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FORTY-SEVENTH

ANNUAL REPORT OF THE TRUSTEES

OF THE

Mass.
STATE LUNATIC HOSPITAL

AT WORCESTER,

FOR THE YEAR ENDING SEPTEMBER 30, 1879.

BOSTON :

Band, Aberg, & Co., Printers to the Commonwealth,

117 FRANKLIN STREET.

1880.

Dec. 12, 79

OFFICERS OF THE HOSPITAL.

TRUSTEES.

GEN. WILLIAM S. LINCOLN	WORCESTER.
THOMAS H. GAGE, M.D.	WORCESTER.
COL. JOHN D. WASHBURN	WORCESTER.
PROF. JAMES B. THAYER	CAMBRIDGE.
ROBERT W. HOOPER, M.D.	BOSTON.

RESIDENT OFFICERS.

JOHN G. PARK, M.D.	SUPERINTENDENT.
ENOCH Q. MARSTON, M.D.	ASSISTANT PHYSICIAN.
ALBERT R. MOULTON, M.D.	ASSISTANT PHYSICIAN.
DANIEL W. BEMIS	STEWARD.
LILA J. GORDON	MATRON.
CLARENCE BUFFINTON	CLERK.
ALPHEUS YOUNG	ENGINEER.
JOEL B. HINCKLEY	FARMER.

TREASURER.

ALBERT WOOD	WORCESTER.
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Commonwealth of Massachusetts.

TRUSTEES' REPORT.

To his Excellency the Governor and the Honorable Council.

THE Trustees of the Worcester Lunatic Hospital, in compliance with the statute which requires them to make, annually, "a particular statement of the condition of the Hospital and all its concerns," "for the use of the government," respectfully submit their Forty-seventh Annual Report, and beg leave to refer, for additional details, to the annexed reports of the Superintendent and Treasurer.

The year has been marked by no striking event in the history of the Hospital. Its affairs have been conducted with harmony and success. It continues to enjoy, and appears to deserve, the confidence of the public. The general health of its inmates has been good, and the results of remedial measures for the improvement and restoration of the insane, have been fully equal to former years. Among other gratifying experiences incident to our occupancy of ampler accommodations and increased conveniences at the new Hospital, it is especially pleasing to note a reduced death rate. Whether this may reasonably be attributed to our improved hygienic conditions, or can only be regarded as an accidental coincidence, it is a fact which it is peculiarly agreeable to mention.

There were remaining in the Hospital at the date of our last annual report, 509 patients, and there have been received during the year 147; so that a total number of 656 have been under treatment. Of these, 47 have recovered; 45 have left the Hospital in an improved condition; 37 have been discharged unimproved; one was discharged "not insane;" 36

have died; and there remain under treatment 490. The daily average number has been a fraction above 493.

COST OF MAINTENANCE.

The average weekly cost of maintaining each of these patients has been \$3.79. About 300 of the whole number, supported by cities and towns, have paid at the rate of \$3.50 per week. About 73, supported by the State, have paid a part of the time at the rate of \$3.50 per week, and a part of the time at the reduced rate of \$3.00 per week. About 120 have been private patients, and have paid at an average rate of about \$5.00 per week. Thus it will be seen that the discrepancy between the amount received from the State and from cities and towns, and the actual cost of maintaining the insane chargeable to them, has fallen as a heavy tax upon private patients, and the friends who support them. This is a grievous burden imposed upon a class of patients and individuals, which, above all others, should receive encouragement and protection. It is a subject which should, in our judgment, enlist the early attention of the Legislature. As a matter of wise political economy, as well as of simple justice to individuals, we respectfully urge that the Commonwealth and its municipalities should pay at least the *cost* of maintaining their insane, and thus share equally with individual citizens the burden and expense of a great public affliction.

EXTRAORDINARY IMPROVEMENTS, ETC.

In the Treasurer's account of expenditures appears an item of \$13,998.75 for extraordinary improvements. This sum has been principally expended in enclosing and improving the large pleasure-grounds for patients, and in grading and bringing into grass the extensive territory known as the "Dump,"—a large, barren tract of "hard-pan," in the immediate front of the Hospital, caused by the deposit of material excavated in preparing the broad plateau upon which the Hospital stands. The expense of these improvements might properly have been charged to original construction account, and drawn from the appropriation made by the Legislature for building the Hospital; but the Trustees, in conformity with the intention announced in their last annual report, have paid it out of the current receipts of the Hospital. No

demand has been made upon the balance of the appropriation, which, amounting to something over \$30,000, remained in the State treasury at the date of our last report. An item of \$427.89 also appears in the Treasurer's account as paid for repairs at the Asylum for the Chronic Insane. This is the amount of some bills for repairs at the Asylum which had been incurred, but remained unpaid at the date of our last report. It is a part of an expenditure made from the funds of the Hospital, by the authority of the Trustees, to bring up arrearages of repairs at the old building,—repairs which were omitted for years in the expectation that upon completion of the new Hospital the old buildings would be destroyed. No liabilities for repairs at the Asylum have been incurred during the present year.

The Hospital continues to pay interest on a note of \$2,500, given for land purchased of Mr. Bartlett, in consequence of the legal disability of the holder of the note to receive the principal.

HOSPITAL LIBRARY FUND.

