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SIXTY-NINTH ANNUAL REPORT

OF

THE TRUSTEES

OF THE

WORCESTER INSANE HOSPITAL,

AND

TWENTY-FOURTH ANNUAL REPORT OF THE TRUSTEES

OF THE

WORCESTER INSANE ASYLUM AT WORCESTER,

FOR THE

YEAR ENDING SEPTEMBER 30, 1901.



BOSTON :

WRIGHT & POTTER PRINTING CO., STATE PRINTERS,

18 POST OFFICE SQUARE.

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*Mass.: Worcester state hospital*



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TO  
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## OFFICERS OF THE HOSPITAL.

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### TRUSTEES.

ROCKWOOD HOAR, . . . . .	WORCESTER.
THOMAS RUSSELL, . . . . .	BOSTON.
SARAH E. WHITIN, . . . . .	WHITINSVILLE.
FRANCES M. LINCOLN, . . . . .	WORCESTER.
SAMUEL B. WOODWARD, . . . . .	WORCESTER.
THOMAS H. GAGE, . . . . .	WORCESTER.
GEORGE W. WELLS, . . . . .	SOUTHBRIDGE.

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### RESIDENT OFFICERS.

HOSEA M. QUINBY, M.D., . . . . .	<i>Superintendent.</i>
ALFRED I. NOBLE, M.D., . . . . .	<i>Assistant Superintendent.</i>
REVERE R. GURLEY, M.D., . . . . .	<i>Assistant Physician.</i>
GEORGE H. KIRBY, M.D., . . . . .	<i>Assistant Physician.</i>
CORNELIA B. J. SCHORER, M.D., . . . . .	<i>Assistant Physician.</i>
HARRY A. COTTON, M.D., . . . . .	<i>Junior Assistant.</i>
ISADOR H. CORIAT, . . . . .	<i>Junior Assistant.</i>
WILLIAM H. NEWCOMB, M.D., . . . . .	<i>Junior Assistant.</i>
THEODORE A. HOCH, M.D., . . . . .	<i>Junior Assistant.</i>
CHARLES B. DUNLAP, M.D., . . . . .	<i>Laboratory Assistant.</i>
HENRY R. CENTER, . . . . .	<i>Steward.</i>
LILA J. GORDON, . . . . .	<i>Matron.</i>
S. JOSEPHINE BRECK, . . . . .	<i>Clerk.</i>
JOSEPH T. REYNOLDS, . . . . .	<i>Farmer.</i>

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### NON-RESIDENT OFFICERS.

ADOLF MEYER, M.D., . . . . .	<i>Director of Clinical Work and of Laboratory.</i>
WILLIAM D. SPROAT, . . . . .	<i>Druggist.</i>
ALBERT WOOD, . . . . .	<i>Treasurer.</i>
GEORGE L. CLARK, . . . . .	<i>Auditor.</i>
PATRICK W. DAY, . . . . .	<i>Engineer.</i>





# Commonwealth of Massachusetts.

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## TRUSTEES' REPORT.

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*To His Excellency the Governor and the Honorable Council.*

The trustees of the Worcester Insane Hospital would respectfully submit their annual report, together with the reports of the administrative and financial officers.

The importance and detail of the great and varied responsibilities of the superintendent and the interesting duties of the pathologist can be appreciated only by careful reading of their several reports.

The work in erecting and furnishing the addition to the chapel wing of the building is nearly completed. The hospital is now in large degree well equipped. It needs at once a new mortuary and a method of lighting by electricity. We ask for an appropriation for these purposes. It was found that the appropriation of \$45,000 for the building, equipping and furnishing a nurses' home would prove inadequate. The Board had prepared careful plans and estimates, but found that the work could not be done for the sum appropriated, and, therefore, has not begun upon it. We ask for an increase in the appropriation, to fully cover the necessary expenditure.

We would express our high approval of the work of the permanent officers of the institution, and of their intelligent, efficient and economical service. They are not content with a perfunctory performance of routine duties, but are inspired

with a zeal to deal more skilfully and successfully with each case submitted to them, and to advance the already high reputation of this, the oldest institution in the State.

Respectfully submitted,

ROCKWOOD HOAR,  
THOMAS RUSSELL,  
SARAH E. WHITIN,  
FRANCES M. LINCOLN,  
SAMUEL B. WOODWARD,  
THOMAS H. GAGE,  
GEORGE W. WELLS,

*Trustees.*

## VALUE OF PERSONAL ESTATE

SEPT. 30, 1901.

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Live stock on the farm, . . . . .	\$11,367 00
Produce of the farm on hand, . . . . .	17,946 25
Carriages and agricultural implements, . . . . .	7,517 50
Machinery and mechanical fixtures, . . . . .	32,538 85
Beds and bedding in inmates' department, . . . . .	31,993 00
Other furniture in inmates' department, . . . . .	24,053 30
Personal property of State in superintendent's department, . . . . .	30,095 67
Ready-made clothing, . . . . .	1,854 31
Dry goods, . . . . .	1,626 13
Provisions and groceries, . . . . .	3,527 53
Drugs and medicines, . . . . .	436 86
Fuel, . . . . .	1,336 35
Library, . . . . .	5,238 00
Other supplies undistributed, . . . . .	6,623 70
	\$176,154 45

## TREASURER'S REPORT.

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*To the Trustees of the Worcester Insane Hospital.*

I herewith submit my annual report on the finances of the Worcester Insane Hospital for the year ending Sept. 30, 1901.

### RECEIPTS.

Cash on hand Sept. 30, 1900, . . . . .	\$18,205 24
Received from Commonwealth for support of patients, . . . . .	50,143 81
from cities and towns, . . . . .	102,852 59
from individuals, . . . . .	52,807 72
from soldiers' relief, . . . . .	755 70
from farm and farm products, . . . . .	3,010 26
from sale of buggy, rags and old iron, . . . . .	246 81
from sale of grease, hides and bones, . . . . .	568 45
from sale of barrels and tubs, . . . . .	115 52
belonging to patients, . . . . .	3,075 65
from other sources except appropriation, . . . . .	1,795 06
	\$233,576 81
from Commonwealth on account of appropriation, . . . . .	6,972 79
	\$240,549 60

The expenditures for the year have been as follows:—

Salaries and wages, . . . . .	\$69,404 86
Provisions and supplies, viz.:—	
Meat, . . . . .	\$14,850 30
Fish, . . . . .	2,819 16
Fruit and vegetables, . . . . .	5,101 16
Flour, . . . . .	5,734 90
Grain and meal for table, . . . . .	753 50
Grain and meal for stock, . . . . .	6,802 64
Tea, coffee and chocolate, . . . . .	1,901 48
Sugar, syrup and molasses, . . . . .	5,531 84
	\$43,494 98
<i>Amounts carried forward, . . . . .</i>	\$69,404 86

<i>Amounts brought forward,</i>	\$43,494 98	\$69,404 86
Butter and cheese,	7,166 10	
All other groceries,	8,477 96	
All other provisions,	1,361 91	
Total for provisions and supplies,	<u>                    </u>	60,500 95
Ready-made clothing,	\$8,030 72	
Dry goods,	2,660 43	
Fuel,	17,301 72	
Lights,	5,654 74	
Water,	4,255 36	
Medicine and medical supplies,	1,859 11	
Pathological department,	1,463 13	
Furniture,	818 18	
Beds and bedding,	2,962 14	
Transportation,	213 24	
Expenses of trustees,	42 91	
Ordinary repairs,	9,031 60	
All other current expenses,	18,077 65	
	<u>                    </u>	72,370 93
Total current expenses,		<u>\$202,276 74</u>
Extraordinary expenses: —		
Clothing furnished on discharge of patients,	\$658 64	
Undertaking,	237 00	
Returning escaped patients,	75 56	
Cash refunded,	73 35	
Cash refunded to patients,	2,779 64	
Coal shed extension,	5,168 57	
Laundry extension,	5,833 45	
On account of appropriation for new building,	6,410 05	
Total extraordinary expenses,	<u>                    </u>	21,236 26
Total expenditures,		<u>\$223,513 00</u>
Cash on hand Sept. 30, 1901,		17,036 60
		<u>\$240,549 60</u>

## RESOURCES.

Cash on hand Oct. 1, 1901,	\$17,036 60
Bills due from Commonwealth,	13,634 45
due from cities and towns,	28,857 36
due from individuals,	13,902 15
due from soldiers' relief,	296 19
due from Commonwealth for bills paid for material and labor on account of new building,	2,159 03
	<u>                    </u>
	\$75,885 78

## LIABILITIES.

Due belonging to patients, . . . . .	\$2,064 99	
maintenance paid in advance, . . . . .	86 21	
salaries, wages and labor, . . . . .	5,915 68	
for all other current expenses, . . . . .	15,329 28	
	<hr/>	\$23,396 16

Respectfully submitted,

ALBERT WOOD,

*Treasurer.*

Oct. 1, 1901.

