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EIGHTH ANNUAL REPORT

OF THE

TRUSTEES OF MASSACHUSETTS HOSPITALS  
FOR CONSUMPTIVES.

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NOVEMBER 30, 1914.



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## TRUSTEES.

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WALTER C. BAILEY, M.D., *Chairman.*

ARTHUR DRINKWATER.

SYLVIA B. KNOWLTON.

GEORGE A. DUNN.

DANIEL L. PRENDERGAST.

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JOHN B. HAWES, 2b, M.D., *Secretary.*

3 JOY STREET, BOSTON.



# The Commonwealth of Massachusetts.

## REPORT OF THE TRUSTEES OF MASSACHUSETTS HOSPITALS FOR CONSUMPTIVES.

*To His Excellency the Governor of the Commonwealth and to the Honorable Council.*

In accordance with the act establishing this Board (chapter 474, Acts of 1907) we submit the following report: —

The four institutions under the control of this Board, the North Reading, Lakeville, Westfield and Rutland sanatoria, have passed an active and successful year.

### NORTH READING STATE SANATORIUM.

At the North Reading Sanatorium during the past year additions have been made to the dining room and administration building, rendering each more efficient and attractive. A pasteurizer and rendering plant has been installed, and a new pavilion has been built. In addition to this, several minor improvements and changes have been made. The daily average of patients has been 195, as compared with an average of 190 last year, and an original capacity of 150.

The estimates for the coming year, all of which have been approved by the State Board of Charity, are as follows: —

Salaries, wages and labor, . . . . .	\$38,626 50
Food, . . . . .	31,142 00
Clothing and clothing material, . . . . .	160 00
Furnishings, . . . . .	2,425 00
Heat, light and power, . . . . .	5,240 00
Repairs and improvements, . . . . .	4,541 50
Farm, stable and grounds, . . . . .	3,400 00
Religious services, . . . . .	1,425 00
Miscellaneous, . . . . .	5,480 00
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	\$92,440 00

For special appropriations: —

Erection of summer houses to accommodate 18 patients, . . . . .	\$1,400 00
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## LAKEVILLE STATE SANATORIUM.

At the Lakeville State Sanatorium the new pavilion and private rooms, which have been used for the first time this year, have added about 34 beds. The new pavilion is very satisfactory, especially the quarters for patients in the second story, which have a remarkably fine outlook. The private rooms have added greatly to the institution's efficiency in caring for the very sick, as well as to the comfort of the patients generally, in having a larger number of the very sick patients removed from the wards. The daily average of patients has been 245.

The estimates for the coming year, all of which have been approved by the State Board of Charity, are as follows:—

Salaries, wages and labor, . . . . .	\$45,868 00
Food, . . . . .	39,000 00
Clothing and clothing material, . . . . .	200 00
Furnishings, . . . . .	4,800 00
Heat, light and power, . . . . .	7,732 00
Repairs and improvements, . . . . .	6,800 00
Farm, stable and grounds, . . . . .	6,000 00
Religious services, . . . . .	1,250 00
Miscellaneous, . . . . .	6,750 00
	<hr/>
	\$118,400 00
For special appropriations:—	
Land and equipment for dairy, . . . . .	\$18,300 00
Coal trestle, . . . . .	2,500 00
Land for same, . . . . .	1,500 00
	<hr/>
	\$22,300 00

## WESTFIELD STATE SANATORIUM.

At the Westfield State Sanatorium the work of grading, street lighting and the construction of concrete walks, made possible by special appropriations, have greatly improved the sanatorium and its approaches. The daily average of patients has been 234.

The estimates for the coming year, all of which have been approved by the State Board of Charity, are as follows:—

Salaries, wages and labor, . . . . .	\$49,520 40
Food, . . . . .	33,360 00
Clothing and clothing material, . . . . .	1,000 00
Furnishings, . . . . .	5,150 00
Heat, light and power, . . . . .	6,990 00
Repairs and improvements, . . . . .	7,640 00
Farm, stable and grounds, . . . . .	10,070 00
Religious services, . . . . .	1,330 00
Miscellaneous, . . . . .	7,750 00

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\$124,810 40

For special appropriations: —

School building and equipment, . . . . .	\$13,725 00
Milk room and dairy equipment, . . . . .	1,000 00
150 horse power boiler, . . . . .	2,000 00

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\$16,725 00

#### RUTLAND STATE SANATORIUM.

At the Rutland State Sanatorium there have been no great changes. The old barn, which was beyond repair, has been removed, and new poultry houses have been built. A new water meter has been installed, and a new contract with the town of Rutland made, which has already demonstrated that it will bring about a saving of \$50 a month, or \$600 per year, in the cost of water to the institution. The daily average of patients has been 350.

Last summer the chairman of the Board, in accordance with a vote passed at a meeting of the Board on June 16, 1914, appealed to the Governor and Council for an emergency appropriation sufficient to provide a pasteurizer at the Lakeville and at the Rutland State sanatoria.

The Board is strongly of the opinion that when the milk supply for the institutions under its care is bought from outside dealers, the patients should be safeguarded against any milk-born epidemic by pasteurization of the milk.

The estimates for the coming year, all of which have been approved by the State Board of Charity, are as follows: —

Salaries and wages, . . . . .	\$70,000 00
Food, . . . . .	71,000 00
Clothing, . . . . .	300 00

Heat, light and power, . . . . .	\$14,000 00
Furnishings, . . . . .	5,000 00
Repairs and improvements, . . . . .	6,000 00
Farm, stable and grounds, . . . . .	9,000 00
Religious services, . . . . .	1,400 00
Miscellaneous, . . . . .	13,300 00
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	\$190,000 00

## OFFICE DISBURSEMENTS.

Appropriation:—	
Salaries, . . . . .	\$7,550 00
Expenses, . . . . .	4,000 00
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	\$11,550 00
Subsidy department, . . . . .	129,868 44
	<hr/>
	\$141,418 44
Expenses:—	
Salaries, . . . . .	\$7,419 91
Expenses, . . . . .	3,771 29
	<hr/>
	\$11,191 20
Subsidy department, . . . . .	129,868 44
	<hr/>
	\$141,059 64

The estimates for the maintenance of this office for the coming year, all of which have been approved by the State Board of Charity, are as follows:—

Salaries, . . . . .	\$7,969 49
Expenses, . . . . .	4,770 00
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	\$12,739 49
Subsidy department, . . . . .	140,000 00
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	\$152,739 49

## LOCAL TUBERCULOSIS HOSPITALS.

Last year we reported that the following cities and towns had complied with the law and provided themselves with local tuberculosis hospitals: Fitchburg, Chicopee, Haverhill, Pittsfield and Salem. Since that time, certain other cities and towns have taken action in this regard. Chief among these is the city of Worcester, which has finally completed a large

hospital for the accommodation of 55 patients. It is expected that the number of beds will be increased in the near future. This hospital should prove of great help not only to the city of Worcester but to the nearby cities and towns, which, according to the provision made in the law, are allowed to make arrangements for the accommodation of their own patients in such a neighboring institution. The city of Clinton has been fortunate in receiving a donation of a fund for the purpose of constructing a local tuberculosis hospital, which is nearing completion. The city of Fall River for some years has had a local tuberculosis hospital. The standard of this hospital has not been such as to obtain the approval of this Board for the purpose of receiving the State subsidy. Acting on suggestions from this Board, however, such improvements have been made during the past year, to enlarge and increase the efficiency of this hospital, that it has been approved under the terms of the subsidy act. In addition to these, by a special act of the Legislature last year, Hampshire County was authorized to construct a county sanatorium for the care of indigent consumptives in that district. This hospital is now completed with 40 beds, which are rapidly being filled. Seven cities and two towns have appointed committees, and have plans, or are actually preparing them, for local hospitals. Six cities, — Lowell, Brockton, Gloucester, Medford, Newburyport and Woburn, — in reply to an inquiry from this Board, have admitted that nothing is being done in this matter. The cities of Lowell and Gloucester, however, are expected shortly to submit plans for suitable municipal tuberculosis hospitals.

#### WAITING LIST.

The waiting list for the four sanatoria, despite the increased accommodation, is still a long one. Except under most exceptional instances, such as acute emergencies requiring immediate hospital care, patients are admitted to the four sanatoria only in the order of their application. It is of course evident to all that this is the only right and proper procedure. At the present time there are upon this list over 300 men and women, each of whom is urgently in need of treatment. Many\* of these are in the advanced stages of the disease, and it is

inevitable that a certain not small proportion of them will die before they can possibly be given the accommodation and treatment of which they are so urgently in need. This is due to a large extent to the fact that many towns and cities have not yet complied with the law requiring local tuberculosis hospitals for the accommodation of this class of patients. The cities of Lowell and Gloucester are the largest and most prominent of those which have as yet made no provision for their advanced, indigent consumptives. It is only fair to state, however, that it is expected that both of these cities will shortly prepare and submit to the State Board of Health suitable and proper plans for the construction of a hospital for the reception of persons having tuberculosis and other diseases dangerous to the public health.

#### CARE OF CHILDREN.

In the last report, mention was made of the special care being given to tuberculous children at the Westfield State Sanatorium. At this institution there are now over 100 children, fifteen years and under, accommodated in a special ward building. It is hoped that an appropriation will be granted this year to provide for a school building where these patients can be graded and given proper instruction. At the present time accommodations for this purpose are extremely inadequate, and the work is carried on at a great disadvantage.

The importance of childhood infection is coming to be recognized as a most important factor in anti-tuberculosis work. This Board wishes to impress upon physicians and anti-tuberculosis workers throughout the State the absolute necessity of recognizing and treating tuberculous infection in children if we are ever going to make any headway in this fight. At present the tendency is to wait until people become sick before any attempt to cure them is made. The bulk of the patients at present under treatment in our State sanatoria represent the results of infection when they were children. The Board, therefore, urges the study of infection in children, and the necessity of making an early diagnosis. To arouse the interest of physicians as to the importance of this subject, the Board has sent out to every registered physician in this State a letter, calling attention to this subject, which is here given.

Aug. 1, 1914.

DEAR DOCTOR: —

Do you consider that the prevention of tuberculosis is one of the most important social and medical questions of the day?

If you believe it is true that protection of the child against tuberculous infection is of paramount importance, do you realize that you as a physician hold the key to the situation?

Will you read carefully the following plan and co-operate with us?

Into every household come people, either as visitors, boarders or workers, who either continually or spasmodically have tubercle bacilli in their sputum. Children as a rule associate with these people intimately, which association may in a few weeks thoroughly infect the child. If the child is very young and the infection is a virulent or massive one, acute tuberculosis in some form often results, and brings about the death of the child. The older children, with greater powers of resistance, check this infection with their glandular apparatus, and may remain in good health or perhaps only slightly ailing through school life. It is these children, however, who cannot stand the strain of young adult life, and who furnish our thousands of new cases of pulmonary tuberculosis each year.

It is your opportunity, first, to protect these children from infection, and, second, to see that they are cared for when such infection has taken place. If you delay making a diagnosis until actual disease is evident, the case has probably gone beyond the stage when cure is possible. A diagnosis of "infection," as contrasted with a diagnosis of "disease," is the key to this problem. We ask you to help us by reporting these cases, simply as a matter of record, to the State Board of Health, which board will furnish special cards for the purpose.

The Von Pirquet test is of great value in these cases. Any physician in the State who applies to this office will be notified where he can obtain practical instruction in the performance of this test at a place near his home, and also training in the examination of children's chests.

Furthermore, remember that milk from tuberculous cows is extremely dangerous for young children, and urge your patients to pasteurize all milk.

For these infected children open-air schools are a necessity. Will you not begin now to agitate this question, an early start insuring success in obtaining such schools for next winter?

WALTER C. BAILEY, M.D., *Chairman.*

ARTHUR DRINKWATER.

GEORGE A. DUNN.

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SYLVIA B. KNOWLTON.

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SIMON SWIG.

In addition to this, arrangements have been made with various dispensaries and out-patient departments, notably that of the children's department at the Massachusetts General Hospital, where instruction is given in the examination of children's chests and in the performance of the Von Pirquet tuberculin reaction. A list of these special clinics, and the times at which physicians may receive such instruction, is here appended.

*Clinics at which Instruction in the Performance of the Von Pirquet Test and in Examination of Children's Chests will be given.*

City.	Institution.	Physicians.	Time.
Rutland, . . . . .	Rutland State Sanatorium, . . . . .	Dr. Washburn and assistants, . . . . .	Every day except Sunday; telephone in advance.
Middleborough, . . . . .	Lakeville State Sanatorium, . . . . .	Dr. Coolidge and assistants, . . . . .	Every day except Saturday and Sunday; telephone in advance.
North Reading, . . . . .	North Reading State Sanatorium, . . . . .	Dr. MacCorison and assistants, . . . . .	Wednesday, 2 P.M.
Westfield, . . . . .	Westfield State Sanatorium, . . . . .	Dr. Chadwick and assistants, . . . . .	Thursday, 10 to 12 A.M.
Boston, . . . . .	Boston Consumptives' Hospital, out-patient department, 13 Dillaway Street.	Dr. Floyd and assistants, . . . . .	Saturday, 9 to 12 A.M.
Boston, . . . . .	Boston Dispensary, 25 Bennet Street, . . . . .	Dr. Howard and assistants, . . . . .	—
Boston, . . . . .	Massachusetts General Hospital, North Grove Street.	Drs. Talbot and Smith and assistants, . . . . .	Tuesday, 11 to 12 A.M.
Brockton, . . . . .	Board of health clinic, . . . . .	Drs. Buckley and McCann, . . . . .	Thursday, 3 P.M.
Fitchburg, . . . . .	Tuberculosis clinic, 336 Main Street, Room 50, . . . . .	Dr. Robt. A. Rice, . . . . .	Saturday, 4 to 5 P.M.
Haverhill, . . . . .	Tuberculosis Hospital, Boardman Street, . . . . .	Dr. I. J. Clarke and assistants, . . . . .	Tuesday, 10.30 A.M.
Lawrence, . . . . .	Lawrence Anti-Tuberculosis League, 31 Jackson Street.	Dr. Burnham and assistants, . . . . .	Saturday, 4 P.M.
Lowell, . . . . .	Lowell General Hospital, . . . . .	Dr. E. J. Clark, . . . . .	—
Lynn, . . . . .	Lynn Hospital, 212 Boston Street, . . . . .	Dr. Shea and assistants, . . . . .	Thursday, 3 P.M.
New Bedford, . . . . .	Tuberculosis Association clinic, . . . . .	Dr. S. H. Rennie, . . . . .	—
Worcester, . . . . .	Worcester City Hospital, out-patient department.	Dr. A. C. Getchell and assistants, . . . . .	Monday and Thursday, 3 P.M.

## MEAT RATIONS.

During the past three months the Board has been making a detailed study of the question of establishing a uniform meat ration for the four institutions under its charge. It has been felt for a long time that not only is the cost of meat at the four sanatoria greater than it should be, but also that the patients are receiving too much of this particular variety of food for their own good. It is hoped as a result of this study that a meat ration will be established which will be uniform in cost, quality and amount at the North Reading, Lakeville, Westfield and Rutland State sanatoria, and which will result in increasing the total food value of the diet received by the patients.

## PRISON LABOR.

In these institutions, from the very nature of the disease with which the patients are afflicted, there is comparatively little opportunity for obtaining any large number of able-bodied laborers, to do much needed work in and about the sanatoria, from among the patients themselves. To import labor from outside for the building of roads, farming, forestry, etc., is expensive. The Board is at present endeavoring to make arrangements with the Prison Commission, and with various county jails, whereby prison labor at a very moderate cost can be obtained. It is hoped by this means that a large amount of work can be done at each institution which now has either to be left undone or to be completed by a very gradual and slow process.

## SANATORIUM AND HOSPITAL CLASSES.

The development of the sanatorium class idea, as a means of increasing the efficiency of our State sanatoria, has brought interesting and valuable results. This system, — which consists in brief of dividing the patients at each of our sanatoria into two voluntary classes, namely, the sanatorium class, composed of those who really wish to get well and who desire to cooperate in every way with the physicians in charge, and the hospital class, composed of those who do not make any real

effort to get well and who do not subscribe to the necessary rules nor co-operate with the physicians, — first introduced at the North Reading State Sanatorium, has now been carried into effect at each of the four institutions under this Board.

The results obtained have been far beyond our expectations, and lead us to believe that this scheme will undoubtedly play an important part in future State sanatorium work. Moreover, for the first time, it furnishes us with a proper criterion by which to judge the results of our work, inasmuch as those patients who have been in the sanatorium class have followed the rules and regulations necessary for success, while those in the hospital class have used the sanatorium simply as a well-conducted boarding house. From the results obtained in the sanatorium class, it is fair to judge of what our State sanatoria can accomplish. The success of this scheme will be shown by figures in the special reports of the four sanatoria to follow. The marked improvement of the patients in the sanatorium class, as compared with those in the hospital class, clearly shows the merits of this system.

#### AFTER-CARE WORK IN REGARD TO DISCHARGED PATIENTS.

The value of this work of looking after our patients after they are discharged from the State sanatoria is becoming increasingly evident. Not only are the results obtained by so doing of great value to the individual patients in keeping them under proper supervision, and in seeing that they have employment suited to their condition and needs, but also it is of value to the members of the patients' families and to others coming in contact with them. In a paper read before the National Tuberculosis Association in May, 1914, the secretary of this Board reported among other things that 600 of our patients discharged from the State sanatoria had exposed to infection a total number of 2,601 others. The same proportion holds true in the case of children. Thus it is evident that in supervising and helping patients after they have left the State sanatoria, this work makes itself felt over a very large field, and is an important factor in making efficient and permanent the results accomplished in our State institutions.

*Report of After-care Work, Dec. 1, 1913, to Dec. 1, 1914.*

	Number.	Per Cent.
Cities and towns, . . . . .	133	-
Number of calls, . . . . .	877	-
Number of patients visited, . . . . .	563	-
Number of patients discharged from Rutland, . . . . .	185	32.9
Number of patients discharged from Lakeville, . . . . .	157	27.9
Number of patients discharged from North Reading, . . . . .	131	23.2
Number of patients discharged from Westfield, . . . . .	90	16.0
Classification on admission:—		
Incipient, . . . . .	98	17.4
Moderately advanced, . . . . .	211	37.5
Advanced, . . . . .	246	43.7
Not examined, . . . . .	8	1.4
Classification on discharge:—		
Arrested, . . . . .	158	28.0
Improved, . . . . .	219	39.0
Progressive, . . . . .	125	22.2
Not examined, . . . . .	61	10.8
Positive sputum on discharge, . . . . .	231	41.0
Number of patients:—		
Left the State, entered local hospitals, etc., . . . . .	146	25.9
Dead, . . . . .	61	10.8
Visited, . . . . .	356	63.3
Out of 356 patients visited there were:—		
Good condition, . . . . .	162	45.5
Fair, . . . . .	91	25.6
Ill, . . . . .	103	28.9
Out of 356 patients visited there were:—		
Working, . . . . .	196	55.0
Not working, . . . . .	160	45.0
Out of 356 patients:—		
Under medical supervision, . . . . .	243	68.0
Not under medical supervision, . . . . .	113	32.0
Out of 563 homes visited, the local boards of health have disinfected,	249	44.2
Out of 356 patients, adequate instruction by boards of health has been given to, . . . . .	157	44.1

## SUBSIDY DEPARTMENT.

Mr. Louis N. Phaneuf, agent of the Board to carry on the work connected with the subsidy act (chapter 597, Acts of 1911, amended by chapter 613, Acts of 1912), reports that during the past year the sum of \$129,868.44 is due to those cities and towns having local tuberculosis hospitals approved by this Board, in which indigent consumptives have been cared for; while for the year 1913, \$103,862.83 was paid out for this purpose.

In certain instances cities and towns, not themselves having tuberculosis hospitals, but within easy reach of a city or town

having such accommodations, have been allowed the State subsidy for their patients. This law, under the terms of which cities and towns having local tuberculosis hospitals approved by this Board are allowed \$5 per week for each patient with tubercle bacilli in the sputum, is intended to encourage the construction of local hospitals for sick and dying consumptives, and for others in need of immediate treatment.

In addition to this work, the Board is keeping physicians, dispensaries and other local agencies in touch with the patients by notifying them of the patients' entrance to the sanatorium, the condition at this time, and whether or not this examination made in the sanatorium agrees with the diagnosis made by the physicians who first examined the patients. Of yet more importance, the physician, or dispensary, as well as the local and State boards of health, is notified when the patient is discharged, and given information concerning his condition at this time, whether or not he has made improvement, with advice and suggestions for future treatment. Physicians are also promptly notified if, after being assigned to any sanatorium, patients do not enter the institution. This enables physicians and boards of health to look up these patients in order to find out why they did not go to the sanatorium, and, if necessary, to persuade them to go or at least to see that they are under proper supervision at home.

#### EX-PATIENTS ON THE PAY ROLL.

The Board has continued its policy of offering employment to all patients who on discharge are found to be suited for work which the sanatorium can offer. At the North Reading Sanatorium during the past year there have been 8 ex-patients on the pay roll; at the Lakeville Sanatorium 10 ex-patients have been employed; at Westfield 34 and at Rutland 134, making a total of 186 patients who have been given useful employment and kept under proper medical supervision in these institutions.

#### REGULATION OF WORK.

As mentioned in previous reports, work is regarded as a therapeutic measure, and is required of such patients whom the physicians feel to be suited for it. This work consists in

cleaning and caring for the wards, waiting at the tables, sweeping, cutting grass, work in the garden and on the lawns, painting, etc. The superintendents report that they are meeting with less opposition on the part of the patients when asked to do labor of this kind. At each of the four State sanatoria much work has thus been done by patients. Cases not infrequently arise, however, when patients absolutely refuse to do any work, feeling that it is an injustice to be asked to do so. A certain number of patients are discharged from our sanatoria from time to time for this reason.

#### PATIENTS DISCHARGED ON PAROLE.

During the past year, the Board has deemed it wise to permit the superintendents to put certain patients leaving their institutions on a "temporary discharge list." Patients on this list are readmitted, should their condition make this necessary, without going through the regular procedure of having their names put upon the waiting list, and undergoing the delay ensuing until their names are regularly reached. This plan is to help a certain number of patients, who, during their stay at the sanatorium, have co-operated with the physicians and have done their best in every way to get well, and have finally reached a condition when they feel able to do a certain amount of work outside the sanatorium. These patients are expected to keep themselves under careful supervision, and to report from time to time to the sanatorium from which they were discharged. When any signs of a relapse become apparent, they are immediately readmitted in order that their disease may be permanently arrested if possible, and that the State may not lose the results of what had already been spent in their case.

#### EDUCATIONAL WORK.

The educational work of the Board has been continued as in the past and has steadily increased. Many letters, touching on every phase of the tuberculosis question, have been written to physicians, patients and their friends, and anti-tuberculosis workers not only in Massachusetts but all over the country.