A statement of this fund appears for the first time in the Treasurer's report. It is the result of a consolidation of what have been hitherto known as the Wheeler and Lewis Funds, and has been set apart by the Trustees for the purchase and maintenance of a library for the use of patients and employés. It was believed that such permanent use of these munificent bequests would not only carry out the benevolent purposes of the donors, but would be a source of great profit and pleasure to our inmates. In order to perpetuate the memory of the benefactors, it has been provided that all books purchased from these funds shall be plainly marked as the gift to the Hospital of Miss Abigail Wheeler and Mrs. Sarah C. Lewis. The present number of books so purchased is 302, at an expense of \$453.25; and additions are constantly being made. Other benevolent persons have given the library, during the year, 85 valuable books.

SEWAGE AND IRRIGATION.

Attention is particularly invited to that part of the Superintendent's report which relates the progress made at this institution toward the final disposal of sewage by irrigation. It is believed that the works, as projected, and as partially

completed and in operation, will not only remove all possibility of creating a nuisance from this source, but will show with what simplicity and comparative economy sewage may be distributed upon the soil. We anticipate, in the result, a valuable practical contribution to one of the most important sanitarian problems of the day.

CHANGES IN THE ADMINISTRATIVE DEPARTMENT.

On the 6th of February, 1879, a communication was received from Dr. B. D. Eastman, who had been Superintendent from July 5, 1872, tendering his resignation of that office. The Trustees accepted the resignation, with an expression of the best wishes of the board for Dr. Eastman and his family in their retirement from the institution.

On the 12th of February the vacancy caused by Dr. Eastman's withdrawal, was filled by the election of Dr. John G. Park, of the Asylum for the Chronic Insane, to the office of Superintendent. Dr. Park assumed the duties of the office on the 1st of March. The subsequent election of Dr. H. M. Quinby, hitherto First Assistant Physician, to the superintendency of the Asylum, in place of Dr. Park, made a vacancy in our staff, which was filled by the choice of Dr. E. Q. Marston.

The office of Matron, made vacant by the resignation of Miss Warren, has been filled by the choice of Miss Gordon. No other changes in the official staff have occurred.

THOMAS H. GAGE,
JOHN D. WASHBURN,
JAMES B. THAYER,
R. W. HOOPER,

Trustees.

OFFICERS AND THEIR SALARIES.

John G. Park, M.D. (Superintendent)	\$2,500 00
Enoch Q. Marston, M.D. (Assistant Physician)	1,200 00
Albert R. Moulton, M.D. (Assistant Physician)	900 00
Daniel W. Bemis (Steward)	1,000 00
Lila J. Gordon (Matron)	360 00
Clarence Buffinton (Clerk)	500 00
Alpheus Young (Engineer)	1,000 00
Albert Wood (Treasurer)	500 00

VALUE OF PERSONAL ESTATE

SEPT. 30, 1879.

Live stock on the farm	\$1,450 40
Produce of the farm on hand	3,362 75
Carriages and agricultural implements	5,106 00
Machinery and mechanical fixtures	70,000 00
Beds and bedding in inmates' department	17,205 00
Other furniture in inmates' department	13,238 00
Personal property of the State in Superintendent's department	13,700 00
Ready-made clothing	225 00
Dry-goods	2,203 20
Provisions, groceries, and other supplies	5,754 08
Drugs and medicines	525 00
Fuel	3,150 00
Library	1,200 00
	\$140,119 43

TREASURER'S REPORT.

To the Trustees of the Worcester Lunatic Hospital.

GENTLEMEN, — I herewith submit my Annual Report on the finances of the Worcester Lunatic Hospital for the year ending Sept. 30, 1879: —

RECEIPTS.

Cash on hand Sept. 30, 1878	\$35,326 85
received of the Commonwealth for support of patients	13,816 20
of cities and towns for support of patients	55,634 47
of individuals for support of patients	35,689 01
for interest, sale of produce, etc.	6,590 06
belonging to patients	1,093 93
	\$148,150 52

The expenditures for the year have been as follows: —

PROVISIONS.

Flour, 510 barrels, at \$5.69	\$2,902 60
Meat of all kinds	7,255 93
Meal for cooking	282 56
Beans, potatoes, and other vegetables	2,041 80
Fish	1,067 72
Sugar	2,581 36
Molasses and syrup	454 91
Tea	740 76
Coffee and chocolate	1,160 81
Rice and crackers	506 47
Butter	4,208 23
Cheese	261 30
Fresh fruits	336 80
Eggs, salt, and other groceries	2,385 64
	\$26,189 89
Salaries and wages	32,482 23
Provender and bedding for stock	1,566 26
Furniture, crockery, bedding, etc.	3,913 02
Miscellaneous furnishings	2,389 69
Lights	3,265 80
	\$69,806 89
<i>Amounts carried forward</i>	<i>\$69,806 89</i>