*Special Appropriation.*

	Appropriation.	Balance unexpended.	Expended.	Balance Oct. 1, 1901.
Construction of administration building extension, . . . . .	\$79,998 44	\$31,066 85	\$77,719 83	\$2,278 61
Bill No. 35 cancelled and credited to appropriation, . . . . .	-	-	45 43	45 43
			<hr/>	<hr/>
			\$77,674 40	\$2,324 04

## INCOME OF LIBRARY FUNDS.

### LEWIS FUND.

Cash on hand Sept. 30, 1900, . . . . .	\$32 05	
Interest on Springfield bond, . . . . .	70 00	
Cash for sale of atlas, . . . . .	7 50	
	\$109 55	\$109 55
Deposit in Worcester County Institution for Savings, . . . . .	\$20 00	
Expended for books, . . . . .	76 67	
Expended for rebinding books, . . . . .	7 25	
Cash on hand Sept. 30, 1901, . . . . .	5 63	
	\$109 55	\$109 55

### WHEELER FUND.

Cash on hand Sept. 30, 1900, . . . . .	\$101 46	
Cash for binding book, . . . . .	25	
Dividends and bank tax rebate, . . . . .	199 18	
	\$300 89	\$300 89
Expended for books, . . . . .	\$185 81	
Expended for rebinding books, . . . . .	45 55	
Expended for rent in State Safe Deposit Company, . . . . .	5 00	
Cash on hand Sept. 30, 1901, . . . . .	64 53	
	\$300 89	\$300 89

### INCOME OF LAWN FUND.

Balance in Mechanics Savings Bank, . . . . .	\$1,167 85	
Dividends, . . . . .	45 91	
	\$1,213 76	\$1,213 76
Expended for trees, . . . . .	\$50 00	
Balance in Mechanics Savings Bank, . . . . .	1,163 76	
	\$1,213 76	\$1,213 76

### INCOME OF MANSON FUND.

Dividends, . . . . .	\$48 92	
	\$48 92	\$48 92

### FUNDS.

#### *Lewis Fund Investment.*

Springfield bond, . . . . .	\$1,070 00	
Worcester County Institution for Savings, . . . . .	215 14	
Cash on hand Sept. 30, 1901, . . . . .	5 63	
	\$1,290 77	\$1,290 77

*Wheeler Fund Investment.*

Seven shares Central National Bank, . . . . .	\$770 00	
Three shares Worcester National Bank, . . . . .	540 00	
Worcester County Institution for Savings, . . . . .	1,445 86	
Worcester Five Cents Savings Bank, . . . . .	1,719 47	
Cash on hand Sept. 30, 1901, . . . . .	64 53	
	<u>          </u>	\$4,539 86

*Manson Fund.*

Worcester County Institution for Savings, . . . . .	.\$1,272 14	
	<u>          </u>	1,272 14

*Lawn Fund.*

Worcester Mechanics Savings Bank, . . . . .	.\$1,163 76	
	<u>          </u>	1,163 76
		<u>          </u>
		\$8,266 53

## LAND ACCOUNT.

Cash on hand Sept. 30, 1901, . . . . .		\$58 52
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Respectfully submitted,

ALBERT WOOD,

*Treasurer of Corporation.*

Oct. 1, 1901.

WORCESTER, MASS., Oct. 23, 1901.

I hereby certify that I have this day compared the treasurer's statement of disbursements for the year ending Sept. 30, 1901, with the vouchers on file at the Worcester Insane Hospital, and find them to agree. I have also inspected the securities representing the invested funds of the institution, and find that their market value is as stated.

GEO. L. CLARK,

*Auditor of Accounts.*



## SUPERINTENDENT'S REPORT.

---

*To the Trustees of the Worcester Insane Hospital.*

I herewith respectfully submit the following report of the hospital for the year ending Sept. 30, 1901, it being the sixty-ninth annual report.

There remained at the hospital Oct. 1, 1900, 1,090 patients, — 499 men and 591 women. During the year 588 patients — 291 men and 297 women — were admitted, 446 patients — 193 men and 253 women — were discharged, and 69 men and 65 women died, leaving at the end of the official year 1,098 patients, — 528 men and 570 women. Of this number, 341 were supported by the State, 589 by cities and towns and 168 by friends. Of the 446 persons discharged, 91, including 8 habitual drunkards (women), were reported recovered; 94, including 2 habitual drunkards (women), much improved; 82 improved and 177 not improved; 2 were discharged not insane. Twelve men and 16 women were removed by the overseers of the poor; 26 men and 16 women were discharged to the care of the Board of Insanity, to be removed from the State; 41 women to Tewksbury; 27 women to the Worcester Insane Asylum; 15 men and 30 women to Medfield; 1 man and 1 woman to the School for Feeble-minded; and 1 woman each to Westborough and McLean. One woman and 9 men escaped, and were not returned to the hospital or accounted for at the end of the official year.

There remained at the end of the year 8 more patients than at the beginning. The smallest number under treatment on any one day was 1,043 and the largest 1,150. The daily average number was 1,087.9.

The percentage of recoveries, calculated upon the number of discharges and deaths, was 15.68; calculated upon the number of admissions, it was 15.47.

The death rate was 7.98, calculated on the whole number of patients under treatment; and 12.31, calculated upon the daily average number.

There has been no unusual amount of sickness in the hospital during the year, and but few deaths from causes other than those directly incident to mental disease. One attendant and two patients suffered from an attack of diphtheria. Each case occurred singly, and under such conditions that it was impossible that one could have been communicated from the other. In one patient, a woman who was admitted in a state of acute maniacal excitement, the disease proved suddenly fatal after a few days' residence at the hospital. The other two cases recovered promptly, and no further infection followed from either of them. A small-pox epidemic in the city of Worcester and in the neighboring towns, during the winter, caused the management of the hospital a great deal of anxiety, and more especially from the reason of the outbreak of the disease in two of our local hospitals, from each of which we had at the time received patients. As a preventive measure, our entire household was vaccinated, and it is a matter of sincere congratulation that we were fortunate enough to have escaped infection.

During the year a somewhat unusual number of patients have escaped and been unaccounted for. These are almost without exception cases of alcoholic insanity, — cases which, as a rule, regain their normal condition rather rapidly under enforced abstinence, and remain sane as long as they refrain from the use of intoxicants. They are generally anxious to work, and, in fact, form the most intelligent part of our working force. To shut them up in enforced idleness is neither for their good nor that of the hospital, while to allow them the certain amount of liberty which must be given to our workers affords them more or less opportunities for escape; and it is hardly to be wondered at that many of them sooner or later avail themselves of the opportunity. In fact, they are practically well when allowed their liberty, and the only reason for holding them is the knowledge that an early discharge results in an almost immediate return to their evil habits; while there is a hope that a long detention with regular habits may so build them up both bodily and mentally as to enable them to control their appetites. Many of these cases on leaving the hospital go directly home, and so are accounted for; but many of them have no regular abiding place, but have long been wanderers in the land, and it is these that are difficult to follow and apprehend.

