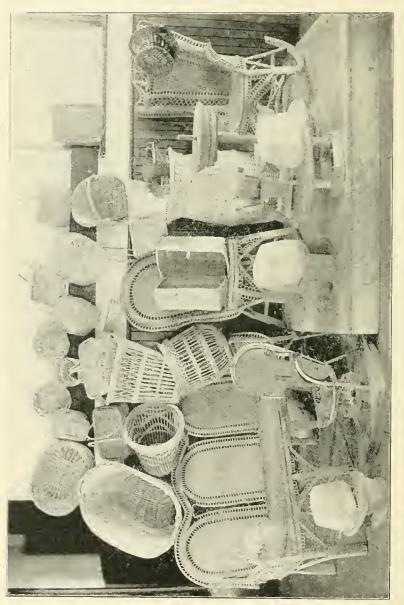
From the foregoing, it would, perhaps, appear that there might be a desire to flatter the work of the Musical Department of the Institution for the Blind. Such is not the case. An inspection only shows the careful attention which the Music Classes are receiving at the hands of their instructors. It will be readily understood that in an institution of this kind, the standard of excellence will vary from year to year, according to the amount of individual talent possessed by the pupils. While the number of talented pupils may or may not be as large as that of previous years, there is no doubt but that these pupils are being properly trained; and the other pupils, less taleuted, are being carefully taught. One thing which is very noticeable—and, perhaps, more so than in the case of sighted people---is the very evident pleasure and delight which the study of music affords to the blind students.

1 have the honor to be, Sir,

Your obedient servant,

Toronto, July 26th, 1902.

W. E. FAIRCLOUGH.



WILLOW WORK.

ONTARIO INSTITUTION FOR THE BLIND.

STATISTICS FOR THE YEAR ENDING 30TH SEPTEMBER, 1902.

1. Attendance.

	-			Male.	Female	Tot
		-	-		14	3
tendanc	e for portion of year	ending Sept	tember 30, 1872	20 44	24	6
	for year ending 30	th Septembe	1873 1874	66	46	11
4.6	6.6	6.6	A () = X	89	50	13
	1.	* 4	4.0 514	84	64	14
	4.6	6.6	8 O 8 8	76	73	14
+1	63	6.5	1070	91	84	17
	**	6.	1879	100	100	20
6.4			1880	5	93	19
6.	6.	6.6	1881	103	98	20
	6.6	4.5	1000	91	73	Ĩé
6.6	6.6	6.6	1.000	88	72	16
6.6	6.6	6.6	1004	71	69	1.
6.	6.6	6.2	1.00*	86	74	16
6.0	6.6	6.6	1000	93	71	16
	6.0	6.4	1005	93	62	12
	**	6.6	1887	94	62	12
6.6	• 6	6.6	1889	99	58	10
6.6	6.6	6.6	1.001	95	69	1
5.6	6.6	6.6	1890	91	67	18
	6.6	6.6	1003	85	70	1
. 6	• 6	6 4	1892	90	64	i
6.5	6.6	6.6	1894	84	66	1
* *	6.6		1895	82	68	1
6.6	66	6.5	1896	72	69	1.
5.6	6.6	6.6	1007	76	73	1.
63	1.6	6.6	1897	74	73	1.
66	6.6	6.6	1000	77	71	1
6.6	6.6	6+	1900	77	67	1
6.6	6.6	6.6	1901	72	66	1
66	6.6	6.6	1902	68	70	1

II. Age of pupils.

No.

10

 $\begin{array}{r}
 7 \\
 13 \\
 8 \\
 9 \\
 1 \\
 2 \\
 4
 \end{array}$

14 138

• • • • • • • • • • • • • •

		No.	
Five Six Seven Eight Nme Ten Eleven Twelve Thirteen Fourteen Fifteen Sixteen	years	2 2 4 1 3 8 7 9 6 8 11 8	Seventeen years Eighteen " Nmeteen " Twenty-one " Twenty-one " Twenty-two " Twenty-three " Twenty-fore " Twenty-fore " Over twenty-five years Total

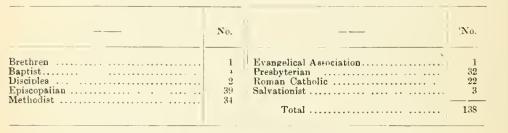
[25]

THE REPORT OF THE

III. Nationality of parents.



IV. Denomination of parents.



V. Occupation of parents.

Accountant 1 Huckster 1 Agents 1 Laborers 25 Bank Manager 1 Marble-workers 25 Bank Manager 1 Machinist 25 Bark Manager 1 Marble-workers 125 Bricklayee 1 Marble-workers 125 Blacksmiths 1 Merchants 26 Butchers 1 Marble-workers 12 Carpenters 5 Physiciana 14 Cheesemaker 1 Painters 42 Clergyman 1 Printer 14 Cooper 1 Plumber 14 Cook 1 Policeman 14 Cook 1 Policeman 15 Cook 1 Soda Water M'fr 15 Cobinet-maker 1 Soda Water M'fr 15 Drover 1 Stone-masons 16 Farmers 42 Repairer 16 Farmers 42 Repairer 16 Farmers		No.		No,
Government officers	Agents Bank Manager Bricklayec Blacksmiths Butchers Carpenters Cheesemaker Clergyman Cooper Cook Carriage-builder Conductor Cabinet-maker Drover Farmers Fireman Fisherman Foreman Gardeners Govermument officers	1 1 1 1 1 1 1	Laborera	$ \begin{array}{c} 1\\25\\1\\2\\6\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\1\\4\\4\end{array}$

26

VI. Cities	and	counties	from	which	pupils	were	received	during	the	official	year	ending
				30tl	n Septe	mber,	1902.					

County or city.	Male.	Female.	Tctal.	County or city.	Male.	Female.	Total.
District of Algoma City of Belleville	1 3 1 2 3 1 1 3 2 1 2 2 2 2 2 2 1 	3 1 1 2 7 1 2 7 1 1 2 3 1 2 2 3 1 1 2 2 7 1 2 7 1 2 7 1 2 7 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 1 1 1 1 	4 1 4 3 2 1 5 8 2 1 5 2 2 1 5 2 2 1 5 2 2 1 5 2 2 1 5 2 2 1 5 2 2 1 5 8 3 2 2 1 5 8 3 2 2 1 5 8 3 2 2 1 5 8 3 2 2 1 5 8 3 2 2 1 5 8 3 2 2 1 5 8 3 2 2 1 5 8 3 2 2 1 5 8 3 2 2 1 5 8 3 2 2 1 5 8 3 2 2 1 5 8 3 2 2 1 1 5 8 3 2 2 1 1 5 8 3 2 2 1 1 5 8 3 2 2 1 1 5 8 3 2 2 1 1 5 8 3 2 2 1 1 5 8 3 2 2 1 1 5 2 1 1 5 8 3 2 2 1 1 5 8 3 2 2 1 1 5 2 1 1 1 5 8 3 2 2 1 1 1 5 2 1 1 1 1 1 1 1 1 1 1 1 1 1	District of Nipissing County of Norfolk. "Northumberland. "Northumberland. City : f Ottawa County of Oxford "Peel. "Perth Peterborough "Prince Edward. "Prince Edward. "Prince Edward. "Prince Edward. "Renfrew "Renfrew "Renfrew "Russell. City of St. Catharines "St. Thomaa "St. Thomaa "St. Thomaa "St. Thomaa "Straiford County of Simcoe "Stormont City of Toronto. County of Victoria "Waterloo "Waterloo "Waterloo "Waterloo "Vellington "Wellington "Wellington "York "Quebec North-West Territory Manitoba "British Columbia	$ \begin{array}{c} 1 \\ 2 \\ 1 \\ 8 \\ 2 \\ 1 \\ 2 \\ 2 \\ 1 \\ 2 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 2 \\ 2 \\ 1 \\ 2 \\ 2 \\ 1 \\ 2 \\ 2 \\ 1 \\ 2 \\ 2 \\ 1 \\ 2 \\ 2 \\ 1 \\ 2 \\ 2 \\ 1 \\ 2 \\ 2 \\ 1 \\ 2 \\ $	1 3 2 3 1 4 4 1 2 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 	$\begin{array}{c} 3 \\ 5 \\ 3 \\ 3 \\ 4 \\ 4 \\ 3 \\ 6 \\ 6 \\ 1 \\ 2 \\ 1 \\ 2 \\ 4 \\ 4 \\ 1 \\ 1 \\ 1 \\ 3 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 2 \\ 1 \\ 1 \\ 2 \\ 3 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1 \\ 1 \\ 2 \\ 1 \\ 1$
County of Middlesex District of Muskoka	$\frac{2}{1}$	4	6 1	Total	77	67	144

* On payment

VII.—Cities and counties from which pupils were received from the opening of the Institution till 30th September, 1902.

District of Algoma 4 4 8 County of Haldimand 4 5 9 City of Belleville 3 1 4 "Halton 6 3 9 County of Brant 7 7 14 City of Hamilton 13 17 30 City of Brant 15 10 25 County of Hastings 5 4 9 County of Brance 8 11 19 "Huron 10 10 20 "Carleton 2 1 3 City of Kingston 7 4 11 "Dufferin 2 1 3 County of Kent 9 5 14 "Dundas 3 6 "Lambton 13 5 18 "Dunham 3 4 7 "Leeda 12 4 16	County or city.	Male.	Fem Me.	Total.	County or city.	Mal	Female.	Total.
"Elgin 6 6 12 "Lanark 2 4 6 "Essex 9 20 29 "Lennox 4 1 5 "Frontenac 5 2 7 "Lincoln 3 3 6 "Glengarry 8 1 9 City of London 10 9 19 "Grenville 2 2 4 District of Nipissing 3 6 "Grey 9 12 21 County of Middlesex 9 12 21	City of Belleville County of Brant City of Brantford County of Bruce. "Carleton "Dufferin "Dundas "Dunham "Elgin "Elgin "Essex "Frontenac "Glengarry "Grenville	7 15 2 2 3 3 6 9 5 8 2	$ \begin{array}{c} 1 \\ 7 \\ 10 \\ 11 \\ 1 \\ 3 \\ 4 \\ 6 \\ 20 \\ 2 \\ 1 \\ 2 \end{array} $	$ \begin{array}{r} 4 \\ 14 \\ 25 \\ 19 \\ 3 \\ 6 \\ 7 \\ 12 \\ 29 \\ 7 \\ 9 \\ 4 \\ \end{array} $	"Halton City of Hamilton County of Hashings. "Huron City of Kingston County of Kent. "Lambton "Leeda "Lanark "Lennox "Lincoln City of London District of Nipissing	$ \begin{array}{r} 13 \\ 5 \\ 10 \\ 7 \\ 9 \\ 13 \\ 12 \\ 2 \\ 4 \\ 3 \\ 10 \\ 3 \end{array} $	$ \begin{array}{r} 17 \\ 4 \\ 10 \\ 4 \\ 5 \\ 5 \\ 4 \\ 4 \\ 1 \\ 3 \\ 9 \\ 3 3 3 3 3 $	

VII.—Cities and counties from which pupils were received from the opening of the Institution till 30th September, 1902.—Continued.