<i>Amounts brought forward</i>	.	.	.	.	.	.	\$69,806 89
Water	.	.	.	.	.	.	1,597 32
Soap	.	.	.	.	.	.	1,065 76
Medicines and medical supplies	.	.	.	.	.	.	752 55
Live stock.	.	.	.	.	.	.	839 50
Carriages, harnesses, blacksmithing, etc.	.	.	.	.	.	.	758 46
Improvements and repairs	.	.	.	.	.	.	4,734 18
Books, stationery, and printing	.	.	.	.	.	.	757 82
Travelling and transportation	.	.	.	.	.	.	140 74
Fuel	.	.	.	.	.	.	9,181 00
Freight and express	.	.	.	.	.	.	80 66
Ice	.	.	.	.	.	.	446 99
Trustees' expenses	.	.	.	.	.	.	169 48
Miscellaneous	.	.	.	.	.	.	1,775 81
Clothing and material	.	.	.	.	.	.	4,961 08
Undertaker's charges	.	.	.	.	.	.	221 00
							<hr/>
Total current expenses	.	.	.	.	.	.	\$97,289 24
Interest and money refunded	.	.	.	.	.	\$249 29	
Refunded to patients	.	.	.	.	.	395 77	
Extraordinary improvements	.	.	.	.	.	13,998 75	
Repairs at Asylum for Chronic Insane	.	.	.	.	.	427 89	
							<hr/>
							\$15,071 70
							<hr/>
							112,360 94
Cash on hand Sept. 30, 1879	.	.	.	.	.	.	35,789 58
							<hr/>
							\$148,150 52

RESOURCES.

Cash on hand	.	.	.	.	.	.	\$35,789 58
Due from the Commonwealth	.	.	.	.	.	.	2,987 50
from the cities and towns	.	.	.	.	.	.	19,066 04
from individuals	.	.	.	.	.	.	8,086 39
							<hr/>
							\$65,929 51

LIABILITIES.

Due for supplies	.	.	.	.	.	\$5,690 31	
for extraordinary improvements	.	.	.	.	.	728 77	
for salaries and wages	.	.	.	.	.	2,595 43	
to patients	.	.	.	.	.	698 16	
							<hr/>
							\$9,712 67
Total surplus	.	.	.	.	.	.	\$56,216 84
Hospital library fund, market value	.	.	.	.	.	.	5,035 89

Respectfully submitted.

ALBERT WOOD, *Treasurer.*

WORCESTER, Oct. 14, 1879.

I hereby certify that the statement of expenditures in the Treasurer's Report corresponds in amount with vouchers which are on file at the Hospital, and is correct.

THOMAS H. GAGE, *Auditor of Accounts.*

SUPERINTENDENT'S REPORT.

To the Board of Trustees of the Worcester Lunatic Hospital.

GENTLEMEN,—I submit herewith the Forty-seventh Annual Report of the Hospital, and the usual tables of statistics.

There were remaining in the Hospital at the close of the official year 1877-78, 509 patients.

The number of admissions since have been 147,—making the whole number under treatment 656: 322 of whom were men and 334 women.

The whole number discharged was 166: 87 men and 79 women. The number of admissions has been less than for any year since 1836, the fourth from the opening of the Hospital. Of this number eight have been re-admissions within the year, and five have been merely nominal,—the patients being discharged and re-admitted in another class without leaving the institution. The number of *persons* who have been received during the year is therefore 134.

This small number, as compared with the yearly admissions for the last ten or twelve years, is due not unfortunately to a decrease in the number of the insane, but to the opening of the Hospital at Danvers, which is receiving most of the insane from the eastern counties of the State.

In the year 1877 there were 79 admissions from Essex County and 133 from Middlesex, while, during the last year, but three have been received from Essex and forty-nine from Middlesex.

The number of deaths has been 36: 17 men and 19 women. It will be noticed that the death rate has been unusually low. A large proportion of the deaths in a hospital for the insane occurs among the recent admissions of acute cases. To the fact of our small number of admissions chiefly, and perhaps to the better accommodations which our new

buildings afford, I attribute the small number of deaths. The number of recoveries has been 47: 19 of whom had been in the Hospital more than once, and one 15 times, making this year his tenth recovery.

Table No. 13 gives results which are interesting to the lover of statistics. The aggregate length of time spent continuously in the Hospital by the male patients who were inmates Sept. 30, was 853 years, 3 months, and 7 days. The number of male patients at that date was 235. This gives 3 years, 7 months, and 25 days as the average time each one of these patients has been in the Hospital. Corresponding figures for the female inmates are 931 years, 4 months, and 12 days. Number of females Sept. 30, 255. Average time each one has spent in the Hospital, 3 years, 7 months, and 25 days. So that at the close of the Hospital year, Sept. 30, 1879, the average continuous residence in the Hospital of each male and each female patient was the same to a day.

A series of tables of great value, carefully compiled from the original records of the Hospital, have been made during the last year; and a part of them, much condensed, are appended to this report. They are to contain a record of the results in all cases admitted to the Hospital since its opening, so far as it is possible to ascertain them. These tables include all admissions to Sept. 28, 1875, — 11,000 in number, — and before the close of another year will embrace all the admissions to 1880.

One inference, and perhaps the most important one, to be drawn from a study of these statistics, is, that the table of recoveries in any given year is especially fallacious, in so far as it conveys the idea of a *permanent* return of the patients “to their homes and the world, to usefulness, and the common enjoyments of their families and society, and to the usual responsibilities of citizenship.”

One patient, admitted 23 times, improved on first admission, and recovered every time after.

Another, admitted 15 times in 15 years, recovered every time; and a third recovered 16 times in 18 admissions, and died in the Hospital on her last admission.

It is a sad and almost cruel blow to the worth of the earlier tables of this Hospital, which gave 70, 80, and even 90 per cent of recoveries, to know that deaths occurring

within a few days of admission were not taken into account at all, but stricken entirely from the reports; that many a patient who helped to swell the tables of recoveries to the large per cent mentioned, returned again and again to this Hospital, and finally died here; that many went afterwards to other hospitals, and finally died in them; and that many more, after repeated admissions to this and other hospitals, died in the town or city almshouse, having been, to take the cold, utilitarian view which is the fashion of this world, “a burden on their own property or that of their friends, or upon the public treasury,” from the time of their first admission to the Hospital to their death.