The office of the Board has become an information bureau to which patients, physicians and others are constantly coming to interview the secretary of the Board in regard to the sanatoria and other questions connected with the work. Literature in the way of reports, reprints, instructive pamphlets, pay envelope cards, etc., is kept on hand for distribution. Members of the Board and the four superintendents have given many informal talks on the subject of tuberculosis to the patients in the sanatoria, and, outside, to women's clubs, meetings of physicians, and others. In addition to this, articles of medical and scientific interest, based on work carried on in the sanatoria, have been published in medical journals from time to time. A list of such articles is appended. "The Journal of the Massachusetts State Sanatoria," a monthly paper published at the Rutland State Sanatorium, in addition to giving items of news from the four sanatoria, contains numerous articles of interest and value not only to patients but to their friends and to the public at large. This paper is distributed to the patients, anti-tuberculosis associations, physicians, and to many others who have asked that their names be put upon the mailing list.

The following articles, based on anti-tuberculosis work in Massachusetts, in our State sanatoria and elsewhere, have been written and published during the past year by members of the Board and the superintendents: —

Dr. Walter C. Bailey: —

- A Scheme for Promoting Efficiency in State Sanatoria.
- Diagnosis and Treatment of Tuberculosis in Childhood.

Dr. Albert C. Getchell: —

- The Present Status of the Treatment of Laryngeal Tuberculosis in the Massachusetts State Sanatoria.

Dr. John B. Hawes, 2d: —

- The Problem of Infection in Tuberculous Families.
- A Study of Extra-pulmonary and Other Sounds which may lead to Errors in the Diagnosis of Pulmonary Tuberculosis.
- The Frequency of Laryngeal Tuberculosis in Massachusetts.
- Under what Conditions is the Diagnosis of "Tuberculosis" in Children justified?
- Remarks on the Diagnosis and Treatment of Early Pulmonary Tuberculosis.
- Tuberculosis in the Aged.

Dr. Harry S. Newhart:—

Practical Application of Sanatorium Treatment for Tuberculosis.

Dr. N. B. Burns:—

The Treatment of Hemoptysis in Pulmonary Tuberculosis.

Further Observation of Seasonal and Meteorologic Influence upon Tubercular Patients.

Valvular Heart Disease considered as a Contributory Etiological Factor in Pulmonary Tuberculosis.

Treatment of Hemoptysis in Tuberculosis.

Sanatorium Treatment of Tuberculosis.

Dr. Carl C. MacCorison and Dr. Walter C. Bailey:—

A Scheme for Promoting Efficiency in the State Sanatoria.

Dr. Henry D. Chadwick and Dr. Roy Morgan:—

The Treatment of Pulmonary Tuberculosis by Artificial Pneumothorax.

The Sanatorium and Hygienic Treatment of Tuberculous Adenitis.

The Prognostic Value of a Study of the Leucocytes.

Prognosis and Diagnosis of Tuberculosis (Dr. Morgan).

Dr. Elliott Washburn:—

Tuberculosis in the Industries of Massachusetts — Shoe Making.

Tuberculosis in the Industries of Massachusetts — Jewelry Making.

Tuberculosis in the Industries of Massachusetts — Metal Molding.

Tuberculosis in the Industries of Massachusetts — Metal Polishing.

Tuberculosis in the Industries of Massachusetts — Textile Industries.

Tuberculosis in the Industries of Massachusetts — Stone Cutting.

Tuberculosis in the Industries of Massachusetts — Manufacture of Clothing.

Can I keep up the Treatment after I leave the Sanatorium?

The Relation between Industrial Hygiene and Community Health.

Dr. James A. Lyon:—

Therapeutic Artificial Pneumothorax as Associate Treatment in Pulmonary Tuberculosis; a Preliminary Report of Sixty-two Cases.

A Report of Two Hundred and Forty-one Cases of Laryngeal Tuberculosis treated at the Rutland State Sanatorium.

The Present Status of Artificial Pneumothorax Therapy.

Mr. Rudolph Ertischek, bacteriologist:—

Three Methods for the Diagnosis of Pulmonary Tuberculosis by Sputum Examination as carried out at the Rutland State Sanatorium.

The Board wishes to express its appreciation of the valuable and efficient services which Dr. Getchell has given in the care of nose and throat conditions in patients at the institutions under its charge.

REPORT ON LARYNGEAL TUBERCULOSIS AND THE TREATMENT OF OTHER  
NOSE AND THROAT CONDITIONS.

BY ALBERT C. GETCHELL, M.D., TRUSTEE.

I have visited Rutland once every month, and the other three sanatoria once every other month regularly; also, I have visited them at other times when sent for for special cases. The objects of these visits are to examine with the local physicians patients whom they wish me to see, to supervise and stimulate interest in the work, and to do such operations as the local men do not feel able to do or care to do. The work of this department consists of the systematic examination of the nose, throat and ears of every patient, a proper record of such examinations, and treatment of cases needing it. These cases are satisfactorily treated by the local physicians, including such operations as removal of nasal polyps, amputation of uvulas, and surgical treatment of tonsils. Dr. Chadwick, among his children, has performed a few operations for the removal of adenoid growths and tonsils. In response to the question as to whether or not these growths were of more frequent occurrence than would be the case among a similar number of nontuberculous children, he reported that in his opinion they were not more common. The superintendents of the four sanatoria agree with this statement and believe that the role of simply enlarged tonsils, as far as infection of the lungs with tuberculosis is concerned, has been somewhat overestimated. While all these conditions are interesting and demand due consideration, the chief interest naturally lies in tuberculous disease of the upper air passages. Below are represented such items regarding this disease as particularly mark this year's work.

*Number of Cases.* — At the Rutland State Sanatorium, reserved for patients with early pulmonary tuberculosis, out of 825 patients treated, there were 38 cases, or 4.6 per cent., of tuberculous disease of the throat. At the North Reading, Lakeville and Westfield State sanatoria, out of 1,695 patients treated, there were 139 cases, or 8.2 per cent. Seven of the Rutland patients had involvement of the epiglottis, while in the other sanatoria there were 23 cases of epiglottic involvement. In none of the Rutland patients was the pharynx involved; at the other sanatoria there were 7 patients with this complication. The proportion of patients with tuberculosis of the throat cured or markedly improved at Rutland was rather high; at the others, very low.

Injections into the superior laryngeal nerve for the relief of pain, the removal of the epiglottis, and the use of galvanocautery in the larynx, methods of treatment previously very little used at our sanatoria, have brought good results, and are well worth further trial.

The epiglottis, or a part of it, has been removed in three instances. One patient was relieved of pain to a moderate extent. Another was at once relieved of marked pain on swallowing, and for over a month had

no recurrence. The third patient obtained complete relief of pain, and apparently a cure of the disease; after several months there has been no sign of return.

I feel that removal of the epiglottis is an operation well worth while in properly selected cases. It can be done without much pain or disturbance of the patient, while the prospect of relief of pain, if not of permanent cure of the disease, is enough to justify it.

In the space at my command, I cannot here do justice either to the work or the reports the superintendents have handed me. In the near future, however, I propose to make a more detailed study of this subject.

Respectfully submitted,

WALTER C. BAILEY, M.D.

ARTHUR DRINKWATER.

GEORGE A. DUNN.

ALBERT C. GETCHELL, M.D.

SYLVIA B. KNOWLTON.

DANIEL L. PRENDERGAST.

SIMON SWIG.

## NORTH READING STATE SANATORIUM.

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**RESIDENT OFFICERS.**

CARL C. MacCORISON, M.D., . . . . .	<i>Superintendent.</i>
NEWELL B. BURNS, M.D., . . . . .	<i>Assistant Superintendent and Physician.</i>
HARRY S. NEWHART, M.D., . . . . .	<i>Physician.</i>
ALBERT E. YOUNG, . . . . .	<i>Bacteriologist.</i>

---

JENNIE H. SANFORD, . . . . .	<i>Superintendent of Nurses.</i>
MIRA B. ROSS, . . . . .	<i>Matron.</i>
J. ELLIS DOUCETTE, . . . . .	<i>Supervisor.</i>
EDWARD W. PERRY, . . . . .	<i>Chief Engineer.</i>
WILLIAM MARGESON, . . . . .	<i>Head Farmer.</i>

REPORT OF THE SUPERINTENDENT.

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*To the Trustees of Hospitals for Consumptives, 3 Joy Street, Boston.*

LADIES AND GENTLEMEN:— I have the honor of presenting to you the report of the North Reading State Sanatorium for the year ending Nov. 30, 1914.

The records show that during the year 525 patients have been treated, and 344 have been admitted, thus showing an increase of 24 over last year. The lowest daily census was 178, and the highest 203. The daily average number of patients was 194.53, which is 8.94 per cent. more than that of the preceding year.

There have been admitted during the year 13, or 3.77 per cent., incipient, 93, or 27 per cent., moderately advanced, and 235, or 68.31 per cent., advanced cases; 2, or .58 per cent., not tubercular, and 1, or .29 per cent., not determined. There has been a daily average of 80.4 bed cases, approximately 41 per cent. of the daily population.

Of the 344 cases admitted, 265, or 77.03 per cent., were inside workers, and 270 were admitted from cities and towns having a population of 25,000 or more, as follows: Boston, 134; Chelsea, 14; Haverhill, 10; Lowell, 29; Lynn, 17; Malden, 16; Brookline, 3; Chicopee, 1; Cambridge, 3; Everett, 3; Fitchburg, 1; Fall River, 1; Gloucester, 5; Lawrence, 3; New Bedford, 3; Newton, 1; Salem, 3; Somerville, 14; Taunton, 2; Worcester, 5; Waltham, 2.

Of the patients discharged, the average duration of residence in the sanatorium was 176 days, as opposed to 203 days for the preceding year; the longest residence of any person was 1,654 days, and the shortest 1 day.

Of the patients discharged during the year, 130 males and

61 females have gained in weight, the total gain being 2,225 pounds; the average male gain was 10.2 pounds, and the average female gain was 14.7 pounds; 23 patients have remained stationary, 45 have lost, and 67 have died. Thirteen patients, or 3.99 per cent., have been discharged "arrested;" 19, or 5.83 per cent., "apparently arrested;" 63, or 19.32 per cent., "quiescent;" 80, or 24.54 per cent., were "improved;" 41, or 12.58 per cent., were "progressive;" 67, or 20.55 per cent., have died; 40, or 12.27 per cent., were "not considered" (duration of stay being less than one month); and 3, or .92 per cent., were not tuberculous. The average age was 33.27 years. One hundred and seventy-three were foreign born, 53.07 per cent., and 114 were American born, but of foreign parentage.

The total cost for maintenance for the year ending Nov. 30, 1914, was \$88,300.21; deducting \$815.87, collected from miscellaneous sources, leaves a net amount expended for maintenance of \$87,484.34. The average per capita cost per week is \$8.62. There has been collected from private patients \$3,482.71, and from cities and towns, \$17,459.39. Further details will be found in succeeding pages of this report.

Fifty-three cases have been supported from private funds, 282 cases by cities and towns, 184 cases entirely by the State, and 11 private cases have later become either town or State charges. There were remaining November 30, 15 private cases, 89 city or town cases, 43 State cases, and 52 unknown cases.

#### MEDICAL REPORT.

The work of the sanatorium staff has included firm insistence upon the patients following out in strict detail the general hygienic-dietetic treatment, with modifications to suit individual needs.

The physicians feel that some patients, through carelessness, do not avail themselves of the many helpful advantages of sanatorium treatment. Therefore much attention must be given to the correction of this negligence.

For the many troublesome symptoms common to pulmonary tuberculosis, a multitude of remedies have been applied, and

the most efficacious selected for daily use in alleviating the sufferings of afflicted patients.

For special treatments we have continued this year the use of:—

1. Inhalation apparatus, which we find is adapted to a few cases, but is by no means a cure-all for tuberculosis.

2. Artificial pneumothorax, which, however, can be used in only a very few cases in our class of patients.

3. Intensive nascent iodine (chemical). In this treatment we have had great difficulty in obtaining candidates for the administration of the drug, due to resulting gastric complications and general symptoms of iodism.

4. Tuberculin in selected cases. We still encounter great hostility in the attitude of the patients toward tuberculin. Very few patients are willing to take the treatment when it is recommended to them.

#### LABORATORY REPORT.

Persistent work was carried on in the attempt to demonstrate tubercle bacilli in the sputum of every patient possible. At the end of the year we find that of the total patient population only 19.59 per cent. have negative sputum.

During the year 1914, 1,166 specimens of sputum, 587 urine specimens and 14 specimens of feces were examined. Thirty-five blood examinations were made, and 16 ascitic and pleuritic fluids were examined.

We have made our own culture media, finding it superior in quality and efficiency, and much cheaper, than the stock media supplied by commercial firms. Gathering and charting meteorological data, plotting the general weight charts, compiling the data relative to patients' statistics, and a variety of other clerical affairs have been included in the bacteriologist's duties, making the laboratory a very busy place at all hours of the day. Five or six patients, according to their condition, have assisted in this clerical work.

The Babcock milk test for fat percentage in specimens of milk supplied the sanatorium, through the various dairies, is made regularly as a part of the routine. An efficiency test of the pasteurizer, based upon bacteriological search in the various

steps of the process, has been instituted as another measure to safeguard the purity of the milk supply of the sanatorium.

The papers published by the sanatorium staff during the year will be found elsewhere in the report of the Board.

#### SANATORIUM CLASS.

We still find that the sanatorium class idea is of great benefit, not only to the institution in general, but to the patients individually. Discipline has been much easier to maintain, and we believe that even the hospital class patients have been benefited by the system.

The results of a careful examination of our case histories on Nov. 29, 1914, are arranged below in tabular form: —

	MALE.		FEMALE.	
	Sanatorium Class.	Hospital Class.	Sanatorium Class.	Hospital Class.
Improved, . . . . .	45 or 37%	35 or 34%	42 or 64%	11 or 32%
Not improved, . . . . .	6 or 5%	34 or 33%	7 or 11%	15 or 44%
Stationary, . . . . .	10 or 8%	24 or 23%	1 or 2%	6 or 18%
Not considered, . . . . .	8 or 6%	11 or 10%	4 or 6%	2 or 6%
Too ill to be classified, . . . . .	54 or 44%	—	11 or 17%	—
Total, . . . . .	123	104	65	34

The above table shows that the greatest gain has been made by the female patients. Women invariably make better patients, and are more conscientious in carrying out the treatment.

#### WORK PERFORMED.

In addition to the usual duties assigned to the patients, such as the care of the wards and grounds, painting of screens, beds, etc., the following goods have been made up by the female patients: towels, 259; sheets, 37; laundry bags, 128; screen covers, 41; tent screens, 23; bathroom curtains, 3 pairs; sash curtains, 16 pairs; patients' tablecloths, 84.

#### RELIGIOUS SERVICES.

Catholic, Protestant and Jewish services have been held weekly in the patients' dining room.

## IMPROVEMENTS.

A small building has been erected on the south wall of the coal bunker, in which has been installed the pasteurizing plant and the grease rendering plant, also a workshop for pipe fitting and tinsmithing, etc. A by-pass line and cesspool have been installed parallel to the first cesspool of the main sewage system. A small fireproof building has been erected over the incinerator. Two hundred and twenty-seven and one-third additional square yards of concrete walk have been laid about the hospital buildings, also 140 square yards of cinder walk.

Extensive grading of the grounds has been accomplished, 350 young pine seedlings transplanted about the buildings, and additional shrubbery and deciduous trees set out. About 3 acres of brush land have been cleared, and a fire lane plowed on the southwest and west boundaries of the grounds.

Work on the new pavilions and dining-room extension, for which special appropriations were made by the Legislature of 1913, was completed last January. The new building for the storing of farm implements, etc., the new coal shed for housing anthracite coal, the small addition to the administration building, and the new 25,000-gallon tank, for which special appropriations were made by the Legislature of 1914, are practically completed.

Three-quarters of an acre of land and a spur track, for which an appropriation was made in 1910, have been purchased and are now in use.

## FARM.

Our farming results this year were decidedly poor. A severe late frost ruined the strawberry crop. The potato crop was markedly affected by blight, and the prolonged drought of late summer and fall seriously injured our garden crops.

Two and one-fourth acres of new land were cleared and put under cultivation. One acre of this will eventually be included under grounds, and the remainder sown to grass.

## RECOMMENDATIONS.

During the past two years we have cared for from 18 to 20 patients in tents. Although this is a very satisfactory manner in which to house our patients, it is rather costly, inasmuch as the tents deteriorate rapidly and have to be replaced about every eighteen months. The tents stand the winter storms badly, and cannot be made as comfortable as more substantially constructed quarters. Very satisfactory summer houses, to accommodate 18 patients, can be constructed for \$1,400. I would recommend that this sum be appropriated for this purpose.

At the present time we are obliged to dump the bituminous coal upon the ground at our siding. This is a very wasteful method. Therefore I would recommend that the sum of \$1,500 be appropriated under maintenance, and classified under repairs and improvements, for the erection of a retaining wall and concrete flooring at this siding.

The sum of \$91,090 will be needed for the maintenance of the sanatorium for the ensuing year.

## ACKNOWLEDGMENTS.

We owe a special debt of gratitude to our chaplains, the Rev. Father Francis Walsh, Rev. Mr. Henry M. Goddard and Rabbi Jurman, for their many calls upon the sick, and officiating at the weekly religious services. I desire to acknowledge our appreciation to the Rev. Dr. Henry for his kindness in administering to the patients of the Episcopal faith.

During the year many gifts of books, periodicals and magazines have been presented to the sanatorium, for which I am very grateful.

We are especially indebted to the Flint Memorial Library of North Reading for a gift of 500 books on fiction, religious and agricultural matters, and to the Winchester branch of the Needlework Guild of America for their gift of garments to our patients.

To the many friends of the sanatorium who have gratuitously given their services for the entertainment of the patients, I

wish to express my thanks. I especially wish to thank Miss Lena Doucette, Mrs. Golden and Mr. Maurice Rosenfield.

To the officers and employees of the sanatorium, I wish to express my appreciation of their hearty support and co-operation.

To the trustees, I wish to express my appreciation for their kind advice and support throughout the year.

Respectfully submitted,

CARL C. MACCORISON,

*Superintendent.*

## TREASURER'S REPORT.

*To the Trustees of Hospitals for Consumptives.*

I respectfully submit the following report of the finances of this institution for the fiscal year ending Nov. 30, 1914: —

### CASH ACCOUNT.

Balance Dec. 1, 1913,		\$450 27
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#### *Receipts.*

##### *Institution Receipts.*

Board of inmates: —

Private, . . . . .		\$3,482 71
Cities and towns, . . . . .		17,459 39

\$20,942 10

Sales: —

Clothing and materials, . . . . .		\$72 62
Furnishings, . . . . .		35 61
Repairs and improvements, . . . . .		1 85
Miscellaneous, . . . . .		259 78

Farm, stable and grounds: —

Horse, . . . . .		\$150 00
Slaughtered, . . . . .		48 81
Rabbits, . . . . .		16 30
Hens, . . . . .		7 50
Swill, . . . . .		6 50
Vegetables, . . . . .		2 35
Grease, . . . . .		36 48
Sundries, . . . . .		178 07

446 01

815 87

Miscellaneous receipts: —

Interest on bank balances, . . . . .		\$126 88
Sundries, . . . . .		41 23

168 11

21,926 08

##### *Receipts from Treasury of Commonwealth.*

Maintenance appropriations: —

Balance of 1913, . . . . .		\$4,934 11
Advance money (amount on hand November 30), . . . . .		6,000 00
Approved schedules of 1914, . . . . .		80,244 29

91,178 40

Special appropriations, . . . . .

13,001 70

Total, . . . . .		\$126,556 45
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*Payments.*

To treasury of Commonwealth, institution receipts, . . . . .		\$21,926 08
Maintenance appropriations:—		
Balance November schedule, 1913, . . . . .	\$5,384 38	
Eleven months schedules, 1914, . . . . .	80,244 29	
November advances, . . . . .	4,752 42	
	<hr/>	90,381 09
Special appropriations:—		
Approved schedules, . . . . .	\$13,001 70	
November advances, . . . . .	57 75	
	<hr/>	13,059 45
Balance Nov. 30, 1914:—		
In bank, . . . . .	\$993 78	
In office, . . . . .	196 05	
	<hr/>	1,189 83
Total, . . . . .		<hr/> \$126,556 45

## MAINTENANCE.

Appropriation, . . . . .	\$89,091 28
Expenses (as analyzed below), . . . . .	88,300 21
	<hr/>
Balance reverting to treasury of Commonwealth, . . . . .	\$791 07

*Analysis of Expenses.*

Salaries, wages and labor:—		
Carl C. MacCorison, M.D., superintendent, . . . . .	\$2,500 00	
General administration, . . . . .	16,175 81	
Medical service, . . . . .	2,871 27	
Ward service (male), . . . . .	1,688 38	
Ward service (female), . . . . .	6,117 52	
Repairs and improvements, . . . . .	2,324 93	
Farm, stable and grounds, . . . . .	5,291 95	
	<hr/>	\$36,969 86
Wages not on pay roll, . . . . .		12 00
Food:—		
Butter, . . . . .	\$3,225 88	
Butterine, . . . . .	264 90	
Beans, . . . . .	86 78	
Bread and crackers, . . . . .	33 89	
Cereals, rice, meal, etc., . . . . .	223 10	
Cheese, . . . . .	44 22	
Eggs, . . . . .	1,752 10	
Flour, . . . . .	949 06	
Fish, . . . . .	636 68	
Fruit (dried and fresh), . . . . .	1,928 48	
	<hr/>	
Amounts carried forward, . . . . .	\$9,145 09	\$36,981 86

<i>Amounts brought forward,</i>	\$9,145 09	\$36,981 86
<b>Food — <i>Con.</i></b>		
Lard,	131 02	
Meats,	8,966 23	
Milk,	6,935 81	
Molasses and syrup,	64 28	
Spices, seasonings, salt, etc.,	53 46	
Sugar,	902 94	
Tea, coffee, broma and cocoa,	507 55	
Vegetables,	1,913 45	
Yeast,	116 70	
Sundries,	466 32	
	<hr/>	29,202 85
<b>Clothing and materials: —</b>		
Boots, shoes and rubbers,	\$33 00	
Clothing,	94 53	
Dry goods for clothing and small wares,	4 08	
Furnishing goods,	6 35	
Sundries,	5 73	
	<hr/>	143 69
<b>Furnishings: —</b>		
Beds, bedding, table linen, etc.,	\$906 36	
Brushes, brooms,	122 43	
Carpets, rugs, etc.,	57 02	
Crockery, glassware, cutlery, etc.,	349 02	
Furniture and upholstery,	306 99	
Kitchen furnishings,	310 21	
Materials and machinery for manufacturing,	305 66	
Wooden ware, buckets, pails, etc.,	175 67	
Sundries,	205 05	
	<hr/>	2,738 41
<b>Heat, light and power: —</b>		
Coal,	\$3,835 50	
Freight on coal,	1,220 73	
Teaming coal,	107 78	
Electricity,	14 86	
Oil,	116 42	
Sundries,	53 43	
	<hr/>	5,348 72
<b>Repairs and improvements: —</b>		
Brick,	\$187 25	
Cement, lime and plaster,	196 68	
Doors, sashes, etc.,	26 52	
Electrical work and supplies,	196 26	
Hardware,	420 89	
Lumber,	346 89	
Paints, oil, glass, etc.,	344 68	
Plumbing, steam fitting and supplies,	660 77	
Roofing and materials,	11 00	
Sundries,	874 11	
	<hr/>	3,265 05
<i>Amount carried forward,</i>		\$77,680 58

Amount brought forward, . . . . .		\$77,680 58
Farm, stable and grounds:—		
Blacksmith and supplies, . . . . .	\$145 50	
Carriages, wagons, etc., and repairs, . . . . .	15 20	
Fertilizers, vines, seeds, etc., . . . . .	876 62	
Hay, grain, etc., . . . . .	1,248 78	
Harnesses and repairs, . . . . .	43 50	
Horses, . . . . .	550 00	
Other live stock, . . . . .	141 00	
Tools, farm machines, etc., . . . . .	146 31	
Sundries, . . . . .	431 91	
		<hr/>
		3,598 82
Religious services, . . . . .		1,370 00
Miscellaneous:—		
Books, periodicals, etc., . . . . .	\$46 07	
Cuspidor supplies, . . . . .	656 22	
Entertainments, . . . . .	146 36	
Freight, expressage and transportation, . . . . .	681 99	
Funeral expenses, . . . . .	15 00	
Hose, etc., . . . . .	56 42	
Medicines and hospital supplies, . . . . .	1,072 43	
Medical attendance, nurses, etc. (extra), . . . . .	74 00	
Postage, . . . . .	188 20	
Printing and printing supplies, . . . . .	441 98	
Soap and laundry supplies, . . . . .	333 04	
Stationery and office supplies, . . . . .	432 72	
Travel and expenses (officials), . . . . .	311 44	
Telephone and telegraph, . . . . .	277 46	
Tobacco, . . . . .	4 16	
Sundries, . . . . .	913 32	
		<hr/>
		5,650 81
		<hr/>
Total expenses for maintenance, . . . . .		\$88,300 21

## SPECIAL APPROPRIATIONS.

Balance Dec. 1, 1913, . . . . .		\$8,038 88
Appropriations for fiscal year, . . . . .		6,884 00
		<hr/>
Total, . . . . .		\$14,922 88
Expended during the year (see statement annexed), . . . . .	\$13,001 70	
Reverting to treasury of Commonwealth, . . . . .	1 13	
		<hr/>
		13,002 83
		<hr/>
Balance Nov. 30, 1914, . . . . .		\$1,920 05

## RESOURCES AND LIABILITIES.

*Resources.*

Cash on hand, . . . . .	\$1,189 83	
November cash vouchers (paid from advance money):—		
Account of maintenance, . . . . .	\$4,752 42	
Account of special appropriations, . . . . .	57 75	
	<hr/>	4,810 17
Due from treasury of Commonwealth account of November, 1914, schedule, . . . . .	2,055 92	
	<hr/>	\$8,055 92

*Liabilities.*

Schedule of November bills, . . . . .	\$8,055 92
---------------------------------------	------------

## PER CAPITA.

During the year the average number of inmates has been 194.53.