County or city.	Male.	Female.	Total.	County or city.	Male.	Female.	Total.
County of Norfolk		99992991 8322 11221 10	$18 \\ 12 \\ 16 \\ 18 \\ 15 \\ 3 \\ 11 \\ 14 \\ 8 \\ 3 \\ 13 \\ 4 \\ 3 \\ 5 \\ 4 \\ 21$	County of Stormont City of Toronto County of Victoria "Waterloo "Welland "Wellington "Wellington "Wentworth "York * Province of Quebec * North-West Territory * United States * British Columbia * Manitoba Total	4 1 1 1	· 34 2 4 4 8 8 8 16 1 1 326	5 85 10 14 10 18 16 33 5 2 1 1 1 748 748

* On payment.

VIII.—Cities and counties from which pupils were received who were in residence on 30th September, 1902.

	_					
County or city.	Male.	Female	Total.	County or city.	Male.	Fomale.
District of Algoma City of Belleville County of Brant City of Brantford County of Brantford County of Bruce "Carleton "Dufferin "Dufferin "Dufface "Elgin "Elgin "Elgin "Elgin "Elgin "Elsex "Frontenac "Glengarry "Grenville Grey City of Guelph County of Haldimand "Halton City of Hamilton County of Hastings "Lamark Lenoox "Lamark "Lenoox	3 1 1 2 2 2 1 2 2 1 2 2 1	3 2 6	3 6 3 2 6 1 1 5 2 2 3 2 1 1 5 1 1 2 1 1 2 1 1 	District of Muskoka "Nipissing Countý of Norfolk "Ontario City of Ottawa Couoty of Oxford "Peel. "Peel. "Peeth. "Peterborough "Prince Edward. "Prince Edward. "Prince Edward. "Renfrew "Russell City of St. Catharines "St. Thomas. "St. Thomas. "Wasterloo "Welland. "Wellington. "Wellington. "Wentworth. "York British Columbia. Quebec	1 2 1 1 2 1 2 1 1 2 1 6 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 2 1 1 1 2 1	$\begin{array}{c} \dots & 1 \\ 1 & 3 \\ 2 & 3 \\ 2 & 1 \\ 1 & 3 \\ 1 & 1 \\ 1 & 1 \\ \dots & 1 \\ \dots & 1 \\ 2 & 3 \\ \dots & 1 \\ 2 & 3 \\ \dots & 1 \\ 1 & 2 \\ \dots & 1 \\ 1 & 2 \\ \dots & 1 \\ 1 & 1 \\ 1 & 1 \\ 1 & 3 \end{array}$
"Lincoln City of London City of Woodstock County of Middlesex	2 1	2 4		Manitoba	52	55 107

Maintenance expenditure for the year ending 30th September, 1902; compared with preceding year.

			rag	e No. ls, 118.	of	30th September, 1902. Average No of pupils, 111.					
Item,	Service.	Expenditure 1901.		Yearly cost per pupil, average 118.	Weekly cost per pupil, average 118.	Expenditure 1902.	Yearly cost per pupil, average	i www.inter.	Weekly cost per pupil, average 111.		
			c.	S c	c. m.	c.		3.	c. m.		
• 1	Medicine and medical comforts	167	51	1 42	2 7	82 53	7	4	14		
2	Butcher's meat, fish and fowl	1,769	75	14 99	28-8	1,612 91	14 5	3	28		
3	Flour, bread and biscuits	491	53	4 06	8.0	5 20 98	46	9	90		
4	Butter and lard	1,028	09	8 71	16 7	985 73	8 8	s	17		
5	General groceries	1,452	27	12 30	$23 \ 7$	1,391-20	12 5	3	24 1		
6	Fruit and vegetables	231	98	1 96	37	291 22	2^{-6}	32	50		
7	Bedding, clothing and shoes	513	05	4 34	8 3	449-93	4 0)5	78		
8	Fuelwood, coal and gas	3,437	09	$28 \ 12$	56 0	*136 40	1 2	2	$2 \ 3$		
9	Light-electric and gas	910	63	7 71	14-8	727 99	65	6	12 6		
10	Laundry, soap and cleaning	306	69	2 59	4.9	316 86	2 8	35	54		
11	Furniture and furnishings	352	43	2 98	57	504 54	4 5	1	87		
12	Farm and garden-feed and fodder	624	70	5 29	10 1	70 0 56	63	1	12 J		
13	Repairs and alterations	661	42	5 60	10 7	936 85	8 4	4	$16\ 2$		
14	Advertising, printing, stationery and postage	604	94	5 12	98	643 39	57	9	11 1		
15	Books, apparatus and appliances	619	50	5 24	10 0	1,158 45	10 4	3	20 0		
16	Miscellaneous-unenumerated	1,126	84	9 54	18 3	1,204 58	10 8	5	20 8		
17	Pupils sittings at churches	224	00	1 94	3 3	200 00	1 8	0	34		
18	Rent of water hvdrants	160	00	1 35	26	160 00	14	H	27		
19	Extra water supply	113	20	95	18	123 08	11	0	20		
20	Salaries and wages	17,621	68	149 33	287 1	17,080 78	153 8	8 2	295 9		
		32,417	30	274 72	528 3	29,227 98	263-3	1	506 4		

* No coal as yet delivered.

Certified correct,

W. N. HOSSIE,

Bursar.

30th September, 1902.

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THIRTY-SECOND ANNUAL REPORT

UPON THE

ONTARIO INSTITUTION

FOR THE

EDUCATION OF THE DEAF AND DUMB BELLEVILLE

BEING FOR THE YEAR ENDING 30TH SEPTEMBER

1902

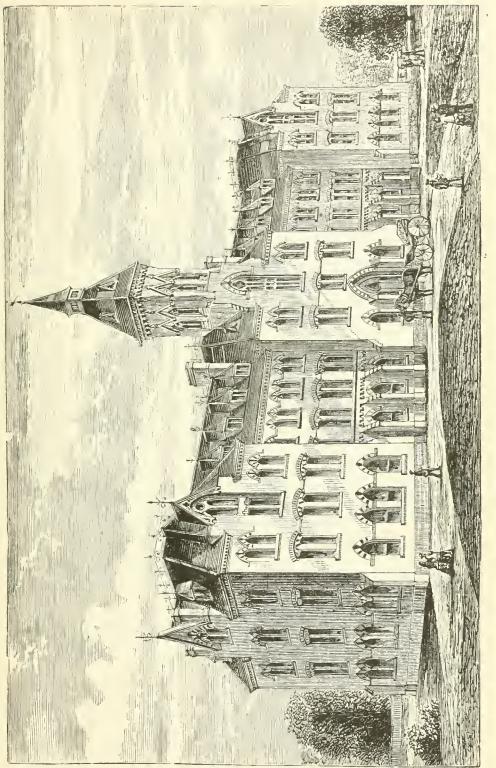
PRINTED BY ORDER OF THE LEGISLATIVE ASSEMBLY OF ONTARIO.



TORONTO; PRINTED AND PUBLISHED BY L. K. CAMERON, Printer to the King's Most Excellent Majesty 1903



TORONTO: WARWICK BRO'S & RUTTER, PRINTERS.



ONTARIO INSTITUTION FOR THE DEAF AND DUMB, BELLEVIELE.

Parliament Buildings,

Toronto, November, 1902.

Sir,—I beg to transmit the Thirty-Second Annual Report npon the Institution for the Education of the Deaf and Dumb, at Belleville, for the year ending 30th September, 1902.

I have the honor to be, Sir,

Your obedient servant,

T. F. CHAMBERLAIN,

Inspector.

The Honorable J. R. Stratton, M.P.P., Provincial Secretary.

Ł

Parliament Buildings,

Toronto, November, 1902.

To the Honourable Sir Oliver Mowat, Knight Commander of the Order of St. Michael and St. George, Member of the King's Privy Council for Canada, and Lieutenant-Governor of the 'Province of Ontario:

May it Please Your Honor:

I have the honor to submit herewith the Thirtieth Annual Report upon the Institution for the Education of the Deaf and Dumb, at Belleville, for the year ending 30th September, 1902.

> J. R. STRATTON, Provincial Secreary.

THE INSTITUTION

FOR THE

EDUCATION OF THE DEAF AND DUMB.

In submitting the Thirty-Second Annual Report, I am pleased to be able to state that the past year has been one of progress. The number of pupils for the year 1901-2 was 253, ranging from 7 years to 20 years of age. Every county and district in the Province has furnished its quota of pupils to this Institution. The present session opened with 250 pupils, 33 of whom had not attended the school before. The pupils, as a whole, are diligent, attentive to their studies, and well behaved; no better class of pupils can be found in any of our Public Schools. The Inspector of Public Schools for the County of Peterborough, who made the annual examination of the pupils, highly complimented them on their attainments, and the teachers and officers of the Institution on the thoroughness of the work done by them during the year.

While every care has been taken by the teachers to advance the pupils in their literary and industrial work, their moral training has not been neglected. Every day the school is opened and closed with religious exercises, and on the Sabbath the pupils attend the various churches in the city, as well as services in the chapel of the institution. The industrial work taught includes carpenter work, shoemaking, baking, printing, barbering, and the Sloyd system of manual labour, drawing, making models, etc.

In addition to their literary work, the girls are instructed in sewing, knitting, fancy work, and domestic science, the latter branch having been established this year. The pupils who have graduated from this school in past years, are, with scarcely an exception, making a good living for themselves and their families.

The health of the pupils has been very good during the year, as will be seen by Dr. Goldsmith's report. The report of Mr. Mathison, the Superintendent, gives very interesting statistics, and other information in connection with the institution, and is well worth a careful perusal. During my official visits, I have had full opportunity to see the pupils at their work in the class-rooms, and also in the chapel, the dining-room, and during their recreation, and have been greatly pleased with their deportment, their attention to their studies, and the excellent feeling existing between them and their teachers, as well as the strong attachment manifested toward the Superintendent.

The farm work has been well done during the year, and the yield of crops has been greater than in past years. The farming implements have been properly cared for, and the live stock is in good condition. All the outbuildings have been painted during the summer vacation, and the usual repairs made. The Superintendent's office contains the files and all papers connected with the history of the pupils, and other matters pertaining to the institution. The Bursar's office and store are always found in good order. The expenditure during the past year was \$42,962.76, making the average cost per pupil \$169.81.

The requirements for the coming year will not materially differ from last year.

The report of Mr. Michael O'Brien, Inspector of Public Schools for the County of Peterborough, who made the annual examination of the pupils, shows the standing of every class, and is very flattering to the pupils, as well as to the teachers. There is nothing special to note in connection with Dr. Goldsmith's report as to the health of the pupils and officers of the institution during the year.

As to the request made by some of the ex-pupils in the resolution passed at the Convention of Deaf Mutes held in London, and the recommendation of the Superintendent, that this Institution should be placed under the management of the Minister of Education, instead of the Provincial Secretary, I have to say that the reasons given for making the change do not now exist, nor have they for some years. There is nothing in the Annual Report to suggest or indicate that either this Institution or the Institution for the Blind, at Brantford, is in any way classed with asylums. homes, or charitable institutions, and they are managed by the Provincial Secreary as a matter of convenience. Both of these Institutions are wholly maintained by the Province, which is not the case with any of the common schools under the supervision of the Education Department. The Institutions for the Deaf and Dumb, and the Blind, have separate annual reports, giving full details of their management; their classes are exam ined yearly by County School Inspectors in the same way, and on the same subjects, as hearing and seeing children. It will be noticed that those who advocate the change do not suggest any change in the duties now performed by the Superintendent, officers or teachers, or that the coprse of study pursued or method of imparting instruction is not the best, in the interest of the pupils, that could be devised. They do not ask for, and, I believe, they do not desire, any change in these matters, or in respect to the industrial training given to the pupils, and which is of very great importance to them in after life; this latter the children attending the common schools do not receive. Do the pupils, ex-pupils, and all who have been, and are, connected with this Institution desire to do away with the present Annual Report, which contains so much of interest, not only to themselves, but to the public at large, and which is distributed amongst similar institutions all over the continent, and accept instead a bare mention with the other schools of the Province in the Annual Report upon schools issued by the Minister of Education? This Institution has been thirty two years in existence, and ranks as one of the best schools on the continent as to management, method of teaching, and the subjects taught. Had you not better think this matter over with a little more care before advocating a change which you may regret.