IMPROVEMENTS.

During the last year the grounds of the Hospital have been greatly improved. The cost of much which has been done could rightly be charged to the construction account; but, as that was closed during the last year, the work has been paid for out of the current funds of the institution. Two large groves, for pleasure and recreation grounds, have been cleared up, and enclosed by a substantial wooden fence; and the land immediately about the building, which was nothing but hard, impervious clay, from which the loam had all been taken in the necessary grading for the buildings, has been drained, ploughed, fertilized, and sown with grain and grass-seed. A large variety of hardy shrubs has also been set out upon the grounds. Within the building a track has been laid in the basement, to facilitate the transportation and distribution of food to the patients.

The walls of eight of the wards have been painted; and this work is being carried along as fast as it can be done by the force usually employed at the Hospital.

At the time the new building was opened, the attic stories were not wholly completed. With the prospect of their occupation in the near future, it was thought prudent to finish some of the sections. This work is now being done, and, in a few weeks, we shall have accommodations for about fifty-five more women.

LIBRARY.

The Hospital Library now contains 534 volumes, of which 429 have been purchased from funds left to the Hospital by

Miss Abigail Wheeler and Mrs. Sarah C. Lewis, which bequests were set apart by vote of the Trustees to constitute a permanent Hospital Library Fund. Eighty-one volumes have been given by Mrs. William Swett of Boston. Twenty-three were given by Dr. Hooper; and one, "Goethe's Picture Gallery," by Mrs. E. W. Gurney of Cambridge.

The library contains a carefully-selected collection of histories, biographies, and novels; standard editions of many of the poets; and books upon such subjects as would be likely to interest the class of persons for whose benefit they have been procured. Additions will be made from time to time from the income of the fund, which amounted at the close of the year to \$5,035.89.

SEWAGE.

The plan for using the sewage of the Hospital for irrigation, which was instituted upon the occupation of the present buildings, has been adhered to, and more completely perfected during the last season. The sewage is conducted from the building by three pipes,—one for the executive building, laundry, and kitchen, and one for either wing. These three branches unite about five hundred feet from, and sixty feet below, the buildings, upon a slope which gradually descends to a level, gravelly plain, to which the sewage is conducted by 12-inch cement pipes.

As will be seen by an examination of the heliotype print which accompanies the Report, the main pipe is tapped at intervals by side drains, which can be opened and the sewage conducted upon the adjacent ground.

Wherever this liquid had been allowed to run over the surface of the earth, its great fertilizing property was at once manifested by the almost immediate increase of all vegetable growths. No means, however, had been devised for separating the paper, rags, and solid matter not held in suspension, which the sewage contained, and which soon caused the collection of a mass of unsightly sewer-products about the mouths of the pipe, besides killing the grass upon which it was poured out, and clogging the mowing-machines in hay-time. To effect this separation of solids, a settling-basin or tank was devised and constructed. This is shown in the heliotype diagram No. 2.

The tank is oblong in shape, thirty feet long by sixteen feet wide, covered by brick arches turned upon iron girders. The walls are of brick, twelve inches thick, laid in cement. The bottom is of one course of brick laid on edge. The walls, as well as floor, are plastered with a coating of Portland cement, one-half inch in thickness, to prevent percolation. Across this tank, about two-thirds of the distance from inlet to outlet, is built a brick partition or diaphragm one foot thick, in which are placed four plates of brass, perforated with sixty holes one-fourth of an inch in diameter. The two lower plates are thirty inches from the floor of the tank. This partition is four feet and a half high, and is capped with a strong netting of galvanized wire of one half inch mesh. The sewage is received into the larger division of the tank, where the solids are detained, while the fluid portion, strained through the brass plates and wire netting, and resembling soap-suds in appearance, passes to the main sewer-pipe ready for irrigating. We have also erected a wind-mill, patented by W. A. Wheeler of Worcester, to pump a portion of the sewage back up the hill to fertilize the lawn in front of the Hospital buildings. This arrangement is shown very clearly in the diagram. The disposition of the sewage of institutions, as well as of cities and towns, is always a perplexing problem. It is believed that this problem has been satisfactorily and economically solved at this Hospital by adopting the system described above, by which the sewage of six hundred persons is ultimately disposed of by irrigation, wonderfully increasing the fertility of the land, and without creating any nuisance from unpleasant odors.

The attention of officers of large public institutions is called to this method of disposing of sewage, and its utilization by this or similar means is strongly recommended.

GIFTS.

Since the occupation of the new buildings, the Hospital has received two gifts from one of your Board, which, from their great value, and as a manifestation of the kindly interest felt for the institution and its inmates by their donor, deserve especial notice in this report.

In the autumn of 1877, Dr. Hooper, in accordance with

an intention expressed some time before, caused to be placed in our chapel the large painting, by Washington Allston, of "St. Peter and the Angel in the Prison."

This generous gift was accompanied by the following memorandum: —

"The picture of 'St. Peter and the Angel in the Prison,' was painted in London, in 1816, for Sir George Howland Beaumont, by the American artist, Washington Allston. It was presented to the parish church of Cole Orton, near Ashby de-la Zouch in Leicestershire, England, and remained there till 1853, when it was removed for repairs to the church, and was never replaced for want of suitable room, and came again into possession of the family of Sir George, from whom it was bought by the present owner and brought to this country in 1859. It was said by Sir George, that he did not think that any member of the English Royal Academy (at that time) could paint such a picture.