I am happy to report that the institution as a whole is in a

most prosperous condition, and that nothing has occurred during the year to interfere with the efficient and harmonious working of its various departments. Four hundred and forty-six patients were discharged and 588 were admitted. Some idea of the amount of work entailed by this rapid change of population may be gained when it is remembered that not only the material wants of this large number of persons — which are seldom few or easily satisfied — must be provided for, but that the physical and mental condition of each must be carefully investigated, and as far as possible their entire history ascertained and recorded before an accurate diagnosis of the case can be made and the proper treatment entered upon. This is never a matter of a single sitting, but requires long and painstaking examinations of the patient on the part of the physician, as well as interviews and correspondence often voluminous with relatives and friends and with physicians formerly having the case in charge. With the above number of admissions, it will be readily seen that it is only through the utmost diligence on the part of the medical staff that they have been able to keep abreast with their duties. That they have done this to a greater degree than in any year since this work was undertaken I am sure; and I am also pleased to note that there has been a decided advance in the character of their work and in the records of the different cases.

The chapel wing extension, a detailed description of which will be found in my report for 1899, is now completed, and will be occupied as soon as the necessary furniture is received. In connection with this work the chapel itself has been enlarged some twenty feet, by taking out the old stage and carrying it back into the new wing. The chapel has also been repainted and frescoed. It was necessary while this was going on to discontinue our Sunday services and our usual week-day entertainments, and these will now be resumed.

During the year we have also enlarged our laundry and made extensive alterations therein, to make room for the additional machinery which the greatly increased number of patients has made necessary; and have provided therein room for an all-metal clothes dryer to take the place of our old dry room, which was of wood construction, and which had become a constant menace to the hospital on account of the danger from fire. We have also raised the roof of our old boiler room and coal

shed, and thereby provided additional room for our various mechanical departments. This work, which was only undertaken after having received the approval of the Board of Insanity, has been carried out for the most part by our own corps of mechanics, assisted largely by patients, and has been paid for out of the funds of the hospital.

Our water supply at the Hillside farm in Shrewsbury has never been satisfactory, and for several months during the seasons of 1899 and 1900 it gave out entirely, obliging us to draw water from a long distance for our cattle. To obviate this difficulty in the future, we have put in a driven well and a windmill. The well is 160 feet deep (the last 9 feet being in rock), and is lined with 151 feet of 8-inch pipe.

The Legislature of 1901 authorized the trustees of the Worcester Insane Hospital to spend a sum not exceeding \$45,000 for the construction, furnishing and equipping of a building sufficient for the accommodation of 60 nurses. To carry out the above act and in compliance with your instructions plans were drawn for a building of brick, entirely plain both as to exterior and interior finish. These plans having met your approval, bids were asked for and were received from three responsible builders. The lowest bid was \$43,373, complete except furnishings. To this is to be added the architect's fees, \$2,168.65, making the total cost of the building \$45,541.65. The estimated cost of furnishing is \$5,000. After carefully going over the plans, with reference to bringing the cost of the building within the appropriation, it was at once apparent that this could be done only in one of two ways, — by cutting down the size of the rooms, or materially cheapening the character of the work, neither of which seems advisable. I would recommend, therefore, that the whole matter of building be delayed until the meeting of the coming Legislature, and that an additional appropriation be asked for.

One of the most pressing needs of the hospital at the present time is an electric plant for furnishing light and power to the institution. That such a plant is not only desirable but absolutely essential in an institution of this size and character, no one will, I think, attempt to gainsay; and our only reason for not urging this matter before was the feeling that the hospital had other and still more important needs which should first be provided for. Now, however, the time seems to have come

when this work can be properly undertaken. The estimated cost of wiring the building, making the necessary alterations and additions in the engine and boiler room, installing new boilers and the necessary engines, dynamos and motors, is \$65,000.

I would also urge the importance of providing a mortuary at the hospital, as the present arrangements for caring for our dead are in the highest degree unsatisfactory and unsanitary. This building should include rooms for preparing and preserving the remains, an autopsy room, a waiting room for the friends of the patients, and a small chapel where services may be held, — as is often desirable when relatives come from a distance and wish to provide burial for their friends here. The estimated cost of this building, furnished and equipped, is \$13,000.

The following changes have taken place in the staff of the hospital: Dr. Revere R. Gurley resigned on account of ill health, Drs. Frank T. Budd and Margaret A. Fleming to enter general practice. Of the junior assistants, Drs. George H. Kirby and Harry A. Cotton were promoted during the year to the regular staff. Dr. Cornelia B. J. Schorer was appointed to fill the vacancy of female physician.

The current expenses, less the amount received from articles sold, have been \$197,406.09; dividing this by 1,087.9, the daily average number of patients, gives \$181.45 as the annual cost of support, which is equivalent to a weekly cost of \$3.48.

With the rapid growth of the institution, its steadily increasing number of inmates and the new demands that have come from efforts toward the introduction of modern hospital methods in the care and treatment of our patients, the duties of its management have become so varied and intricate that the superintendent is forced to depend more and more largely upon the intelligent and faithful co-operation of his associates, and to them is largely due whatever measure of success has crowned our efforts during the past year; and I wish to thank them for their loyal assistance and the several members of your Board for their continued support.

HOSEA M. QUINBY, M.D.,

*Superintendent.*

## SPECIAL REPORT OF MEDICAL WORK.

---

The fifth year of the present organization of the medical work has brought an increase of labor both on the clinical side and on the side of the post-mortem investigation. Considering further the extension of the scope of the work laid out as a routine in each case, we find ourselves before a much greater output of work than in the previous years.

The number of admissions was 588, that of discharges 580, and the total of careful records is thus brought near the number of 2,500. The autopsies reached the number of 80, *i.e.*, 60 per cent. of the deaths, as in previous years.

With four senior and four junior assistants on the clinical side and one assistant on the autopsy work, practically all the time and energy at our disposal have been taken up with the routine, and the general result has been that the work done is decidedly of greater permanent usefulness than in the previous years. The chief improvements are: (1) in the greater accuracy of the clinical records and greater clearness in their arrangement; (2) the greater number of examinations for special features of the urine, of the blood and the gastric contents; and (3) a much more uniform and reliable material from the autopsies.

The chief results are that a much more definite attitude has been reached concerning the interpretation of many phenomena. In the field of pathological anatomy an important result has been reached concerning some findings of the character of a parenchymatous degeneration of systems of nerve-fibres and of cell-types in certain forms of melancholia, of alcoholic-senile processes, etc., presented to Boston Medico-Psychological Society and published in "Brain." The principal result is that the anatomical condition is far more extensive than had been supposed by Turner, Worcester and others who had come

across it since my first publication in 1897, and that Turner forced the facts when he thought he had found in the condition an explanation for both melancholia and mania. The degeneration is found in many parts which are not supposed to have anything to do with the mental symptoms, and this leads us to insist upon an important practical hint at variance with the recommendations of the leading German students in this field, viz. : their claim that the pathological anatomy of mental diseases is to be sought in the cerebral cortex. Our findings and the hasty conclusions of Turner together show that the day has not come when restriction of work on too narrow parts of the nervous system will not lead, of necessity, to narrow and easily wrong views.

The studies on special cell-types have been continued, but they have been withheld from publication because a number of points require clearing up, and because it is not desirable that the literature should be swelled with simple descriptions before sufficiently useful explanations can accompany them. A summary of the principal facts is now in preparation for an article on the general pathology of insanity for the "American Reference Handbook of Medical Science."

In the studies of the blood, as in the other lines, much of the results tend to invalidate hasty claims of the existing literature ; and a certain attitude of distrust which was entertained concerning the curious wave of "blood work" in previous reports can hardly be said to have been dispelled. Some interesting studies have been carried further by Dr. Hoch on the blood changes in a case of episodic epileptic insanity. They will be published in connection with some allied material.

An interesting study has been made on the question of excretion of indican in various types and stages of mental disorders, by Dr. Coriat. His contribution will soon be in shape for publication.

A leave of absence granted me made it possible to see some of the leading research stations in Europe, to attend several important European conventions, and to add to the foundation for some topics of clinical research by work in various clinics. A few words of comment concerning the impressions obtained may accompany my expression of thanks to the administration of this hospital.