I thank the Superintendent, teachers, officers and employees for the kindness and courtesy shown me when making my inspection of the institution.

T. F. CHAMBERLAIN,

Inspector.

REPORT OF THE SUPERINTENDENT.

Belleville, Ont., 30th September, 1902.

Dr. T. F. Chamberlain, Inspector of Public Institutions, Toronto, Ont .:

Sir,—It again becomes a pleasurable duty to present the Annual Report of this Institution—the thirty-second—for the year ending the 30th September, 1902.

When our school closed in June last, and the pupils were sent to their homes for the vacation, there was a general feeling amongst teachers and officers that good, conscientious work had been done during the term, and that the session had been a successful, and, in many respects, a pleasant one. The very full paper of the Literary Examiner, Mr. M. O'Brien, which forms an appendix of this Report, gives the work of the institution in a favorable light, and is all the more valuable from the fact that a little son of his is a pupil in the school. His parental love would lead him to enquire thoroughly into the system and methods of instruction, and thereby judge of the results likely to be obtained. In his address to the pupils before leaving, Mr. O'Brien, among many other good things, made use of the following words : "I don't care how much boys and girls may know, it does "not matter how much knowledge and literary attainments they may have, "if they have not learned to be useful they are not much good." This is a text from which might be preached a long homily, for those words express what has come to be regarded as the central idea in modern educational methods. Time was when mere linguistic and literary attainments were regarded as the great desideratum—the chief, if not the only, end of instruction-and technical training was looked upon as degrading and repugnant to right conceptions of true education. But the world moves, and in this practical age the main object of education is to teach boys and girls to be useful, to give them such instruction and training as will best enable them to earn a livelihood, and to wish for and attain to the greatest possible success in life. So far as opportunities permit, we have endeavored at this institution to keep in view and carry into effect the two-fold purpose of education, viz.: thorough mental training and as great literary acquirements as is possible, combining the useful and the practical. Many of our boys, in addition to the ordinary school work, are taught various trades,-printing, shoemaking, carpentering, baking and barbering; the girls are made conversant with tailoring, dressmaking, plain and fancy sewing, and with every kind of housework. Each boy and girl, if physically able, is required to take his or her time in various kinds of helpful work on the farm or garden, or in the kitchen, dining-room and laundry. In every department of our work the development of character, the instilling into the mind of every pupil the principles of probity, industry and perseverance, is always kept prominently in view, as an all important feature. A couple of years ago we opened a Manual Training Shop,-one of the best equipped in the Province-which has proved a great success. It is in charge of a competent instructor, trained in the best manual schools of Great Britain and Sweden, and we take no little pride in the reflection that we are the pio neers of this work in Ontario. As soon as our plans relative to manual training had materialized for our boys, our attention was next directed to Domestic Science for our girls. Our expectations have been realized, and our Domestic Science Department is now in full operation, under the management of Miss H. H. Gowsell, a graduate of the Normal School of Domestic Science at Hamilton, from whose competent and skilful guidance we anticipate a very gratifying measure of success.

BIENNIAL CONVENTION OF GRADUATES.

The eighth Biennial Convention of the Ontario Deaf Mutes' Convention was held on June 14th to 17th in the rooms of the Young Men's Christian Association Building, at London, and it was a most pleasant, interesting and successful convention in every respect. It was the first time the meeting had ever been held so far east or west from the centre of the Province, and the selection of London was regarded as a hazardous experiment, but the attendance was quite as large as usual, despite the long distances many of the members had to travel. The members of the association are not selected delegates, whose expenses are paid by the bodies they represent. but each member present must attend on his or her own initiative, and each one must pay his or her own way. The fact that some two hundred deaf ladies and gentlemen-about one out of every six deaf persons in Ontario -were able to go from all parts of the Province, and pay their own way, is strong evidence of the independence and prosperity which characterize them as a class. The proceedings, as usual, were devoted to discussions of various matters of interest to themselves, especial emphasis being given to the very great importance of the deaf continuing after they left school, by systematic courses of reading, literary societies and other methods, the educational processes there begun. Preliminary steps were also taken, which it is hoped will lead to the appointment of an itinerant clergyman to travel from place to place, and hold religious services at stated regular periods. The Convention was distinguished from previous ones by the many courtesies extended and the warm sympathy manifested towards the deaf by the citizens. His Worship, Mayor Beck, greeted the Association with hearty words of welcome at the opening session, and invited all the members and their friends to spend an afternoon at Springbank Farm as his gnests. At every session, and especially every evening, large numbers of hearing persons were present, and manifested a keen interest in the proceedings, and all of them expressed their surprise and delight at seeing such an intelligent, wide-awake, happy and prosperous-looking body of people, who were able to conduct their proceedings with as much decorum and to carry on their discussions as freely, easily and as intelligently as could hearing people. In recognition of this general courtesy and interest. the last evening of the Convention was devoted to a public exemplification of the Sign Language and other methods of expression employed by the deaf. The hall was well filled by hearing people, who witnessed with unwearied delight an interesting programme of hymns, pantomimes, etc., all given in the sign language, which was vocally interpreted to the audience. Several churches also manifested their interest by inviting some of the deaf to visit their Sunday schools and other services and render hymns in the graceful sign language. These exemplifications were all gladly given, not as mere curious exhibitions, but from a sincere desire on the part of the Association to give hearing people a truer conception of the capabilities of the deaf, and to remove some of the erroneous impressions that prevail. All who come into intimate association with the deaf learn to entertain for them sentiments of the warmest respect and admiration, but the great mass of the people are ignorant of their true character, and mentally class them with other defectives. The intelligent deaf welcome every opportunity to dissipate this false impression and let people see and judge for themselves that they are in every good quality of mind and heart in no respect inferior to hearing people.

1902

NOT AN ASYLUM OR PLACE OF DETENTION, BUT A SCHOOL FOR THE DEAF AND DUME.

During the meetings of the Legislature last session, when the Estimates for this Institution were under discussion, the Honorable J. R. Stratton, Provincial Secretary, remarked that the placing of the Institution under the Department of Education was a matter that might fairly be considered. The more intelligent deaf and dumb persons in the Province have at various times desired that the Institution should be put under the Department of Education; this has been in their minds for a number of years past, and this view has been urged upon me from time to time, and, I must say, with a good deal of justice in the contention. In my Annual Report of 1890, in referring to the Institution, 1 said: "It is, in every respect, a school, where " a practical system of education is adopted, and where the pupils are trained "in scholastic and industrial pursuits. It is in no sense a charitable institu-"tion, neither is it an asylum. Should it not, therefore, be placed where it "properly belongs-under the Educational Department of the Government? "We think we have the same right to such a classification as the Agricultural "College or Upper Canada College. It is because we are sensitive of the "inferior status accorded us by the present arrangements, and the incon-"sistent interpretations placed upon our work and merits, that I suggest " a change. We want to be recognized as a school, and not as a prison or "charitable institution. Such a recognition would give us a higher, and " certainly a more reasonable, status, among similar institutions of this and "other countries." By the laws of the Province, the deaf are virtually classed with the insane, imbeciles and criminals. Every kind of educational institution in Ontario is under the administration of the Department of Education, except those for the deaf and the blind, and these are placed in another department, which has charge of the asylums and penal institutions. Our institution is subject to the same regulations and inspectorate as the gaols and asylums. The deaf, the large majority of whom are quite as intelligent and cultured, and whose feelings are quite as sensitive as those of other people generally, feel this incongruity very keenly. Every two years our graduates have a Convention somewhere in the Province, and usually about two hundred of them gather from the various counties near the place of meeting-Toronto, Grimsby Park. Belleville, and in June last Loudon was favored, as noted heretofore. Altogether some five or six hundred deaf persons belong to the Association. At the London meeting, those assembled gave formal expression to their feelings by adopting unanimously the following resolution: "That we protest against the classification of the deaf with the insane, the criminals, and the objects of charity."

Some of our graduates have written me endorsing the action of the meeting—one only dissents from the conclusion arrived at. Extracts from their letters are herewith submitted:

A former male pupil, in Toronto, writes: "At the Convention held in London, amongst other resolutions, one was passed protesting against the deaf being placed in the same class with the insane, indigent and criminal, in charge of the Ontario Government. No doubt, the classifying of the deaf with the insane and criminal arises from a misconception of the capabilities of the former in the life of usefulness and good citizenship. But the world moves on, and it will not be long before justice is done to us. Being educated, we are enabled to take a hand with the hearing in the march of civilization and the development of general prosperity and

THE REPORT OF THE

happiness. Everyone graduating from your school can be found working in different vocations, giving satisfaction to their employers. As to their worth and work, quite a number of them are married and own happy and comfortable homes in Toronto. They pay taxes just as hearing property owners do, and exercise their suffrage for good government, civil and political. Some of them have hearing children, and send them to the city schools, thus supporting the cause of education. In the city, we have societies and clubs of our own, notable among which I may mention the Maple Leaf Reading Club, the Brigden Club and the Dorcas Sewing Society. We have also Bible Classes, sending some members out to give help and encouragement to their brethren in adjacent cities and towns. We are not less loyal and patriotic than our hearing fellows in the defence of our country, and in our allegiance to Ilis Majesty the King. Mr. Mathison, have we not done very well, considering the limitations of educational work at your school ? Would some of us not have developed our minds wonderfully, and then filled better positions with ability and credit, had higher classes been established at your school, under the control of the Education Department of the Ontario Government? Surely that Department would take your school under its fostering care, and found there a High School or a Collegiate Institute, thus doing full justice to all. We must insist on the recognition by the Government of our just demand for higher education, and for our place under the proper department, to be separated from the insone and criminal-which are a danger to society."

A girl graduate, now happily married and living in Windsor, says: "Just a few words regarding the resolution passed at our late Convention, in London, protesting against our being classed with the insane, criminal and indigent classes. I am sure that we have long since proved that we do as much for the good of the world as mankind in general, that we are well able to take care of ourselves and carve out our own way, and that it is an insult to thus class us. However, this is an enlightened age, and the majority of intelligent persons have begun to recognize us at our true worth. Is there, after all, so very much difference between deaf and hearing persons? An educated deaf person is nearly always able to grasp a thing, while the other party is figuring it out. When I see in the papers that the 'Department of Public Charities,' at Toronto, is advertising for supplies for the 'Institutions for the Deaf and Dumb, the Blind and Feeble-Minded,' it makes me feel cheap. I think it is quite time our school was placed in charge of the Educational Department of Ontario. Don't you agree with me there? We would have better educational advantages than we now enjoy. I am sure that we are not rightly categorized as we now stand. Our young men are among the steadiest, soberest, most industrious and intelligent in Canada, and as for our girls, they are ladylike, intel-ligent and modest. This is a matter in which I am very much interested, not only as a deaf person, but as a graduate of your very excellent Institution. I wonder what would have become of me if you had not taken me in and educated me, after I was denied admittance at the Public Schools on account of losing my hearing. I hope this letter will have some effect in the right direction."