"The scene represented is to be found in the twelfth chapter of Acts.

"The same night Peter was sleeping between two soldiers, bound with two chains: and the keepers before the door kept the prison.

"And, behold, the angel of the Lord came upon *him*, and a light shined in the prison: and he smote Peter on the side, and raised him up, saying, Arise up quickly. And his chains fell off from *his* hands.'

"Thinking that this picture may be a source of pleasure and gratification to the inmates of the Worcester Lunatic Hospital, I, with the consent of the Trustees, hereby present it, to be placed in the chapel of the Hospital, with the only condition, that if at any time the corporation see fit to remove it, it be offered to the Trustees of the Museum of Fine Arts as a gift."

The second gift from the same gentleman was an organ, built to his order by Messrs. E. & G. G. Hook & Hastings, the well-known organ builders of Boston.

The instrument is of fine tone and quality, and of sufficient capacity to fill the chapel.

It was dedicated on the evening of May 27th, by a concert under the direction of Mr. B. D. Allen of Worcester. In addition to the above donations, the Hospital has, during the period of his trusteeship, been the recipient from Dr. Hooper of many books and pictures which are now scattered through the wards.

CONCLUSION.

In reviewing the events of the year just closed, it is gratifying to record that our labors have been rewarded by a fair share of success and prosperity.

The amount of sickness has been small and the mortality

light, while the number of patients who have recovered sufficiently to return to their homes and avocations is fully as large as in years gone by.

The difficult and delicate duties of the officers and employés, — duties demanding judgment, patience, self-denial, and hard work, — have, as a rule, been cheerfully assumed, and faithfully and satisfactorily performed.

Your frequent visits to the Hospital during the year have rendered you familiar with the general plan of management, and with many of its details, and given me an opportunity for obtaining advice and counsel for which I am duly grateful.

JOHN G. PARK *Superintendent.*

WORCESTER LUNATIC HOSPITAL, Oct. 1, 1879.

TABLE NO. 1.

	Males.	Females.	Total.
Patients in the Hospital, Oct. 1, 1878	246	263	509
Admitted during the year	76	71	147
Whole number under treatment	322	334	656
Discharged recovered	33	14	47
improved	20	25	45
not improved	16	21	37
not insane	1	—	1
died	17	19	36
Whole number discharged	87	79	166
Remaining Sept. 30, 1879	235	255	490
Largest number, Oct. 2, 1878	247	264	511
Smallest number, May 27, 29, and 30, 1879,	232	246	478
Daily average during the year	239.06	254.12	493.18
of State patients	37.68	35.52	73.20
of town patients	150.09	150.20	300.29
of private patients	51.29	68.40	119.69

TABLE NO. 2.

Recoveries upon first, second, and subsequent admissions.

	Males.	Females.	Total.
Recovered upon first admission	20	8	28
second admission	3	—	3
third admission	7	1	8
fourth admission	2	2	4
fifth admission	—	2	2
twelfth admission	—	1	1
fifteenth admission	1	—	1
	33	14	47
Recovered for the first time	23	9	32
second time	5	—	5
third time	3	3	6
fourth time	1	1	2
ninth time	—	1	1
tenth time	1	—	1
	33	14	47

TABLE No. 2. — Concluded.

Improved on first, second, and subsequent admissions.

	Males.	Females.	Total.
Improved upon first admission	18	18	36
second admission	1	4	5
third admission	1	1	2
fourth admission	—	1	1
fifth admission	—	1	1
	20	25	45

Of those who died, there were, —

Admitted for first time	16	13	29
second time	—	4	4
third time	—	1	1
fourth time	—	1	1
fifth time	1	—	1
	17	19	36

Of the seven persons who died upon re-admission, had, —

Previously recovered once	—	2	2
twice	1	—	1
improved once	—	4	4
	1	6	7

TABLE NO. 3.

Showing the Complications in the Cases admitted during the Year.

	Males.	Females.	Total.
Epileptic	2	5	7
Epileptic and homicidal	1	—	1
Paralytic	1	—	1
Suicidal	12	8	20
Suicidal and epileptic	2	—	2
Homicidal	11	6	17
Homicidal and paralytic	—	1	1
Suicidal and homicidal	4	2	6
Suicidal, homicidal, and paralytic	1	—	1
Total number of cases epileptic	5	5	10
Total number of cases paralytic	3	1	4
Total number of cases suicidal	19	10	29
Total number of cases homicidal	17	9	26

TABLE NO. 4.

Showing the Relations of the Patients admitted to Institutions of this kind.

	Males.	Females.	Total.
Never before in any hospital	48	44	92
Former inmates of this hospital	25	19	44
Former inmates of other hospitals in this State	—	5	5
Former inmates of hospitals in other States,	2	1	3
Former inmates of this hospital and of other hospitals in this State	1	1	2
Former inmates of this hospital and of hospitals in other States	—	1	1
Total	76	71	147

TABLE NO. 5.

Showing the Sources from which the Patients admitted were directly drawn.