Total cost of maintenance, \$88,300.21.

Equal to a weekly per capita cost of \$8.7291.

Receipt from sales, \$815.87.

Equal to a weekly per capita of \$0.0807.

All other institution receipts, \$21,110.21.

Equal to a weekly per capita of \$2.087.

*Special Appropriations.*

OBJECT.	Act or Resolve.	Whole Amount.	Expended during Fiscal Year.	Expended to Date.	Balance at End of Year.
Land, spur track, etc., . . . . .	Acts 1910, chap. 114	\$1,000 00	\$947 60	\$1,000 00	-
Pavilion, . . . . .	Acts 1913, chap. 133	6,224 62	3,618 32	6,224 24	\$0 38 <sup>1</sup>
Dining-room alterations, . . . . .	Acts 1913, chap. 133	6,703 31	3,415 87	6,703 02	29 <sup>1</sup>
Drainage of grounds, road repairs, etc., . . . . .	Acts 1913, chap. 133	1,500 00	55 96	1,499 54	46 <sup>1</sup>
Addition to administration building, . . . . .	Acts 1914, chap. 90	3,000 00	2,538 43	2,538 43	461 57
Building for farm implements, . . . . .	Acts 1914, chap. 90	800 00	587 88	587 88	212 12
Coal bin, . . . . .	Acts 1914, chap. 90	500 00	491 28	491 28	8 72
Water tank, . . . . .	Acts 1914, chap. 90	2,584 00	1,346 36	1,346 36	1,237 64
		\$22,311 93	\$13,001 70	\$20,390 75	\$1,920 05

<sup>1</sup> Reverting to treasury of the Commonwealth.

Respectfully submitted,

CARL C. MACCORISON,

*Treasurer.*

Examined and found correct as compared with the records in the office of the Auditor of the Commonwealth.

WARREN A. MERRILL,

*Assistant Supervisor of Accounts.*

## VALUATION.

## Real estate:—

Land, number of acres, 101, . . . . .	\$4,901 30
Buildings, . . . . .	92,660 38
Power plant, laundry, machinery, heating, water and sewerage systems, and improvements, . . . . .	31,807 31
Total, . . . . .	\$129,368 99

## Personal estate:—

	1913,	1914,
Food, . . . . .	\$2,766 52	\$2,550 55
Clothing, . . . . .	224 17	422 60
Furnishings, . . . . .	19,048 30	21,535 12
Heat, light and power, . . . . .	3,549 23	5,537 08
Repairs and improvements, . . . . .	1,976 81	1,069 14
Farm, stable and grounds, . . . . .	6,295 05	6,900 23
Miscellaneous, . . . . .	6,315 05	6,259 75
Total, . . . . .	\$39,377 80	\$44,274 47

PRODUCTS OF THE FARM AND GARDENS.

Apples, firsts and seconds, 29½ barrels, . . . . .	\$49 25
Beans, string, 60 <sup>7</sup> / <sub>32</sub> bushels, . . . . .	51 18
Beans, dry, 15 bushels, . . . . .	39 75
Beets, 32 <sup>3</sup> / <sub>4</sub> bushels, . . . . .	19 65
Beet greens, 3 bushels, . . . . .	1 20
Beets, mangel, 13 bushels, . . . . .	3 25
Broilers, 505 <sup>3</sup> / <sub>4</sub> pounds, . . . . .	136 55
Cabbage, 38.51 hundredweight, . . . . .	25 03
Canteloupes or muskmelons, 9 crates, . . . . .	9 00
Carrots, 118 <sup>3</sup> / <sub>4</sub> bushels, . . . . .	71 25
Chard, Swiss, 21 bushels, . . . . .	8 40
Chickens, roast, 387 pounds, . . . . .	92 88
Clover and oats, 1½ tons, . . . . .	15 00
Corn, sweet, 96 <sup>3</sup> / <sub>4</sub> bushels, . . . . .	57 72
Corn stalks, 8 loads, . . . . .	8 00
Cucumbers, table use, 24 boxes, . . . . .	24 00
Cucumbers, small, for pickles, 64 pecks, . . . . .	22 40
Ducks, 12 pounds, . . . . .	2 04
Eggs, 1,906 <sup>1</sup> / <sub>6</sub> dozens, . . . . .	476 54
Fowl, 1,234 pounds, . . . . .	209 78
Hay, meadow, 4 tons, . . . . .	44 00
Lettuce, 12½ boxes (10 ounces seed at 10 cents, \$1), . . . . .	4 13
Manure, stable, 21.66 cords, . . . . .	129 96
Manure, hen, 17 <sup>3</sup> / <sub>4</sub> barrels, . . . . .	13 00
Onions, 190 bushels, . . . . .	114 00
Parsley, ½ bushel, . . . . .	18
Parsnips, 17 <sup>1</sup> / <sub>2</sub> bushels, . . . . .	11 38
Peas, green, 23 <sup>1</sup> / <sub>2</sub> bushels, . . . . .	47 00
Peas, seed, <sup>2</sup> / <sub>3</sub> bushel, . . . . .	3 90
Peppers, green, <sup>1</sup> / <sub>2</sub> bushel, . . . . .	02
Pork, 7,939 pounds, . . . . .	952 68
Pumpkins, 810 hundredweight, . . . . .	12 15
Rape, 24 <sup>1</sup> / <sub>2</sub> bushels, . . . . .	1 12
Rape seed, 10 ounces, . . . . .	1 50
Spinach, 8 bushels, . . . . .	2 80
Squash, winter, 26.25 hundredweight, . . . . .	26 25
Strawberries, 277 quarts, . . . . .	33 24
Tomatoes, ripe, 29 bushels, . . . . .	29 00
Turnips, 15 bushels, . . . . .	11 25
Watermelons, 1.62 hundredweight, . . . . .	24 30
Wood, 8 cords, . . . . .	40 00
Total, . . . . .	\$3,223 16

## SPECIAL REPORT.

The following special report is prepared in accordance with a resolution of the National Conference of Charities and Corrections, adopted May 15, 1906: —

*Population.*

	Males.	Females.	Totals.
Number of inmates present at beginning of fiscal year, . . . . .	95	86	181
Number received during the year, . . . . .	244	100	344
Number discharged or died during the year, . . . . .	227	99	326
Number at end of the fiscal year, . . . . .	112	87	199
Daily average attendance ( <i>i.e.</i> , number of inmates actually present) during the year.	108.21	86.32	194.53
Average number of officers and employees during the year, . . . . .	41.06	35.41	76.47

*Expenditures.*

Current expenses: —

1. Salaries and wages, . . . . .	\$36,981 86
2. Clothing, . . . . .	143 69
3. Subsistence, . . . . .	34,551 57
4. Ordinary repairs, . . . . .	3,265 05
5. Office, domestic and outdoor expense, . . . . .	13,358 04

—————  
\$88,300 21

Extraordinary expenses: —

1. Land, spur track, etc., . . . . .	\$947 60
2. Pavilion, . . . . .	3,618 32
3. Dining-room alterations, . . . . .	3,415 87
4. Drainage of grounds, road repairs, etc., . . . . .	55 96
5. Addition to administration building, . . . . .	2,538 43
6. Building for farm implements, . . . . .	587 88
7. Coal bin, . . . . .	491 28
8. Water tank, . . . . .	1,346 36

—————  
13,001 70

Total, . . . . . \$101,301 91

## STATISTICAL TABLES.

TABLE 1. — *Admissions and Discharges.*

	Males.	Females.	Totals.
Patients in sanatorium Dec. 1, 1913, . . . . .	95	86	181
Number of patients admitted Dec. 1, 1913, to Nov. 30, 1914, inclusive.	244	100	344
Number discharged Dec. 1, 1913, to Nov. 30, 1914, inclusive, .	227	99	326
Number deaths (included in preceding item), . . . . .	48	19	67
Number remaining in sanatorium Nov. 30, 1914, . . . . .	112	87	199
Daily average number of patients, . . . . .	108.21	86.32	194.53

TABLE 2. — *Civil Condition of Patients admitted.*

	Males.	Females.	Totals.
Married, . . . . .	118	46	164
Single, . . . . .	115	42	157
Widowed, . . . . .	6	11	17
Divorced, . . . . .	5	1	6
Totals, . . . . .	244	100	344

TABLE 3. — *Age of Patients admitted.*

	Males.	Females.	Totals.
14 to 20 years, . . . . .	13	9	29
20 to 30 years, . . . . .	78	37	115
30 to 40 years, . . . . .	93	24	117
40 to 50 years, . . . . .	42	23	65
Over 50 years, . . . . .	18	7	25
Totals, . . . . .	244	100	344

TABLE 4. — *Nativity and Parentage of Patients admitted.*

PLACES OF NATIVITY.	MALES.			FEMALES.			TOTALS.		
	Patient.	Father.	Mother.	Patient.	Father.	Mother.	Patient.	Father.	Mother.
United States: —									
Massachusetts, . . . . .	102	30	28	39	9	7	141	39	35
Other New England States, . . . . .	13	11	10	6	7	5	19	18	15
Other States, . . . . .	6	4	4	5	2	3	11	6	7
Total native, . . . . .	121	45	42	50	18	15	171	63	57
Other countries: —									
Austria, . . . . .	3	4	4	1	1	1	4	5	5
Belgium, . . . . .	1	1	1	—	—	—	1	1	1
Canada, . . . . .	18	30	35	12	15	19	30	45	54
England, . . . . .	3	7	4	2	1	2	5	8	6
Finland, . . . . .	3	3	3	1	1	1	4	4	4
Germany, . . . . .	3	6	6	—	2	2	3	8	8
Greece, . . . . .	2	2	2	—	—	—	2	2	2
Hungary, . . . . .	2	1	1	1	1	1	3	2	2
Ireland, . . . . .	25	72	72	13	34	32	38	106	104
Italy, . . . . .	6	9	7	—	—	—	6	9	7
Japan, . . . . .	1	1	1	—	—	—	1	1	1
Newfoundland, . . . . .	3	3	3	1	—	1	4	3	4
Norway, . . . . .	—	—	—	—	1	—	—	1	—
Poland, . . . . .	2	1	1	—	—	—	2	1	1
Portugal, . . . . .	1	2	2	1	1	1	2	3	3
Scotland, . . . . .	3	5	6	2	4	4	5	9	10
Spain, . . . . .	1	—	—	—	—	—	1	—	—
Sweden, . . . . .	7	7	7	2	4	3	9	11	10
Syria, . . . . .	2	3	3	2	2	2	4	5	5
Turkey, . . . . .	1	1	1	—	—	—	1	1	1
Total foreign, . . . . .	123	194	195	50	81	84	173	275	279
Unknown, . . . . .	—	5	7	—	1	1	—	6	8
Totals, . . . . .	244	244	244	100	100	100	344	344	344

TABLE 5. — *Residence of Patients admitted.*

PLACE.	Number.	PLACE.	Number.
Amesbury, . . . . .	2	Marlborough, . . . . .	1
Andover, . . . . .	3	Medford, . . . . .	3
Arlington, . . . . .	2	Melrose, . . . . .	2
Athol, . . . . .	2	Milford, . . . . .	1
Attleborough, . . . . .	1	Milton, . . . . .	1
Beverly, . . . . .	2	Nahant, . . . . .	1
Boston, . . . . .	134	Natick, . . . . .	1
Brookline, . . . . .	3	New Bedford, . . . . .	3
Cambridge, . . . . .	3	Newburyport, . . . . .	4
Chelsea, . . . . .	14	Newton, . . . . .	1
Chicopee, . . . . .	1	North Easton, . . . . .	1
Concord, . . . . .	1	Peabody, . . . . .	3
Dedham, . . . . .	1	Provincetown, . . . . .	1
Dudley, . . . . .	1	Quincy, . . . . .	1
Erving, . . . . .	1	Revere, . . . . .	7
Everett, . . . . .	11	Rockport, . . . . .	1
Fall River, . . . . .	1	Salem, . . . . .	3
Fitchburg, . . . . .	1	Saugus, . . . . .	1
Framingham, . . . . .	1	Somerville, . . . . .	14
Gardner, . . . . .	1	Taunton, . . . . .	2
Gloucester, . . . . .	5	Wakefield, . . . . .	2
Greenfield, . . . . .	1	Waltham, . . . . .	2
Haverhill, . . . . .	10	Watertown, . . . . .	1
Ipswich, . . . . .	1	Waverley, . . . . .	1
Lawrence, . . . . .	3	Webster, . . . . .	1
Leominster, . . . . .	4	Wellesley, . . . . .	1
Lexington, . . . . .	2	Winchendon, . . . . .	1
Lowell, . . . . .	29	Winchester, . . . . .	4
Lynn, . . . . .	17	Worcester, . . . . .	5
Malden, . . . . .	16	Total, . . . . .	344

TABLE 6. — *Occupation of Cases admitted.*

	Males.	Females.		Males.	Females.
Agent, . . . . .	2	-	Laborer, . . . . .	20	-
Barber, . . . . .	1	-	Leather worker, . . . . .	1	-
Blacksmith, . . . . .	4	-	Lineman, . . . . .	1	-
Bookkeeper, . . . . .	-	2	Machinist, . . . . .	15	-
Box maker, . . . . .	-	1	Mechanic, . . . . .	1	-
Brass worker, . . . . .	1	-	Mill operative (cotton), . . . . .	12	-
Cap maker, . . . . .	3	-	Miscellaneous, . . . . .	9	-
Carpenter, . . . . .	8	-	Molder, . . . . .	3	-
Chauffeur, . . . . .	3	-	Optician, . . . . .	1	-
Cigar maker, . . . . .	3	-	Painter, . . . . .	7	-
Clerk, . . . . .	19	7	Peddler, . . . . .	9	-
Conductor, . . . . .	1	-	Plumber, . . . . .	3	-
Cook, . . . . .	4	-	Policeman, . . . . .	1	-
Diamond polisher, . . . . .	1	-	Porter, . . . . .	3	-
Domestic, . . . . .	1	7	Printer, . . . . .	6	-
Draftsman, . . . . .	1	-	Salesman, . . . . .	7	-
Dressmaker, . . . . .	-	6	Seaman, . . . . .	5	-
Dyer, . . . . .	2	-	Shoemaker, . . . . .	16	1
Electrician, . . . . .	1	-	Stone cutter, . . . . .	1	-
Elevator operator, . . . . .	3	-	Storekeeper, . . . . .	-	1
Factory worker, . . . . .	5	14	Street railroad employee, . . . . .	5	-
Farmer, . . . . .	2	-	Student, . . . . .	2	4
Fireman, . . . . .	1	-	Tailor, . . . . .	12	-
Florist, . . . . .	5	-	Teamster, . . . . .	15	-
Glass blower, . . . . .	2	1	Undertaker, . . . . .	1	-
Glazier, . . . . .	1	-	Waiter, . . . . .	7	2
Hatter, . . . . .	1	-	Watchman, . . . . .	2	-
Housewife, . . . . .	-	54	Wood carver, . . . . .	3	-
Jeweler, . . . . .	1	-	Totals, . . . . .	244	100

TABLE 7. — *Condition of Admission.*

	Males.	Females.	Totals.
Incipient, . . . . .	5	8	13
Moderately advanced, . . . . .	62	31	93
Advanced, . . . . .	176	59	235
Not tubercular, . . . . .	1	1	2
Not determined, . . . . .	—	1	1
Totals, . . . . .	244	100	344

TABLE 8. — *Condition of Discharge.*

	Males.	Females.	Totals.
Arrested, . . . . .	10	3	13
Apparently arrested, . . . . .	9	10	19
Quiescent, . . . . .	43	20	63
Improved, . . . . .	53	27	80
Unimproved, . . . . .	31	10	41
Died, . . . . .	48	19	67
Not considered (duration of stay less than one month), . . . . .	32	8	40
Not tubercular, . . . . .	1	2	3
Totals, . . . . .	227	99	326

TABLE 9. — *Deaths.*

DURATION OF DISEASE.	Males.	Females.	Totals.	LENGTH OF RESIDENCE IN SANATORIUM.		
				Males.	Females.	Totals.
Under 1 month, . . . . .	1	1	2	9	1	10
1 to 2 months, . . . . .	—	—	—	8	1	9
2 to 3 months, . . . . .	—	—	—	8	2	10
3 to 4 months, . . . . .	1	—	1	4	2	6
4 to 5 months, . . . . .	—	—	—	3	—	3
5 to 6 months, . . . . .	—	—	—	1	1	2
6 to 7 months, . . . . .	1	—	1	2	—	2
7 to 8 months, . . . . .	3	—	3	2	2	4
8 to 9 months, . . . . .	1	1	2	2	2	4
9 to 10 months, . . . . .	1	—	1	2	—	2
10 to 12 months, . . . . .	1	1	2	1	3	4
12 to 18 months, . . . . .	13	1	14	1	1	2
18 to 24 months, . . . . .	2	3	5	1	2	3
Over 2 years, . . . . .	24	12	36	4	2	6
Totals, . . . . .	48	19	67	48	19	67

TABLE 10. — *Cause of Death.*

	Males.	Females.	Totals.
Phthisis, . . . . .	46	19	65
Bronchiectasis, . . . . .	1	—	1
Arteriosclerosis, . . . . .	1	—	1
Totals, . . . . .	48	19	67

## LAKEVILLE STATE SANATORIUM.

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### RESIDENT OFFICERS.

SUMNER COOLIDGE, M.D., . . . . . *Superintendent.*  
 EDSON W. GLIDDEN, M.D., . . . . . *Assistant Superintendent and Physician.*  
 GEORGE M. SULLIVAN, M.D., . . . . . *Physician.*

---

Mrs. ELVIE DUPEE, . . . . . *Matron.*  
 LESTON P. GIDDINGS, . . . . . *Steward.*  
 CLARENCE E. JACKSON, . . . . . *Chief Engineer.*  
 WILLIAM G. ATKINSON, . . . . . *Farmer.*

REPORT OF THE SUPERINTENDENT.

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*To the Trustees of Hospitals for Consumptives.*

LADIES AND GENTLEMEN:— I have the honor to submit herewith the report of the Lakeville State Sanatorium for the year ending Nov. 30, 1914.

The total number of patients cared for during 1914 was 725, of which number 214 were remaining in the sanatorium Dec. 1, 1913, 511 having been admitted during the year.

The classification of cases on admission remains about the same as in former years, 4 cases, or 1 per cent., being found incipient, 221, or 43 per cent., moderately advanced, 270, or 53 per cent., advanced, 15, or 3 per cent., not considered, and 1 not tubercular. Although the number of local municipal hospitals for advanced cases is constantly increasing, there is as yet no appreciable diminution in the percentage of advanced cases sent to this sanatorium.

Boston contributed her usual large proportion of cases admitted, 48 per cent.; Brockton sent us 6 per cent., Fall River 6 per cent., New Bedford 3 per cent., and Taunton 2 per cent.

The percentage of cases maintained by private funds continues to dwindle, only 6 per cent. of the 725 cases treated during the year being so classified, while cities and towns supported 416, or 57 per cent., and the Commonwealth assumed the expense of 198, or 27 per cent. Settlements of the remaining 72, or 10 per cent., have not been determined.

The average residence at the sanatorium of patients discharged during the year was  $164\frac{1}{2}$  days, the longest stay being 1,436 days.

Of the 388 discharged, 293 made an average gain of  $10\frac{3}{4}$  pounds and 69 lost weight. The greatest individual gain was  $54\frac{1}{4}$  pounds.

The division of our patients into the sanatorium and hospital classes, the former being made up of those patients who wished to get well and to co-operate in every way with the sanatorium treatment, and the latter of those whose mental attitude toward treatment was not co-operative, has proved to be more or less of a moral support to the patients as a whole in adapting themselves to the requirements of sanatorium treatment, but does not seem to afford any definite information as to the comparative results of treatment in the two classes. It has been shown that the patient's tendency to break away from treatment, and to treat lightly the restrictions of sanatorium life, is in direct proportion to the amount of improvement he has made, so that the respective degrees of improvement made in the two classes, when represented in figures, seem rather unfair to the conscientious patient.