My first visits were paid to the central laboratories of the Scotch and London asylums. Both these establishments are the outcome of a desire for progress and for the utilization of autopsy material of interest. The Edinburgh laboratory, under the direction of Dr. Ford Robertson, is quite detached from the asylums. The London laboratory, under the direction of Dr. F. W. Mott, is attached to the large Claybury Asylum, but also without direct official connection. Dr. Ford Robertson is a very efficient worker and originator in neurological technique, and has made a number of interesting contributions to the histology of the neuroglia and a number of conditions met with in the insane, such as othæmatoma, chronic leptomeningitis, hæmorrhagic pachymeningitis, etc., collected in his "Pathology of Insanity." Dr. Mott, whose connection with the Charing-Cross Hospital secures a large neurological material, has devoted much work to the problem of neuro-syphilis and the etiological importance of syphilis in general paralysis. Together with Professor Halliburton, he has established the existence of cholin in the cerebro-spinal fluid of general paralytics, and, moreover, the parallelism existing between amount of cholin and amount of decay of myelin-sheaths. There are also extensive studies on tabes in progress, and his assistants and collaborators have devoted much work to brain-lesions, etc.

In Amsterdam the neurological clinic at the central hospital and the psychiatric department of a second city hospital are both in the hands of Professor Winkler, the chief weight lying on the excellent neurological clinic and laboratories.

In Utrecht Professor Zichen is constructing a psychiatric clinic with a psychological and neurological laboratory, to replace the present clinic, situated in an old city asylum. Clinic and laboratories are institutes of the university, — a very excellent side of the union of State and university interests existing on the European continent.

The conditions in Vienna and in Berlin, Giessen and Heidelberg are so well known that no special description is needed, beyond the mention of the new clinic which is in construction at the Charité in Berlin. As in the other university towns of Germany, there exists already, or there is planned, a clinic for mental diseases, consisting of a small hospital of 40 to 150 beds, usually close by the other university hospitals, and supplied



with laboratories. These clinics are under the same rules as the ordinary State hospitals, but naturally with better provisions for research and the teaching of research, and provided with an especially well-selected staff.

In Florence the very large but well-arranged asylum is under the direction of Professor Tanzi. The hospital is divided into several relatively independent services and an admission division which is used as clinic, and has an excellent staff with very good laboratory facilities.

In Switzerland the conditions are similar to those in Germany. I visited the new asylum near Geneva, the clinic Waldau near Bern, the asylum for chronic cases in Rheinau (with large agricultural colony) and the Burghölzli. The use of ordinary farm-houses at Bern appealed to me very much. They are in every respect merely improved farm-houses, not asylum buildings.

This is not the place to enter upon the details of investigations and their possible influence on our own plans of work. Everywhere, also in the congress at Berlin, one sees strong efforts towards getting more solid foundations in clinical psychiatry. It is striking how everywhere the laboratory work is given the position of an adjunct, not of the centre, as is unfortunately the tendency in Anglo-Saxon countries. In this direction Edinburgh is likely to take the first step towards the construction of hospital wards for the central institute of psychiatry.

On the feelings concerning our own work here the whole review of European efforts has had the effect of a wholesome corroboration of the intentions with which we started out in this hospital, and the only regret is that they had to be adapted to such a large material.

I cannot suppress one observation which seems to me very suggestive. In one asylum in Great Britain, in which I found a remarkably wide-awake spirit for psychiatric work, the conditions were so strikingly different from those usually met with in this country that I wish to mention them. The asylum has about 300 patients, and 80 admissions per year. The superintendent and his assistant find it possible to get through their routine duties between 10 o'clock and 2. The rest of the day can be devoted to special work, and I must say it is devoted

to work which shows the wholesome influence of a feeling of one's having done one's duty and of one's doing in addition the labor of love for science. I hope to review the work of this asylum more fully when some of the very promising studies carried on there will be published and open to discussion. A happier and more hopeful and satisfied feeling I never carried away from a short visit to an asylum than from this Murdoch Asylum and Dr. L. Bruce.

If an application of the various experiences may be made to our condition, it is this : that it is to be regretted that only very large hospitals should be allowed to be seats of research. For a satisfactory expansion of one's spirit of work a certain ease of action is necessary, free from the dead pressure of excessive expectations, and, moreover, a feeling that there is some time to spare ; that a loss of time on a set of experiments that turn out negatively is not a waste of time which would mean neglect of duty.

I conclude this account with the expression of my thanks for the co-operation of the authorities, and especially for the untiring and faithful work of my associates.

Yours respectfully,

ADOLF MEYER.

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**STATISTICAL TABLES.**

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I. — General Statistics of the Year.

	INSANE.			HABITUAL DRUNKARDS.			AGGREGATES.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Patients in the house Oct. 1, 1900, . . . . .	499	583	1,082	-	8	8	499	591	1,090
Admitted within the year, . . . . .	291	288	579	-	9	9	291	297	588
Whole number of cases within the year, . . . . .	790	871	1,661	-	17	17	790	888	1,678
Discharged within the year:—									
Viz: as recovered at time of leaving the hospital,									
as much improved, . . . . .	50	33	83	-	8	8	50	41	91
as improved, . . . . .	42	50	92	-	2	2	42	52	94
as not improved, . . . . .	47	35	82	-	-	-	47	35	82
as not insane, . . . . .	52	125	177	-	-	-	52	125	177
Deaths, . . . . .	2	-	2	-	-	-	2	-	2
Patients remaining Sept. 30, 1901:—	69	65	134	-	-	-	69	65	134
Viz.: supported as State patients,									
as town patients, . . . . .	181	157	338	-	3	3	181	160	341
as private patients, . . . . .	286	300	586	-	3	3	286	303	589
Number of different persons within the year, . . . . .	61	106	167	-	1	1	61	107	168
Number of different persons admitted within the year, . . . . .	775	868	1,643	-	17	17	775	885	1,660
Number of different persons recovered within the year, . . . . .	282	288	570	-	9	9	282	297	579
Daily average number of patients:—									
Viz.: State patients, . . . . .	49	33	83	-	8	8	49	41	90
town patients, . . . . .	-	-	-	-	-	-	170.36	140.24	310.60
private patients, . . . . .	-	-	-	-	-	-	285.49	323.52	609.01
	-	-	-	-	-	-	57.88	110.43	168.31

2. — *Monthly Admissions, Discharges and Averages.*

MONTHS.	ADMISSIONS.			DISCHARGES.			DEATHS.			DAILY AVERAGE OF PATIENTS IN THE HOUSE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
<b>1900.</b>												
October, . . . . .	26	25	51	19	48	67	7	3	10	495.19	555.73	1,050.92
November, . . . . .	31	24	55	16	10	26	6	3	9	498.06	554.13	1,052.19
December, . . . . .	26	18	44	20	31	51	6	5	11	498.19	553.26	1,051.45
<b>1901.</b>												
January, . . . . .	20	15	35	15	9	24	8	5	13	498.63	549.87	1,048.51
February, . . . . .	15	19	34	7	3	10	8	6	14	499.39	556.12	1,055.50
March, . . . . .	22	31	53	10	13	23	2	6	8	502.80	562.03	1,064.83
April, . . . . .	24	36	60	13	17	30	4	1	5	514.86	589.46	1,104.33
May, . . . . .	28	22	50	11	12	23	4	6	10	518.77	593.93	1,112.70
June, . . . . .	26	27	53	5	8	13	4	10	14	533.46	592.76	1,126.23
July, . . . . .	24	25	49	17	13	30	9	5	14	533.71	596.00	1,129.71
August, . . . . .	20	26	46	21	20	41	2	6	8	536.00	607.48	1,143.48
September, . . . . .	29	29	58	39	69	108	9	9	18	535.63	579.60	1,115.23
Total of cases, . . . . .	291	297	588	193	253	446	69	65	134	-	-	-
Total of persons, . . . . .	282	297	579	191	253	444	69	65	134	-	-	-
Daily average, . . . . .	-	-	-	-	-	-	-	-	-	513.73	574.19	1,087.92

3. — *Received on First and Subsequent Admissions.*

NUMBER OF THE ADMISSION.	CASES ADMITTED.			TIMES PREVIOUSLY RECOVERED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
First, . . . . .	236	256	492	—	—	—
Second, . . . . .	40	26	66	13	5	18
Third, . . . . .	10	9	19	6	5	11
Fourth, . . . . .	2	4	6	1	3	4
Fifth, . . . . .	1	—	1	—	—	—
Sixth, . . . . .	—	2	2	—	2	2
Seventh, . . . . .	1	—	1	1	—	1
Eighth, . . . . .	1	—	1	1	—	1
Total of cases, . . . . .	291	297	588	22	15	37
Total of persons, . . . . .	282	297	579	20	15	35