A successful business man in Brantford, who passed through the Institution a number of years ago, remarks: "There was one matter brought up at the Convention in London, which I hope will be brought to the attention of the Government of the Province. I refer to the resolution passed pro testing against the Institution for the Deaf being classed with the insane and criminal institutions. I know you have the welfare of the deaf under you, and those who have attended the Institution, at heart, and I hope you will use your influence to have this stigma removed, and have the Government place, at least the Educational work of the Institution, under the Educational Department of Ontario. 1 am sure the members of our Legislature would be in favor of such a change if they were aware of the injustice that is being done a large number of independent and self-respecting graduates of the Institution."

An energetic farmer and stock-raiser, living near Ottawa, remarks: "As you are aware, at nearly every Convention of the Deaf there has been a resolution passed protesting against the Educational Institution for the Deaf being classed as an Asylum or Charitable Institution, which we do not think is just to us, as only a very small percentage of the deaf are edueated and clothed at the expense of the Government. While, to those persons not familiar with the deaf, the deaf are classed as paupers or imbeciles, as the name asylum implies, and as the Inspector is also Inspector of Prisons and Charitable Institutions, it gives also a false position to the deaf, who are as much entitled to an education as any other class; therefore, I think it only fair to the deaf that the Government should place the Institution under the Honorable Minister of Education, to whom, I think, it properly belongs, and who, 1 am sure, could give it the same intelligent management that has given the Outario Endcational system a foremost place in the civilized world. As I have said, resolutions have been passed protesting against the present position of the Institution of the Deaf and Dumb, which places us in the same class as paupers, or imbeciles, while we are at school, and the unthinking are apt to think us such, which adds to the already heavy load we have to earry. Resolutions are all right in their way, but unless brought to the notice of those in authority are of little practical use. You, dear sir, have the unbounded confidence of the deaf, and your position as head of the Institution for the Deaf and Dumb gives you an excellent opportunity to judge of the correctness of my remarks. Therefore, I trust you will kindly bring the resolutions of the Convention to the notice of the Government, and give them the support you think best, and in so doing you will receive the warm thanks of the deaf in Ontario."

One of our eleverest graduates, a printer, does not agree with the others, and thus expresses his views: "Referring to the resolution passed at the Convention at London, I am not in favor of it, as, in my humble opinion, the great percentage of the pupils attending the Institution are really supported out of the charity funds of the Province, or the municipality from which they hailed. Taking this fact into consideration, I do not see why the Institution should be taken from under the control of the Department of Prisons, Asylums and Public Charities, and placed under the Department of Education."

In the United States, the same invidious classification formerly existed in all the States, as it vet does in some; but many of the more advanced States have recognized its injustice, and have placed their institutions for the deaf and blind under the same executive administration as their other educational institutions. The Principal of the Virginia School for the Deaf gives his favorable opinion of the change, as follows:

"Since our School has parted company with the eleemosynary institutions, and been legally recognized as part of the Public School system of the State, its true character is becoming more generally known, and the attendance has vastly increased. We do not now have to send out agents to solicit patronage; the trouble is to make room for all who are clamoring for admission. This difficulty will soon be remedied, we trust, by increased facilities. But this elevation of our school to its right position has had a

more far-reaching effect. As long as our institution was classed among asylums and prisons, our pupils were looked upon as dependents, and were often referred to as 'patients' and 'inmates.' This was always mortifying to their sensitive natures, and had a strong tendency to repress aspirations to higher ideals. They felt that they were socially ostracised, as a class, and that there was nothing ahead of them but as 'hewers of wood and drawers of water.' Now since they have been invested with their just rights, they appreciate the dignity of their position, and the possibilities before them, and slnmbering ambition has been aroused. They feel that the way is clear to business success and social elevation, and 'clannishness' is no longer so apparent. Our school has been brought into much greater prominence, and the public generally are taking far more interest in the work that we are doing. Our pupils receive more favorable notice. and many little social courtesies are extended them which have a tendency to sweeten their lives and make them forget that they are in any way different from other people. The effect of the change is strikingly shown in the greater progress made both in the school rooms and in the workshops. Every department is working at high pressure, and the results are most encouraging. This gratifying showing is due mainly to the fact that the tone of the school has been elevated and our pupils inspired with higher hopes."

In Toronto, more especially, the deaf evince a lively interest in many good works, and by meeting together as club and debating society members, improve themselves mentally and morally. As a power for good, the Deaf-Mute Christian Association stands out prominently. Organized many years ago for the non-denominational religious instruction of the deaf, its growing influence has been most encouraging. Commencing with one meeting each Sunday, the work has grown, until now there are three different Sunday morning services held in various portions of the city, and a general meeting of the whole body on Sunday afternoons in the Bible Training School, College Street. The public are heartily welcome at any of the meetings. The meetings are nearly all presided over, and ministered to by deaf lay workers, Mr. J. D. Nasmith, and his assistant, Miss A. Fraser, being the only hearing persons in connection with the mission, and much of its success is due to them. In addition to the Sunday services, weekly meetings are held for Bible study and mutual help. The influence of the Association is not confined to the city; missions have been organized at Hamilton, Brantford, London, Oakville, Berlin, and other places. supplied and ministered to as often as possible by the deaf Christian workers of Toronto. Another power for good has been added during the past three vears,-a Bible Conference during Christmas week,-to which all the deaf from outside places who can come are invited. During three or four days these special meetings go on, the deaf workingmen of Toronto sacrificing much time from their regular employment for the spiritual uplifting of their deaf brothers and sisters from the country.

The Doreas Sewing Society is one of the most effective offshoots from the Toronto Mission. The Society was organized by Miss Fraser three years ago, and the meetings have been successfully maintained since its commencement. The main object of the Society is to arouse the interest and practical sympathy of deaf women in Christian work outside their own homes, and to give them the blessing of realizing that they also have the power to become fellow-workers with God by laboring for the good of others. There has always existed a large measure of the spirit of fellowfeeling and mutual helpfulness amongst the deaf mothers, and the Society has aided much in rendering this spirit more effective, and in enlarging its scope. The Society was founded on the avowed religious principle that the work done should be done for God, and given to man for His sake, and thus be made a means of helping in the growth of a living faith. In arranging for the work, the first thing considered was, how it could be made available in helping the deaf, and where help might be most wisely and efficiently given. Complete outfits of clothing were provided for some deaf children of the poor, who might without this assistance have been delayed from admission to the Institution. Overburdened deaf mothers were helped and not till there was no immediate call from the deaf community was the work extended to make contributions to some of the Canadian Home Missions, contributions that have been gratefully recognized in letters received from the Far North. As home keepers and home workers, in general effectiveness, in skill, in economy and in ready adaptation, the deaf mothers show themselves quite equal to the same number of their hearing fellows. Indeed, it is a doubtful point whether they would not win the palm for the highest average of executive ability.

The promotion of social and literary clubs amongst the deaf, under good auspices and careful regulations, is as fruitful of sterling results as any project that can engage the energies of those who seek to do a little good in the world. In the larger cities the need of such clubs becomes a crying want. By a natural law, the deaf must associate in some way, and if provision is not made for a safe and useful outlet for this strong impulse, it is inevitable that it will, at times, run in ways injurious to character and fertile of evil. Experience of this fact in Toronto led to an effort to start a club that should offer an opportunity, under good conditions, for pleasant intercourse and innocent recreation, and the Brigden Club was organized, several years ago. It was at first a very tentative affair. A small room was rented in a central situation, for three evenings in a week. Chess, draughts, crokinole, and other games were provided, and a ten-minutes' pointed talk was given at the close of the evening. This effort was very incomplete in many ways, but it was sufficient to start the spirit of healthful association, and the following season the deaf young men took hold of the idea in a vigorous fashion. A good committee was got toge-ther, all deaf men in the city drummed up, and a strong society formed with sufficient subscriptions to rent a large room, well warmed and lighted, and open every evening. Newspapers and magazines were provided, and excellent regulations were framed. The club has worked well and harmoniously; there has been plenty of fun and enjoyment. Exclusive devotion to religious activity, however admirable, does not altogether fill the bill, and where there is any number of young men, may, indeed, fail of hest results, in a greater or less degree. The deaf answer as eagerly to the call for mental exertion and improvement as any other class, and to them also it is as fruitful of good. None need more to be taken out of the narrow range of personalities, and to be delivered from that fettering of attention that breeds so many of the smaller evils of social life. After leaving the Institution, unless in very favorable surroundings, the deaf are apt to deteriorate both in mind and character, and it is a tribute to the value and nature of the training there received that when fresh from their Alma Mater they are in the best state to profit by and enter into such a society.

The Maple Leaf Debating Club. organized by the deaf. and banded together for mutual improvement, is an ideal literary club, from which many similar clubs among the hearing might glean valuable pointers. Its leader and originator, Mr. F. Brigden, himself a semi-mute, is devoted heart and mind to lift the deaf to noble aspirations. Earnestness on the part of both teacher and student is essential to success, and in such co-operation the club is gaining excellent results. The club meets every alternate Thursday evening, spending a limit of two hours together with pleasnre and profit. As arranged, two or more of the members are expected to express their ideas on the leading questions of the day, with brief lectures, dialogues or recitations sufficient for one hour, then follows the study for another hour in English History. Among the subjects of lectures delivered last year were: Dickens, the fascinating writer of "David Copperfield" and "Oliver Twist"; Chinese Gordon, the fearless General and devout Christian: Lady Burdett-Coutts, the London philanthropist; and Socrates, the Greek philosopher. Biographic lectures like the above, limited to a time of thirty minutes, took a strong hold on the members, and will be renewed.

In this report will be found half-tone cuts of Officers, Teachers and Pupils of the Institution, the Convention of Graduates at London in June last, the members of the Brigden Club, the Maple Leaf Debating Society and the Dorcas Society.

Deafness in itself is a serious handicap in the great struggle for subsistence, and, being irremedial, it must be, and is patiently endured; but the erroneous impressions created in the public mind by the present classification of the deaf with the insane and criminals, still further enhances the difficulty the deaf have in making their way in the world. This impediment, being easily remediable, should in all justice and kindness be removed. We have no cause of complaint with the manner in which the Institution has been administered by the Department of the Honorable the Provincial Secretary, as at all times we have been treated with the greatest kindness, consideration and liberality, and no change could benefit ns in these respects. This Institution is simply and only a school for the deaf, established for the same purpose, and performing the same functions, as the other free Public Schools in the Province, and I, therefore, respectfully but earnestly urge upon the consideration of the Honorable the Provincial Secretary the desirability of transferring the administration of the Institution to the Department of Education, to which it rightfully and properly belongs.

CENSUS OF THE DEAF IN ONTABIO.