Of the total number of the 480 patients discharged, 100 men and 35 women were in the hospital class at the time of discharge. Many of these were patients who had improved sufficiently to feel careless of treatment, and, acting accordingly, were transferred to the hospital class after considerable improvement had been made.

The treatment as outlined in my report for 1913 has been continued without appreciable change.

#### IMPROVEMENTS.

The additions of private rooms to the wards and the new pavilion have made possible a daily average of 245 patients for the year, or 5 more than was estimated. Had our estimate for maintenance not been severely cut, a still higher daily average could have been maintained, as several of our tents were not used.

By the strictest economy in all departments, by foregoing intended improvements, by purchasing only sufficient coal for the year then current, and by producing as much food as possible on the farm, the institution was maintained at a weekly net per capita cost of \$8.39. This should not be considered normal, for deferred improvements, if important, grow more expensive, and more than the normal amount must be appropriated in subsequent years.

The estimated weekly per capita, \$9.08, for 1915 is thought necessary to make up for an apparently economical administration of 1914. The average of the two, \$8.73, is rather below normal for our institution.

The construction of the new bakery and refrigerator is practically completed, and the bakery is now in use although all the apparatus is not yet installed. This new construction made possible an enlargement of the patients' serving room and the installation of a new dishwasher, which is adequate for our needs.

Of the special appropriation for extension of sewage disposal, \$687.55 has been spent in constructing 3,151 lineal feet of sub-soil trenches, and concrete covers have been made for three large cesspools. Additional work is contemplated during the coming season.

#### FARM, STABLE AND GROUNDS.

An accurate estimate of the value of our farming operations of 1914 is well-nigh impossible under the existing conditions. A most exacting system of farm accounting has been instituted in all State institutions, calling for detailed accounts of a more or less theoretical cost of production, and a similar schedule of values, not actual market prices, has been established by a committee having no direct connection with the sanatoria, for the purpose of comparison only. Using this prescribed schedule of prices as a basis of estimating the success of the sanatorium farm, we can report the production of usable products worth \$9,338.11. In this connection it is worthy of note that during the last half of the year, when our own farm grown vegetables were plentiful, the daily per capita cost of meat was 1½ cents less than during the preceding six months.

The work of grading and landscaping the grounds has been continued as rapidly as available funds would allow.

#### IMPROVEMENTS RECOMMENDED.

I again recommend the establishment of a dairy at the sanatorium. Last year the same recommendation was approved by your Board, by the State Board of Charity, by the committee on charitable institutions, and by many individuals who were

informed of the conditions under which the sanatorium is supplied with milk (it had previously been approved by the head of the department of farm administration at Amherst Agricultural College), but the necessary appropriation was not granted.

This measure is urged as a business proposition, as it is believed that an appreciable saving can be accomplished thereby. That it should be done at once is strongly suggested by the promptness with which available land near by the sanatorium is being taken up by those who openly assert that they are investing in land which the sanatorium will need later. An appropriation of \$18,300 is requested for this purpose. The yearly cost of milk to the institution at the present rate of consumption, 60 cans per day at 55 cents per can, is \$12,045.

The purchase of land and the construction of a coal trestle, or elevated siding, is urgently recommended, as last year, for the more economical handling of our coal supply. Not having adequate space for storing a winter's supply of coal, we are handicapped by the necessity of buying coal in small quantities and carting it car by car as it arrives at Middleborough. The estimated cost of the trestle is \$2,500, and the price of the land involved is \$1,500, making a total of \$4,000.

#### MEDICAL SERVICE.

In January a vacancy on the medical staff was caused by the resignation of Dr. Francis A. Carey, whose place was filled in May by the appointment of Dr. George M. Sullivan of the University of Vermont Medical School, 1908. He brings to the work loyalty, enthusiasm and good sense, which insures his success as an institution man.

#### ACKNOWLEDGMENTS.

I take great pleasure in informing your Board that the attitude of the people of Middleborough and Lakeville toward the sanatorium has grown to be one of confidence and friendliness. It has been our purpose always to respect their wishes and opinions, and they have manifested their growing interest in our work in many ways, especially by gifts of books, of periodicals, and by furnishing many entertainments for our patients.

The faithfulness of the Catholic, Protestant and Jewish chaplains and their hearty co-operation with the administration of the institution have been most gratifying and are heartily appreciated.

Whatever measure of success has been attained in the year's work I credit largely to the enthusiastic co-operation of my employees in our efforts for an economical and efficient administration, and to the continued confidence of your Board.

Respectfully submitted,

SUMNER COOLIDGE,  
*Superintendent.*

## TREASURER'S REPORT.

*To the Trustees of Hospitals for Consumptives.*

I respectfully submit the following report of the finances of this institution for the fiscal year ending Nov. 30, 1914:—

CASH ACCOUNT.		
Balance Dec. 1, 1913,	\$2,380 57	\$973 48
<i>Receipts.</i>		
<i>Institution Receipts.</i>		
Board of inmates:—		
Private,	\$2,380 57	
Cities and towns,	21,883 31	
Other reimbursements, charitable (collected by State Treasurer),	220 00	
	\$24,483 88	
Sales:—		
Food,	\$658 00	
Clothing and materials,	57 43	
Furnishings,	33 23	
Miscellaneous,	18 15	
Farm, stable and grounds:—		
Pigs and hogs,	\$74 50	
Vegetables,	18 86	
Sundries,	182 29	
	275 65	
		1,042 46
Miscellaneous receipts:—		
Interest on bank balances,	\$158 62	
Sundries,	43 71	
	202 33	
		25,728 67
<i>Receipts from Treasury of Commonwealth.</i>		
Maintenance appropriations:—		
Balance of 1913,	\$1,800 00	
Advance money (amount on hand November 30),	7,000 00	
Approved schedules of 1914,	100,010 72	
	108,810 72	
Special appropriations,		9,740 77
Total,		\$145,253 64

*Payments.*

To treasury of Commonwealth, institution receipts, . . . . .		\$25,728 67
Maintenance appropriations: —		
Balance November schedule, 1913, . . . . .	\$2,773 48	
Eleven months' schedules, 1914, . . . . .	100,010 72	
November advances, . . . . .	4,134 93	
	<hr/>	106,919 13
Special appropriations: —		
Approved schedules, . . . . .		9,740 77
Balance Nov. 30, 1914: —		
In bank, . . . . .	\$1,841 06	
In office, . . . . .	1,024 01	
	<hr/>	2,865 07
Total, . . . . .		\$145,253 64

## MAINTENANCE.

Appropriation, . . . . .	\$108,270 00
Expenses (as analyzed below), . . . . .	108,229 54
	<hr/>
Balance reverting to treasury of Commonwealth, . . . . .	\$40 46

*Analysis of Expenses.*

Salaries, wages and labor: —		
Sumner Coolidge, M.D., superintendent, . . . . .	\$2,500 00	
General administration, . . . . .	19,535 11	
Medical service, . . . . .	2,322 11	
Ward service (male), . . . . .	3,079 66	
Ward service (female), . . . . .	4,191 53	
Repairs and improvements, . . . . .	2,203 19	
Farm, stable and grounds, . . . . .	8,145 82	
	<hr/>	\$41,977 42
Food: —		
Butter, . . . . .	\$1,881 11	
Butterine, . . . . .	11 29	
Beans, . . . . .	106 15	
Bread and crackers, . . . . .	92 63	
Cereals, rice, meal, etc., . . . . .	360 57	
Cheese, . . . . .	68 52	
Eggs, . . . . .	1,661 44	
Flour, . . . . .	923 00	
Fish, . . . . .	806 72	
Fruit (dried and fresh), . . . . .	1,301 30	
Lard, . . . . .	135 22	
Meats, . . . . .	13,003 91	
Milk, . . . . .	11,534 63	
Molasses and syrup, . . . . .	59 02	
Spices, seasonings, salt, etc., . . . . .	231 93	
Sugar, . . . . .	950 91	
Tea, coffee, broma and cocoa, . . . . .	439 66	
	<hr/>	
Amounts carried forward, . . . . .	\$33,568 01	\$41,977 42

<i>Amounts brought forward,</i>	\$33,568 01	\$41,977 42
Food — <i>Con.</i>		
Vegetables,	1,192 09	
Yeast,	11 82	
Sundries,	452 92	
	<hr/>	35,224 84
Clothing and materials: —		
Boots, shoes and rubbers,	\$23 55	
Clothing,	35 06	
Dry goods for clothing and small wares,	12 13	
	<hr/>	70 74
Furnishings: —		
Beds, bedding, table linen, etc.,	\$2,309 00	
Brushes, brooms,	256 39	
Carpets, rugs, etc.,	258 49	
Crockery, glassware, cutlery, etc.,	564 95	
Furniture and upholstery,	907 74	
Kitchen furnishings,	373 92	
Wooden ware, buckets, pails, etc.,	4 48	
Sundries,	1,073 21	
	<hr/>	5,748 18
Heat, light and power: —		
Coal,	\$5,684 99	
Freight on coal,	531 59	
Oil,	85 27	
Sundries,	233 80	
	<hr/>	6,535 65
Repairs and improvements: —		
Brick,	\$27 15	
Cement, lime and plaster,	66 31	
Doors, sashes, etc.,	127 35	
Electrical work and supplies,	510 52	
Hardware,	432 49	
Lumber,	487 70	
Tents,	68 16	
Paints, oil, glass, etc.,	673 15	
Plumbing, steam fitting and supplies,	1,290 60	
Roofing and materials,	16 69	
Sundries,	1,019 81	
	<hr/>	4,719 93
Farm, stable and grounds: —		
Blacksmith and supplies,	\$178 90	
Carriages, wagons, etc., and repairs,	571 77	
Fertilizers, vines, seeds, etc.,	1,791 42	
Hay, grain, etc.,	1,855 98	
Harnesses and repairs,	126 52	
Other live stock,	742 26	
Rent,	368 38	
Taxes,	44 88	
Tools, farm machines, etc.,	253 17	
Sundries,	316 58	
	<hr/>	6,249 86
Religious services,		1,224 60
		<hr/>
<i>Amount carried forward,</i>		\$101,751 22

*Amount brought forward,* . . . . . \$101,751 22

## Miscellaneous:—

Books, periodicals, etc., . . . . .	\$136 83	
Cuspidor supplies, . . . . .	486 65	
Entertainments, . . . . .	234 99	
Freight, expressage and transportation, . . . . .	835 99	
Funeral expenses, . . . . .	61 00	
Refrigeration, . . . . .	155 90	
Ice, . . . . .	2 50	
Medicines and hospital supplies, . . . . .	1,881 18	
Medical attendance, nurses, etc., and dentistry, . . . . .	6 25	
Postage, . . . . .	205 00	
Printing and printing supplies, . . . . .	305 27	
Investigation of water supply, . . . . .	488 07	
Soap and laundry supplies, . . . . .	357 90	
Stationery and office supplies, . . . . .	445 45	
Travel and expenses (officials), . . . . .	495 49	
Telephone and telegraph, . . . . .	244 57	
Tobacco, . . . . .	13 14	
Water, . . . . .	6 89	
Sundries, . . . . .	115 25	
		6,478 32
Total expenses for maintenance, . . . . .		\$108,229 54

## SPECIAL APPROPRIATION.

Balance Dec. 1, 1913, . . . . .		\$6,955 97
Appropriations for fiscal year, . . . . .		4,700 00
Total, . . . . .		\$11,655 97
Expended during the year (see statement annexed), . . . . .	\$9,740 77	
Reverting to treasury of Commonwealth, . . . . .	04	
		9,740 81
Balance Nov. 30, 1914, . . . . .		\$1,915 16

## RESOURCES AND LIABILITIES.

*Resources.*

Cash on hand, . . . . .	\$2,865 07	
November cash vouchers (paid from advance money), account of maintenance, . . . . .	4,134 93	
Due from treasury of Commonwealth account of November, 1914, schedule, . . . . .	1,218 82	
		\$8,218 82

*Liabilities.*

Schedule of November bills, . . . . .		\$8,218 82
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## PER CAPITA.

During the year the average number of inmates has been 245.45.

Total cost for maintenance, \$108,229.54.

Equal to a weekly per capita cost of \$8.4797.

Receipt from sales, \$1,042.46.

Equal to a weekly per capita of \$0.0817.

All other institution receipts, \$24,686.21.

Equal to a weekly per capita of \$1.9341.

*Special Appropriations.*

OBJECT.	Act or Resolve.	Whole Amount.	Expended during Fiscal Year.	Expended to Date.	Balance at End of Year.
Pavilion, . . . . .	Res. 1913, chap. 133	\$13,000 00	\$4,989 22	\$12,999 96	\$0 04 <sup>1</sup>
Laboratory, . . . . .	Res. 1913, chap. 133	1,000 00	295 83	588 55	411 45
Bakery, porch, etc., . . . . .	Res. 1914, chap. 89	3,500 00	2,336 54	2,336 54	1,163 46
Screens, . . . . .	Res. 1914, chap. 89	200 00	172 20	172 20	27 80
Sewerage system, . . . . .	Res. 1914, chap. 148	1,000 00	687 55	687 55	312 45
Additions to wards, . . . . .	Res. 1913, chap. 133	6,000 00	1,259 43	6,000 00	-
		\$24,700 00	\$9,740 77	\$22,784 80	\$1,915 16

<sup>1</sup> Reverting to treasury of the Commonwealth.

Respectfully submitted,

SUMNER COOLIDGE,

*Treasurer.*

Examined and found correct as compared with the records in the office of the Auditor of the Commonwealth.

WARREN A. MERRILL,

*Assistant Supervisor of Accounts.*

## VALUATION.

## Real estate: —

Land, number of acres, 75, . . . . .	\$7,267 75
Buildings, . . . . .	121,179 50
Power plant, laundry, machinery, heating, water and sewerage systems and improvements, . . . . .	21,766 96
Total real estate valuation, . . . . .	<u>\$150,214 21</u>

## Personal estate: —

Food, . . . . .	\$2,316 63
Clothing, . . . . .	215 97
Furnishings, . . . . .	23,823 94
Heat, light and power, . . . . .	707 56
Repairs and improvements, . . . . .	1,958 75
Farm, stable and grounds, . . . . .	10,583 83
Miscellaneous, . . . . .	3,489 31
Total personal property, . . . . .	<u>\$43,095 99</u>

### FARM PRODUCE.

Eggs, 4,435 $\frac{3}{4}$ dozen, at \$0.25, . . . . .	\$1,108 94
Asparagus, 7 bushels, at \$4, . . . . .	28 00
Beets, 136 $\frac{1}{8}$ bushels, at \$0.60, . . . . .	81 90
Beans, Lima, 26 $\frac{1}{4}$ bushels, at \$1.60, . . . . .	42 00
Beans, string, 124 $\frac{1}{4}$ bushels, at \$0.85, . . . . .	105 61
Beans, seed, 3 $\frac{1}{2}$ bushels, at \$6, . . . . .	21 00
Cabbage, 25,662 pounds, at \$13 per ton, . . . . .	166 80
Carrots, 104 $\frac{1}{2}$ pounds, at \$0.60, . . . . .	62 70
Celery, 97 $\frac{1}{4}$ pounds, at \$0.75, . . . . .	72 94
Corn, sweet, 576 pounds, at \$0.60, . . . . .	345 60
Corn, sweet, seed, 277 ears, at \$0.04, . . . . .	11 08
Corn, sweet, Potter's Exc., 441 ears, at \$0.04, . . . . .	17 64
Corn, yellow, seed, 484 pounds, at \$0.03 $\frac{1}{2}$ , . . . . .	16 94
Corn stalks, 17 $\frac{1}{2}$ tons, at \$3, . . . . .	52 50
Cucumbers, 1,463, at \$0.01 each, . . . . .	14 63
Kohl-rabi, 15 bushels, at \$0.45, . . . . .	6 75
Lettuce, 172 bushels, at \$0.25, . . . . .	43 00
Onions, 80 $\frac{1}{4}$ bushels, at \$0.60, . . . . .	48 15
Parsley, 1 bushel, at \$0.35, . . . . .	35
Parsnips, 14 bushels, at \$0.65, . . . . .	9 10
Peas, 80 $\frac{7}{16}$ bushels, at \$2, . . . . .	160 88
Potatoes, 927 $\frac{1}{2}$ bushels, at \$0.55, . . . . .	510 13
Potatoes, seed, 81 bushels, at \$0.55, . . . . .	44 55
Pumpkins, 4,550 pounds, at \$0.01 $\frac{1}{2}$ , . . . . .	68 25
Radishes, 93 $\frac{1}{2}$ bushels, at \$0.75, . . . . .	70 13
Rhubarb, 691 pounds, at \$0.01, . . . . .	6 91
Spinach, 161 bushels, at \$0.35, . . . . .	56 35
Squash, summer, 21 $\frac{1}{2}$ barrels, at \$0.60, . . . . .	12 90
Squash, winter, 13,950 pounds, at \$0.01, . . . . .	139 50
Swiss chard, 50 bushels, at \$0.40, . . . . .	20 00
Tomatoes, 283 bushels, at \$1, . . . . .	284 42
Tomato plants, 250, at \$0.02 each, . . . . .	5 00
Turnips, 199 $\frac{1}{4}$ bushels, at \$0.75, . . . . .	149 44
Apples, 11 $\frac{1}{2}$ barrels, at \$1.50 to \$2, . . . . .	19 85
Cherries, 12 $\frac{2}{3}$ quarts, at \$0.12, . . . . .	1 52
Currants, 411 quarts, at \$0.05, . . . . .	20 55
Cantaloupes, 9 $\frac{1}{5}$ crates, at \$1, . . . . .	9 91
Grapes, 525 pounds, at \$0.04, . . . . .	21 00
Raspberries, 1,249 pints, at \$0.09, . . . . .	112 41
Strawberries, 663 quarts, at \$0.12, . . . . .	79 56
Watermelons, 19, at \$0.15 each, . . . . .	2 85
Quince, $\frac{1}{2}$ bushel, at \$1.75, . . . . .	88
Blueberries, 30 quarts, at \$0.14, . . . . .	4 20
Pork, 4,458 pounds, at \$0.12, . . . . .	534 96
Fowl, 869 pounds, at \$0.17, . . . . .	147 73

Chicken, 4,218 pounds, at \$0.24,	. . . . .	\$1,012 32
Broilers, 30 pounds, at \$0.27,	. . . . .	8 10
Hay, No. 1, 52½ tons, at \$20.75,	. . . . .	1,089 38
Hay, meadow, 5½ tons, at \$10,	. . . . .	55 00
Straw, rye, 6 tons, at \$15,	. . . . .	90 00
Rye, 67 bushels, at \$1.25,	. . . . .	83 75
Yellow corn, 117 bushels, at \$0.80,	. . . . .	93 60
Pigs, 42,	. . . . .	647 00
Chickens, 1,072,	. . . . .	1,032 00
Roosters, 44, at \$1 each,	. . . . .	44 00
Manure (pig), 13 cords, at \$5,	. . . . .	65 00
Manure (horse), 35 cords, at \$5,	. . . . .	175 00
Manure (hen), 96 barrels, at \$0.75,	. . . . .	72 00
Sand dressing, 131 loads, at \$1,	. . . . .	131 00
Total,	. . . . .	<u>\$9,337 66</u>

## SPECIAL REPORT.

The following report is prepared in accordance with a resolution of the National Conference of Charities and Corrections, adopted May 15, 1906:—

*Population.*

	Males.	Females.	Totals.
Number of patients present at beginning of fiscal year, . . . . .	132	82	214
Number received during the year, . . . . .	358	153	511
Number discharged or died during the year, . . . . .	333	147	480
Number at end of fiscal year, . . . . .	157	88	245
Daily average attendance ( <i>i.e.</i> , number of inmates actually present) during the year.	159	86	245
Average number of officers and employees during the year, . . . . .	57	25	82

*Expenditures.*

Current expenses:—

1. Salaries and wages, . . . . .	\$41,977 42
2. Clothing, . . . . .	70 74
3. Subsistence, . . . . .	35,224 84
4. Ordinary repairs and improvements, . . . . .	4,719 93
5. Office, domestic and outdoor expenses, . . . . .	26,236 61

Total, . . . . . \$108,229 54

Extraordinary expenses:—

1. New buildings, land, etc., . . . . .	\$4,989 22
2. Permanent improvements to existing buildings and grounds, . . . . .	4,751 55

Total, . . . . . \$9,740 77

Grand total, . . . . . \$117,970 31

*Summary of Current Expenses.*

Total expenditures, . . . . .	\$117,970 31
Deducting extraordinary expenses, . . . . .	9,740 77
	<hr/>
	\$108,229 54
Deducting amount of sales, . . . . .	1,042 46
	<hr/>
	\$107,187 08

Dividing this amount by the daily average number of patients, 245.45, gives a cost for the year of \$436.69, equivalent to an average weekly net cost of \$8.39.