	Males.	Females.	Total.
From the general population	65	62	127
Asylum for Chronic Insane	—	2	2
Boston Lunatic Hospital	—	1	1
Reformatory Prison for Women	—	4	4
Houses of Correction	6	—	6
State Prison	2	—	2
Re-admitted without discharge from hos- pital	3	2	5
Total	76	71	147

TABLE NO. 6.

Showing by whom the Patients, remaining at the end of the Year, are supported.

	Males.	Females.	Total.
By the State (State patients)	38	39	77
the town (town patients)	146	151	297
friends (private patients)	51	65	116
Total	235	255	490

TABLE NO. 7.

Showing the Alleged Causes of Insanity in the Number of Cases admitted during the Year.

CAUSES.	NUMBER OF CASES.		NUMBER PREDISPOSED.	
	Males.	Females.	Males.	Females.
Anxiety	2	—	1	—
Army service	2	—	2	—
Chronic rheumatism	1	—	1	—
Congenital	1	—	—	—
Disappointment	—	1	—	—
Epilepsy	3	2	2	—
Family trouble	—	2	—	1
Financial trouble	4	—	1	—
Grief	6	3	4	—
Hard study	1	1	1	1
Hereditary	12	14	12	14
Ill-health	—	4	—	3
Injury to head	4	—	3	—
Intemperance	8	4	4	1
Love affair	1	3	—	1
Masturbation	5	1	4	—
Overwork	3	4	3	3
Paralysis	2	—	1	—
Puerperal	—	4	—	3
Religious excitement	—	3	—	—
Senility	3	1	—	—
Shipwreck	—	1	—	1
Spiritualism	—	1	—	1
Sunstroke	6	—	3	—
Turn of life	—	3	—	1
Typhoid fever	2	—	1	—
Unascertained	10	19	—	—
Total	76	71	43	31

TABLE NO. 8.

Showing the Ages of Patients admitted, discharged recovered, not recovered, and died during the Year.

AGES.	ADMITTED.		DISCHARGED RECOVERED.		DISCHARGED NOT RECOVERED.		DIED.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
From 10 to 20 . . .	5	6	1	1	3	2	1	—
20 to 30 . . .	26	18	8	4	11	17	2	3
30 to 40 . . .	16	13	11	1	8	4	5	3
40 to 50 . . .	12	17	8	4	7	8	3	3
50 to 60 . . .	7	10	4	4	2	6	4	3
60 to 70 . . .	5	3	—	—	3	7	1	5
70 to 80 . . .	2	2	—	—	1	2	—	2
80 to 90 . . .	2	—	—	—	—	—	1	—
Unknown . . .	1	2	1	—	1	—	—	—
Total . . .	76	71	33	14	36	46	17	19

TABLE NO. 9.

Showing the Duration of Insanity before admission of Patients admitted, discharged recovered, not recovered, and died during the Year.

DURATION OF INSANITY.	ADMITTED.		DISCHARGED RECOVERED.		DISCHARGED NOT RECOVERED.		DIED.	
	Males.	Fe- males.	Males.	Fe- males.	Males.	Fe- males.	Males.	Fe- males.
Less than 3 months . . .	20	21	11	8	4	12	4	3
From 3 to 6 months . . .	10	5	3	1	6	5	3	4
6 to 12 months . . .	13	4	3	—	8	6	4	1
1 to 2 years . . .	4	5	1	1	1	5	2	3
2 to 5 years . . .	5	15	5	3	4	5	2	3
5 to 10 years . . .	11	5	3	1	4	3	2	1
10 to 20 years . . .	2	7	2	—	3	6	—	2
Over 20 years . . .	—	4	—	—	—	1	—	2
Unknown . . .	11	5	5	—	6	3	—	—
Total . . .	76	71	33	14	36	46	17	19

TABLE NO. 10.

Showing the Civil Condition of Patients admitted, discharged recovered, not recovered, and died during the Year.

CIVIL CONDITION.	ADMITTED.		DISCHARGED RECOVERED.		DISCHARGED NOT RECOVERED.		DIED.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
Unmarried	31	27	16	7	18	19	5	4
Married	30	28	11	5	16	18	11	7
Widowers	11	—	3	—	1	—	1	—
Widows	—	12	—	2	—	8	—	8
Unknown	4	4	3	—	1	1	—	—
Total	76	71	33	14	36	46	17	19

TABLE NO. 11.

Showing the Occupation of Patients admitted during the Year.

MALES.

Artist	1	Mechanics	2
Auctioneer	1	Moulders	2
Blacksmiths	4	Operatives	3
Carpenters	3	Painters	4
Clergyman	1	Roller	1
Contractor	1	Sailmaker	1
Cooper	1	Salesman	1
Driver	1	Sea captain	1
Farmers	12	Shoemakers	9
Grocer	1	Student	1
Laborers	9	Tramp	1
Lawyer	1	No occupation	7
Marble-worker.	1	Unknown	5
Melter	1	Total	76

TABLE No. 11. — Concluded.

FEMALES.

Bonnet manufacturer	1	Dressmakers	2
Domestics	12	Teachers	3
Housekeepers	25	No occupation	14
Operatives in mills	5	Unknown	8
Seamstress	1	Total	71

TABLE No. 12.

Showing the Diseases which have proved Fatal during the Year.