The Census Bulletin recently issued contains information of interest to the deaf. The total number of deaf persons in Canada in 1891 was 4,819, and in 1901 was 6,174. The ratios per one thousand of population were 1,0037 in 1891 and 1.1608 in 1901. In Ontario the number of deaf in 1891 was 1603, and in 1901 it was 2,002, an increase of 399. The proportions per one thousand on these two years were 0.7581 and 0.9171 respectively, the increase being both actual and relative. This is an unwelcome and unlooked for revelation, for it was naturally to be expected that the relative proportion of the deaf would gradually but steadily and surely decrease with the advance of popular knowledge of the conditions that promote or lessen the tendency to deafness, the growth of medical science, and the presumed consequent ability to cope with the diseases that cause a large proportion of the cases of deafness. The increase may only be apparent, consequent possibly on a more accurate enumeration at the last census than at the previous ones, though this is rendered improbable by the fact that the returns show the number of blind people has decreased since 1891.

DOMESTIC SCIENCE AND ART.

Classes in Domestic Science and Domestic Art were formed the last week in September. In the Domestic Science Department there are four classes, in Domestic Art, two classes. In Class I. of Domestic Science there are six pupils, receiving instruction three times each week. As these girls may not return to the Institution another year, they devote more time to this work than the other classes. During the term all will receive instruction in Housekeeping Duties, Plain Cooking, and the duties of Waitresses. All manifest a keen interest in the work, while the progress made in so short a time is gratifying, far beyond what was anticipated. There is every reason to believe that in the future the work of the pupils will compare favorably with that of speaking children. Not only are the pupils receiving instruction in practical work, but they have an opportunity to nse the language already acquired. Questions are written on the blackhoard, the pupils writing the answers. This is not a minor consideration. In Classes II., III., IV., there are twenty-four pupils. These classes are formed from the Public School classes, and receive instruction twice a week. As far as possible, it has been arranged that the time spent in the Domestic Department will not interfere with the regular course of study. The interest shown by these pupils is no less than that of Class I., while their progress is creditable. It would be advisable to have the pupils spend at least three years in this department. This may seem a long period to many, but when we consider that the work is the work for a lifetime, it does not seem too long. Both parents and children would find it a great advantage. The equipment of the kitchen is quite complete, but in order to assist the pupils to adapt themselves to surroundings, the teacher will, at times, place them in a position where the equipment is limited.

In Sewing there are two classes of boys, receiving instruction twice a week (one-half (1-2) hour periods). Class I. is composed of fifteen boys, Class II. of nineteen boys. These will be taught the various stitch forms, as running, basting, etc., mending and the making of various models, in order to practise the stitch forms. They are taught to do all their work neatly and accurately. The interest shown by the boys in their work equals that of the girls in Domestic Science, while the progress is really marked. In these Classes, as in Domestic Science, the course is not covered as quickly as it would be covered by speaking children, but the work, when completed, is well done. We are deeply indebted to Mrs. Hoodless, of the Normal College of Domestic Science, at Hamilton, for her valuable and personal assistance in many ways since we first thought of opening this department a couple of years ago. Miss Watson, of the College, has also been very helpful.

INDUSTRIAL DEPARTMENTS.

The Foreman of the Shoe Shop reports that during the session the pupils have worked steadily, and all except three have made satisfactory progress. Nearly all the other pupils made very good advancement; while the average age is below other years, yet the work has not deteriorated. There has been a continuance of work for the twenty-six boys in the shop, and the orders received from some of the other Institutions has given them a chance for excellent preliminary training for finer and more advanced work, which they have had from time to time.

Several lads graduated from the Printing Office, one or two with a good knowledge of typesetting and press work. One or two others have remained at home, who are not capable of taking a place in an ordinary printing office. Sometimes a boy will get it into his head that as soon as he can set a thousand or two of type in a day that he is a printer, and wants to earn money for himself.

The work in the Barber Shop this year has not been up to that of former years, owing to the fact that but little attention can be paid to the work in that line; notwithstanding, this year several of the young men have improved considerably, and during next session will make further progress.

The pupils in the Manual Training Shop are doing excellent work.

Two of the lads who were in the Bakery last year are now working at the trade outside, and are doing well.

The girls at Tailoring, Dressmaking, Plain and Fancy Sewing, have made excellent progress.

MISCELLANEOUS.

The increased cost of fuel and other necessaries, will necessitate a larger appropriation for our maintenance next year.

The general health has been good during the year, and there were no deaths to record. The Physician's report refers more particularly to this matter.

The publishers of a large number of Canadian papers, and also of the United States, have favored us with their publications, for which we thank them.

The returns from the farm and garden are satisfactory, except in potatoes, which, owing to the extremely wet weather, rotted in the ground to a great extent.

Our Institution re-opened on the 24th inst., with 250 pupils in attendance, and a few more to come. Thirty-three new pupils were admitted for the year closing on the 30th of September.

Officers, Teachers and employees generally, have been loval and anxious for the success of the work in their several departments. Where all have worked so satisfactorily, it would be invidious to particularize.

Mr. William Nurse, promoted to the position of Storekeeper and Associate Supervisor, is performing his duties very satisfactorily. His place in the Shoe Shop has been taken by Mr. Alex. Morrice, Jr.

At this date, we have more girls than boys in the Institution as pupils. Such a thing has never happened before, and in most of the Institutions on the other side, the preponderance of numbers is always in favor of the boys.

Quite a number of our larger boys remained at home this year, as they have secured remunerative employment. It is a great mistake for some of them, as they are not sufficiently advanced in their scholastic training to get along through life. In a few cases, the parents wanted the labor of the boys.

The following named clergymen have favored us during the year: Rev. Canon Burke; Right Rev. Monseignor Farrelley, V.G.; Rev. G. W. Beamish (English Church); Rev. A. H. Drum (Presbyterian); Rev. J. W. Crothers, B.A., D.D., (Methodist); Rev. O. C. Elliott (Baptist); Rev. M. W. McLean (Presbyterian); the Rev. Father O'Brien, Rev. J. R. Real, Rev. J. Bates, Rev. Jos. Locke (Methodists).

We have had a number of changes during the year in our staffs. Miss Ida Jack, a valued teacher, retired in June on accout of ill-health; Mr. William Douglas, Storekeeper, resigned to go into business on his own account; Miss L. N. Metcalfe, owing to illness, resigned. We parted with the foregoing named with extreme regret, as they were valued helpers. Mr. Ingram, Miss Gowsell and Miss Austin are with us now, and give promise of usefulness in their several places.

Rev. Canon Burke, when he resigned his charge in Belleville, moved to Carleton Place, to spend the remainder of his days with relatives. We were all very sorry, indeed, to lose Mr. Burke from the Institution. For over twenty-five years he had been most faithful and regular in his ministrations to the pupils of his Church, and not only they, but all the other children, had been the recipients of many kindnesses at his hands. He is still retained on the list of visiting clergymen, as he purposes coming to see us once in a while.

With a loyal and earnest staff of officers and teachers, good work for the deaf of our Province has been done in the years that are gone. This Institution has been a blessing to over twelve hundred deaf children and their parents. Under Divine guidance and assistance, we hope to accomplish even more in the future.

I have the honor to be sir.

Your obedient servant,

R. MATHISON, Superintendent.

Heading.	Total expenditure, year ending Sep- tember 30, 1901.	Yearly cost per pupil, Septem- ber 30, 1901.	Weekly cost per pupil, Septem- ber 30, 1901.	Total expenditure, year ending Sep- tember 30, 1902.	Yearly cost per pupil, Septem- ber 30, 1902.	Weekly cost per pupil, Septem- ber 30, 1902.
Medical Department Butchers' meat, fowl, fish Flour, etc Butter and milk General groceries Fruit and vegetables Bedding and clothing Fuel Light Laundry, etc Books and apparatus Printing, postage, etc Furniture and furnishings Farm, etc Repairs Miccellaneous, including water, etc. Salaries and wages Totals	597 84 715 89 1,651 20 22,632 83	$\begin{array}{c} & & & \\$	$\begin{array}{c} \text{c.m} \\ \text{01.8} \\ 24 \\ 10 \\ 17 \\ 18 \\ 3 \\ 05.4 \\ 03 \\ 61.9 \\ 08.4 \\ 02.5 \\ 03 \\ 61.9 \\ 08.4 \\ 02.5 \\ 04.4 \\ 05.5 \\ 04 \\ 05.5 \\ 12 \\ 1.69 \\ 3.56 \end{array}$	$\begin{array}{c} \$ & c. \\ 304 & 09, \\ 3,077 & 35, \\ 1,283 & 80, \\ 2,358 & 38, \\ 2,176 & 36, \\ 723 & 90, \\ 00 & 21, \\ 2,721 & 18, \\ 1,129 & 60, \\ 463 & 69, \\ 472 & 22, \\ 623 & 27, \\ 627 & 33, \\ 627 & 33, \\ 754 & 39, \\ 2,079 & 13, \\ 23,096 & 60, \\ 42,962 & 76, \\ \end{array}$	\$ c. 1 20 12 16 5 08 9 32 8 60 2 86 1 98 10 76 4 46 1 83 1 87 2 46 2 98 8 22 91 29 169 81	\$ c.m 02.3 23.3 09.4 18 16.5 03.8 03.6 03.6 04.3 05.7 15.8 175.5 3 26
Average number of pupils Annual cost per pupil Weekly '' ''	•••••		1900-0 25 \$184 9 3 5 submitted	7 2 6	1901-2 253 \$169 81 3 26	

Statement of cost per pupil, 1900-1901 and 1901-1902.

W. COCHRANE, Bursar.

NOTE.-The apparent reduction in per capita cost is principally accounted for by the fact that we have barely one-half of our coal supply received as yet.

W. COCHRANE, Bursar,

1902

PHYSICIAN'S REPORT.

To Dr. T. F. Chamberlain, Inspector of Public Institutions, Toronto, Out :

Dear Sir,—In submitting this Report, for your consideration, of the Ontario Institution for the Education of the Deaf and Dumb at Belleville, it gives me very great pleasure to be able to state that the past year has been a very fortunate one in reference to sickness.

There have been but four cases of serious illness during the whole year, and no deaths, two cases of Rheumatism, one of Erysipelas and one of Pneumonia.

Early in the last Session, a pupil brought Measles into the Institution from the city, and about sixty-five (65) cases resulted. All made good recoveries, without apparent after effects. Many minor affections, such as colds, sprains and bruises, are constantly occurring, but recovery is always rapid. A little girl developed Typhoid Fever at the beginning of this Session. She was ill at the opening, so it is evident that she brought the disease with her. There were several cases of this disease in the immediate vicinity of her home. The health of the pupils and teachers at present is all that could be desired.

I have the honor to be, sir, your obedient servant,

(Signed) P. D. GOLDSMITH, M.D., M.R.C.P.

EXAMINER'S REPORT.

T. F. Chamberlain, Esq., M.D., Provincial Inspector of Public Institutions, Toronto, Ont.:

Dear Sir,—1 have pleasure in submitting my Report on the Institute for the Deaf and Dumb, which, as requested by you, 1 inspected during the days from May 30th to June 5th inclusive.

There were in attendance at the Institution at the time of my visit 257 students, varying in ages from 7 to 22 years,—some few in the work shops were a little older. These are organized into 13 Classes, in charge of as many teachers, who give instruction by the manual and written alphabets, employing also a "sign language," so far as it is necessary to convey ideas to pupils in the lower classes, and sometimes in the more advanced classes when rapidity is required in the interchange of thought between pupils and teachers. The number enrolled in each class varies from 16 to 22. As much of the instruction is necessarily individual, and the written answers and exercises of every pupil must be read by the teacher, the number in each class seems to be generally too great. Fourteen or fifteen pupils is, I think, as many as one teacher can handle to the greatest advantage. I cannot say, however, as a result of my examination of the classes, that the interests of any of the children are suffering; on the contrary, I think that, under the circumstances, they are making wonderful progress in their work.