4. — *Relation to Hospital of Persons admitted.*

	Males.	Females.	Totals.
Never before in any hospital for insane, . . . . .	212	237	449
Former inmates of this hospital only, . . . . .	51	34	85
Former inmates of other hospitals only, . . . . .	24	19	43
Former inmates of this and other hospitals: —			
Butler, R. I., . . . . .	—	1	1
Danvers, . . . . .	2	1	3
Danvers and Westborough, . . . . .	1	—	1
Medfield, . . . . .	1	2	3
McLean and Westborough, . . . . .	—	1	1
Northampton, . . . . .	—	1	1
Montreal, Canada, . . . . .	—	1	1
Total of cases, . . . . .	291	297	588

## 5. — Parentage of Persons admitted.

PLACES OF NATIVITY.	MALES.		FEMALES.		TOTALS.	
	Father.	Mother.	Father.	Mother.	Father.	Mother.
Massachusetts, . . . . .	45	38	29	33	74	71
Other States:—						
Maine, . . . . .	9	8	8	13	17	21
New Hampshire, . . . . .	2	5	7	3	9	8
Vermont, . . . . .	6	5	4	3	10	8
Rhode Island, . . . . .	2	3	3	2	5	5
Connecticut, . . . . .	4	4	1	1	5	5
New York, . . . . .	7	7	2	3	9	10
New Jersey, . . . . .	1	2	1	—	2	2
Pennsylvania, . . . . .	2	2	—	—	2	2
Virginia, . . . . .	3	2	—	—	3	2
North Carolina, . . . . .	—	—	2	2	2	2
Georgia, . . . . .	—	1	—	—	—	1
Other countries:—						
Canada, . . . . .	16	17	7	6	23	23
Nova Scotia, . . . . .	3	4	5	4	8	8
New Brunswick, . . . . .	3	5	4	3	7	8
Newfoundland, . . . . .	1	1	3	4	4	5
Prince Edward Island, . . . . .	2	2	—	—	2	2
Scotland, . . . . .	5	5	2	1	7	6
England, . . . . .	17	15	8	6	25	21
Ireland, . . . . .	92	91	105	107	197	198
Sweden, . . . . .	9	9	13	12	22	21
France, . . . . .	2	2	1	—	3	2
Denmark, . . . . .	—	—	1	1	1	1
Germany, . . . . .	4	4	5	6	9	10
Austria, . . . . .	1	1	—	—	1	1
Armenia, . . . . .	1	1	—	—	1	1
Hungary, . . . . .	—	—	1	1	1	1
Roumania, . . . . .	1	1	—	—	1	1
Spain, . . . . .	—	—	1	—	1	—
Italy, . . . . .	4	4	2	2	6	6
Turkey, . . . . .	1	1	—	—	1	1
Finland, . . . . .	2	2	4	4	6	6
Poland, . . . . .	—	—	1	1	1	1
Russia, . . . . .	2	2	2	2	4	4
Australia, . . . . .	—	—	1	1	1	1
Unknown, . . . . .	35	38	74	76	109	114
Total of persons, . . . . .	282	282	297	297	579	579



6. — *Birthplace of Persons admitted.*

PLACES OF BIRTH.	Males.	Females.	Totals.
Massachusetts, . . . . .	105	95	200
Other States :—			
Maine, . . . . .	7	13	20
New Hampshire, . . . . .	3	5	8
Vermont, . . . . .	4	5	9
Rhode Island, . . . . .	1	5	6
Connecticut, . . . . .	3	2	5
New York, . . . . .	8	5	13
New Jersey, . . . . .	1	—	1
Pennsylvania, . . . . .	3	—	3
Ohio, . . . . .	1	3	4
Virginia, . . . . .	2	—	2
North Carolina, . . . . .	—	3	3
South Carolina, . . . . .	—	1	1
Illinois, . . . . .	1	1	2
Louisiana, . . . . .	2	—	2
Tennessee, . . . . .	1	—	1
Kansas, . . . . .	—	1	1
California, . . . . .	—	1	1
Other countries :—			
Canada, . . . . .	17	15	32
Nova Scotia, . . . . .	6	9	15
Cape Breton, . . . . .	1	—	1
Prince Edward Island, . . . . .	3	—	3
New Brunswick, . . . . .	6	6	12
Newfoundland, . . . . .	2	6	8
Scotland, . . . . .	3	1	4
England, . . . . .	10	9	19
Ireland, . . . . .	48	72	120
Sweden, . . . . .	8	12	20
France, . . . . .	1	—	1
Denmark, . . . . .	—	1	1
Finland, . . . . .	2	4	6
Poland, . . . . .	—	1	1
Germany, . . . . .	4	4	8
Austria, . . . . .	1	2	3
Hungary, . . . . .	—	2	2
Armenia, . . . . .	2	1	3
Roumania, . . . . .	1	—	1
Spain, . . . . .	—	1	1
Italy, . . . . .	4	2	6
Greece, . . . . .	1	—	1
Turkey, . . . . .	1	—	1
Russia, . . . . .	3	2	5
Unknown, . . . . .	16	7	23
Totals, . . . . .	282	297	579

7. — *Residence of Persons admitted.*

PLACES.	Males.	Females.	Totals.
Massachusetts (by counties) : —			
Bristol, . . . . .	2	—	2
Essex, . . . . .	2	—	2
Hampden, . . . . .	—	1	1
Hampshire, . . . . .	—	1	1
Middlesex, . . . . .	97	84	181
Norfolk, . . . . .	7	6	13
Suffolk, . . . . .	40	65	105
Worcester, . . . . .	134	140	274
Totals, . . . . .	282	297	579
Cities or towns, . . . . .	282	297	579

8. — *Civil Condition of Persons admitted.*

NUMBER OF THE ADMISSION.	UNMARRIED.			MARRIED.			WIDOWED.			DIVORCED.			UNKNOWN.			TOTALS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
First, . . . . .	110	88	198	88	114	202	18	41	59	2	4	6	13	9	22	231	256	487
Second, . . . . .	18	12	30	15	10	25	1	3	4	2	-	2	2	1	3	38	26	64
Third, . . . . .	4	1	5	4	7	11	2	1	3	-	-	-	-	-	-	10	9	19
Fourth, . . . . .	-	1	1	1	2	3	-	1	1	-	-	-	-	-	-	1	4	5
Fifth, . . . . .	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
Sixth, . . . . .	-	1	1	-	1	1	-	-	-	-	-	-	-	-	-	-	2	2
Eighth, . . . . .	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
Totals, . . . . .	134	103	237	108	134	242	21	46	67	4	4	8	15	10	25	282	297	579

## 9.—Occupation of Persons admitted.

## FEMALES.

Artists, . . . . .	2	Saleswoman, . . . . .	1
Attendant, . . . . .	1	Scrubwoman, . . . . .	1
Canvasser, . . . . .	1	Seamstress, . . . . .	1
Clerks, . . . . .	2	Stenographer, . . . . .	1
Cooks, . . . . .	3	Stitcher, . . . . .	1
Domestics, . . . . .	57	Students, . . . . .	2
Dressmakers, . . . . .	5	Teacher, . . . . .	1
Housekeepers, . . . . .	47	Waistmaker, . . . . .	1
Housewives, . . . . .	69	Waitresses, . . . . .	3
Laundresses, . . . . .	3	Washerwoman, . . . . .	1
Merchant, . . . . .	1	Wireworker, . . . . .	1
Milliners, . . . . .	3	Unknown, . . . . .	13
Music teacher, . . . . .	1	No occupation, . . . . .	63
Operatives, . . . . .	11		
Physician, . . . . .	1	Total, . . . . .	297

## MALES.

Agent, . . . . .	1	Confectioner, . . . . .	1
Architect, . . . . .	1	Cooks, . . . . .	3
Baker, . . . . .	1	Core maker, . . . . .	1
Barbers, . . . . .	2	Cracker salesman, . . . . .	1
Bartenders, . . . . .	2	Currier, . . . . .	1
Blacksmiths, . . . . .	2	Dentists, . . . . .	2
Bobbin maker, . . . . .	1	Druggists, . . . . .	4
Butchers, . . . . .	3	Engineer, . . . . .	1
Cabinet maker, . . . . .	1	Express agent, . . . . .	1
Carpenters, . . . . .	6	Farmers, . . . . .	16
Carriage painter, . . . . .	1	Fireman, . . . . .	1
Chair maker, . . . . .	1	Fisherman, . . . . .	1
Choreman, . . . . .	1	Foreman, . . . . .	1
City treasurer, . . . . .	1	Gardeners, . . . . .	3
Clerks, . . . . .	10	Grocer, . . . . .	1
Coachmen, . . . . .	2	Hostlers, . . . . .	2
Collector, . . . . .	1	Hotel porter, . . . . .	1
Comb maker, . . . . .	1	Insurance agents, . . . . .	2

9. — *Occupation of Persons admitted* — Concluded.