DISEASE.	Males.	Females.	Total.
Acute mania	—	2	2
Apoplexy	1	—	1
Chronic diarrhœa	—	1	1
Dysentery	—	1	1
Epilepsy	1	1	2
Exhaustion of chronic insanity	—	6	6
from carbuncle	1	—	1
of melancholia	2	—	2
of senile dementia	1	1	2
General paralysis	7	—	7
Heart disease	—	1	1
Paralytic insanity	1	—	1
Phthisis	1	3	4
Pneumonia	1	2	3
Senile gangrene	—	1	1
Strangulation	1	—	1
Total	17	19	36

TABLE NO. 13.

Showing the Admissions from each County during the Year.

COUNTIES.	Males.	Females.	Total.
Essex	2	1	3
Middlesex	20	29	49
Norfolk	4	1	5
Suffolk	3	2	5
Worcester	46	37	83
Other States	1	1	2
Total	76	71	147

TABLE NO. 14.

	Years.	Months.	Days.
Aggregate continuous residence in the Hospital of male inmates, Sept. 30, 1879	853	3	27
Number of male patients	235		
Average continuous residence	3	7	25
Aggregate continuous residence in the Hospital of female inmates, Sept. 30, 1879	931	4	12
Number of female patients	255		
Average continuous residence	3	7	25

TABLE No. 15.

Products of Farm and Garden.

Carrots	64 bushels.
Beets	183 $\frac{1}{2}$ "
Onions	30 $\frac{1}{2}$ "
Onions, green	6 "
Turnips	627 "
R. B. turnips	250 "
Parsnips	167 $\frac{1}{4}$ "
String-beans	79 $\frac{1}{2}$ "
Shell-beans	48 $\frac{1}{4}$ "
Pease	59 "
Corn	236 "
Tomatoes	220 $\frac{3}{4}$ "
Lettuce	3,449 heads.
Cucumbers	81 $\frac{1}{4}$ bushels.
Summer squashes	13 "
Winter squashes	5,000 lbs.
Rhubarb, or pie-plant	24 bushels.
Cabbage	2,264 heads.
Celery	1,780 "
Cauliflower	60 "
Radishes	2,005
Leek	1,200
Egg-plant	103
Parsley	12 bunches.
Spinach	74 $\frac{1}{4}$ bushels.
Peppers	3 "
Martynia	10 "
Okra	2 "
Savory	5 "
Sage	3 "
Potatoes	125 "
Apples	200 barrels.
Hay	117 tons.
Hay, second crop	5 "
Oats, in straw	18 "
Barley	1 ton.
Milk	104,390 quarts.
Pork	15,500 lbs.

Record of 11,000 Cases admitted to Worcester Lunatic Hospital from its opening to September 28, 1875.

	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
Number of persons admitted	-	-	-	4,153	4,054	8,204	-	-	-
Number of re-admissions	1,363	1,301	2,664	-	-	-	-	-	-
Re-admissions without removal from Hospital	68	64	132	-	-	-	-	-	-
Total number of re-admissions	-	-	-	1,431	1,365	2,796	-	-	-
Number of cases	-	-	-	-	-	-	5,584	5,416	11,000
Cases in other hospitals previous to admission here, Transfers to State hospitals in this State on first admission	-	-	-	-	-	-	509	487	996
Removed to other institutions in this State on first admission	-	-	-	-	-	-	385	398	783
Sent to hospitals out of the State on first admission	-	-	-	-	-	-	15	14	29
Transfers to State hospitals in this State on re-admissions	-	-	-	-	-	-	8	7	15
Removed to other institutions in this State on re-admissions	-	-	-	-	-	-	126	156	282
Sent to hospitals out of the State on re-admission,	-	-	-	-	-	-	6	5	11
	-	-	-	-	-	-	8	-	8
Persons admitted	-	-	-	4,153	4,051	8,204	-	-	-
Cases in this hospital	-	-	-	-	-	-	5,584	5,416	11,000
Previously in other hospitals	-	-	-	-	-	-	509	487	996
Removed to other hospitals upon discharge	-	-	-	-	-	-	548	580	1,128
Total cases	-	-	-	-	-	-	6,641	6,483	13,124

Showing the Results of First Admissions.

	Males.	Females.	Total.	Males.	Females.	Total.
Number of persons on first admission	—	—	—	4,153	4,051	8,204
Discharged recovered	1,566	1,625	3,191	—	—	—
improved	1,106	1,112	2,218	—	—	—
not improved	820	704	1,524	—	—	—
not insane	1	1	2	—	—	—
Died	617	563	1,180	—	—	—
Eloped	2	—	2	—	—	—
Remaining in the Hospital Sept. 30, 1879	41	46	87	4,153	4,051	8,204

Showing the Results of Re-admissions.

Number of re-admissions	—	—	—	1,431	1,365	2,796
Discharged recovered	573	618	1,191	—	—	—
improved	408	363	771	—	—	—
not improved	251	219	470	—	—	—
Died	179	139	318	—	—	—
Remaining in the Hospital Sept. 30, 1879	20	26	46	1,431	1,365	2,796

Showing the Results of Second Admissions.

Number of second admissions,	—	—	—	854	829	1,683
Discharged recovered	300	319	619	—	—	—
improved	236	235	471	—	—	—
not improved	179	156	335	—	—	—
Died	125	99	224	—	—	—
Remaining in the Hospital Sept. 30, 1879	14	20	34	854	829	1,683

Showing the Results of Third Admissions.