The course of studies prescribed for the Institution is made to harmonize as much as possible with the work of the Public Schools, with special attention to those subjects which are best calculated to afford scope for the development of language power. I began the examination in the lower classes, where the children are learning the names of objects, words which express quality, quantity and number, and the simpler forms of "action words." and, as they advance, combining them into "stories" or sentences: The utmost care is observed that the pupils get the idea first, then the word or words which give expression to it. In the presence of the class, simple actions, and, later on, actions of a more complicated character are performed, often by one or more of the pupils, and all are then asked, or, if necessary, taught, to write sentences telling what has been done. Many other devices are resorted to to give the pupils a copious vocabulary and a good grasp of pure, simple, idiomatic English.

Geography is systematically taught in all the grades after the second, history in the two higher grades, and numberless forms of composition exercises are taken up throughout the whole course, so that in the higher classes the pupils have a good knowledge of the more important facts of Canadian history and of the outlines of geography, and they write letters, simple narratives and descriptions with the greatest facility.

Instruction in numbers begins at an early period in the school life of the children, and is continued throughout the whole course. In the intermediate grades, some of the classes were very bright, quick and accurate in the solution of simple problems, and in mechanical operations, and in the higher grades, they have acquired considerable skill in making the more difficult calculations arising out of ordinary business transactions, including weights, measures, currency and mensuration of rectangular surfaces with the application of fractions.

Much attention is paid to plain, easily-produced, legible writing; among the great number of pupils in attendance, there is very little bad writing, and much that is really excellent. The spelling in all the classes is almost faultless. Every exercise is conducted with a view to developing as much as possible the language power of the child.

There are two additional teachers giving instruction in articulation and the reading of the lips to such children as show any capacity for receiving such instruction. Both teachers are doing the same grade of work throughout, each having about 30 pupils in charge, and each charge being sub-divided into six classes, with from 4 to 6 pupils in each class. The greater part of the work is individual teaching of the most delicate kind, and it is, therefore, necessary that the classes be small. The work is nicely graded from the lowest class, where the pupils are learning to articulate elementary sounds, names of common things, and simple sentences, to the highest, where they read the teachers' lips readily, and speak quite intelligibly, asking questions, making known their wants, and engaging in conversation. The work is conducted in all the classes in a most interesting manner; both teachers are earnest, skilful and enthusiastic, and the results of their work are, indeed, very satisfactory.

This school is a model in its organization. The Superintendent himself is a master of detail, and the spell of his zeal and untiring devotion to duty seems to influence everybody. He has gathered about him a staff of earnest, capable teachers, who give their days and their nights cheerfully and conscientiously to the important duties they have undertaken. Although the ordinary class room work does not begin till 9 o'clock, the teachers are all regularly in their places at 8.30 in the morning; the children are assembled in the chapel at 8.45 for the opening exercises, and promptly at 9 all are in their class-rooms, and the work of the day begins.

The classification of the pupils is made in such a way as to have in the same room and under the same teacher those children whose attainments and capacity for receiving instruction are as nearly as possible on the same level. Age, size and temperament are considered in the classification and promotion of the pupils, and special provision is made for slow and dull children, and for those whose parents had neglected to take advantage of the institution until the children were advanced in years much beyond the prescribed age of admission.

For promotion, a comprehensive examination is given at the end of each year, covering very fully the work of the term. A tabulated statement of the marks obtained by the pupils, the teacher's written estimate of the fitness of each for promotion, with very full notes as to health,

application, progress, temperament and intellectual ability, are prepared and filed with the Superintendent, and form an excellent basis on which to classify the students for the ensuing year. The promotion examination for this year was just concluded when I began my inspection. I made a careful study of the examination papers, the pupils' answer papers and of the marks awarded. I found that the examination covered a wide range of work, that the answer papers showed an intelligent appreciation on the part of the pupils of the instruction which had been given during the year, that the papers were read closely and carefully, and that the standing of the pupils, as indicated by the marks obtained—a statement of which is herewith enclosed-was verified very generally by my own examination. The percentages obtained by the various classes are not in all cases a safe criterion of the comparative efficiency of the teachers, nor are they intended to be; some of the examination papers covered the prescribed course a little more searchingly, and some answers were, perhaps, read a little more severely, than others. The results, I am sure, you will regard as being in every case very satisfactory.

In addition to their ordinary school work, the girls are receiving instruction in sewing, and in the performance of ordinary household duties, at fixed hours every day, and 6 or 7 of the older girls, who have completed the literary course, attend the sewing class during the whole day, where, under a competent instructress, they receive special instruction in dressmaking and in the manufacture of other articles of wearing apparel; fancy needlework has also an important place in the sewing-room; it is taken up after 4 o'clock, and many of the children have acquired considerable taste and skill in the work.

A room is at the present time being fitted up and equipped, and the other necessary steps are being taken, for the establishment of a class in Domestic Science at an early date. There can be no two opinions as to the wisdom and the propriety of this step, and I have no doubt that it will prove to be one of the most important departments in the Institution.

For the boys, a suitable workshop, properly equipped, has been fitted up for Manual Training. This department is in charge of a skilful, and in every way a very capable, instructor. The work undertaken embraces the manufacture of a great variety of articles, from a flat ruler or a paper knife to the more difficult dovetailing and mortised work. The models do not include knick-knacks, toys, or baby carpentry; all are useful articles, and such as stimulate the greatest interest on the part of the workers. No lathes or other machinery are used; the simple hand tools, such as plane, saw, square, brace and bit, chisel and mallet, etc., are the only instruments employed. There was on hand at the time of my visit a large stock of the articles which had been made by the students, and everything that I examined was as perfect in workmanship and as delicately finished as if done by the most skilled artisan with the most modern machinery-was, in fact, in its way, a work of art, reflecting the highest credit on both student and instructor.

Although the accommodation and equipment for this work is almost perfect, as far as it goes, I regret to say that it is not planned on a sufficiently extensive scale to serve its highest purpose in a school of this kind. Only twelve students, selected from among those who are thought to have the greatest aptitude for the work, are receiving the instruction at the present time. When it is reflected that those who have the least aptitude in this direction need the training most, it will be seen that this department has a much wider field for usefulness in connection with the Institution than that which it is filling at the present time. One of the most pleasing features of the work of the school, which came under my observation, is the fact that in every department children are acquiring habits of neatness, usefulness and industry to an extent much beyond their years. A few of the larger boys are learning printing, carpentering, baking and shoemaking under competent instructors.

The discipline of the school is of a very high order; the children are not only well-behaved in the class-rooms, but everywhere one meets a pupil in the halls, in the play-room, or on the grounds—he sees something to indicate that the training given in the school is such as is calculated to develop the best and most pleasing types of character. The boys are manly, respectful and courteous, and in their games and amusements they are selfrestraining and agreeable, and the girls seem at all times to be models of refinement and good manners. This state of things is brought about without the slightest semblance of harshness. Everywhere one is afforded evidence that the high moral tone that pervades the whole institution is maintained under a kindly sympathetic supervision by the teachers and officers in charge.

The play-grounds are extensive, tastefully laid out, and carefully kept. A large area is set apart for all kinds of boyish sports, while the girls romp, during recreations, over neatly-kept lawns and along shaded walks, or rest under the spreading branches of beautiful shade trees.

The building is a large brick structure, imposing in appearance, and very well laid out for a limited number of pupils. The attendance has, however, altogether outgrown the accommodation, and the inmatespupils, teachers and officers-must have something of the feeling of being huddled together. Some of the class-rooms are large enough for the size of the classes, but many of them were never intended for class rooms, are much too small, wretchedly ventilated, and are otherwise ill-suited to their present purpose. The lighting is generally sufficient, but in many of the class-rooms the light falls from the right of the pupils, and, as the greater part of the exercises are written, and the hand is always throwing a shadow on the page, it is apt to cause or to intensify impairment of vision. I should be glad to see a suitable school building of the most modern type of school architecture erected apart from the other buildings. I think, too, that a suitable gymnasium, properly equipped, and in charge of a competent physical instructor, is one of the pressing needs of the institution at the present time.

The class-rooms, halls, staircases, assembly-rooms and dormitories are kept scrupulously neat and clean, and, notwithstanding the imperfect system of ventilation, through the careful and unremitting attention of teachers and officers, no one is in danger of suffering from want of pure fresh air.

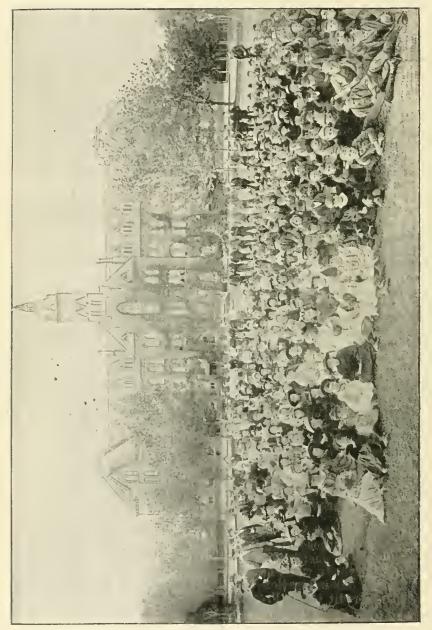
This excellent school for the deaf is most efficiently administered, and it is serving its purpose exceptionally well. It possesses that rare distinction among public institutions generally of being able to command the respect of everybody who knows it. and to hold itself above adverse criticism. In its administration and the character of the work which it is doing, it is a credit to the Province.

In my inspection of the Institution, every facility was afforded me to obtain an accurate knowledge of its management, and of the standing of the various classes. I am deeply indebted to the Superintendent and his staff, and to the officers, for many kindnesses extended to me during my visit, and particularly for assistance given me in connection with my work.

Very respectfully submitted.

Peterborough, June 10th, 1902.

MICHAEL O'BRIEN.



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[22]



DEAR-METE GREES STONING " NEARER MY GOD TO THEE" AT THE INSTITUTION.

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The (Deaf-Mute) Dorgas Society, Toronto.

5







LITTLE DEVE-METE GREE SERVING "NOW I LAY ME DOWN TO SLEEP," AT THE INSTITUTION.

Total number of Pupils in attendance for the session 1901-02.

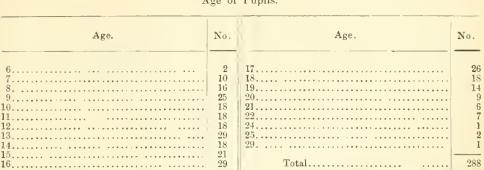
Males Femalea	$\frac{147}{141}$
Total	288
Number of boys admitted since the opening of institution	707 554
Fotal	1,261

Counties from which Pupils during the year came.