## STATISTICAL TABLES.

TABLE 1. — *Admissions and Discharges.*

	Males.	Females.	Totals.
Number of patients admitted, Dec. 1, 1913, to Nov. 30, 1914, inclusive.	358	153	511
Number of patients discharged, Dec. 1, 1913, to Nov. 30, 1914, inclusive.	260	128	388
Number of deaths (included in preceding item), . . . . .	73	19	92
Number remaining in sanatorium, Nov. 30, 1914, . . . . .	157	88	245
Daily average number of patients, . . . . .	159	86	245
Daily average number of bed patients, Dec. 1, 1913, to Nov. 30, 1914.	41	34	75

TABLE 2. — *Civil Condition of Patients admitted.*

	Males.	Females.	Totals.
Married, . . . . .	156	90	246
Single, . . . . .	185	52	237
Widowed, . . . . .	16	11	27
Divorced, . . . . .	1	—	1
Totals, . . . . .	358	153	511

TABLE 3. — *Age of Patients admitted.*

	Males.	Females.	Totals.
14 to 20 years, . . . . .	39	20	59
20 to 30 years, . . . . .	120	62	182
30 to 40 years, . . . . .	92	46	138
40 to 50 years, . . . . .	76	23	99
Over 50 years, . . . . .	31	2	33
Totals, . . . . .	358	153	511

TABLE 4. — *Nativity and Parentage of Patients admitted.*

PLACES OF NATIVITY.	MALES.			FEMALES.			TOTALS.		
	Patient.	Father.	Mother.	Patient.	Father.	Mother.	Patient.	Father.	Mother.
United States:—									
Massachusetts, . . . . .	152	50	38	67	23	20	219	73	58
Other New England States, . . . . .	15	10	16	13	7	6	28	17	22
Other States, . . . . .	12	9	9	6	7	9	18	16	18
Total native, . . . . .	179	69	63	86	37	35	265	106	98
Other countries:—									
Armenia, . . . . .	2	2	2	—	—	—	2	2	2
Australia, . . . . .	2	—	—	—	—	—	2	—	—
Austria, . . . . .	3	2	2	1	1	2	4	3	4
Azores, . . . . .	1	4	4	—	1	1	1	5	5
Belgium, . . . . .	1	1	1	—	—	—	1	1	1
Canada, . . . . .	22	38	44	13	21	29	35	59	73
England, . . . . .	10	15	9	2	7	6	12	22	15
Finland, . . . . .	4	4	4	2	2	2	6	6	6
France, . . . . .	—	—	—	2	1	—	2	1	—
Germany, . . . . .	4	11	10	3	5	5	7	16	15
Greece, . . . . .	1	1	1	1	1	1	2	2	2
Ireland, . . . . .	41	99	105	13	31	30	54	130	135
Italy, . . . . .	19	21	21	5	5	6	24	26	27
Japan, . . . . .	1	1	1	—	—	—	1	1	1
Norway, . . . . .	3	3	3	—	—	—	3	3	3
Poland, . . . . .	3	3	3	—	—	—	3	3	3
Portugal, . . . . .	5	7	7	3	5	5	8	12	12
Roumania, . . . . .	4	4	4	—	—	—	4	4	4
Russia, . . . . .	42	47	46	16	17	16	58	64	62
Scotland, . . . . .	2	3	7	—	4	2	2	7	9
Servia, . . . . .	—	—	—	1	1	1	1	1	1
Spain, . . . . .	2	2	2	—	—	—	2	2	2
Sweden, . . . . .	2	2	2	5	6	8	7	8	10
Syria, . . . . .	2	3	3	—	—	—	2	3	3
Turkey, . . . . .	2	2	2	—	—	—	2	2	2
West Indies, . . . . .	1	1	1	—	—	—	1	1	1
Total foreign, . . . . .	179	276	284	67	108	114	246	384	398
Unknown, . . . . .	—	13	11	—	8	4	—	21	15
Totals, . . . . .	358	358	358	153	153	153	511	511	511

TABLE 5. — *Residence of Patients admitted.*

CITIES AND TOWNS.	Number.	CITIES AND TOWNS.	Number.
Amherst, . . . . .	1	Melrose, . . . . .	1
Arlington, . . . . .	5	Middleborough, . . . . .	2
Attleborough, . . . . .	16	Milford, . . . . .	7
Auburn, N. H., . . . . .	1	Millbury, . . . . .	1
Avon, . . . . .	1	Milton, . . . . .	2
Belmont, . . . . .	1	Nahant, . . . . .	1
Boston, . . . . .	246	Nantucket, . . . . .	1
Bourne, . . . . .	1	Needham, . . . . .	1
Bridgewater, . . . . .	6	New Bedford, . . . . .	14
Brockton, . . . . .	33	Newton, . . . . .	3
Brookline, . . . . .	3	Norfolk, . . . . .	1
Cambridge, . . . . .	1	Northfield, . . . . .	1
Canton, . . . . .	1	Oxford, . . . . .	1
Chelsea, . . . . .	4	Peabody, . . . . .	1
Cohasset, . . . . .	4	Plymouth, . . . . .	5
Concord, N. H., . . . . .	1	Provincetown, . . . . .	3
Dartmouth, . . . . .	1	Quincy, . . . . .	14
Dedham, . . . . .	5	Revere, . . . . .	1
Dighton, . . . . .	1	Rockland, . . . . .	2
Eastham, . . . . .	1	Salem, . . . . .	1
Fairhaven, . . . . .	3	Saugus, . . . . .	1
Fall River, . . . . .	32	Sharon, . . . . .	1
Framingham, . . . . .	1	Somerset, . . . . .	1
Gloucester, . . . . .	1	Somerville, . . . . .	3
Grafton, . . . . .	1	Southborough, . . . . .	1
Haverhill, . . . . .	1	Southbridge, . . . . .	1
Hingham, . . . . .	1	Swansea, . . . . .	1
Hyannis, . . . . .	1	Taunton, . . . . .	8
Ipswich, . . . . .	1	Uxbridge, . . . . .	2
Lancaster, . . . . .	1	Wakefield, . . . . .	5
Leominster, . . . . .	1	Walpole, . . . . .	2
Lowell, . . . . .	1	Waltham, . . . . .	1
Lynn, . . . . .	1	Watertown, . . . . .	4
Malden, . . . . .	11	Wareham, . . . . .	2
Marlborough, . . . . .	2	Westborough, . . . . .	1
Mattapoisett, . . . . .	1	Weymouth, . . . . .	5
Maynard, . . . . .	1	Whitman, . . . . .	3
Medfield, . . . . .	1	Worcester, . . . . .	7
Medford, . . . . .	3	Total, . . . . .	511
Medway, . . . . .	1		

TABLE 6. — *Occupations.*

	Males.	Females.	Totals.		Males.	Females.	Totals.
Artist, . . . . .	1	-	1	Gardener, . . . . .	2	-	2
Baker, . . . . .	10	-	10	Hatmaker, . . . . .	4	-	4
Bank teller, . . . . .	-	1	1	Housewife, . . . . .	-	105	105
Bartender, . . . . .	4	-	4	Iron worker, . . . . .	4	-	4
Blacksmith, . . . . .	3	-	3	Janitor, . . . . .	5	-	5
Bookkeeper, . . . . .	3	-	3	Jewelry shop, . . . . .	9	2	11
Bookmaker, . . . . .	2	-	2	Junkman, . . . . .	3	-	3
Bottler, . . . . .	1	-	1	Labeler, . . . . .	-	2	2
Butcher, . . . . .	2	-	2	Laborers, . . . . .	31	-	31
Butler, . . . . .	2	-	2	Laundress, . . . . .	-	1	1
Cableman, . . . . .	1	-	1	Laundryman, . . . . .	1	-	1
Candy maker, . . . . .	1	1	2	Lighthouse keeper, . . . . .	1	-	1
Car cleaner, . . . . .	-	1	1	Longshoreman, . . . . .	3	-	3
Carpenter, . . . . .	6	-	6	Machine oiler, . . . . .	2	-	2
Carpet layer, . . . . .	1	-	1	Maehinist, . . . . .	19	-	19
Chauffeur, . . . . .	6	-	6	Mason, . . . . .	1	-	1
Cigar maker, . . . . .	1	-	1	Merchant, . . . . .	1	-	1
Clerk, . . . . .	21	3	24	Messenger, . . . . .	2	-	2
Collector, . . . . .	3	-	3	Motorman, . . . . .	1	-	1
Conductor, . . . . .	2	-	2	Musician, . . . . .	1	-	1
Cook, . . . . .	3	1	4	Nurse, . . . . .	-	2	2
Cranberry picker, . . . . .	-	1	1	Operatives, . . . . .	61	14	75
Dentist, . . . . .	1	-	1	Painter, . . . . .	5	-	5
Draftsman, . . . . .	1	-	1	Paper hanger, . . . . .	1	-	1
Dressmaker, . . . . .	-	4	4	Paper ruler, . . . . .	1	-	1
Druggist, . . . . .	1	-	1	Peddler, . . . . .	7	-	7
Egg lighter, . . . . .	1	-	1	Plasterers, . . . . .	2	-	2
Electrician, . . . . .	2	-	2	Plumber, . . . . .	1	-	1
Electrotyper, . . . . .	1	-	1	Polisher, metal, . . . . .	3	-	3
Elevator man, . . . . .	1	-	1	Porter, . . . . .	6	-	6
Engineer, . . . . .	1	-	1	Printing pressman, . . . . .	2	-	2
Farmer, . . . . .	2	-	2	Sailor, . . . . .	1	-	1
Fireman, . . . . .	7	-	7	Salespeople, . . . . .	15	2	17
Fisherman, . . . . .	1	-	1	Shipper, . . . . .	4	-	4
Florist, . . . . .	2	-	2	Steam fitter, . . . . .	1	-	1
Fountain pen repairer, . . . . .	1	-	1	Stenographer, . . . . .	1	2	3
Furniture polisher, . . . . .	1	-	1	Stonecutter, . . . . .	10	-	10

TABLE 6. — *Occupations — Concluded.*

	Males.	Females.	Totals.		Males.	Females.	Totals.
Street lighter, . . . . .	2	-	2	Telephone operator, . . . . .	1	2	3
Student, . . . . .	8	6	14	Tinsmith, . . . . .	1	-	1
Switchman, . . . . .	1	-	1	Upholsterer, . . . . .	1	-	1
Tailor, . . . . .	16	1	17	Waiter, . . . . .	4	2	6
Teamster, . . . . .	17	-	17	Totals, . . . . .	358	153	511

TABLE 7. — *Condition on Admission.*

	Males.	Females.	Totals.
Incipient, . . . . .	1	3	4
Moderately advanced, . . . . .	150	71	221
Advanced, . . . . .	195	75	270
Nontuberculous, . . . . .	1	-	1
Not examined, . . . . .	11	4	15
Totals, . . . . .	358	153	511

TABLE 8. — *Condition on Discharge.*

	Males.	Females.	Totals.	Per Cent.
Arrested, . . . . .	1	-	1	-
Apparently arrested, . . . . .	4	5	9	2
Quiescent, . . . . .	12	-	12	3
Improved, . . . . .	146	91	237	49
Unimproved, . . . . .	51	26	77	16
Died, . . . . .	73	19	92	19
Not considered, . . . . .	46	6	52	11
Totals, . . . . .	333	147	480	100

TABLE 9. — *Deaths.*

	DURATION OF DISEASE.			LENGTH OF RESIDENCE IN SANATORIUM.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Under 1 month, . . . . .	-	-	-	14	3	17
1 to 2 months, . . . . .	-	-	-	9	3	12
2 to 3 months, . . . . .	-	-	-	10	3	13
3 to 4 months, . . . . .	1	-	1	8	1	9
4 to 5 months, . . . . .	1	-	1	4	1	5
5 to 6 months, . . . . .	3	-	3	4	2	6
6 to 7 months, . . . . .	3	-	3	3	-	3
7 to 8 months, . . . . .	2	1	3	2	-	2
8 to 9 months, . . . . .	5	1	6	5	1	6
9 to 10 months, . . . . .	3	2	5	2	1	3
10 to 12 months, . . . . .	7	2	9	2	1	3
12 to 18 months, . . . . .	10	6	16	7	-	7
18 to 24 months, . . . . .	10	1	11	1	1	2
Over two years, . . . . .	28	6	34	2	2	4
Totals, . . . . .	73	19	92	73	19	92

TABLE 10. — *Cause of Death.*

	Males.	Females.	Totals.
Phthisis pulmonalis, . . . . .	72	19	91
Tubercular meningitis, . . . . .	1	-	1
Totals, . . . . .	73	19	92

## WESTFIELD STATE SANATORIUM.

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### RESIDENT OFFICERS.

HENRY D. CHADWICK, M.D., . . . *Superintendent.*  
 ROY MORGAN, M.D., . . . *Assistant Superintendent and Physician.*  
 JOHN I. PINCKNEY, M.D., . . . *Physician.*

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CARRIE A. BAILEY, . . . . . *Head Nurse.*  
 ALVENA F. LAUSMANN, . . . . . *Head Nurse.*  
 EMILY B. POLLARD, . . . . . *Head Nurse.*  
 HERBERT W. SMITH, . . . . . *Steward.*  
 RALPH L. HIGGINS, . . . . . *Chief Engineer.*  
 FRANK J. CLEGG, . . . . . *Farmer.*

## REPORT OF THE SUPERINTENDENT.

*To the Trustees of Hospitals for Consumptives.*

LADIES AND GENTLEMEN:— I have the honor to submit to you the fifth annual report for the Westfield State Sanatorium, for the year ending Nov. 30, 1914.

Two hundred and seventy-seven patients have been admitted during the year. This is but 4 more than were admitted the previous year. It is but a small increase considering that the opening of the children's ward in March added 70 beds to the capacity of the institution. The explanation for this condition lies in the fact that the average stay of each patient increased from 229 days, in 1913, to 247 days, in 1914. The admissions plus the number in the institution Dec. 1, 1913, make a total of 462 patients that have been under treatment during the year.

## LENGTH OF RESIDENCE.

Twenty stayed less than thirty days; 139 from one to twelve months; 44 from one to two years; 2 more than two years; 3 more than three years. The longest length of stay was 1,374 days.

## SUPPORT OF PATIENTS.

Of the 277 admitted during the year, 33 paid their own board of \$4 per week, 179 were supported by cities and towns, 45 were State charges, and the status of 20 has not yet been determined.

## TUBERCULOUS CHILDREN.

As soon as the children's ward was opened, it was quickly filled to its capacity. The seventy boys and girls who occupy this building are between four and twelve years of age. The waiting list for children has never been exhausted, which goes

to show that the disease is now more frequently recognized in young children than was the case in 1910, when the last three State sanatoria were opened. At that time comparatively few applications were made for the admission of children.

Physicians now generally recognize the fact that tuberculous infection is very common in childhood. It is said on good authority that few reach the age of fifteen without becoming infected.

Bearing this in mind, the symptoms of disease must be carefully watched for and detected as soon as they appear. The conditions that should be considered danger signals are pallor, lack of normal physical development corresponding to the age of the child, poor appetite and undue fatigue. This latter condition is a very significant symptom. The child who has an active tuberculous focus will have the desire to play, but not the requisite energy. To attempt to keep up with other children tires it very quickly, and the first evidence of this exhaustion is most often shown through the nervous system. The child becomes peevish, irritable, and does not wake refreshed from sleep. Morning tire is abnormal for a healthy child, and is so frequently a symptom of tuberculous disease that it seems to me very important to bear this in mind. This condition, found together with poor resonance over the area between the scapulæ, is sufficient to make a tentative diagnosis of tuberculosis. A negative von Pirquet test is the only thing that could positively rule out such a conclusion.

Percussion is most important in making a diagnosis in children. Any one who has not mastered this art so as to distinguish slight changes in resonance cannot diagnose early cases. Auscultation is of decidedly secondary importance, as rales are seldom heard and respiratory changes are hard to interpret correctly. D'Espine's sign is not by any means constant. When it is present, the percussion dullness over the hylus is usually very marked.

Cough and sputum are absent in most cases of early disease. Occasional fever, lasting but a few days at a time, is not uncommon, but would be often missed in general practice, as daily records are not usually kept over a sufficient period of time.

A child with tuberculosis in an open stage (tubercle bacilli in sputum) has a long period of treatment ahead of him. My experience confirms the belief that adults with open tuberculosis do better than children with that condition, but that the latter with closed tuberculosis generally respond more quickly than adults to sanatorium treatment.

#### SANATORIUM SCHOOL.

The school work has developed until now it is a very important feature of the sanatorium. Beginning with 12 pupils in 1912, the number increased gradually to 65 last year. The opening of the children's ward more than doubled the number of patients of school age. The average attendance since then has been 103, divided into grades as follows: first, 24; second, 12; third, 13; fourth, 20; fifth, 13; seventh, 14; eighth, 9.

The experience of the preceding two years has been confirmed by this year's results, namely, that school, aside from its educational advantages, is a necessary part of sanatorium life for children. It is good treatment both from the standpoint of better discipline and of promoting the return to health.

Two teachers have been able to carry on the school work, as each one has a different group of children in the morning and in the afternoon. Each child goes but one-half session.

The work is done under great disadvantages because of the lack of suitable classrooms. The recreation room, which adjoins the dining hall and is over the carpenter shop, is obviously a very noisy place in which to teach school. The play room of the children's ward has been fitted up temporarily for a classroom for the first and second grades. Notwithstanding these difficult conditions, excellent work is accomplished and the children make good progress in their studies.

A patient, thirteen years of age, was recently admitted from one of the smaller cities. This boy could not read or write and had never been to school. He is not so diseased but what there is an excellent chance for him to recover his health. One of the teachers is giving him lessons apart from the first grade, to which he belongs. Although naturally objecting to going to school with the very small children, he eagerly accepted the opportunity to have separate lessons.

## IMPROVEMENTS.

*Children's Ward.* — The children's ward was opened in March, and accommodates 35 boys and 35 girls. There are also ten rooms for nurses and attendants. The addition of this building increases our capacity to 254 beds. We are now able to care for very young children without their becoming a disturbing element to the adult patients. This building is situated so far away from the other wards that the children have freedom to romp and play, and nervous patients are not disturbed.

Another improvement, much appreciated by the assistant physicians, is a suitable laboratory for which room has been found in the basement of the new ward.

*Concrete Walks and Lighting.* — We have constructed about 1,400 square yards of concrete walks, connecting the buildings, and one walk, 820 feet long, over the hillside from the highway to the administration building. These walks have added a great deal to the appearance of the buildings, and are of great convenience to the many who use them. Much less dirt is now tracked into the buildings, and, therefore, less labor is required to keep the floors clean.

Underground electric cables have been laid to the farmhouse and barns, and along the driveway and walk approaching the buildings. These electric lights were very much needed, and their use in the barns materially lessens the fire hazard.

*Underpass.* — The underpass under the Boston & Albany Railroad was completed in the spring, but the changes in the State highway, necessary to insure a safe entrance, were not finished before the frost stopped further work. But little more remains to be done before this long delayed improvement is completed.

*Coal Trestle.* — Negotiations have been carried on with the Boston & Albany Railroad for the construction of a coal trestle near the underpass, for which an appropriation is now available. The contract is about ready for signatures.

## RECOMMENDATIONS.

*School Building.* — The following is the situation at present.

There is an average of 130 children of school age sent to this institution from all parts of the State. Most of them are physically able to continue their studies under sanatorium conditions. The Commonwealth has not fulfilled its duty until it has provided a suitable school building for their use while they are obliged to live here. The average stay of these children will be more than a year. Some have been here three and four years. It would be a sad mistake to allow them to waste this valuable time.

For the past two years we have employed two teachers, but their work has been done under great difficulties, as the rooms used for school purposes are inadequate in size and their situation is very noisy.

In addition to the children of grammar school age, we have about 50 young people. The boys could profitably use their time in the workshop, and the girls should have instruction in domestic science.

The large percentage of these children are curable cases, and it is important that they have an opportunity to study and learn some useful work while under treatment.

According to plans and estimates made, we shall need an appropriation of \$13,725 for a suitable building and equipment.

*Dairy Room and Equipment.* — We have no separate room in connection with our barn in which to cool and care for the milk. We are very much in need of this addition and a suitable equipment. The estimated expenditure for this improvement would be \$1,000.

*150 Horse Power Boiler.* — Our two boilers are barely large enough to provide steam for our present buildings. If one of them should need repairs in the winter time, we would be in rather serious difficulty, as one boiler is not large enough to do the work in the coldest weather. If the proposed school building is erected, this additional boiler will be an absolute necessity. The estimated cost of the boiler and setting is \$2,000.

## ACKNOWLEDGMENTS.

Each Sunday religious services are now conducted by Catholic, Protestant and Jewish clergymen. The work of these chaplains is very helpful to the patients and employees. Furthermore, their influence over the patients and their willingness to co-operate is an essential factor toward maintaining proper discipline.

Many useful gifts have been received from people in the neighboring cities and towns, and especially at Christmas have they been very generous in sending presents to the children. The proof of good feeling and the desire to be helpful are constantly manifested by individuals and organizations in both Westfield and Springfield.

I have been very fortunate in retaining many loyal assistants and employees in the service of the institution. To carry out its purpose, it is necessary to have employees who are not only efficient, but are kind at heart and gentle of manner, and who will at all times remember that the sanatorium exists for the patients. Their welfare must have first consideration. I feel that among the employees there are many who come up to this requirement, and it gives me pleasure to commend them to you.

The continued confidence you have shown in my efforts to carry out your policies in the management of the institution is to me a source of great satisfaction. This will act as a further incentive for better service and higher ideals in my work during the coming year.

Respectfully submitted,

HENRY D. CHADWICK,

*Superintendent.*

## TREASURER'S REPORT.

*To the Trustees of Hospitals for Consumptives.*

I respectfully submit the following report of the finances of this institution for the fiscal year ending Nov. 30, 1914:—

CASH ACCOUNT.		
Balance Dec. 1, 1913, . . . . .		\$1,028 47
<i>Receipts.</i>		
<i>Institution Receipts.</i>		
Board of inmates:—		
Private, . . . . .	\$3,949 39	
Cities and towns, . . . . .	20,569 84	
	24,519 23	
Sales:—		
Food, . . . . .	\$875 46	
Miscellaneous, . . . . .	55 89	
Farm, stable and grounds:—		
Cows and calves, \$89 00		
Pigs and hogs, . . . . . 406 52		
Hides, . . . . . 34 61		
Vegetables, . . . . . 57 46		
Use of teams, . . . . . 2 00		
Sundries, . . . . . 24 55		
	614 14	
		1,545 49
Miscellaneous receipts:—		
Interest on bank balances, . . . . .	\$126 14	
Sundries, . . . . .	121 50	
	247 64	
		26,312 36
<i>Receipts from Treasury of Commonwealth.</i>		
Maintenance appropriations:—		
Balance of 1913, . . . . .	\$6,389 75	
Advance money (amount on hand November 30), . . . . .	6,056 59	
Approved schedules of 1914, . . . . .	115,943 41	
	128,389 75	
Special appropriations, . . . . .		15,223 17
Total, . . . . .		\$170,953 75

*Payments.*

To treasury of Commonwealth, institution receipts, . . . . .		\$26,312 36
Maintenance appropriations:—		
Balance November schedule, 1913, . . . . .	\$7,418 22	
Eleven months schedules, 1914, . . . . .	115,943 41	
November advances, . . . . .	5,321 73	
	<hr/>	128,683 36
Special appropriations:—		
Approved schedules, . . . . .		15,223 17
Balance Nov. 30, 1914:—		
In bank, . . . . .	\$521 21	
In office, . . . . .	213 65	
	<hr/>	734 86
Total, . . . . .		\$170,953 75

## MAINTENANCE.

Appropriation, . . . . .	\$122,000 00
Expenses (as analyzed below), . . . . .	124,791 78
	<hr/>
Deficiency, . . . . .	\$2,791 78

*Analysis of Expenses.*

Salaries, wages and labor:—		
Henry D. Chadwick, superintendent, . . . . .	\$2,500 00	
General administration, . . . . .	20,043 40	
Medical service, . . . . .	2,700 00	
Ward service (male), . . . . .	2,397 40	
Ward service (female), . . . . .	7,238 66	
Repairs and improvements, . . . . .	3,899 36	
Farm, stable and grounds, . . . . .	9,680 64	
	<hr/>	\$48,459 46
Food:—		
Butter, . . . . .	\$3,218 66	
Butterine, . . . . .	12 60	
Beans, . . . . .	92 77	
Bread and crackers, . . . . .	90 10	
Cereals, rice, meal, etc., . . . . .	318 15	
Cheese, . . . . .	89 80	
Eggs, . . . . .	3,604 11	
Flour, . . . . .	1,144 27	
Fish, . . . . .	925 31	
Fruit (dried and fresh), . . . . .	1,092 59	
Lard, . . . . .	340 80	
Meats, . . . . .	17,734 77	
Milk, . . . . .	437 95	
Molasses and syrup, . . . . .	90 54	
Spices, seasonings, salt, etc., . . . . .	241 01	
Sugar, . . . . .	932 20	
Tea, coffee, broma and cocoa, . . . . .	599 98	
Vegetables, . . . . .	2,371 27	
	<hr/>	
Amounts carried forward, . . . . .	\$33,336 88	\$48,459 46