## MALES — Concluded.

Ironworker, . . . . .	1	Roofer, . . . . .	1
Janitor, . . . . .	1	Rope maker, . . . . .	1
Laborers, . . . . .	60	Rubber works, . . . . .	3
Last maker, . . . . .	1	Salesmen, . . . . .	2
Lineman, . . . . .	1	Sailor, . . . . .	1
Longshoreman, . . . . .	1	Sculptor, . . . . .	1
Machinists, . . . . .	7	Steam fitters, . . . . .	2
Marble cutter, . . . . .	1	Steel worker, . . . . .	1
Master mariner, . . . . .	1	Steward, . . . . .	1
Masons, . . . . .	2	Shoe business, . . . . .	2
Mechanics, . . . . .	4	Shoemakers, . . . . .	6
Medicine manufacturer, . . . . .	1	Shop keeper, . . . . .	1
Metal spinner, . . . . .	1	Soldier, . . . . .	1
Motormen, . . . . .	2	Spinner, . . . . .	1
Nurse, . . . . .	1	Stone cutters, . . . . .	2
Office boy, . . . . .	1	Students, . . . . .	4
Operatives, . . . . .	12	Teacher, . . . . .	1
Optical works, . . . . .	1	Teamsters, . . . . .	3
Oyster opener, . . . . .	1	Trader, . . . . .	1
Painters, . . . . .	6	Watchman, . . . . .	1
Paper hanger and painters, . . . . .	2	Watchman and gardener, . . . . .	1
Physicians, . . . . .	2	Wood moulders, . . . . .	2
Plumber, . . . . .	1	Woodworker, . . . . .	1
Policeman, . . . . .	1	Unknown, . . . . .	13
Printer, . . . . .	1	No occupation, . . . . .	28
Railroad employees, . . . . .	4		
Real estate agent, . . . . .	1	Total, . . . . .	282
Retired, . . . . .	2		

10. — Probable Causes of Disease in Persons admitted.

CAUSES.	PERSONS ADMITTED.						INSANE.						HABITUAL DRUNKARDS.					
	INSANE.			HABITUAL DRUNKARDS.			PREVIOUS ATTACKS.			HEREDITARY PREDISPOSITION.			PREVIOUS ATTACKS.			HEREDITARY PREDISPOSITION.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Alcohol, . . . . .	59	19	78	-	8	8	19	3	22	15	2	17	-	1	1	-	2	2
Alcohol and other causes, . . . . .	31	8	39	-	-	-	11	1	12	4	-	4	-	-	-	-	-	-
Brain lesion, . . . . .	4	12	16	-	-	-	2	2	4	2	-	2	-	-	-	-	-	-
Bromides, . . . . .	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Constitutional inferiority, . . . . .	15	7	22	-	-	-	6	2	8	5	1	6	-	-	-	-	-	-
Disipation, . . . . .	-	2	2	-	-	-	-	2	2	-	1	1	-	-	-	-	-	-
Epilepsy, . . . . .	5	3	8	-	-	-	4	1	5	-	1	1	-	-	-	-	-	-
Family trouble, . . . . .	-	13	13	-	-	-	-	3	3	-	6	6	-	-	-	-	-	-
Gas poisoning, . . . . .	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heredity, . . . . .	23	43	66	-	-	-	12	20	32	23	43	66	-	-	-	-	-	-
Ill health, . . . . .	11	24	35	-	-	-	3	5	8	2	4	6	-	-	-	-	-	-
Ill health and other causes, . . . . .	1	9	10	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-
Infectious process, . . . . .	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Masturbation, . . . . .	23	4	27	-	-	-	4	2	6	16	1	17	-	-	-	-	-	-
Masturbation and other causes, . . . . .	15	3	18	-	-	-	4	-	4	4	-	4	-	-	-	-	-	-
Menopause, . . . . .	-	13	13	-	-	-	-	4	4	-	3	3	-	-	-	-	-	-



II. — Record of Cases admitted within the Year.

	PATIENTS.			INSANE.			HABITUAL DRUNKARDS.			AGGREGATES.			
		Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Admitted, . . . . .	291	288	579	—	9	9	291	297	588				
Discharged, recovered, . . . . .	28	22	50	—	3	3	28	25	53				
much improved, . . . . .	23	26	49	—	1	1	23	27	50				
improved, . . . . .	26	16	42	—	—	—	26	16	42				
not improved, . . . . .	26	19	45	—	—	—	26	19	45				
not insane, . . . . .	1	—	1	—	—	—	1	—	1				
Died, . . . . .	25	25	50	—	—	—	25	25	50				
Remaining Sept. 30, 1901, . . . . .	162	180	342	—	5	5	162	185	347				
Number likely to recover or improve, . . . . .	72	43	115	—	3	3	72	46	118				



12. — *Ages of Insane at First Attack, Admission and Death.*

AGES.	PERSONS FIRST ADMITTED TO ANY HOSPITAL.						PERSONS DIED.					
	AT FIRST ATTACK.			WHEN ADMITTED.			AT FIRST ATTACK.			AT TIME OF DEATH.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital, . . . . .	3	2	5	-	-	-	-	-	-	-	-	-
15 years and less, . . . . .	1	5	6	1	2	3	1	2	3	-	-	-
From 15 to 20 years, . . . . .	12	3	15	13	8	21	1	3	4	-	1	1
20 to 25 years, . . . . .	18	22	40	24	19	43	4	5	9	3	4	7
25 to 30 years, . . . . .	28	22	50	34	29	63	3	4	7	3	2	5
30 to 35 years, . . . . .	22	30	52	22	31	53	2	2	4	3	3	6
35 to 40 years, . . . . .	19	29	48	30	39	69	5	7	12	4	3	7
40 to 50 years, . . . . .	25	31	56	30	47	77	17	11	28	15	11	26
50 to 60 years, . . . . .	15	18	33	17	29	46	8	11	19	8	14	22
60 to 70 years, . . . . .	9	11	20	14	11	25	15	8	23	14	7	21
70 to 80 years, . . . . .	8	11	19	14	17	31	10	8	18	16	14	30
Over 80 years, . . . . .	3	2	5	6	4	10	1	1	2	3	6	9
Unknown, . . . . .	49	51	100	7	1	8	2	3	5	-	-	-
Total of persons, . . . . .	212	237	449	212	237	449	69	65	134	69	65	134
Mean ages in years, . . . . .	37.6	38.7	38.1	40.0	39.9	39.9	51.0	46.3	48.6	55.7	55.3	55.5

13. — *Reported Duration of Disease before Last Admission.*

PREVIOUS DURATION.	FIRST ADMISSION TO ANY HOSPITAL.			ALL OTHER ADMISSIONS.			TOTALS.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital, . . . . .	2	2	4	4	-	4	6	2	8
Under 1 month, . . . . .	65	53	118	21	11	32	86	64	150
From 1 to 3 months, . . . . .	24	37	61	10	14	24	34	51	85
3 to 6 months, . . . . .	12	20	32	4	6	10	16	26	42
6 to 12 months, . . . . .	10	10	20	3	1	4	13	11	24
1 to 2 years, . . . . .	23	14	37	2	5	7	25	19	44
2 to 5 years, . . . . .	17	20	37	8	3	11	25	23	48
5 to 10 years, . . . . .	4	11	15	1	-	1	5	11	16
10 to 20 years, . . . . .	5	4	9	1	1	2	6	5	11
Over 20 years, . . . . .	-	1	1	2	-	2	2	1	3
Unknown, . . . . .	50	65	115	23	19	42	73	84	157
Total of cases, . . . . .	212	237	449	79	60	139	291	297	588
Total of persons, . . . . .	212	237	449	70	60	130	282	297	579
Average in years, . . . . .	1.23	1.62	1.42	3.57	.83	2.2	2.4	1.22	1.81