Counties.	No.	Counties.	No.
Algoma Brant. Bruce Carleton Cardwell Cornwall Durbam Dufferin Elgin Essex Frontenac Grey Glengarry Haliburton Huron Halidimand Keut Lambton Leads and Grenville Lincoln Lennox and Addington Muskoka	$\begin{array}{c} 4\\ 3\\ 9\\ 16\\ 1\\ 1\\ 1\\ 2\\ 2\\ 11\\ 2\\ 9\\ 3\\ 13\\ 4\\ 7\\ 4\\ 4\\ 13\\ 11\\ 3\\ 4\\ 3\\ 9\\ 5\end{array}$	Middlesex Norfolk Northumberland Ontario Oxford Peel Parry Sound District Perth Peterborough Prescott and Russell Prince Edward Renfrew Simcoe Stormont Dundas and Glengarry Thunder Bay District Victoria Waterloo. Welland Wellington Wentworth York Total	53 4 4 100 4 35 8 9 9 9 9 9 9 9 9 1 1 66 66 66 1 1 4 133 34 -288

Counties from which the Pupils in residence on the 30th September were originally received.

Counties.	Male.	Female.	Total.	Counties.	Male.	Female.	Total,
Algoma Brant Bruce Cardwell Cornwall Durbam Durbam Elgin Essex Frontenac Grey Glengarry Hastings Halton Halton Halton Lameton Lameton Leeds and Grenville Lincoln	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3 5 4 1 1 2 1 6 2 6 2 7 2 2 3 2 6 7 2 1 2 2 3 2 6 2 7 2 2 3 2 6 2 7 2 2 3 2 6 2 7 2 2 3 2 6 2 6 2 7 2 2 3 2 6 2 7 2 2 2 3 2 6 2 7 2 2 3 2 6 2 7 2 2 2 3 2 6 2 7 2 2 2 3 2 6 2 6 2 7 2 2 2 3 2 6 2 6 2 7 2 2 2 3 2 6 6 2 7 2 2 2 3 2 6 6 7 2 2 2 2 3 2 6 6 7 2 2 2 2 2 3 2 6 6 7 2 2 2 2 2 2 2 2 2 2 2 2 2	$\begin{array}{c} 4\\ 2\\ 9\\ 16\\ 1\\ 1\\ 1\\ 2\\ 10\\ 3\\ 13\\ 4\\ 7\\ 3\\ 4\\ 13\\ 11\\ 3\\ 4\\ 3\\ 9\end{array}$	Muskoka District Middlesex. Norfolk	$\begin{array}{c} 4\\ 4\\ 2\\ 1\\ 2\\ 5\\ 5\\ 1\\ 1\\ 3\\ 3\\ 5\\ 1\\ 4\\ 4\\ 3\\ 3\\ 5\\ 1\\ 4\\ 4\\ 3\\ 3\\ 5\\ 1\\ 1\\ 4\\ 1\\ 7\\ 1\\ 147 \end{array}$	$ \begin{array}{c} 1\\3\\2\\2\\2\\5\\3\\2\\5\\4\\1\\1\\3\\2\\3\\6\\1\\4\\1\\4\\1\\4\\1\\4\\1\\4\\1\\4\\1\\4\\1\\4\\1\\4\\1$	553344443355689999999999999999999999999999999999



Age of Pupils.

Number of Pupils in attendance each official year since the opening of the Institution.

					Male.	Female.	Total.
From	Oatober	97th 1870	to Sent 3	Uth, 1871	64	36	100
44 FOLL	OCLODEL (1st, 1871,	10 0600.0	1872.	97	52	149
2.6	6.6	1872.	5.6	1873	130	63	193
6.6	6.6	1873.	6.6	1874.	145	76	221
6.6		1874.	5.6	1875	155	83	238
6.6	6 6	1875.	6.6	1876	160	96	256
6.6	6.6	1876.	6.6	1877	167	104	271
4.6	6.0	1877.	6.6	1878	166	111	277
5.6	6.1	1878.	6.6	1879	164	105	269
6.6	£ .	1879.	4.6	1880	162	119	281
4.6	6.6	1880.	6.6	1881	164	132	296
6.6	÷ 6	1881.	6.6	1882	165	138	303
-5.6	6.6	1882.	6.6	1883	158	135	293
6.6	6.6	1883.	6.6	1884	156	130	286
4.6	6.6	1884.	6.6	1885	168	116	284
6.6	4.6	1885.	6.6	1886	161	112	273
4.6	* 6	1886.	6.6	1887	151	113	264
	6.6	1887.	6.6	1888	156	109	265
6.6	4.4	1888	6.6	1889	153	121	274
5.6	6.6	1889.	6.6	1890	159	132	291
6 6	6.6	1890.	6.6	1891	166	130	296
4.6	6.6	1891,	6.6	1892	158	127	285
4.5	6.5	1892.	102	1893	162	136	298
4.6	6.6	1893.	6.6	1894	158	137	295
6.5	. 6	1894.	6.6	1895	160	135	295
6.6	6.6	1895.	6.6	1896	173	137	310
66	6.6	1896.	6.6	1897	164	128	292
55	٤.	1897,	6.6	1898	167	138	305
6.6	66	1898.	6.6	1899	161	132	293
6.6	° 66	1899.	6.6	1900	152	130	282
6.6	6.6	1900,	6.6	1901	157	143	300
6.6	6.5	1900,	6.6	1902	147	143	288

Date of Deafness after birth.

Under 1 year Between 1 and 2 years	$\frac{149}{132}$	Between 10 and 11 years "11 "12 " "12 "13 " "13 "14 " "13 "14 " Unknown at what age they lost their hear- ing, but not born deaf Congenital	3 4 2 139
" 9 " 10 "	10 10	Total	1,261

Cause of Deafness.

Abscess5Gathering of the head9Accident10Inflammation of the brain14Affection of the ears18" " ears5Bronchitis5" " lurgs5Bealing22" " " pulmonary organsBurns2" " " pulmonary organs2Burns2" " " spinal organs3Catarrh9La Grippe7Caoker1Measles45Cerebro-spinal meningitis26Mumps7Cholera1Paralytic stroke1Congenital46Sonstroke1Diphtheria9Scalds1Dysentery2Scrofula1Dysentery2Sore throat2Falls27Shocks5Fover, rheumatic1Sickness undefined32" bilous5Spinal disease32" intermittent2Swelling on the ueck2" soinal22Water on the brain17
Accident10Inflammation of the brain14Affection of the ears18" " ears5Bronchitis5" " lurgs5Bealing22" " lurgsBurns2" " " pulmonary organs2Burns2" " " spinal organs3Catarrh9La Grippe7Canker1Measles45Cerebro-spinal meningitis26Mumps7Cold46Rickets1Cold46Rickets1Congestion of the brain47Scabs1Dysentery2Scrofula1Dysentery2Scrofula4Falls27Shocks5Fever, rheumatic1Sickness undefned32" bilious5Spinal disease3" intermittent2Swelling on the ueck2" intermittent2Teething18" scarlet84Yaccination7
Affection of the ears18"" ears5Brouchitis5" " lungs5Bealing2" " pulmonary organs2Burns2" " pulmonary organs2Catarrh9La Grippe7Caoker1Measles45Crebro-spinal meningitis26MumpsCongenital487Sonatroke1Congenital487Sonatroke1Dysentery2Scrofula1Dysentery2Scrofula4Ezema2Spinal disease32Falls27Shocks5Fever, rheumatic1Sickness undefned32" bilious5Spinal disease32" intermittent2Teething18" scarlet84Yaccination7
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Catarrh9La Grippe7Catarrh9La Grippe7Canker1Measles45Cerebro-spinal meningitis26Mumps7Cholera1Paralytic stroke1Cold46Rickets1Congestion of the brain487Sonstroke1Congestion of the brain47Scalds1Diphtheria9Scalds1Dysentery2Scrofula1Drank carbolic acid1Scald Head4Eczema2Sore throat2Falls27Shocks5Fever, rheumatic1Sickness undefined32"bilious5Spinal disease3"intermittent2Teething18"scarlet84Yaccination7
Canker1Measles45Cerebro-spinal meningitis26Mumps7Cholera1Paralytic stroke1Cold46Rickets1Congenital487Sonstroke1Congestion of the brain47Scabs1Diphtheria9Scalds1Dysentery2Scrofula1Drank carbolic acid1Scald Head4Ezema27Shocks5Falls27Shocks32"bilious5Spinal disease3"bilious5Spinal disease3"intermittent2Teething18"scarlet84Yaccination7
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Dysentery. 2 Scrofula 1 Drauk carbolic acid 1 Scald Head 4 Ezerma 2 Sore throat 2 Falls 27 Shocks 5 Fever, rheumatic 1 Sickness undefined 32 "bilious 5 Spinal disease 3 "bilious 5 Swelling on the neck 2 "intermittent 2 Teething 18 "scarlet 84 Vaccination 7
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Falls 27 Shocks 5 Fever, rheumatic 1 Sickness undefined 32 "bilious 5 Spinal disease 3 "bilious 5 Swelling on the neck 2 "intermittent 2 Teething 18 "scarlet 84 Vaccination 7
Fever, rheumatic 1 Sickness undefined 32 "bilious 5 Spinal disease 3 "brain 32 Swelling on the neck 2 "intermittent 2 Teething 18 "scarlet 84 Vaccination 7
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"intermittent 2 Teething 18 "scarlet 84 Vaccination 7
"intermittent 2 Teething 18 "scarlet 84 Vaccination 7
" scarlet
" spinal 22 Water on the brain 17 " malarial 2 Whooping Cough 8
matatiat
cypuus
" typhoid 11 Cases undefined and unknown 1 Chicken Pox 1 Chicken Pox
Gathering of the ears 8 Total 1,261

Relationship of Parents.

First cousins																					
Second cousins																					
Third cousins																					
Distantly related																					
Not related																					
Unknown	• •	*	• •	•	•	• •	٠	٠	• •	• •	٠	٠	٠	•	•		•	•	•	29	
Total																				1.961	
10081			• •			۰.	٠	٠	• •						٠	*	 			1,601	

Number of Deaf	Mute	families	represent	ed
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53		2	families	contained	5									10	
8		6		6 É 6 É	4		 		 			 		24	ł
3		25	6.6	6.6	3									- 75	
7		89	6.6	4.6	2									178	-
		97-	f 1.6	56	1						 			-974	
9													-		
_			Total											1,261	
1															

MINISTER OF THE GOVERNMENT IN CHARGE :

HON. J. R. STRATTON, Toronto.

GOVERNMENT INSPECTOR : DR. T. F. CHAMBERLAIN, Toronto.

OFFICERS OF THE INSTITUTION :

R. MATHISON, M. A	Superintendent.
WM. COCHRANE	Bursar.
P. D. GOLDSMITH, M. D.	.Physician.
MISS ISABEL WALKER	.Matron.

TEACHERS :

DR. R. COLEMAN M. A., (*Head Teacher.*) P. DENTS. JAMES C. BALIS, B. A. W. J. CAMPBELL, GEO. F. STEWART, T. C. FORRESTER, H. L. INGRAM,

MRS J. G. TERRILL MISS S. TEMPLETON, MISS MART BULL, MRS. SYLVIA L. BALIS, MISSS GEORGINA LINN, MISS ADA JAMES,

M. J. MADDEN, (Monitor Teacher.)

Teachers of Articulation :

MISS ANNIE MATHISON, (Temporary.)

MISS CAROLINE GIBSON.

MISS MARY BULL, Teacher of Fancy Work. T. C. FORRESTER, Teacher of Manual Trainng. MISS HATTIE H. GOWSELL, Teacher of Domestic Science.

MISS H. JOSIE AUSTIN, Stenographer and Clerk.

WM. NURSE Storckeeper & Associate Supervisor.