<i>Amounts brought forward,</i>	\$33,336 88	\$48,459 46
<b>Food — <i>Con.</i></b>		
Yeast, . . . . .	68 66	
Sundries, . . . . .	465 35	
	<hr/>	33,870 89
<b>Clothing and materials: —</b>		
Boots, shoes and rubbers, . . . . .	\$224 23	
Clothing, . . . . .	376 31	
Dry goods for clothing and small wares, . . . . .	121 31	
Furnishing goods, . . . . .	6 78	
Hats and caps, . . . . .	2 25	
Leather and shoe findings, . . . . .	10 62	
Sundries, . . . . .	7 14	
	<hr/>	748 64
<b>Furnishings: —</b>		
Beds, bedding, table linen, etc., . . . . .	\$2,868 38	
Brushes, brooms, . . . . .	211 80	
Carpets, rugs, etc., . . . . .	67 77	
Crockery, glassware, cutlery, etc., . . . . .	370 71	
Furniture and upholstery, . . . . .	1,258 94	
Kitchen furnishings, . . . . .	569 90	
Wooden ware, buckets, pails, etc., . . . . .	37 72	
Sundries, . . . . .	275 73	
	<hr/>	5,660 95
<b>Heat, light and power: —</b>		
Coal, . . . . .	\$1,997 06	
Freight on coal, . . . . .	3,721 68	
Oil, . . . . .	513 82	
Sundries, . . . . .	292 80	
	<hr/>	6,525 36
<b>Repairs and improvements: —</b>		
Brick, . . . . .	\$6 60	
Cement, lime and plaster, . . . . .	345 45	
Doors, sashes, etc., . . . . .	178 31	
Electrical work and supplies, . . . . .	516 21	
Hardware, . . . . .	628 18	
Lumber, . . . . .	743 90	
Machines (detached), . . . . .	4,201 78	
Paints, oil, glass, etc., . . . . .	734 54	
Plumbing, steam fitting and supplies, . . . . .	2,357 08	
Roofing and materials, . . . . .	74 53	
Sundries, . . . . .	253 59	
	<hr/>	10,040 17
<b>Farm, stable and grounds: —</b>		
Blacksmith and supplies, . . . . .	\$250 55	
Carriages, wagons, etc., and repairs, . . . . .	2,079 56	
Fertilizers, vines, seeds, etc., . . . . .	502 74	
Hay, grain, etc., . . . . .	5,954 08	
Harnesses and repairs, . . . . .	138 37	
Horses, . . . . .	275 00	
Cows, . . . . .	1,450 00	
Rent, . . . . .	27 00	
Tools, farm machines, etc., . . . . .	234 92	
Sundries, . . . . .	219 57	
	<hr/>	11,131 79
<i>Amount carried forward,</i>		\$116,437 26

<i>Amount brought forward,</i>		\$116,437 26
Religious services,		1,048 10
Miscellaneous:—		
Books, periodicals, etc.,	\$41 00	
Cuspidor supplies,	386 07	
Entertainments,	40 73	
Freight, expressage and transportation,	1,550 30	
Funeral expenses,	65 00	
Ice,	2 50	
Medicines and hospital supplies,	1,187 63	
Medical attendance, nurses, etc. (extra),	85 00	
Postage,	205 70	
Printing and printing supplies,	372 05	
Soap and laundry supplies,	1,362 25	
Stationery and office supplies,	185 33	
School books and school supplies,	167 55	
Travel and expenses (officials),	336 16	
Telephone and telegraph,	491 89	
Tobacco,	5 25	
Sundries,	822 01	
		<u>7,306 42</u>
Total expenses for maintenance,		\$124,791 78

## SPECIAL APPROPRIATIONS.

Balance Dec. 1, 1913,		\$12,873 46
Appropriations for fiscal year,		6,426 43
Total,		<u>\$19,299 89</u>
Expended during the year (see statement annexed),	\$15,223 17	
Reverting to treasury of Commonwealth,	04	
		<u>15,223 21</u>
Balance Nov. 30, 1914,		\$4,076 68

## RESOURCES AND LIABILITIES.

*Resources.*

Cash on hand,	\$734 86	
November cash vouchers (paid from advance money), account of maintenance,	5,321 73	
		<u>\$6,056 59</u>

*Liabilities.*

Schedule of November bills,		\$8,848 37
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## PER CAPITA.

During the year the average number of inmates has been 234.57.  
 Total cost for maintenance, \$124,791.78.  
 Equal to a weekly per capita cost of \$10.23.  
 Receipt from sales, \$1,545.49.  
 Equal to a weekly per capita of \$0.1267+.  
 All other institution receipts, \$24,766.87.  
 Equal to a weekly per capita of \$2.0304+.

*Special Appropriations.*

OBJECT.	Act or Resolve.	Whole Amount.	Expended during Fiscal Year.	Expended to Date.	Balance at End of Year.
Power house and laundry, . . . . .	Acts 1913, chap. 133	\$17,000 00	\$1,524 80	\$17,000 00	—
Children's ward, . . . . .	Acts 1913, chap. 133	20,000 00	11,348 62	19,999 96	\$0 04 <sup>1</sup>
Grading, concrete walks, lighting, . . . . .	Acts 1914, chap. 131	2,500 00	2,349 75	2,349 75	150 25
Coal trestle, . . . . .	Acts 1914, chap. 131	3,926 43	—	—	3,926 43
		\$43,426 43	\$15,223 17	\$39,349 71	\$4,076 68

<sup>1</sup> Reverting to treasury of the Commonwealth.

Respectfully submitted,

HENRY D. CHADWICK,

*Treasurer.*

Examined and found correct as compared with the records in the office of the Auditor of the Commonwealth.

WARREN A. MERRILL,

*Assistant Supervisor of Accounts.*

## VALUATION.

*Real Estate.*

Land:—	
Used for tillage, $40\frac{1}{8}$ acres, . . . . .	\$3,009 36
Used for pasture, 5 acres, . . . . .	50 00
Used for grounds, 30 acres, . . . . .	6,513 96
Used for mowing, $22\frac{4}{8}$ acres, . . . . .	1,687 00
Used for woodland, 40 acres, . . . . .	2,000 00
Waste and miscellaneous, $40\frac{3}{8}$ acres, . . . . .	246 88
Buildings:—	
Administration, . . . . .	39,993 36
Inmates, . . . . .	55,609 00
Farm, stable and grounds, . . . . .	11,375 00
Employees, . . . . .	5,100 00
Heat, light and power, . . . . .	14,300 00
Miscellaneous:—	
Sewage system, . . . . .	1,859 35
Equipment, for heat, light and power, . . . . .	14,095 09
Water system, . . . . .	2,387 34
Heating system, . . . . .	1,107 10
Hot water system, . . . . .	397 55
Telephone system, . . . . .	75 00
Total valuation of real estate, . . . . .	\$159,805 99

*Personal Property.*

East ward, . . . . .	\$4,024 44
West ward, . . . . .	3,820 66
Children's ward, . . . . .	3,072 00
Laboratory, . . . . .	717 33
Administration building, . . . . .	1,202 86
Service building, . . . . .	1,331 21
Annex, . . . . .	933 51
Day farmhouse, . . . . .	302 31
Superintendent's apartment, . . . . .	832 09
<i>Amounts carried forward,</i> . . . . .	\$16,236 41
	\$159,805 99

<i>Amounts brought forward,</i>	\$16,236 41	\$159,805 99
Staff camp,	52 63	
Office,	1,589 36	
Schoolrooms,	932 25	
Kitchen,	3,367 60	
Bakery,	623 94	
Storerroom,	1,521 71	
Power house, second floor,	227 17	
Laundry,	497 68	
Engine room,	801 10	
Paint shop,	180 92	
Farm,	14,886 40	
	<hr/>	40,917 17
Total valuation,		<hr/> \$200,723 16

## PRODUCE OF FARM.

Asparagus, 3 boxes, . . . . .	\$12 00
String beans, 7 $\frac{3}{4}$ bushels, . . . . .	6 59
Beets, 61 $\frac{3}{4}$ bushels, . . . . .	37 05
Beet greens, 25 bushels, . . . . .	10 00
Cabbage, 10 tons, . . . . .	130 00
Carrots, 200 bushels, . . . . .	120 00
Cauliflower, 25 bushels, . . . . .	13 75
Celery, 700 boxes, . . . . .	525 00
Sweet corn, 203 bushels, . . . . .	121 80
Cucumbers, 75 boxes, . . . . .	75 00
Cucumber pickles, 160 pecks, . . . . .	56 00
Dandelions, 25 bushels, . . . . .	8 75
Egg plants, 5 $\frac{1}{2}$ barrels, . . . . .	20 62
Endive, 15 pounds, . . . . .	4 50
Kohl-rabi, 1 bushel, . . . . .	45
Leeks, 1 bushel, . . . . .	30
Lettuce, 922 boxes, . . . . .	230 50
Onions, 210 bushels, . . . . .	126 00
Parsley, 3 bushels, . . . . .	1 05
Parsnips, 50 bushels, . . . . .	32 50
Green peas, 25 bushels, . . . . .	50 00
Red peppers, 7 bushels, . . . . .	3 50
Green peppers, 8 bushels, . . . . .	4 00
Pumpkins, 20 hundredweight, . . . . .	30 00
Potatoes, 200 bushels, . . . . .	110 00
Radishes, 15 bushels, . . . . .	11 05
Rhubarb, 2,000 pounds, . . . . .	20 00
Scullions, 50 bushels, . . . . .	12 50
Spinach, 900 pounds, . . . . .	21 00
Summer squash, 150 barrels, . . . . .	90 00
Winter squash, 5 tons, . . . . .	100 00
Tomatoes, 100 bushels, . . . . .	100 00
Turnips, 167 bushels, . . . . .	125 25
Strawberries, 25 $\frac{1}{2}$ quarts, . . . . .	3 06
Swiss chard, 70 bushels, . . . . .	28 00
Hay, 5 tons, . . . . .	58 00
Feed corn, 90 $\frac{1}{4}$ tons, . . . . .	451 25
Cow peas and oats, 8 tons, . . . . .	40 00
Millet, 10 tons, . . . . .	50 00
Rye, 20 tons, . . . . .	100 00
Total, . . . . .	\$2,939 47
Received from the sale of pigs and hogs, . . . . .	\$406 52
Received from the sale of vegetables, . . . . .	57 46
Received from the sale of hides, . . . . .	34 61
Received from the sale of cows and calves, . . . . .	89 00
Beef used by sanatorium, 3,477 pounds, . . . . .	417 24
Veal used by sanatorium, 128 pounds, . . . . .	17 92
Pork used by sanatorium, 8,497 pounds, . . . . .	1,019 64
Milk produced, 143,153 quarts, at \$0.05 $\frac{1}{2}$ per quart, . . . . .	8,112 00

## SPECIAL REPORT.

The following special report is prepared in accordance with a resolution of the National Conference of Charities and Corrections, adopted May 15, 1906: —

### *Population.*

	Males.	Females.	Totals.
Number received during the year, . . . . .	130	147	277
Number passing out of the institution during the year, . . . . .	97	111	208
Number at the end of the fiscal year in the institution, . . . . .	129	125	254
Daily average attendance (number of inmates actually present) during the year.	117.70	116.87	234.57
Average number of employees and officers during the year, . . . . .	63	28	91

### *Expenditures.*

Current expenses: —

1. Salaries and wages, . . . . .	\$48,459 46
2. Clothing, . . . . .	748 64
3. Subsistence, . . . . .	33,870 89
4. Ordinary repairs, . . . . .	10,040 17
5. Office, domestic and outdoor expenses, . . . . .	31,672 62

Total, . . . . . \$124,791 78

Extraordinary expenses: —

1. Permanent improvements to existing buildings and new construction, . . . . .	15,223 17
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Grand total, . . . . . \$140,014 95

## STATISTICAL TABLES.

TABLE 1. — *Admissions and Discharges.*

	Males.	Females.	Totals.
Number of patients admitted Dec. 1, 1913, to Nov. 30, 1914, inclusive.	130	147	277
Number of patients discharged Dec. 1, 1913, to Nov. 30, 1914, inclusive.	97	111	208
Number of deaths (included in preceding item), . . . . .	28	19	47
Number in sanatorium Dec. 1, 1913, . . . . .	—	—	185
Number remaining Nov. 30, 1914, . . . . .	—	—	254

TABLE 2. — *Civil Condition of Patients admitted.*

	Males.	Females.	Totals.
Married, . . . . .	31	32	63
Single, . . . . .	94	110	204
Widowed, . . . . .	5	5	10
Totals, . . . . .	130	147	277

TABLE 3. — *Ages of Patients admitted.*

	Males.	Females.	Totals.
1 to 13 years, . . . . .	41	47	88
14 to 20 years, . . . . .	29	39	68
21 to 30 years, . . . . .	24	36	60
31 to 40 years, . . . . .	22	16	38
41 to 50 years, . . . . .	7	7	14
51 to 60 years, . . . . .	7	1	8
61 to 70 years, . . . . .	—	1	1
Totals, . . . . .	130	147	277

TABLE 4. — *Nativity and Parentage of Patients admitted.*

PLACES OF NATIVITY.	MALES.			FEMALES.			TOTALS.		
	Patient.	Father.	Mother.	Patient.	Father.	Mother.	Patient.	Father.	Mother.
United States:—									
Massachusetts, . . . . .	80	27	19	81	25	12	161	52	31
New England States, . . . . .	8	4	8	9	7	10	17	11	18
Other States, . . . . .	8	7	4	5	4	5	13	11	9
Total native, . . . . .	96	38	31	95	36	27	191	74	58
Other countries:—									
Armenia, . . . . .	1	2	—	—	—	—	1	2	—
Austria, . . . . .	1	1	2	2	2	2	3	3	4
Bohemia, . . . . .	—	—	2	—	1	—	—	1	2
Canada, . . . . .	4	11	11	12	21	20	16	32	31
Denmark, . . . . .	—	1	—	—	—	—	—	1	—
England, . . . . .	3	4	4	5	6	10	8	10	14
Finland, . . . . .	1	1	1	1	1	1	2	2	2
France, . . . . .	—	1	—	—	—	—	—	1	—
Germany, . . . . .	—	—	—	—	5	4	—	5	4
Ireland, . . . . .	6	25	34	4	24	32	10	49	66
Italy, . . . . .	2	2	2	5	8	5	7	10	7
Portugal, . . . . .	—	—	—	—	1	1	—	1	1
Roumania, . . . . .	—	1	1	—	—	—	—	1	1
Russia, . . . . .	9	13	15	16	18	22	25	31	37
Scotland, . . . . .	1	3	2	—	2	1	1	5	3
Sweden, . . . . .	1	8	7	4	6	5	5	14	12
Switzerland, . . . . .	1	1	1	—	—	—	1	1	1
Syria, . . . . .	1	—	—	1	3	3	2	3	3
Turkey, . . . . .	—	—	—	2	2	2	2	2	2
West Indies, . . . . .	—	—	—	—	1	1	—	1	1
Total foreign born, . . . . .	31	74	82	52	101	109	83	175	191
Unknown, . . . . .	3	18	17	—	10	11	3	28	28
Totals, . . . . .	130	130	130	147	147	147	277	277	277

TABLE 5. — *Residence of Patients admitted.*

PLACE.	Number.	PLACE.	Number.
Allston, . . . . .	2	North Adams, . . . . .	1
Amherst, . . . . .	2	Northampton, . . . . .	6
Arlington, . . . . .	1	North Easton, . . . . .	1
Athol, . . . . .	1	Northfield, . . . . .	1
Attleborough, . . . . .	3	North Hatfield, . . . . .	1
Baldwinsville, . . . . .	4	Orange, . . . . .	2
Barre, . . . . .	1	Orient Heights, . . . . .	1
Becket, . . . . .	1	Peabody, . . . . .	3
Boston, . . . . .	89	Pigeon Cove, . . . . .	1
Brockton, . . . . .	1	Pittsfield, . . . . .	2
Brookline, . . . . .	1	Provincetown, . . . . .	1
Cambridge, . . . . .	1	Quincy, . . . . .	1
Canton, . . . . .	2	Revere, . . . . .	2
Chelsea, . . . . .	8	Rutland, . . . . .	2
Dedham, . . . . .	2	Salem, . . . . .	2
East Longmeadow, . . . . .	1	Sharon, . . . . .	1
East Saugus, . . . . .	1	Shrewsbury, . . . . .	1
Fall River, . . . . .	4	Somerville, . . . . .	4
Fisherville, . . . . .	1	Southborough, . . . . .	1
Fitchburg, . . . . .	3	Southbridge, . . . . .	1
Foxborough, . . . . .	1	Spencer, . . . . .	1
Gardner, . . . . .	3	Springfield, . . . . .	23
Great Barrington, . . . . .	2	State minor wards, . . . . .	4
Greenfield, . . . . .	1	Turners Falls, . . . . .	1
Haverhill, . . . . .	3	Walpole, . . . . .	1
Hingham, . . . . .	1	Waltham, . . . . .	1
Holyoke, . . . . .	7	Ware, . . . . .	1
Lawrence, . . . . .	1	Waterville, . . . . .	1
Leeds, . . . . .	1	Webster, . . . . .	2
Leominster, . . . . .	3	West Auburn, . . . . .	1
Lexington, . . . . .	1	West Brookfield, . . . . .	1
Lowell, . . . . .	3	Westfield, . . . . .	3
Lynn, . . . . .	6	West Springfield, . . . . .	3
Malden, . . . . .	1	West Stockbridge, . . . . .	1
Medford, . . . . .	4	Whitinsville, . . . . .	1
Mendon, . . . . .	1	Winchendon, . . . . .	1
Millbury, . . . . .	1	Worcester, . . . . .	24
New Bedford, . . . . .	1	Total, . . . . .	277
Newton, . . . . .	2		

TABLE 6. — *Occupations.*

	Males.	Females.	Totals.		Males.	Females.	Totals.
Actor, . . . . .	1	-	1	Nurse, . . . . .	-	3	3
At home, . . . . .	-	8	8	Orderly, . . . . .	2	-	2
Book folder, . . . . .	-	1	1	Painter, . . . . .	3	-	3
Carder, . . . . .	1	1	2	Paper folder, . . . . .	-	1	1
Carpenter, . . . . .	3	-	3	Paper hanger, . . . . .	1	-	1
Cash girl, . . . . .	-	1	1	Plasterer, . . . . .	1	-	1
Chair maker, . . . . .	2	-	2	Pressman, . . . . .	1	-	1
Clerk, . . . . .	6	2	8	Reporter, . . . . .	1	-	1
Coachman, . . . . .	1	-	1	Salesman, . . . . .	2	-	2
Currier, . . . . .	1	-	1	School, . . . . .	53	68	121
Draftsman, . . . . .	1	-	1	Shoemaker, . . . . .	1	1	2
Egg inspector, . . . . .	1	-	1	Social worker, . . . . .	-	1	1
Emery polisher, . . . . .	1	-	1	Soldier, . . . . .	1	-	1
Engineer, . . . . .	4	-	4	Spinner, . . . . .	-	1	1
Factory hand, . . . . .	5	11	16	Stenographer, . . . . .	-	2	2
Gardener, . . . . .	1	-	1	Stoneworker, . . . . .	1	-	1
Hairdresser, . . . . .	-	1	1	Tailor, . . . . .	1	-	1
Housewife, . . . . .	-	33	33	Teacher, . . . . .	-	2	2
Inspector, . . . . .	1	-	1	Teamster, . . . . .	4	-	4
Janitor, . . . . .	1	-	1	Telephone operator, . . . . .	1	-	1
Laborer, . . . . .	6	-	6	Tinsmith, . . . . .	1	-	1
Machinist, . . . . .	6	-	6	Tool grinder, . . . . .	1	-	1
Merchant, . . . . .	1	-	1	Upholsterer, . . . . .	1	-	1
Messenger boy, . . . . .	3	-	3	Waiter, . . . . .	2	-	2
Milliner, . . . . .	-	1	1	Waitress, . . . . .	-	2	2
Newsboy, . . . . .	1	-	1	Weaver, . . . . .	-	2	2

TABLE 7. — *Condition on Admission.*

	Males.	Females.	Totals.
Incipient, . . . . .	28	33	61
Moderately advanced, . . . . .	29	39	68
Advanced, . . . . .	72	74	146
Nontuberculous, . . . . .	1	1	2
Totals, . . . . .	130	147	277

TABLE 8. — *Condition on Discharge.*

	Males.	Females.	Totals.
Arrested, . . . . .	8	10	18
Apparently arrested, . . . . .	17	27	44
Quiescent, . . . . .	11	7	18
Improved, . . . . .	13	16	29
Unimproved, . . . . .	17	23	40
Died, . . . . .	28	19 <sup>1</sup>	47
Nontuberculous, . . . . .	1	—	1
Not considered, . . . . .	2	9	11
Totals, . . . . .	97	111	208

<sup>1</sup> Drowned.TABLE 9. — *Deaths.*

	DURATION OF DISEASE.			SANATORIUM RESIDENCE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Under 1 month, . . . . .	—	—	—	4	3	7
1 to 3 months, . . . . .	—	—	—	9	6	15
3 to 6 months, . . . . .	3	—	3	8	2	10
6 to 9 months, . . . . .	4	3	7	1	4	5
9 months to 1 year, . . . . .	5	4	9	2	—	2
1 to 2 years, . . . . .	3	1	4	2	—	2
2 to 5 years, . . . . .	9	5	14	2	1	3
5 to 10 years, . . . . .	2	2	4	—	—	—
Over 10 years, . . . . .	1	1	2	—	—	—
Totals, . . . . .	27 <sup>1</sup>	16 <sup>2</sup>	43	28	16	44

<sup>1</sup> One nontuberculous, not included.<sup>2</sup> Three not considered, drowned; one not considered, nontuberculous.

## RUTLAND STATE SANATORIUM.

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### CONSULTING LARYNGOLOGIST.

A. C. GETCHELL, M.D.

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### RESIDENT MEDICAL OFFICERS.

ELLIOTT WASHBURN, M.D., . . . *Superintendent.*  
 JAMES A. LYON, M.D., . . . *Assistant Superintendent and Physician.*  
 WILLARD B. HOWES, M.D., . . . *Physician.*  
 STANHOPE B. BERKLEY, M.D., . . . *Physician.*  
 ———, . . . . . *Bacteriologist.*

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SARAH A. CRAWFORD, . . . *Superintendent of Nurses and Dietitian.*  
 CHARLES E. CARROLL, . . . *Steward.*  
 WALTER C. BROWN, . . . *Chief Enginecr.*  
 FREDERICK H. DRURY, . . . *Farmer.*

## REPORT OF THE SUPERINTENDENT.

*The Trustees of Hospitals for Consumptives.*

LADIES AND GENTLEMEN:— I present for your consideration the annual report of the Rutland State Sanatorium for the year ending Nov. 30, 1914.