## 15. — Discharges, classified by Admission and Result.

NUMBER OF THE ADMISSION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			NOT IMPROVED.			DIED.			NOT INSANE.			TOTALS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
First,	41	35	76	34	40	74	42	29	71	37	93	130	66	60	126	1	-	1	221	257	478
Second,	7	4	11	7	7	14	4	5	9	10	25	35	2	5	7	1	-	1	31	46	77
Third,	2	1	3	1	2	3	-	1	1	3	4	7	-	-	-	-	-	-	6	8	14
Fourth,	-	-	-	-	2	2	-	-	-	2	3	5	-	-	-	-	-	-	2	5	7
Fifth,	-	1	1	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	1	1	2
Sixth,	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	1	-	1
Seventh,	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
Eighth,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total of cases,	50	41	91	42	52	94	47	35	82	52	125	177	69	65	134	2	-	2	262	318	580
Total of persons,	49	41	90	42	52	94	47	35	82	51	125	176	69	65	134	2	-	2	260	318	578



Pancreatic, hepatic and intestinal hæmorrhage, . . . . .	1	1	5	26	25	17	42	6	7	13	2	1	3	8
Volvulus of sigmoid, . . . . .	1	1	-	-	-	-	-	-	-	-	-	-	-	8
Peritonitis, . . . . .	3	3	-	-	-	-	-	-	-	-	-	-	-	8
Acute peritonitis and rupture of colon, . . . . .	1	1	1	1	1	1	1	-	-	-	-	-	-	2
Brain tumor, . . . . .	2	2	-	-	-	-	-	-	1	1	-	-	-	1
Encephalomalacia, . . . . .	1	1	1	1	1	1	2	-	-	2	-	-	-	1
Cerebral hæmorrhage, . . . . .	3	3	-	-	-	-	-	-	-	-	-	-	-	1
Convulsions, . . . . .	1	1	1	1	-	-	-	-	-	-	-	-	-	1
Status epilepticus, . . . . .	1	1	-	-	-	-	-	-	1	1	-	-	-	1
Carcinoma of larynx, . . . . .	1	1	1	1	-	-	-	-	-	-	-	-	-	1
Carcinoma of stomach, . . . . .	1	1	-	-	-	-	-	-	-	-	-	-	-	1
Carcinoma of duodenum, . . . . .	1	1	-	-	-	-	-	-	-	-	-	-	-	1
Carcinoma of breast, . . . . .	1	1	-	-	-	-	1	-	-	-	-	-	-	1
Carcinoma of liver, . . . . .	1	1	-	-	-	-	-	-	-	-	-	-	-	1
Stomatitis ulcerosa, . . . . .	1	1	-	-	-	-	-	-	-	-	-	-	-	1
Exhaustion, . . . . .	1	1	-	-	-	-	-	1	1	1	-	-	-	1
Septicæmia, . . . . .	2	3	1	1	-	-	-	-	-	-	-	-	-	1
Gangrene of foot, . . . . .	1	1	1	1	-	-	-	-	-	-	-	-	-	1
Tubercular sphenoid caries, . . . . .	1	1	-	-	-	-	-	-	-	-	-	-	-	1
Tubercular meningitis, . . . . .	1	1	-	-	-	-	-	-	-	-	-	-	-	1
Pernicious anæmia, . . . . .	1	1	-	-	-	-	-	-	-	-	-	-	-	1
Diphtheria, . . . . .	1	1	-	-	-	-	-	-	-	-	-	-	-	1
Totals, . . . . .	69	65	134	21	5	26	25	17	42	6	7	13	2	8





## 17. — Recoveries, classified by Duration of Disease and Treatment.

PERIOD.	LAST ATTACK.						ALL ATTACKS.								
	DURATION BEFORE ADMISSION.			HOSPITAL RESIDENCE.			WHOLE DURATION FROM THE ATTACK.			WHOLE KNOWN PERIOD OF MENTAL DISEASE.			WHOLE KNOWN PERIOD OF HOSPITAL RESIDENCE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
A. — Insane:—															
Under 1 month, . . . . .	23	12	35	5	4	9	2	2	4	2	2	4	9	5	14
From 1 to 3 months, . . . . .	3	5	8	23	15	38	11	6	17	7	6	13	19	14	33
3 to 6 months, . . . . .	3	3	6	12	8	20	7	4	11	8	4	12	15	8	23
6 to 12 months, . . . . .	3	3	6	6	5	11	7	4	11	8	4	12	7	6	13
1 to 2 years, . . . . .	2	2	4	3	1	4	5	3	8	5	3	8	3	2	5
2 to 5 years, . . . . .	—	3	3	—	—	—	1	2	3	—	3	3	—	—	—
5 to 10 years, . . . . .	—	—	—	—	—	—	—	—	—	—	1	1	—	—	—
10 to 20 years, . . . . .	—	—	—	1	—	1	1	—	1	—	—	—	1	—	1
Over 20 years, . . . . .	16	10	26	—	—	—	16	10	26	—	—	—	—	—	—
Unknown, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals, . . . . .	50	33	83	50	33	83	50	33	83	50	33	83	50	33	83
Average of known cases (in months), . . . . .	2.09	3.65	2.87	8.04	3.42	5.73	3.98	7.48	5.73	13.26	15	14.13	7.54	4.54	6.04
B. — Habitual drunkards:—															
Under 1 month, . . . . .	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—
From 1 to 3 months, . . . . .	—	—	—	—	3	3	—	1	1	—	1	1	—	3	3
3 to 6 months, . . . . .	—	—	—	—	2	2	—	—	—	—	—	—	—	2	2
6 to 12 months, . . . . .	—	—	—	—	1	1	—	—	—	—	—	—	—	1	1
1 to 2 years, . . . . .	—	—	—	—	2	2	—	—	—	—	—	—	—	2	2
2 to 5 years, . . . . .	—	1	1	—	—	—	—	1	1	—	—	—	—	—	—
5 to 10 years, . . . . .	—	2	2	—	—	—	—	2	2	—	—	—	—	—	—
Unknown, . . . . .	—	4	4	—	—	—	—	4	4	—	—	—	—	—	—
Totals, . . . . .	—	8	8	—	8	8	—	8	8	—	8	8	—	8	8
Average of known cases (in months), . . . . .	—	49.5	49.5	—	5.87	5.87	—	54	54	—	54	54	—	6.25	6.25



18. — Deaths, classified by Duration of Disease and Treatment.

PERIOD.	LAST ATTACK.						ALL ATTACKS.								
	DURATION BEFORE ADMISSION.			HOSPITAL RESIDENCE.			WHOLE DURATION FROM THE ATTACK.			WHOLE KNOWN PERIOD OF MENTAL DISEASE.			WHOLE KNOWN PERIOD OF HOSPITAL RESIDENCE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Under 1 month, . . . . .	7	11	18	11	12	23	2	3	5	2	2	4	11	11	22
From 1 to 3 months, . . . . .	9	10	19	9	8	17	2	5	7	2	2	4	9	8	17
3 to 6 months, . . . . .	3	4	7	9	6	15	1	4	5	5	1	5	8	6	14
6 to 12 months, . . . . .	2	6	8	12	6	18	3	4	7	3	3	6	13	5	18
1 to 2 years, . . . . .	9	3	12	11	12	23	8	6	14	8	7	15	10	12	22
2 to 5 years, . . . . .	12	7	19	9	10	19	19	9	28	18	8	26	10	12	22
5 to 10 years, . . . . .	-	5	5	4	6	10	3	9	12	4	4	14	4	6	10
10 to 20 years, . . . . .	-	1	1	4	1	5	6	3	9	6	3	9	4	1	5
Over 20 years, . . . . .	-	1	1	-	4	4	-	5	5	-	5	5	-	4	4
Unknown, . . . . .	25	17	42	-	-	-	25	17	42	25	18	43	-	-	-
Totals, . . . . .	69	65	134	69	65	134	69	65	134	69	65	134	69	65	134
Average of known cases (in months), . . . . .	20.9	24.98	22.94	25.71	44.97	35.34	50.87	81.25	66.06	53.83	83.24	68.53	26.08	47.10	36.59













## LIST OF PERSONS

EMPLOYED IN THE WORCESTER INSANE HOSPITAL, SEPT. 30, 1901.