	Males.	Females.	Total.	Males.	Females.	Total.
Number of third admissions,	-	-	-	271	239	510
Discharged recovered	117	121	238	-	-	-
improved	79	58	137	-	-	-
not improved	39	34	63	-	-	-
Died	34	22	56	-	-	-
Remaining in the Hospital Sept. 30, 1879	2	4	6	271	239	510

Showing the Results of Fourth Admissions.

	Males.	Females.	Total.	Males.	Females.	Total.
Number of fourth admissions,	-	-	-	118	109	227
Discharged recovered	54	50	104	-	-	-
improved	39	35	74	-	-	-
not improved	17	15	32	-	-	-
Died	5	8	13	-	-	-
Remaining in the Hospital Sept. 30, 1879	3	1	4	118	109	227

Showing the Results of Fifth Admissions.

	Males.	Females.	Total.	Males.	Females.	Total.
Number of fifth admissions.	-	-	-	57	53	110
Discharged recovered	30	31	61	-	-	-
improved	13	12	25	-	-	-
not improved	6	7	13	-	-	-
Died	7	3	10	-	-	-
Remaining in the Hospital Sept. 30, 1879	1	-	1	57	53	110

Showing the Results of Sixth Admissions.

	Males.	Females.	Total.	Males.	Females.	Total.
Number of sixth admissions.	-	-	-	33	29	62
Discharged recovered	21	17	38	-	-	-
improved	7	8	15	-	-	-
not improved	2	1	3	-	-	-
Died	3	3	6	33	29	62

Showing the Results of Seventh Admissions.

	Males.	Females.	Total.	Males.	Females.	Total.
Number of seventh admissions	-	-	-	24	20	44
Discharged recovered	13	14	27	-	-	-
improved	6	3	9	-	-	-
not improved	2	1	3	-	-	-
Died	3	2	5	24	20	44

Showing the Results of Eighth Admissions.

Number of eighth admissions,	-	-	-	17	16	33
Discharged recovered	9	11	20	-	-	-
improved	7	3	10	-	-	-
not improved	1	2	3	17	16	33

Showing the Results of Ninth Admissions.

Number of ninth admissions,	-	-	-	13	14	27
Discharged recovered	8	9	17	-	-	-
improved	3	4	7	-	-	-
not improved	1	1	2	-	-	-
Died	1	-	1	13	14	27

Showing the Results of Tenth Admissions.

Number of tenth admissions,	-	-	-	11	13	24
Discharged recovered	5	10	15	-	-	-
improved	6	2	8	-	-	-
not improved	-	1	1	11	13	24

Showing the Results of Eleventh Admissions.

Number of eleventh admissions	-	-	-	8	10	18
Discharged recovered	3	8	11	-	-	-
improved	4	2	6	-	-	-
not improved	1	-	1	8	10	18

Showing the Results of Twelfth Admissions.

	Males.	Females.	Total.	Males.	Females.	Total.
Number of twelfth admissions	-	-	-	7	7	14
Discharged recovered	3	7	10	-	-	-
improved	2	-	2	-	-	-
not improved	1	-	1	-	-	-
Died	1	-	1	7	7	14

Showing the Results of Thirteenth Admissions.

Number of thirteenth admissions	-	-	-	6	6	12
Discharged recovered	3	5	8	-	-	-
improved	2	-	2	-	-	-
not improved	1	-	1	-	-	-
Remaining in the Hospital Sept. 30, 1879	-	1	1	6	6	12

Showing the Results of Fourteenth Admissions.

Number of fourteenth admissions	-	-	-	4	5	9
Discharged recovered	3	5	8	-	-	-
improved	1	-	1	4	5	9

Showing the Results of Fifteenth Admissions.

Number of fifteenth admissions	-	-	-	3	4	7
Discharged recovered	1	3	4	-	-	-
improved	2	-	2	-	-	-
Died	-	1	1	3	4	7

Showing the Results of Sixteenth Admissions.

Number of sixteenth admissions	-	-	-	2	2	4
Discharged recovered	1	2	3	-	-	-
improved	1	-	1	2	2	4

Showing the Results of Seventeenth Admissions.

	Males.	Females.	Total.	Males.	Females.	Total.
Number of seventeenth admissions	-	-	-	1	2	3
Discharged recovered	1	1	2	-	-	-
not improved	-	1	1	1	2	3

Showing the Results of Eighteenth Admissions.

Number of eighteenth admissions	-	-	-	1	2	3
Discharged recovered	1	1	2	-	-	-
Died	-	1	1	1	2	3

Showing the Results of Nineteenth Admissions.

Number of nineteenth admissions	-	-	-	1	1	2
Discharged recovered	-	1	1	-	-	-
improved	1	-	1	1	1	2

Showing the Results of Twentieth Admissions.

Number of twentieth admissions	-	-	-	-	1	1
Discharged recovered	-	1	1	-	1	1

Showing the Results of Twenty-first Admissions.

Number of twenty-first admissions	-	-	-	-	1	1
Discharged recovered	-	1	1	-	-	-

Showing the Results of Twenty-second Admissions.

Number of twenty-second admissions	-	-	-	-	1	1
Discharged recovered	-	1	1	-	-	-

Showing the Results of Twenty-third Admissions.

	Males.	Females.	Total.	Males.	Females.	Total.
Number of twenty-third admissions	-	-	-	-	1	1
Discharged recovered	-	1	1	-	-	-

Number of Convicts admitted to the Hospital from its opening to Sept. 28, 1875.

	Males.	Females.	Total.
Number upon first admission	260	20	280
Number upon re-admission	30	1	31

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