## STAFF PERSONNEL.

Dr. Olin S. Pettingill, third assistant physician, resigned in October to take the position of assistant superintendent at the Rhode Island State Sanatorium at Wallum Lake, R. I. Dr. Stanhope B. Berkley, from the Catawba Sanatorium, Virginia, has been appointed by your honorable Board to succeed Dr. Pettingill, and assumes his duties on December 1.

Mr. Rudolph Ertischek, bacteriologist, died on November 16. I desire to place on record my appreciation of Mr. Ertischek as an able and conscientious laboratory man, and as a man who, in the face of a recognized inevitable fate, worked on cheerfully and stoutly to the end. His successor has not yet been chosen.

Miss Helen V. Pond, assistant dietitian, resigned on November 1. Miss Pond goes to Philadelphia, where she will pursue courses in advanced dietetics. Her successor has not yet been chosen.

## PATIENTS.

The daily average of patients in the sanatorium was 350, which is 2 more than any previous year. The admissions were 469 and the discharges 476. We found the usual variation between the condition of applicants as stated on the application blanks and as found on our examination.

*Patients admitted Dec. 1, 1913, to Nov. 30, 1914.*

	Classifica- tion on Application Blanks.	Classifica- tion on Admission.
Incipient, . . . . .	330	177
Moderately advanced, . . . . .	135	213
Far advanced, . . . . .	4	72
Nontuberculous, . . . . .	-	7
	469	469

On admission 37.74 per cent. were incipient, 45.41 per cent. were moderately advanced, 15.35 per cent. were far advanced, and 1.49 per cent. were considered to be nontubercular.

The average length of stay of discharged patients who were in the sanatorium long enough to be "considered" on our records, that is, at least one month, was ten months and six days, an increase of one month and twenty-two days per patient more than last year. The average age of all patients admitted was twenty-eight years, two months and twenty-nine days; of males, twenty-eight years, two months and eighteen days; of females, twenty-eight years, three months and ten days. The average age was eleven days younger than the previous year. The average gain in weight of discharged patients was 12.20 pounds, as against 8.46 pounds in 1913; the average increase for men, 13.25 pounds; for women, 11.15 pounds; largest individual gain in a man, 51 pounds; in a woman, 61 pounds.

The usual special reports and statistical tables are appended to this report.

## EXPENSE OF OPERATING.

The treasurer's report shows the income and expense account for the year. The Legislature cut our estimate of expense by \$11,000, which is in a measure responsible for the fact that we faced a deficit at the end of the year. The severity of the winter, necessitating an abnormally large coal consumption, the poor quality of the coal which was supplied to our institution, in common with others, the high cost of food supplies,

and certain increases in salaries and wages, also contributed to this end. By a change in the method of buying for the main dining room, we reduced our food cost nearly \$3,000 over that of 1913, and by still further changes, which are in contemplation, we think that we can still further reduce this cost.

#### LENGTH OF PAY ROLL.

A very considerable item in the maintenance expense of this sanatorium is the length of its pay roll. Thus by an examination of our pay roll for the past eight or ten years we find that we carry, on an average, 200 employees for 350 patients, or 1 employee for 1.75 patients. This is not a new condition; it is one that has existed for many years, and is in a measure due to the following custom. For many years it has been the policy of this institution to take on its pay roll, in various capacities, ex-patients of the sanatorium. Primarily, this was done, I suppose, to encourage and support patients who on discharge from the sanatorium as patients feared to resume their former work at home. Then, too, it was found that a number of such ex-patients, who could do little or no work, and had considerable difficulty even to live if they returned to their own city or town, were able to live and do a fair amount of work at Rutland. Gradually, the custom became fixed, so that to-day approximately 50 per cent. of the employees on our pay roll have been at some time or other patients in the sanatorium.

How has this plan worked out in relation to (1) the ex-patient himself, (2) the Commonwealth at large, (3) the efficiency and economy of the sanatorium itself?

1. As to the ex-patient, the plan has worked on the whole pretty well. Many ex-patients have been enabled by this method to regain slowly full working capacity, and have tided themselves over financial straits, which they faced when discharged as patients, until they accumulated a few dollars with which again to make the attempt at working at their old trades. Then, again, as stated above, many have been enabled to work and keep alive here who could not do so under conditions existing in places where they would otherwise have been obliged to live and work.

On the other hand, there have been noted certain instances where this plan has failed to work to the benefit of the ex-patient, where he or she, under the evident impression that somehow or other the State was bound to provide a job, has been satisfied to remain at the sanatorium at a very low wage for indefinite periods, clogging the pay roll and returning a minimum of service. Such patients are apparently imbued with the firm conviction that because they are ex-patients, they are thus exempt from discharge as workers, except for the most flagrant causes. In such instances as these, this plan has in this way acted against the ex-patient's own best interests.

2. In what way, if any, does the Commonwealth benefit by the practice? In my opinion the only benefit is the fact that by giving some of these ex-patients employment in a place where they can live, a certain number are thereby prevented from becoming permanent dependents, who would in all probability become such dependents if forced to return to working and home conditions under which inevitably they would lose all the benefit gained in their sanatorium residence, and would ultimately break down and succumb to the disease. I see no other real benefit to the Commonwealth from this custom.

3. The relation of this practice to the efficiency and economy of the sanatorium itself is of much importance. Does the practice help or injure the sanatorium? I am frank to say that the benefit to the sanatorium is so extremely small as to be negligible, and that, on the other hand, the injury to efficiency and economy is very plainly apparent to the executive head. This injury is due to the following factors:—

(a) Most ex-patients are physically below working par; it takes more of them to do the day's work than of healthy employees. This increases the number of employees to do the necessary work of the institution without a corresponding increase in efficiency; the result is a *long* pay roll, although by no means necessarily an unduly *large* pay roll in the matter of dollars and cents, inasmuch as the average amount per capita paid to all employees in 1914 was less than \$7 per week, with living. It is a *long* pay roll, and, assuming that by employing only persons in full health, 160 or 170 could do the work now

done by 200, of whom 100 are ex-patients, we would then dispense with the necessity of feeding, housing and laundering for 30 or 40 employees. This is where the financial gain would appear, as we would have to pay the healthy employees more than we now have to pay ex-patient employees. In short, the gain would not appear in the gross amount of salaries and wages, but would appear in the items, — food, bedding, care of rooms, laundry, etc. There would be 30 to 40 less employees to house and care for, which might permit a still further reduction in the number of employees who attend to such duties. So much for the economy of it.

(b) Efficiency in sanatorium maintenance, outside of the monetary side of the question, is, in my opinion, injured by the practice of taking on ex-patients as employees through the peculiar camaraderie, or bond, which exists between persons affected with tuberculosis. This camaraderie is carried to the extent that there exists such a bond between patients and workers who have been patients as to interfere with efficiency in sanatorium administration; especially is this true in the matter of discipline of patients. Many times it is practically impossible to obtain from an ex-patient worker a true statement of breaches of discipline by patients, even when most serious, although the worker has such information within his knowledge. This is especially true when the worker has been, while a patient, associated with the offender. There appears to be an unwritten law that the ex-patient worker must in every instance come to the support of the offending patient rather than of the administration. This is a serious hindrance to administrative efficiency. Furthermore, frequently an ex-patient will be obliged to lay off for a half day, a day, two days or longer, and not infrequently breaks down entirely, thus temporarily embarrassing the department to which he has been assigned and necessitating the frequent introduction of an untrained worker. This still further reduces efficiency.

To sum up, your superintendent after attempting to balance the credits against the debits of this custom has arrived at the opinion that the account cannot be made to balance; that while the ex-patients undoubtedly gain a good deal by the custom, and the Commonwealth, as stated, may possibly gain

a little, that the loss to the sanatorium in efficiency and economy so far offsets these gains that in the final analysis the balance is after all heavily against the State.

#### MEDICAL SERVICE.

The medical routine of a sanatorium does not vary widely year after year. In the annual report for 1913 we presented a résumé of our routine medical work, and there is nothing to add to it this year. Especial attention has been paid to throat complications, and every member of the medical staff has made especial effort to perfect himself in the proper technique of such work. A full report of the throat work done during the year has been submitted to Dr. A. C. Getchell, consulting laryngologist, who has incorporated it in a special report.

The work on artificial pneumothorax has somewhat increased over that of the previous year. We are not yet ready to pass final judgment on the efficacy of this mode of treatment.

A list of medical papers, prepared by the members of my staff and by myself during the year, will be found elsewhere.

#### HOSPITAL AND SANATORIUM CLASSES.

In February this sanatorium adopted the division of patients into two classes, as at North Reading Sanatorium in the preceding year, — the sanatorium or "I'll Try" class, and the hospital or the "I Don't Much Care" class. Observations upon the results obtained by this division of patients appear elsewhere.

#### WATER SUPPLY.

Under a new contract, signed mutually by the town of Rutland and the Trustees of Hospitals for Consumptives, a new rate of 10 cents per 1,000 gallons of water, instead of 12 cents as heretofore, became operative on October 14, upon which date the installation of a large water meter, placed near the main service pipe by the sanatorium, in accordance with a clause in the contract, the expense of which was provided for by a special resolve of the Legislature, was completed. This large meter does away with the use of numerous small meters heretofore used, and will eliminate the question of leaks on portions

of pipe previously not metered, which occasioned us considerable expense and much annoyance. Whenever the town thought there was a leak on one of these pipes on our property, we were obliged to dig down and investigate, often finding no leak. By placing the new meter within 20 feet of the town's main, we have eliminated this trouble.

The matter of waste of water has received the attention of the superintendent. In spite of the utmost care, patients waste large quantities of water by allowing the water to run continuously while shaving, etc. As many patients and some employees are habitually negligent in this respect of waste, a scheme whereby the water pressure may be reduced is under consideration, and has been installed in a few places. No one suffers by this, every one has all the water he needs, and even if the faucet is left turned on, only a third as much water is lost as heretofore. In the first month, November 1 to December 1, that especial attention has been given to the matter of water waste, the meter reading showed a saving of 500,000 gallons over the corresponding period for the previous year. There appears to be no adequate reason why, with a constant sanatorium population, the water used should show as it has a steady increase year after year.

#### POULTRY HOUSES.

Under a special appropriation granted by the Legislature, a new poultry plant is in process of construction on the location indicated in our report of 1913.

#### REPAIRS AND IMPROVEMENTS.

The repairs on the engine room, necessitated by the fire in 1913, have been completed. The appropriation for this work carried with it a sum for the erection of a small house for fire purposes. We built for such use a one room cobblestone house, 20 by 22 feet, with roof and gables covered with metallic shingles, and having an attic or room for storage of hose, etc.

By authorization of your honorable Board a much needed veranda has been added to ward F.

Much needed painting and general repairs have been done.

Much still remains to be done. The sanatorium buildings have reached an age at which constant minor repairs here and there are necessary in order to maintain them at the desired standard.

#### CONCLUSION.

To the clergymen of the several denominations who by their zeal have helped the patients and have lessened my load, to the many friends of the sanatorium who by their gifts of books and clothing and by deeds of kindness have lightened the burden of many patients, and to the members of my medical staff, my officers and employees for work cheerfully and carefully performed, I proffer my sincere thanks and appreciation. Especially do I thank the members of the Board of Trustees for their support, advice and co-operation in matters concerning the sanatorium administration.

Very respectfully submitted,

ELLIOTT WASHBURN,

*Superintendent.*

RUTLAND, Dec. 1, 1914.

## TREASURER'S REPORT.

—————

*To the Trustees of Massachusetts Hospitals for Consumptives.*

I respectfully submit the following report of the finances of this institution for the fiscal year ending Nov. 30, 1914:—

### CASH ACCOUNT.

Balance Dec. 1, 1913, . . . . .		\$3,936 36
<i>Receipts.</i>		
<i>Institution Receipts.</i>		
Board of inmates:—		
Private, . . . . .	\$12,434 93	
Cities and towns, . . . . .	25,734 22	
Other reimbursements, charitable (collected by State Treasurer), . . . . .	17 71	
	48,186 86	\$38,186 86
Sales:—		
Food, . . . . .	\$933 77	
Clothing and materials, . . . . .	16 75	
Heat, light and power, . . . . .	7 00	
Miscellaneous, . . . . .	567 95	
Farm, stable and grounds:—		
Cows and calves, . . . . .	\$1,996 40	
Pigs and hogs, . . . . .	1,271 80	
Hides, . . . . .	1 50	
Use of teams, . . . . .	4 50	
Sundries, . . . . .	24 29	
	3,298 49	4,823 96
Miscellaneous receipts:—		
Interest on bank balances, . . . . .	\$186 60	
Sundries, . . . . .	95 07	
	281 67	43,292 49
Wages refunded account of 1913 expenses, . . . . .		7 15
<i>Receipts from Treasury of Commonwealth.</i>		
Maintenance appropriations:—		
Balance of 1913, . . . . .	\$211 05	
1913 deficiency, . . . . .	5,076 55	
Advance money (amount on hand November 30), . . . . .	21,983 49	
Approved schedules of 1914, . . . . .	\$171,553 09	
Less returned, . . . . .	16 51	
	171,536 58	198,807 67
Special appropriations, . . . . .	\$5,228 13	
Less returned, . . . . .	1 64	
	5,226 49	
Total, . . . . .		\$251,270 16

*Payments.*

To treasury of Commonwealth:—			
Institution receipts,			\$43,292 49
Wages refunded account of 1913 expenses,			7 15
Maintenance appropriations:—			
Balance November schedule, 1913,		\$9,407 92	
Ten months schedules, 1914,		171,536 58	
October and November advances,		13,248 78	
		<hr/>	194,193 28
Special appropriations:—			
Approved schedules,	\$5,226 49		
Less advances, last year's report,	183 96		
	<hr/>	\$5,042 53	
November advances,		27 42	
		<hr/>	5,069 95
Balance Nov. 30, 1914:—			
In bank,		\$8,687 29	
In office,		20 00	
		<hr/>	8,707 29
Total,			<hr/>
			\$251,270 16

## MAINTENANCE.

Appropriation,		\$194,166 00
Expenses (as analyzed below),		201,110 93
		<hr/>
Deficiency,		\$6,944 93

*Analysis of Expenses.*

Salaries, wages and labor:—			
Elliott Washburn, M.D., superintendent,		\$2,500 00	
General administration,		42,886 52	
Medical service,		4,758 92	
Ward service (male),		1,444 20	
Ward service (female),		8,105 45	
Repairs and improvements,		6,347 29	
Farm, stable and grounds,		8,737 86	
		<hr/>	\$74,780 24
Food:—			
Butter,		\$6,267 04	
Butterine,		259 05	
Beans,		236 09	
Bread and crackers,		214 76	
Cereals, rice, meal, etc.,		640 21	
Cheese,		147 32	
Eggs,		8,116 64	
Flour,		2,225 45	
Fish,		2,267 03	
Fruit (dried and fresh),		4,171 31	
Lard,		73	
		<hr/>	
Amounts carried forward,		\$24,545 63	\$74,780 24

<i>Amounts brought forward,</i>	\$24,545 63	\$74,780 24
<b>Food — <i>Con.</i></b>		
Meats, . . . . .	31,812 40	
Milk, . . . . .	9,222 53	
Moiasses and syrup, . . . . .	95 01	
Spices, seasonings, salt, etc., . . . . .	727 27	
Sugar, . . . . .	2,222 95	
Tea, coffee, broma and cocoa, . . . . .	1,323 57	
Vegetables, . . . . .	3,819 21	
Yeast, . . . . .	105 75	
Sundries, . . . . .	260 29	
	<hr/>	74,134 61
<b>Clothing and materials: —</b>		
Boots, shoes and rubbers, . . . . .	\$5 75	
Clothing, . . . . .	110 61	
	<hr/>	116 36
<b>Furnishings: —</b>		
Beds, bedding, table linen, etc., . . . . .	\$2,562 57	
Brushes, brooms, . . . . .	317 06	
Carpets, rugs, etc., . . . . .	247 79	
Crockery, glassware, cutlery, etc., . . . . .	947 62	
Furniture and upholstery, . . . . .	637 58	
Kitchen furnishings, . . . . .	367 00	
Wooden ware, buckets, pails, etc., . . . . .	36 22	
Sundries, . . . . .	111 31	
	<hr/>	5,227 15
<b>Heat, light and power: —</b>		
Coal, . . . . .	\$14,395 97	
Transportation, . . . . .	2,273 48	
Wood, . . . . .	78 73	
Oil, . . . . .	217 46	
Sundries, . . . . .	120 86	
	<hr/>	17,086 50
<b>Repairs and improvements: —</b>		
Brick, . . . . .	\$108 00	
Cement, lime and plaster, . . . . .	104 71	
Doors, sashes, etc., . . . . .	94 32	
Electrical work and supplies, . . . . .	496 00	
Hardware, . . . . .	631 04	
Lumber, . . . . .	498 50	
Machines (detached), . . . . .	645 18	
Paints, oil, glass, etc., . . . . .	1,193 42	
Plumbing, steam fitting and supplies, . . . . .	1,188 54	
Roofing and materials, . . . . .	23 57	
Sundries, . . . . .	960 53	
	<hr/>	5,943 81
<b>Farm, stable and grounds: —</b>		
Blacksmith and supplies, . . . . .	\$217 70	
Carriages, wagons, etc., and repairs, . . . . .	332 70	
	<hr/>	
<i>Amounts carried forward,</i>	\$550 40	\$117,288 67

<i>Amounts brought forward,</i>	\$550 40	\$177,288 67
<b>Farm, stable and grounds — <i>Con.</i></b>		
Fertilizers, vines, seeds, etc.,	865 98	
Hay, grain, etc.,	6,131 37	
Harnesses and repairs,	123 87	
Horses,	440 00	
Other live stock,	372 75	
Tools, farm machines, etc.,	248 56	
Sundries,	399 19	
	<hr/>	9,132 12
Religious services,		1,321 84
<b>Miscellaneous: —</b>		
Books, periodicals, etc.,	\$34 56	
Cuspidor supplies,	633 15	
Entertainments,	172 38	
Freight, expressage and transportation,	1,195 34	
Funeral expenses,	20 00	
Medical attendance, nurses, etc. (extra),	2,238 22	
Manual training supplies,	54 00	
Postage,	466 44	
Printing and printing supplies,	377 37	
Soap and laundry supplies,	1,137 54	
Stationery and office supplies,	1,020 71	
School books and school supplies,	2 00	
Travel and expenses (officials),	352 37	
Telephone and telegraph,	1,018 02	
Tobacco,	7 95	
Water,	2,933 65	
Sundries,	1,051 75	
	<hr/>	13,375 45
Total expenses for maintenance,		\$201,118 08
Wages refunded account of 1913 expenses,		7 15
		<hr/>
		\$201,110 93
<b>SPECIAL APPROPRIATIONS.</b>		
Balance Dec. 1, 1913,		\$4,620 81
Appropriations for fiscal year,		1,150 00
		<hr/>
Total,		\$5,770 81
Expended during the year (see statement annexed),	\$5,226 49	
Reverting to treasury of Commonwealth,	5 42	
	<hr/>	5,231 91
Balance Nov. 30, 1914,		\$538 90

## RESOURCES AND LIABILITIES.

*Resources.*

Cash on hand, . . . . .	\$8,707 29	
October and November cash vouchers (paid from advance money):—		
Account of maintenance, . . . . .	\$13,248 78	
Account of special appropriations, . . . . .	27 42	
	<hr/>	13,276 20
Due from treasury of Commonwealth, balance of appropriation, . . . . .	653 08	
	<hr/>	\$22,636 57

*Liabilities.*

Schedule of October and November bills, . . . . .	\$29,581 50
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## PER CAPITA.

During the year the average number of inmates has been 350.  
 Total cost for maintenance, \$201,110.93.  
 Equal to a weekly per capita cost of \$11.05.  
 Receipt from sales, \$4,823.96.  
 Equal to a weekly per capita of \$0.265.  
 All other institution receipts, \$38,468.53.  
 Equal to a weekly per capita of \$2.1136.

*Special Appropriations.*

OBJECT.	Act or Resolve.	Whole Amount.	Expended during Fiscal Year.	Expended to Date.	Balance at End of Year.
Road, . . . . .	Acts 1912, chap. 88	\$1,400 00	\$356 40	\$1,394 58	\$5 42 <sup>1</sup>
Repairs, 1913, . . . . .	Acts 1913, chap. 119	5,222 01	3,954 16	4,917 18	304 83
New poultry houses, . . . . .	Acts 1914, chap. 85	1,000 00	852 23	852 23	147 77
Watchman's clock, . . . . .	Acts 1914, chap. 85	150 00	63 70	63 70	86 30
		\$7,772 01	\$5,226 49	\$7,227 69	\$538 90

<sup>1</sup> Reverting to treasury of the Commonwealth.

Respectfully submitted,

ELLIOTT WASHBURN,  
*Treasurer.*

Examined and found correct as compared with the records in the office of the Auditor of the Commonwealth.

WARREN A. MERRILL,  
*Assistant Supervisor of Accounts.*

## VALUATION.

## INVENTORY.

Land: <sup>1</sup> —	
Garden, 7.01 acres, . . . . .	\$1,752 50
Field crops, 26.37 acres, . . . . .	2,637 00
Orchard and fruit, 6.75 acres, . . . . .	1,350 00
Meadow, 106.85 acres, . . . . .	9,363 00
Pasture, 10.67 acres, . . . . .	266 75
Lawns and buildings, 31.21 acres, . . . . .	10,554 41
Permanent woodland, 69 acres, . . . . .	2,415 00
Rough pasture (too rough to cultivate), 90.67 acres, . . . . .	1,360 05
Other land (roads, sewer beds), 15.98 acres, . . . . .	1,100 00
Sewerage system, . . . . .	19,400 00
 Total, 364.51 acres, . . . . .	 \$50,198 71
Buildings:—	
Institution buildings, . . . . .	\$442,500 00
Farm, stable and grounds, . . . . .	26,500 00
Miscellaneous, . . . . .	2,200 00
 Total, . . . . .	 471,200 00
 Grand total, . . . . .	 \$521,398 71
Present value of all personal property as per inventory taken	
Dec. 1, 1914, . . . . .	\$46,254 49

<sup>1</sup> This year we inventoried our land under the headings furnished by the State Auditor for our farm account.