> G. G. KEITH, Supervisor of Boys, etc.

MISS M. DEMPSEY, Seamstress, Superiisor of Girls, etc.

> MISS JESSIE LYTLE. Trained Hospital Nurse.

> > JOHN MOORE. Farmer and Gardener.

List of Pupils in the Ontario Institute for the Education of the Deaf and Dumb for the year ending September 30th, 1902, with the Post Office addresses.

COUNTIE3.	P.O. ADDRESS.	COUNTIES.	P.O. ADDRE <mark>S</mark> S.
Ellis, Earl W Zinke Charles Brays: Hustwayte, John F Mitchell, George L Smith, William BRUCE: Green, Mary Annie	Sault Ste. Marie. Sault Ste. Marie do Paris. Brantford. Tuscarora. Chesley. Chippawa Hill. 	CARLETON — Continued. Ethier, Martail Henault, Charles Henault, Honore Lett, William F Larabie, Albert Larabie, Albert Larabie, Albert Larabie, Albert Carlowell: Henderson, Clara CARDWELL: Henderson, Clara CARDWELL: Henderson, Clara CORNWALL: Kirk, John A DURHAM: Brooks, Effa M DUFFEEIN: Aldcorn, Barbara Granger, Martha ELGIN: Carpenter, Lena May. Smuck, Loyd Essex: Bain, Olive Berthiaume, Marilda Berthiaume, Dorina	do do do carp. Ottawa. Ottawa. d. Spring Hill. S. Dunrobin. Bolton Cornwall. Corhetton. Honeywood. Rodney. Aylmer. Windsor. Tecumseb

JOHN T. BURNS, Instructor of Printing.

> ALEX. MORRICE, "JR., Master Shoemaker.

CHAS. J. PEPPIN, Engincer.

JOHN DOWRIE, Master Carpenter.

> D. CUNNINGHAM, Master Baker.

List of Pupils.-Continued.

COUNTIES.

P.O. ADDRESS.

Ess	Ex Continued.	
B	ain, Josephine uick, Angus R	. Windsor.
- Q	uick, Angus R	. Pelee Island.
L	anglois, Louis	Belle Kiver.
L D	etrimoulx, George	River Copord
	anva Teleanhora	St logohim
2	feloche Edmund	Ambersthurg
- î	feloche, Edmund	Windsor.
The	ONTENAC:	
T M	arnett Winnifred	Sydenham
Ñ	arnett, Winnifred Vatte, David H	Portsmouth.
B	rr: rown, Annie rown, Mary Louisa and, William T leming, Daniel obnson, Bertha N ove, Joseph Iyers, Mary Igure, Lily E oble, Edgar	Peabody.
B	rown. Mary Louisa	. do
D	and, William T	Lady Bank.
F	leming, Daniel	.Craigleith.
Ĵ	ohnson, Bertha N	Owen Sound.
1	ove, Joseph	Hopeville.
LV.	lyers, Mary	Lady Dank.
N	oble Edgar	Durham
	001c, 11dgal	D'ut nam.
GLE	NGARRY	
G	ordon, Daniel George	Bridge End.
G	ordon, Daniel George ordon, Mary Jane ordon, Annie M. E	do
		00
D	STINGS .	17
B	ranscombe, Florence	Frankford.
Ē	arnham Leona	Canifton
F	ov Annie	Trenton.
Ĝ	erow. Daniel	Belleville.
H	ough, Ethel Viola	Chatterton.
H	ranscompe, riorence ourneys, Mary A arnham. Leona arow, Daniel	Stirling.
L	owry, Charles	Bridgewater.
S	rimshaw, James H	Big Springs.
SI	nith, Earl A	Deseronto.
Y V	oung, Arthur	Madoc.
N	oung, Arthur oung, Fred elson, Ethel	Relleville
	JEURTON'	Deneviner
E	astman Alma M	Minden
G	astman, Alma M ray, Violet tto, Charles ooney, Francis	South Lake.
Ō	tto, Charles	Haliburton.
\mathbf{R}	ooney, Francis	Kinmount.
HUE	RONI	
A	nderson, Harvey	Dungannon.
C	ole, Amos. B	Clinton.
G	ole, Amos. B	Zurich
	aporte, Leon hompson, Beatrice hompson, Arthur E oung, Clara E	Drysdale.
	nompson, Beatrice	Durgannon.
v	oung Clara E	Landeshorough
п.	Touis, Clara 13	Hongesporougin
H	TON:	Milton
Ja	artley. Clars mes, Mary T	Kilbride.
M	oore. Rose Ann.	Milton.
St	nith, Maggie	Acton.
HAT	DIMAND.	
Δ.	matrong Jarvis E	Jarvis.
\mathbf{F}	oung, Roseta	Dunnville.
Jo	huston, Annetta	Tynside.
Y	oung, Roseta	Dunnville.
Ken	т:	
Be	no, Richard	Tilbury.
Cl	evalier, William sle, Miunie B	Chathar:
. D	sie, Milunie B	Highgate
C C	ibson Winnifred	Dresden.
Gi	bson. Maggie	do
L	eary, Joseph Ibsov, Winnifred Ibson, Maggie	Kent Bridge.

COUNTIES.	P,0.	ADDRES	S
KENTContinued.			
McGregor, Maxwell	Rid	getown.	
McDonald, Sarah	Dua Dre	irt.	
Parker, Beatrice. Wilson, Herbert. Welch, Herbert Thibeault, Mary A	. Cha	tham.	
Welch, Herbert	Bofl	hwell.	
Thibeault, Mary A	. Flet	cher.	
LAMBTON.	Data	al a a	
Babcock, Ids E Bissell, Thos, E	I eu Sarr	nia.	
Bissell, Thos. E Breault, Gertie	. do		
Jackson, Elroy Mason, Lucy S Moore, George H Scott, Henry Showers, Mary Showers, Catherine. Watta, Grace	For	est.	
Moore, George H	.Fore	est.	
Scott, Henry	do	bland	
Showers, Catherine	bd	0	
Watts, Grace	The	dford.	
LANABE .			
Campbell, Samuel	Calc	iwell's Mills	3.
McGregor, Ruby V Pollock, Bessie	d	0	
LEEDS AND GRENVILLE:			
LEEDS AND GRENVILLE: Burchill, Cora	Mer	rickville.	
Baker, Fred. Croan, Thomas R	Broe	ckville.	
Countryman, Harvey	Pres	cott.	
JNCOLN '			
Duncan, Walter Hoare, Ethel May McCready, Aleths	St. (Catharines.	
McCready Aletha	Cais	do itar Centre	
			•
JENNOX AND ADDINGTON: Barnett, Gerald. Grooms, Harry. Hartwick, Olive Hartwick, Archibald. Meeks, Esley L. McAdam, Wesley Reid, Walter E. Sager, Hattie. Hartwick James	Syde	enham.	
Grooms, Harry	. Nap	ance.	
Hartwick, Olive	b	0	
Meeks, Esley L	Stra	theona.	
McAdam, Wesley	Tam	worth.	
Sager Hattie	Lще Nap	anee.	
Hartwick James	, d	0	
HUSKOKA DISTRICT.			
Croucher, John	Hun	itsville.	
Dierks, Caroline Durno, Archie.	Brad	ebridge.	
Allen, George Ireland, Louis	. Uffir	ngton.	
Ireland, Louis	. Brac	ebridge.	
Courses Jane Viels	Luce		
Fishbein, Sophia	Lond	don.	
Pepper, George	. d	0	
IIDDLESEX: Courscey, Jane Viola Fishbein, Sophia Pepper, George Russell, Mary Bell. Ryan, Charles.	- Alls - Pidd	a Uraig. Iulnh.	
NUBFULK .			
Boomer Duncan	Wind	ham Centre	e.
Cole, Rosa. Franklin, Sarah J.	. Wils	sonville.	
7			
Bellamy, George	. Wiel	klow.	
Cummings, Bert	Brig	hton.	
CORTHUMBERLAND: Bellamy, George Cummings, Bert Chatten, Elizabeth Rutherford, Jessie, May	. Brig	leton.	
MARNO: Boyle, Mary T Kelly, James Quigley, Walter T Russell, Alice.	.Brec	hin.	
Kelly, James	. d	0	
Russell, Alice	. W Di	toy. let.	
JXFORD -			
Brown, Flarence Barnard, Fred	. Woo	dstock.	
Barnard, Fred.	. Tils	onburg.	

List of Pupils.-Continued.

COUNTIES. P.O. ADDRESS. COUNTIES. OXFORD.—Continued. Cone, Benjamin D. C..... Woodstock. Elliott, Cora......Ingersoll. Elliott, Wilbur.....do French, Charles......Ingersoll. Perry, Alge Earl......Woodstock. McFarlane, Mona.....Eastwood. Piper, Celia.....Woodstock. THUNDER BAY DISTRICT: Burk, Elsie Port Arthur. VICTOBIA: Brown, Eva Jane......Valentia. Fountaio, Farley....Victoria Rd. Fountain, Herhert M......do Jewell, EnaManilla. Rutherford, EmmaFenelon Falls. Sipe, Thomas.....Allsaw. PEEL WATERLOO Dixon, Ethel Irene Elmbank. Duke, Ettie......Mono Mills. Jones, Samuel Palgrave. Zimmerman, Candace do PERTH: Catheart, Cora.....St. Marys. Harris, Carl.....Mitchell. Kraemer, Johanna Dorking. Orr, Jamea P......Milverton. Pringle, Murray HillStaffa. WELLAND' Tossell, Harold Niagara Falls. WELLINGTON: Billing, William E..... Monticello. Clark, Adeline R.....Guelph. Goetz, Sarah..... do Goetz, Eva..... do PAERY SOUND: Veitch, Margaret.....Spence. Veitch, James..... do Veitch, Elizabeth..... do WENTWOETH' Carter, Stella Bartonville. PRESCOTT AND RUSSELL: Simpson, Alexander Piperville. PRINCE EDWARD: PETERBORO': Derocher, Mary Ellen...... Peterboro' Derocner, Mary Ellen. P Charliebois, Walter. P Lawson, Lila Lawson, Violet Kennaley, Winnifred O'Brien, Gerald. Pilling, Gertie. Kirk, Norman Woodley, Elizabeth...... do Salmon, Albert E..... Hamilton. do do YORK: do do Bowman, Ellsworth H. Aurora, Brown, Frederick do do Brown, Frederick Toronto. Buchan, Alexander Bucke, Edith..... Burke, Mabel... Brown, Daisy R. do PRESOUTT AND RUSSELL: RENFREW! Corrigan, Rose AnnRocheford. Jerochie, Clara Arnprior. Derochie, Caroline do Cuddy, Edward Brndenell. Lacombe, Joseph Arnprior. Rielly, Mary Pembroke. SIMCOE: O'Neil, Ignatius David.....Toronto. O'Connor, Franklin J....Vellore. Pinder, Clarence. Davenport. Perry, Frederick R....Eglinton. Lawson, Frank. Toronto. Mason, Myrtle do McCaul, Alexander. do Shannon, Annie Weston. Terrell, Frederick. Toronto. Walton, Allan Wexford. Waters, Marion Toronto. West, Fraocia. Queensville. Wilson. Arthur. Toronto. STOEMONT, DUNDAS AND GLENGARRY : Ford, Charles Ray Elma. 3 D. D.

P.O. ADDRESS.

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