---

Superintendent and physician, per year, . . . . .	\$3,000 00
Assistant superintendent and physician, per year, . . . . .	1,800 00
Assistant physician, per year (non-resident), . . . . .	2,000 00
Assistant physicians (two), each, per year, . . . . .	1,000 00
Assistant physician, per year, . . . . .	800 00
Junior assistant physicians (four), each, per year, . . . . .	400 00
Steward, per year, . . . . .	1,200 00
Matron, per year, . . . . .	600 00
Clerk, per year, . . . . .	720 00
Treasurer, per year, . . . . .	500 00
Auditor, per year, . . . . .	75 00
Stenographer and typewriters (two), per month, . . . . .	\$60 00 and 30 00
Stenographers and typewriters (two), per week, . . . . .	10 00 and 8 00
Supervisor (man), per month, . . . . .	45 00
Assistant supervisors (two men), each, per month, . . . . .	40 00
Supervisors (three women), each, per month, . . . . .	25 00
Marker of clothing, etc., per month, . . . . .	20 00
Seamstresses (three), per month, . . . . .	18 00 and 22 50
Attendants (forty-seven men), per month, . . . . .	23 00 to 28 00
Attendants (fifty-three women), per month, . . . . .	14 00 to 18 00
Night attendants (seven men), per month, . . . . .	25 00 to 28 00
Night attendants (eight women), per month, . . . . .	18 00
Baker, per month, . . . . .	50 00
Assistant baker, per month, . . . . .	30 00
Steward's assistant, per month, . . . . .	30 00
Kitchen men (three), per month, . . . . .	25 00 to 45 00
Cooks (two), per month, . . . . .	25 00 and 28 00
Laundry man, per month, . . . . .	30 00
Laundress, per month, . . . . .	20 00
Assistant laundry man, per month, . . . . .	25 00



Laundry girls (eight), per month, . . . . .	\$14 00 to	\$18 00
Kitchen girls (five), per month, . . . . .	14 00 to	18 00
House girls (eight), per month, . . . . .	14 00 to	16 00
Office girl, per month, . . . . .		16 00
Carpenter, per day, . . . . .		3 00
Painter, per day, . . . . .		2 50
Mason, per day, . . . . .		3 25
Mason's helper, per day, . . . . .		2 25
Plumber, per month, . . . . .		75 00
Engineer, per day, . . . . .		2 50
Firemen (two), per month, . . . . .		40 00
Farmer, per month, . . . . .		60 00
Housekeeper, per month, . . . . .		20 00
Farm laborers (fifteen), per month, . . . . .	23 00 to	30 00
Farm engineer, per month, . . . . .		30 00
Farm help (five women), per month, . . . . .	14 00 to	18 00
Florist, per month, . . . . .		45 00
Coachman, per month, . . . . .		25 00
Expressman, per month, . . . . .		25 00
Butcher, per month, . . . . .		30 00
Basement and yard man, per month, . . . . .		25 00

## PRODUCTS OF THE FARM

ON HAND OCT. 1, 1901, AND NOT DELIVERED AT THE HOSPITAL.

---

Apples, . . . . .	167 barrels.
Barley fodder, . . . . .	10 tons.
Beans, lima, . . . . .	75 bushels.
Beets, . . . . .	575 bushels.
Cabbages, . . . . .	5,000 heads.
Carrots, . . . . .	280 bushels.
Cauliflower, . . . . .	50 heads.
Celery, . . . . .	5,000 heads.
Corn, sweet, . . . . .	360 dozen.
Corn fodder, . . . . .	2 tons.
Ensilage, . . . . .	500 tons.
Hay, . . . . .	300 tons.
Hay, swale, . . . . .	8 tons.
Mangolds, . . . . .	200 bushels.
Oat fodder, . . . . .	12 tons.
Onions, . . . . .	400 bushels.
Parsnips, . . . . .	200 bushels.
Rowen, . . . . .	70 tons.
Rye, . . . . .	40 bushels.
Squash, . . . . .	16,525 pounds.
Straw, rye, . . . . .	6 tons.
Tomatoes, . . . . .	200 bushels.
Turnips, . . . . .	1,000 bushels.

## FARM ACCOUNT.

DR.		
Bread, . . . . .		\$312 58
Butter, . . . . .		421 04
Current expenses, . . . . .		2,887 42
Fertilizer, . . . . .		579 05
Fish, . . . . .		183 90
Fuel, . . . . .		1,336 80
Furniture, . . . . .		129 67
Grain and meal, . . . . .		6,595 24
Groceries, etc., . . . . .		1,961 82
Ice, . . . . .		9 64
Lights, . . . . .		234 39
Live stock, . . . . .		1,552 03
Meats, . . . . .		1,839 23
Repairs, . . . . .		1,364 56
Seeds, . . . . .		171 63
Sugar, . . . . .		411 63
Wages, . . . . .		6,464 04
Water, . . . . .		193 72
		\$26,648 39
CR.		
Apples, No. 1, 545 barrels, . . . . .		\$772 00
Apples, No. 2, 85½ barrels, . . . . .		72 42
Asparagus, 10 dozen bunches, . . . . .		14 63
Beans, lima, 45¾ bushels, . . . . .		88 63
Beans, string, 27 bushels, . . . . .		18 50
Beets, 353 bushels, . . . . .		197 95
Beef, 4,977 pounds, . . . . .		385 39
Bones, sold 7,915 pounds, . . . . .		51 98
Cabbage, 202 barrels, . . . . .		208 33
Canteloupes, 264, . . . . .		13 20
Carrots, 139¼ bushels, . . . . .		81 32
Cauliflower, 18 heads, . . . . .		2 70
Chickens, 55 pounds, . . . . .		8 80
Celery, 60 dozen, . . . . .		67 75
Cider, 3,174 gallons, . . . . .		314 40
		\$2,298 00
<i>Amount carried forward,</i> . . . . .		

<i>Amount brought forward,</i>	\$2,298 00
Corn, 3,714½ dozen,	371 45
Cucumbers, 730,	7 30
Pickles, 14,400,	42 90
Dandelions, 150 bushels,	68 75
Eggs, 49½ dozen,	10 72
Egg plant, 91,	5 83
Hay, 21,275 pounds,	222 50
Hay, sold, cash,	7 30
Hides, 800 pounds,	44 75
Ice, 750 tons,	120 00
Ice sold, cash for 490 tons,	115 50
Iron, junk sold,	5 84
Kale, 51½ bushels,	36 50
Lettuce, 381½ dozen,	169 73
Live stock sold, 7 cows,	147 00
Live stock sold, 62 calves,	183 00
Mowing machine sold, cash,	10 00
Milk, 310,570 quarts,	12,422 80
Oats, 313 bushels,	112 91
Onions, 315 bushels,	250 80
Parsley,	1 49
Parsnips, 234¾ bushels,	177 26
Pears, 6 bushels,	6 63
Peas, 45½ bushels,	93 53
Plants sold, cash,	28 95
Pork, 34,708 pounds,	2,414 87
Pork, hogs and pigs sold, 106,	617 00
Radishes, 2,289 dozen,	507 33
Rhubarb, 7,259 pounds,	185 32
Spinach, 84 bushels,	63 85
Squash, 31,600 pounds,	462 72
Squash, summer, 23 dozen,	9 25
Straw, rye, 29,404 pounds,	282 13
Strawberries, 847 quarts,	128 05
Tomatoes, 268¾ bushels,	232 55
Tomatoes, green, 1½ bushels,	60
Turnips, 173 bushels,	70 49
Vegetables sold,	152 67
Watermelons, 80,	8 00
Deficit against farm,	4,552 12
	<hr/>
	\$26,648 39