## FARM ACCOUNT.

During the year a new system of farm accounting was inaugurated by the department of State Auditor. The yearly report under this system is an exhaustive affair and is too bulky for reproduction in this report. A copy is filed with the Trustees of Hospitals for Consumptives and one is on file in the office of the State Auditor. The more interesting portions, condensed, are here given. The prices are those fixed by the Auditor:—

### *Farm Produce.*

Barley, 25 tons, at \$5, . . . . .	\$125 00
Corn, green feed, 25 tons, at \$5, . . . . .	125 00
Hay, 165 tons, at \$20.75, . . . . .	3,423 75
Millet, 40 tons, at \$5, . . . . .	200 00
Oats, 100 tons, at \$5, . . . . .	500 00
Hungarian, 35 tons, at \$5, . . . . .	175 00
Potatoes, 601 $\frac{5}{12}$ bushels, at \$0.55, . . . . .	330 78
Beans, string, 21 $\frac{1}{2}$ bushels, at \$0.85, . . . . .	18 28
Beans, shell, 55 $\frac{1}{2}$ bushels, at \$0.85, . . . . .	47 18
Beets, 107 bushels, at \$0.60, . . . . .	64 20
Beet greens, 59 bushels, at \$0.40, . . . . .	21 20
Cabbage, 20 $\frac{53}{100}$ hundredweight, at \$0.65, . . . . .	13 34
Carrots, 92 $\frac{1}{2}$ bushels, at \$0.60, . . . . .	55 50
Cauliflower, 16 $\frac{1}{2}$ bushels, at \$0.55, . . . . .	8 89
Corn, sweet, 93 $\frac{1}{2}$ bushels, at \$0.60, . . . . .	56 10
Cucumbers, 47 $\frac{1}{2}$ boxes, at \$1, . . . . .	47 25
Lettuce, 101 boxes, at \$0.25, . . . . .	25 25
Onions, 8 bushels, at \$0.60, . . . . .	4 80
Parsnips, 11 bushels, at \$0.65, . . . . .	7 15
Peas, green, 3 bushels, at \$2, . . . . .	6 00
Peppers, green, 1 $\frac{1}{2}$ bushels, at \$0.50, . . . . .	75
Radishes, 4 $\frac{1}{5}$ bushels, at \$0.75, . . . . .	3 33
Rhubarb, 942 pounds, at \$0.01, . . . . .	9 42
Spinach, 14 bushels, at \$0.35, . . . . .	4 90
Squash, summer, 60 $\frac{1}{10}$ barrels, at \$0.60, . . . . .	36 01
Squash, winter, 38 $\frac{1}{10}$ hundredweight, at \$20 per ton, . . . . .	34 02
Tomatoes, 60 $\frac{1}{2}$ bushels, at \$1, . . . . .	62 50
Turnips, 10 bushels, at \$0.75, . . . . .	7 50
Apples, 18 $\frac{4}{5}$ barrels, at \$2, . . . . .	37 60
Apples, 33 barrels, at \$1.50, . . . . .	49 50
Milk, 117,803 $\frac{1}{2}$ quarts, at \$0.055, . . . . .	6,675 53
Total, . . . . .	\$12,175 73

Received from sale of calves, cows, . . . . .	\$762 00
Received from sale of veal, . . . . .	16 38
Received from sale of pork, . . . . .	2,506 20
	<hr/>
Total, . . . . .	\$3,284 58

*Products of Poultry Department.*

Eggs, 86,293 dozen, at \$0.25, . . . . .	\$1,797 77
Fowl, dressed, 2,212½ pounds, . . . . .	396 71
Sundries, . . . . .	4 39
	<hr/>
Total, . . . . .	\$2,198 87

## SPECIAL REPORT.

The following special report is prepared in accordance with a resolution of the National Conference on Charities and Corrections, adopted May 15, 1906:—

### *Population.*

	Males.	Females.	Totals.
Number of patients present at beginning of fiscal year, . . . . .	178	178	356
Number received during year, . . . . .	202	267	469
Number discharged during year, . . . . .	200	276	476
Number of deaths included in preceding item, . . . . .	23	14	37
Number at end of fiscal year, . . . . .	180	169	349
Daily average attendance ( <i>i.e.</i> , number of inmates actually present) during the year, . . . . .	178	172	350
Average number of officers and employees during year, . . . . .	133.6	80.1	213.7

### *Expenditures.*

Current expenses:—

1. Salaries and wages, . . . . .	\$74,773 09
2. Clothing, . . . . .	116 36
3. Subsistence, . . . . .	74,134 61
4. Ordinary repairs, . . . . .	5,943 81
5. Office, domestic and outdoor expenses, . . . . .	46,143 06

————— \$201,110 93

Extraordinary expenses:—

1. Permanent improvements to existing buildings, . . . . .	4,806 39
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Grand total, . . . . . \$205,917 32

## STATISTICAL TABLES.

TABLE 1. — *Admissions and Discharges.*

	Males.	Females.	Totals.
Number of patients in sanatorium Dec. 1, 1913, . . . . .	178	178	356
Number admitted Nov. 30, 1913, to Dec. 1, 1914, . . . . .	202	267	469
Number discharged Nov. 30, 1913, to Dec. 1, 1914, . . . . .	200	276	476
Number remaining in sanatorium Nov. 30, 1914, . . . . .	180	169	349
Daily average number of patients, . . . . .	178	172	350
Died (included in number discharged), . . . . .	23	14	37

TABLE 2. — *Civil Condition of Patients admitted.*

	Males.	Females.	Totals.
Single, . . . . .	118	152	270
Married, . . . . .	81	96	177
Widowed, . . . . .	2	18	20
Divorced, . . . . .	1	1	2
Totals, . . . . .	202	267	469

TABLE 3. — *Age of Patients admitted.*

	Males.	Females.	Totals.
Under 14 years, . . . . .	-	-	-
14 to 20 years, . . . . .	25	35	60
20 to 30 years, . . . . .	102	137	239
30 to 40 years, . . . . .	48	58	106
40 to 50 years, . . . . .	25	35	60
Over 50 years, . . . . .	2	2	4
Totals, . . . . .	202	267	469

TABLE 4. — *Nativity of Patients admitted.*

PATIENTS BORN IN —	Males.	Females.	Totals.	FATHERS BORN IN —	Males.	Females.	Totals.
United States, . . . . .	117	155	272	United States, . . . . .	53	74	127
Canada, . . . . .	21	34	55	Canada, . . . . .	27	52	79
Ireland, . . . . .	13	30	43	Ireland, . . . . .	44	69	113
Russia, . . . . .	29	20	49	Russia, . . . . .	33	22	55
England, . . . . .	6	8	14	England, . . . . .	15	8	23
Sweden, . . . . .	3	3	6	Sweden, . . . . .	9	7	16
Germany, . . . . .	3	2	5	Germany, . . . . .	5	6	11
Italy, . . . . .	2	1	3	Italy, . . . . .	5	5	10
Scotland, . . . . .	1	1	2	Scotland, . . . . .	2	4	6
Austria, . . . . .	2	3	5	Austria, . . . . .	1	4	5
Norway, . . . . .	-	2	2	Norway, . . . . .	-	4	4
Turkey, . . . . .	1	1	2	Turkey, . . . . .	1	2	3
Poland, . . . . .	-	1	1	Poland, . . . . .	-	1	1
Denmark, . . . . .	-	-	-	Denmark, . . . . .	-	1	1
Syria, . . . . .	-	1	1	Syria, . . . . .	-	1	1
Bohemia, . . . . .	-	-	-	Bohemia, . . . . .	-	1	1
Armenia, . . . . .	1	1	2	Armenia, . . . . .	1	1	2
British Columbia, . . . . .	-	1	1	British Columbia, . . . . .	-	1	1
Holland, . . . . .	-	1	1	Holland, . . . . .	-	1	1
West Indies, . . . . .	1	-	1	West Indies, . . . . .	1	1	2
Belgium, . . . . .	-	-	-	Belgium, . . . . .	1	-	1
Portugal, . . . . .	-	-	-	Portugal, . . . . .	1	-	1
Roumania, . . . . .	1	-	1	Roumania, . . . . .	1	-	1
Egypt, . . . . .	-	1	1	Egypt, . . . . .	-	-	-
Unknown, . . . . .	1	1	2	Unknown, . . . . .	1	2	3
Newfoundland, . . . . .	-	-	-	Newfoundland, . . . . .	1	-	1
Totals, . . . . .	202	267	469	Totals, . . . . .	202	267	469

TABLE 5. — *Residence of Patients admitted.*

CITIES AND TOWNS.	Males.	Females.	Totals.	CITIES AND TOWNS.	Males.	Females.	Totals.
Adams, . . . . .	-	1	1	Malden, . . . . .	6	5	11
Amesbury, . . . . .	1	1	2	Mansfield, . . . . .	-	1	1
Amherst, . . . . .	1	-	1	Marlborough, . . . . .	-	1	1
Arlington, . . . . .	2	1	3	Medford, . . . . .	3	2	5
Athol, . . . . .	1	-	1	Melrose, . . . . .	-	2	2
Attleborough, . . . . .	4	3	7	Middleborough, . . . . .	-	1	1
Avon, . . . . .	-	1	1	Monson, . . . . .	1	-	1
Blackstone, . . . . .	1	-	1	Natick, . . . . .	-	1	1
Boston, . . . . .	90	121	211	Needham, . . . . .	-	3	3
Braintree, . . . . .	1	-	1	New Bedford, . . . . .	-	2	2
Broekton, . . . . .	2	2	4	Newburyport, . . . . .	4	-	4
Brookfield, . . . . .	2	-	2	Newton, . . . . .	-	2	2
Brookline, . . . . .	1	-	1	Northampton, . . . . .	-	1	1
Cambridge, . . . . .	5	9	14	Northfield, . . . . .	-	1	1
Chatham, . . . . .	-	1	1	Orleans, . . . . .	1	-	1
Chelsea, . . . . .	2	6	8	Peabody, . . . . .	-	2	2
Cohasset, . . . . .	-	1	1	Pittsfield, . . . . .	-	1	1
Concord, . . . . .	-	2	2	Plainville, . . . . .	-	1	1
Dedham, . . . . .	1	-	1	Quincy, . . . . .	-	1	1
Dudley, . . . . .	1	-	1	Randolph, . . . . .	1	-	1
Everett, . . . . .	2	6	8	Readville, . . . . .	-	1	1
Fall River, . . . . .	1	1	2	Revere, . . . . .	-	2	2
Fitchburg, . . . . .	1	4	5	Rockland, . . . . .	-	3	3
Framingham, . . . . .	5	2	7	Rutland, . . . . .	10	4	14
Gardner, . . . . .	-	1	1	Salem, . . . . .	4	-	4
Gloucester, . . . . .	1	-	1	Santuit, . . . . .	1	-	1
Groveland, . . . . .	-	1	1	Sherborn, . . . . .	1	-	1
Hampton Falls, . . . . .	-	1	1	Somerville, . . . . .	9	10	19
Haverhill, . . . . .	4	2	6	Southbridge, . . . . .	-	1	1
Holyoke, . . . . .	1	1	2	Springfield, . . . . .	3	2	5
Hudson, . . . . .	-	1	1	Stoneham, . . . . .	-	1	1
Ipswich, . . . . .	-	1	1	Stoughton, . . . . .	3	2	5
Lawrence, . . . . .	-	3	3	Swampscott, . . . . .	1	1	2
Leominster, . . . . .	-	2	2	Waltham, . . . . .	-	3	3
Lowell, . . . . .	5	3	8	Watertown, . . . . .	2	-	2
Lynn, . . . . .	9	10	19	Waverley, . . . . .	-	1	1

TABLE 5. — *Residence of Patients admitted* — Concluded.

CITIES AND TOWNS.	Males.	Females.	Totals.	CITIES AND TOWNS.	Males.	Females.	Totals.
Webster, . . . . .	-	2	2	Whitman, . . . . .	-	1	1
Wellesley, . . . . .	-	1	1	Williamstown, . . . . .	-	2	2
Westborough, . . . . .	-	1	1	Winthrop, . . . . .	-	2	2
Westford, . . . . .	-	2	2	Worcester, . . . . .	8	7	15
Westwood, . . . . .	-	2	2	Totals, . . . . .	202	267	469
Whitinsville, . . . . .	-	1	1				

TABLE 6. — *Occupations.*

	Males.	Females.	Totals.		Males.	Females.	Totals.
Actor, . . . . .	1	-	1	Corset fitter, . . . . .	-	1	1
Artist, . . . . .	1	-	1	Cutter, shoe, . . . . .	4	-	4
Attendant, . . . . .	4	1	5	Cutter, stone, . . . . .	1	-	1
Automobile repairer, . . . . .	1	-	1	Domestic, . . . . .	-	14	14
Baker, . . . . .	2	-	2	Dressmaker, . . . . .	-	5	5
Barber, . . . . .	1	-	1	Electrician, . . . . .	2	-	2
Bell boy, . . . . .	1	-	1	Elevator boy, . . . . .	1	-	1
Bill poster, . . . . .	1	-	1	Engineer, stationary, . . . . .	1	-	1
Blacksmith, . . . . .	1	-	1	Errand boy, . . . . .	1	-	1
Bookbinder, . . . . .	1	2	3	Factory, . . . . .	28	43	71
Bookkeeper, . . . . .	3	3	6	Farmer, . . . . .	1	-	1
Box maker, . . . . .	-	2	2	Fireman, stationary, . . . . .	1	-	1
Brakeman, freight, . . . . .	3	-	3	Flagman, . . . . .	1	-	1
Brakeman, passenger, . . . . .	1	-	1	Florist, . . . . .	1	-	1
Buyer, . . . . .	-	1	1	Furrier, . . . . .	1	-	1
Canvasser, . . . . .	-	1	1	Gas fitter, . . . . .	1	-	1
Carpenter, . . . . .	5	-	5	General work, . . . . .	4	3	7
Cashier, . . . . .	-	1	1	Grocer, . . . . .	1	-	1
Chauffeur, . . . . .	1	-	1	Hoseman, . . . . .	1	-	1
Cigar maker, . . . . .	1	-	1	Housewife, . . . . .	-	91	91
Clerk, . . . . .	26	14	40	Housework, . . . . .	-	12	12
Conductor, street railway, . . . . .	4	-	4	Ice cream maker, . . . . .	1	-	1
Cook, . . . . .	2	2	4	Inspector, . . . . .	2	-	2

TABLE 6. — *Occupations* — Concluded.

	Males.	Females.	Totals.		Males.	Females.	Totals.
Laborer, . . . . .	5	-	5	Porter, . . . . .	1	-	1
Lampighter, . . . . .	1	-	1	Printer, . . . . .	5	1	6
Laundress, . . . . .	-	3	3	Rope maker, . . . . .	1	-	1
Leather worker, . . . . .	2	-	2	Salespeople, . . . . .	7	4	11
Librarian, . . . . .	-	1	1	Seamstress, . . . . .	-	2	2
Lineman, . . . . .	2	-	2	Sheet metal worker, . . . . .	1	-	1
Machinist, . . . . .	5	-	5	Steam fitter, . . . . .	1	-	1
Manager, . . . . .	2	-	2	Stenographer, . . . . .	1	7	8
Manicurist, . . . . .	-	1	1	Steward, . . . . .	1	-	1
Milliner, . . . . .	-	2	2	Student, . . . . .	6	8	14
Molder, . . . . .	2	-	2	Tailor, . . . . .	8	2	10
Monotype operator, . . . . .	-	1	1	Teacher, drawing, . . . . .	-	1	1
Motorman, . . . . .	3	-	3	Teacher, piano, . . . . .	-	3	3
Musician, . . . . .	1	-	1	Teacher, school, . . . . .	-	3	3
No work, . . . . .	7	13	20	Teamster, . . . . .	10	-	10
Nurse maid, . . . . .	-	2	2	Telephone operator, . . . . .	-	5	5
Nurse, student, . . . . .	-	2	2	Tinsmith, . . . . .	1	-	1
Nurse, trained, . . . . .	-	4	4	Upholsterer, . . . . .	2	-	2
Officer, . . . . .	2	-	2	Vocalist, . . . . .	1	-	1
Painter, . . . . .	4	-	4	Waiter, . . . . .	2	6	8
Peddler, . . . . .	4	-	4	Totals, . . . . .	202	267	469
Plumber, . . . . .	1	-	1				

TABLE 7. — *Stage of Disease at Admission.*

	Males.	Females.	Totals.	Per Cent.
Incipient, . . . . .	65	112	177	37.74
Moderately advanced, . . . . .	106	107	213	45.41+
Far advanced, . . . . .	27	45	72	15.35
Nontuberculous, . . . . .	4	3	7	1.49
Totals, . . . . .	202	267	469	-

TABLE 8. — *Condition on Discharge.*

	Males.	Females.	Totals.
Arrested, . . . . .	85	105	190
Improved, . . . . .	49	107	156
Unimproved, . . . . .	27	32	59
Died, . . . . .	23 <sup>1</sup>	14	37
Nontuberculous, . . . . .	5	4	9
Not considered, . . . . .	11 <sup>1</sup>	14	25
Totals, . . . . .	200	276	476

<sup>1</sup> One "not considered" case included in deaths.

TABLE 9. — *Deaths, Duration of Disease, Length of Stay in Sanatorium and Cause of Death.*

No.	DURATION.	Length of Stay.	Cause of Death.
9205	4 months, . . . . .	11 months, 21 days, . . . . .	Pulmonary tuberculosis.
9389	8 years, . . . . .	7 months, 4 days, . . . . .	Tuberculosis of the spine and pulmonary tuberculosis.
9110	2 years, . . . . .	14 months, 8 days, . . . . .	Laryngeal and pulmonary tuberculosis.
9172	1 year, . . . . .	13 months, 12 days, . . . . .	Tuberculous meningitis and pulmonary tuberculosis.
7990	1 year, . . . . .	39 months, 11 days, . . . . .	Pulmonary tuberculosis.
8945	4 years, . . . . .	18 months, 27 days, . . . . .	Pulmonary tuberculosis.
9487	12 years, . . . . .	5 months, 23 days, . . . . .	Pulmonary tuberculosis.
8865	3 years, . . . . .	20 months, 28 days, . . . . .	Tuberculous enteritis and pulmonary tuberculosis.
8584	2½ years, . . . . .	28 months, . . . . .	Hæmoptysis and pulmonary tuberculosis.
9529	1¼ years, . . . . .	5 months, . . . . .	Spontaneous pneumothorax and pulmonary tuberculosis.
9243	5 years, . . . . .	13 months, 10 days, . . . . .	Pulmonary tuberculosis.
9289	2 years, . . . . .	11 months, 13 days, . . . . .	Acute stenosis of trachea and pulmonary tuberculosis.
9291	1 year, . . . . .	11 months, 16 days, . . . . .	Pulmonary tuberculosis.
8868	6 months, . . . . .	21 months, 15 days, . . . . .	Tuberculous meningitis and pulmonary tuberculosis.
9474	1 year, . . . . .	7 months, 14 days, . . . . .	Laryngeal and pulmonary tuberculosis.
9406	1 year, . . . . .	9 months, 10 days, . . . . .	Pulmonary tuberculosis.
9217	5 months, . . . . .	14 months, 20 days, . . . . .	Pulmonary tuberculosis.
9119	1 year, . . . . .	17 months, 22 days, . . . . .	Pulmonary tuberculosis.
9740	7 months, . . . . .	1 month, 3 days, . . . . .	Hæmoptysis and pulmonary tuberculosis.
8642	1 year, . . . . .	28 months, 26 days, . . . . .	Pulmonary tuberculosis.
9728	4 years, . . . . .	1 month, 26 days, . . . . .	Tuberculous meningitis and pulmonary tuberculosis.
8857	1½ years, . . . . .	23 months, 24 days, . . . . .	Pulmonary tuberculosis.
9709	3 years, . . . . .	3 months, 9 days, . . . . .	Pulmonary tuberculosis.

TABLE 9. — *Deaths, Duration of Disease, Length of Stay in Sanatorium and Cause of Death*—Concluded.

No.	DURATION.	Length of Stay.	Cause of Death.
9283	8 months,	14 months, 28 days,	Pulmonary tuberculosis.
8989	6 months,	23 months, 9 days,	Tuberculous peritonitis and pulmonary tuberculosis.
9738	1 year,	2 months, 25 days,	Pulmonary tuberculosis.
9212	6 months,	17 months, 23 days,	Pulmonary tuberculosis.
9382	1 year,	13 months, 17 days,	Pulmonary tuberculosis.
9112	7 months,	21 months, 30 days,	Tuberculous enteritis and pulmonary tuberculosis.
9927	1 year,	2 days,	Tuberculous meningitis and pulmonary tuberculosis.
9881	2 years,	2 months, 21 days,	Pulmonary tuberculosis.
9293	6 months,	18 months, 2 days,	Empyema and pulmonary tuberculosis.
9721	1½ years,	7 months,	Tuberculous meningitis and pulmonary tuberculosis.
9367	6 months,	16 months, 21 days,	Paraplegia and pulmonary tuberculosis.
9919	2 years,	4 months, 9 days,	Pulmonary tuberculosis.
10037	5 months,	1 month, 8 days,	Pulmonary tuberculosis.
9339	4 months,	19 months, 6 days,	Hæmoptysis, bronchopneumonia, and pulmonary tuberculosis.

*Climatological Data, Rutland State Sanatorium, Altitude, 1,160 Feet, for the Official Year beginning Dec. 1, 1913, and ending Nov. 30, 1914.*

DATE.	TEMPERATURE (DEGREES).		Clear Days.	Partly Cloudy Days.	Cloudy Days.	Days with Rain or Snow.	PRECIPITATION.			WIND (MILES).			Mean Relative Humidity (Per Cent.).	
	Mean.	Departure from Normal.					Rain.	Departure from Normal.	Snow.	Total.	Average per Hour.	Departure from Normal.		
<b>1913.</b>														
December,	31.4	+6.1	10	10	3	5	2.23	-1.23	2.6	5,855.8 <sup>1</sup>	10.5	-2	74.9	
<b>1914.</b>														
January,	20.7	-2.3	11	10	10	18	7.38	+4.10	15.8	9,830.0	13.2	+1.6	84.2	
February,	17.3	-3.0	15	11	2	9	3.64	+0.63	22.8	7,939.2	12.2	-0.2	78.4	
March,	30.1	-1.3	6	19	6	13	5.75	+1.97	10.1	8,244.3	11.1	+0.2	86.1	
April,	38.3	-4.8	13	4	5	13	5.44	+1.56	3.5	5,524.7 <sup>1</sup>	10.4	-1.0	75.5	
May,	57.8	+3.1	20	7	3	9	3.38	+0.25	-	6,801.0 <sup>3</sup>	9.5	-0.9	64.8	
June,	62.3	-0.1	15	9	6	8	2.11	-2.08	-	6,536.1	8.7	-0.3	69.6	
July,	65.7	+3.1	11	11	9	17	3.29	-0.45	-	5,337.5	7.2	-1.3	82.1	
August,	67.0	+1.9	12	9	10	16	4.97	+0.67	-	5,777.8	7.8	-2	85.5	
September,	60.7	+1.0	20	4	6	4	.13 <sup>4</sup>	-4.14	-	5,362.1	7.4	-1.0	70.1	
October,	52.6	+3.4	18	7	6	7	1.73	-2.15	-	6,469.9	8.7	-0.4	77.2	
November,	35.2	+2.0	11	10	9	8	3.03	+0.28	9.8	8,494.9	11.8	+1.4	70.8	
Totals,	539.1	-	162	111	75	127	43.08	+0.45	64.8	82,172.8	118.5	-	919.2	
Averages,	44.9	+0.1	13+	9+	6+	10+	3.59	+0.04	-	6,947.7	9.9	+0.1	76.6	

<sup>1</sup> Eight days missing.      <sup>2</sup> Normal.      <sup>3</sup> One day missing.      <sup>4</sup> Minimum amount of precipitation of any month on record.